APPENDIX A

Statistical Report
Cornell-Dubilier Site
Plainfield, NJ

SAS® Output for Principal Component Analyses

178374

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Cornell Dubilier Biological Sampling
South Plainfield, New Jersey

January 2009

EPA Work Assignment No. 0-360
LOCKHEED MARTIN Work Order EAC00360
EPA Contract No. EP-C-04-032

Submitted to
M. Sprenger
EPA-ERT

V. Kansal — Date 1/22/09
Analytical Section Leader

D. Killeen — Date 1/22/09
Quality Assurance Officer

D. Miller — Date 1/24/09
Program Manager

Analysis by:
PACE
Analytical

Prepared by:
Y. Mehra

Reviewed by:
J. Soroka

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Appendix A will be furnished on request

Introduction

REAC, in response to WA# 0-360, provided analytical support for environmental samples collected from the Cornell Dubilier Biological Sampling, Site in South Plainfield, NJ as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-360-10/23/08-0007	12	09/25/08	10/24/08	Clam Tissue	PCB/SW-846 Method 8082	PACE Analytical	T 372
	3	10/07/08					

[1] PACE Analytical Services is NELAC certified for PCB in tissue

Case Narrative

The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables.

<u>PCBs in Clam Tissue Package T 372</u>

Surrogate recoveries for tetrachloro-meta-xylene and decachlorobiphenyl were outside QC limits due to dilutions required to bring the Aroclor concentration in sample 0-360-0103 and 0-360-0103 MS/MSD within linear range. The results for sample 0-360-0103 are qualified estimated (J).

Aroclor 1254 for samples 0-360-0097 and 0-360-0098 and Aroclor 1260 for sample 0-360-0104 exhibited marginal pattern matching quality; the results for these Aroclors are qualified presumptively present (N).

The Aroclor 1248 and total PCB results may be biased high due to the interference of Aroclor 1254 with the quantitation peaks of Aroclor 1248 for the following samples: 0-360-0099 through 0-360-0107 and 0-360-0109 through 0-360-0111.

USEPA National Functional Guidelines (NFG) for Superfund Organic Methods Data Review specifies that: “For non-aqueous samples, if the Percent Moisture is less than 70.0%, no qualification of the data is necessary. If the Percent Moisture is greater than or equal to 70.0% and less than 90.0%, qualify detects as "J" and non-detects as "UJ". If the Percent Moisture is greater than or equal to 90.0%, qualify detects as "J" and non-detects as unusable "R".” It should be noted that the NFG are written for the assessment of aqueous and soil matrices. As per discussion with the WAM, no qualifications to the tissue data were made based on sample moisture content.

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated

Rev. 02/05/08

Table 1.1 Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Wet Weight

Method : EPA 8082

Sample Number	11/10/2008		0-360-0096		0-360-0097		0-360-0098		0-360-0099	
Sample Location	Method Blank		1-AC-1		1-AC-2		1-AC-3		2-AC-1	
Percent Solids			8.6		9.6		9.9		10	
Percent Lipids			0.86		0.82		0.89		0.70	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U	200	U	50.0	U	100	U	250
PCB-1221 (Aroclor 1221)	U	50.0	U	200	U	50.0	U	100	U	250
PCB-1232 (Aroclor 1232)	U	50.0	U	200	U	50.0	U	100	U	250
PCB-1242 (Aroclor 1242)	U	50.0	U	200	U	50.0	U	100	U	250
PCB-1248 (Aroclor 1248)	U	50.0	U	200	U	50.0	U	100	591	250
PCB-1254 (Aroclor 1254)	U	50.0	U	200	61.8 N	50.0	112 N	100	1290	250
PCB-1260 (Aroclor 1260)	U	50.0	U	200	U	50.0	U	100	U	250
Total PCB	U	50.0	U	200	61.8	50.0	112	100	1880	250

Table 1.1 (cont) Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0100		0-360-0101		0-360-0102		0-360-0103		0-360-0104	
Sample Location	2-AC-2		2-AC-3		3-AC-1		3-AC-2		3-AC-3	
Percent Solids	9.8		9.6		8.6		8.1		7.0	
Percent Lipids	0.80		0.86		0.56		0.76		0.54	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	500	U	400	U	250	U J	1000	U	250
PCB-1221 (Aroclor 1221)	U	500	U	400	U	250	U J	1000	U	250
PCB-1232 (Aroclor 1232)	U	500	U	400	U	250	U J	1000	U	250
PCB-1242 (Aroclor 1242)	U	500	U	400	U	250	U J	1000	U	250
PCB-1248 (Aroclor 1248)	985	500	932	400	556	250	1000 J	1000	601	250
PCB-1254 (Aroclor 1254)	2050	500	2170	400	1400	250	2760 J	1000	1540	250
PCB-1260 (Aroclor 1260)	U	500	U	400	U	250	U J	1000	107 JN	250
Total PCB	3040	500	3110	400	1960	250	3760 J	1000	2250	250

Table 1.1 (cont) Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0105		0-360-0106		0-360-0107		0-360-0109		0-360-0110	
Sample Location	4-AC-1		4-AC-2		4-AC-3		5-AC-1		5-AC-2	
Percent Solids	11		11		8.4		8.4		9.6	
Percent Lipids	1.1		0.72		0.56		0.65		1.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	500	U	500	U	250	U	500	U	500
PCB-1221 (Aroclor 1221)	U	500	U	500	U	250	U	500	U	500
PCB-1232 (Aroclor 1232)	U	500	U	500	U	250	U	500	U	500
PCB-1242 (Aroclor 1242)	U	500	U	500	U	250	U	500	U	500
PCB-1248 (Aroclor 1248)	926	500	836	500	612	250	892	500	1160	500
PCB-1254 (Aroclor 1254)	1640	500	1580	500	1270	250	1660	500	2250	500
PCB-1260 (Aroclor 1260)	U	500	U	500	U	250	U	500	U	500
Total PCB	2560	500	2410	500	1880	250	2550	500	3410	500

Table 1.1 (cont) Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0111	
Sample Location	5-AC-3	
Percent Solids	8.0	
Percent Lipids	0.74	
Analyte	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	500
PCB-1221 (Aroclor 1221)	U	500
PCB-1232 (Aroclor 1232)	U	500
PCB-1242 (Aroclor 1242)	U	500
PCB-1248 (Aroclor 1248)	1090	500
PCB-1254 (Aroclor 1254)	2040	500
PCB-1260 (Aroclor 1260)	U	500
Total PCB	3120	500

Table 1.2 Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Dry Weight

Method : EPA 8082

Sample Number	11/10/2008		0-360-0096		0-360-0097		0-360-0098		0-360-0099	
Sample Location	Method Blank		1-AC-1		1-AC-2		1-AC-3		2-AC-1	
Percent Solids			8.6		9.6		9.9		10	
Percent Lipids			0.86		0.82		0.89		0.70	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U	2310	U	522	U	1010	U	2490
PCB-1221 (Aroclor 1221)	U	50.0	U	2310	U	522	U	1010	U	2490
PCB-1232 (Aroclor 1232)	U	50.0	U	2310	U	522	U	1010	U	2490
PCB-1242 (Aroclor 1242)	U	50.0	U	2310	U	522	U	1010	U	2490
PCB-1248 (Aroclor 1248)	U	50.0	U	2310	U	522	U	1010	591	2490
PCB-1254 (Aroclor 1254)	U	50.0	U	2310	645 N	522	1140 N	1010	12800	2490
PCB-1260 (Aroclor 1260)	U	50.0	U	2310	U	522	U	1010	U	2490
Total PCB	U	50.0	U	2310	645	522	1140	1010	18700	2490

Table 1.2 (cont) Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0100		0-360-0101		0-360-0102		0-360-0103		0-360-0104	
Sample Location	2-AC-2		2-AC-3		3-AC-1		3-AC-2		3-AC-3	
Percent Solids	9.8		9.6		8.6		8.1		7.0	
Percent Lipids	0.80		0.86		0.56		0.76		0.54	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	5120	U	4180	U	2900	U J	12400	U	3580
PCB-1221 (Aroclor 1221)	U	5120	U	4180	U	2900	U J	12400	U	3580
PCB-1232 (Aroclor 1232)	U	5120	U	4180	U	2900	U J	12400	U	3580
PCB-1242 (Aroclor 1242)	U	5120	U	4180	U	2900	U J	12400	U	3580
PCB-1248 (Aroclor 1248)	10100	5120	9740	4180	6450	2900	12400 J	12400	8610	3580
PCB-1254 (Aroclor 1254)	21000	5120	22700	4180	16200	2900	34200 J	12400	22100	3580
PCB-1260 (Aroclor 1260)	U	5120	U	4180	U	2900	U J	12400	1530 JN	3580
Total PCB	31100	5120	32500	4180	22700	2900	46600 J	12400	32200	3580

Table 1.2 (cont) Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0105		0-360-0106		0-360-0107		0-360-0109		0-360-0110	
Sample Location	4-AC-1		4-AC-2		4-AC-3		5-AC-1		5-AC-2	
Percent Solids	11		11		8.4		8.4		9.6	
Percent Lipids	1.1		0.72		0.56		0.65		1.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	4750	U	4600	U	2960	U	5990	U	5200
PCB-1221 (Aroclor 1221)	U	4750	U	4600	U	2960	U	5990	U	5200
PCB-1232 (Aroclor 1232)	U	4750	U	4600	U	2960	U	5990	U	5200
PCB-1242 (Aroclor 1242)	U	4750	U	4600	U	2960	U	5990	U	5200
PCB-1248 (Aroclor 1248)	8800	4750	7680	4600	7250	2960	10700	5990	12100	5200
PCB-1254 (Aroclor 1254)	15600	4750	14500	4600	15000	2960	19900	5990	23400	5200
PCB-1260 (Aroclor 1260)	U	4750	U	4600	U	2960	U	5990	U	5200
Total PCB	24300	4750	22200	4600	22300	2960	30500	5990	35400	5200

Table 1.2 (cont) Results of the Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling Site
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0111	
Sample Location	5-AC-3	
Percent Solids	8.0	
Percent Lipids	0.74	
Analyte	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	6230
PCB-1221 (Aroclor 1221)	U	6230
PCB-1232 (Aroclor 1232)	U	6230
PCB-1242 (Aroclor 1242)	U	6230
PCB-1248 (Aroclor 1248)	13600	6230
PCB-1254 (Aroclor 1254)	25400	6230
PCB-1260 (Aroclor 1260)	U	6230
Total PCB	38900	6230

Table 2.1 Results of the MS/MSD Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Sample Number: 0-360-0103

Analyte	Sample Result ug/kg	MS\MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery	MSD Result ug/kg	MSD % Recovery	RPD	QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	2760	1000	3500	74	3330	57	5	43 - 130	56

Table 2.2 Results of the LCS Analysis for PCB in Clam Tissue
WA # 0-360 Cornell Dubilier Biological Sampling

Date: 11/10/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	194	78	40 - 128

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Pace WI
1241 Bellevue Street
Suite 9
Greenbay, WI 54302

Attn: Todd Noltemeyer

October 30, 2008

As per Lockheed Martin Purchase Order 7100045713 for Project 0360, please analyze for the following parameters:

Analysis/Method	Matrix	# of samples
PBC Congeners/ SW-846-1668A(209 Congeners)	Asiatic Clams Sunfish Carp White Suckers	5 16 4 14
PCB/SW-846-8082	Asiatic Clams Sunfish Carp White Suckers	15 78 32 58
% Lipids/ PACE SOP S-GB-L-003 Rev. 1	Tissue	110
% Solids	Tissue	110
Data package: Package with Diskette Deliverable		

The samples arrived at your laboratory between October 17-24, 2008. The lab will follow the attached instructions for each matrix. **All applicable QA/QC**(eg: MS/MSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to REAC 20 business days after receipt of the samples. The complete data package is due 30 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable(See attached checklist for format).

All results should be reported on dry weight basis and wet weight basis.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**. Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Joseph M Sorka for VK

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
L. Lyons
0360\non\mem\0810\sub\0360Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
M. Sprenger

Cornell Dublier Tissue Samples: Processing and Analyses Performed by PACE Analytical

Asiatic Clams

1) Before homogenization, each composite sample will be weighed frozen. Each composte sample will be homogenized and kept frozen (-20C) until analysis.

2) Analyses of each composite sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for one composite sample from each location will also be analyzed for Total PCB congener analyses.

Sunfish/Pumkinseed : Filets and Carcasses

1) Homogenization:
For each fish in each composite sample, the fish will be weighed and then the left side of the fish will be scaled and fileted.
The filet of each fish will be weighed and the remainder of the carcass of ech fish will be weighed.
The composite of each filet sample and the composite of each carcass sample will be weighed.
The filets for each composite will be homogenized and then frozen at -20C until analyses.
The carcasses of each composite will be homogenized and then frozen at -20C until analyses.

2) Analyses of each composite sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for selected composite samples from each location will also be analyzed for Total PCB congener analyses.

Carp and White Suckers: Filets and Carcasses

1) Honmogenization: Each fish will be wieighed and then the left side of each fish will be scaled and fileted.
The filet will be weighed and the remainder of the carcass will be wieghed.
The filet for each fish will be homogenized and then frozen at -20C until analyses.
The carcass of each fish will be homogenized and then frozen at -20C until analyses.

2) Analyses of each fish sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for selected fish from each location will also be analyzed for Total PCB congener analyses

4) Note: there are two white sucker composite samples that will be processed like the Sunfish composite samples

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/23/08-0007

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
001	0-360-0096	1-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	1-4oz CG
002	0-360-0097	1-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
003	0-360-0098	1-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	4 oz. glass	-20 C	
004	0-360-0099	2-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
005	0-360-0100	2-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
006	0-360-0101	2-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	4 oz. glass	-20 C	
007	0-360-0102	3-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
008	0-360-0103	3-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	8 oz. glass	-20 C	1-8oz CG
009	0-360-0104	3-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	8 oz. glass	-20 C	
010	0-360-0105	4-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	8 oz. glass	-20 C	
011	0-360-0106	4-AC-2	Aroclor, % Lipids, % Solids	Tissue	10/7/2008	1	4 oz. glass	-20 C	1-4oz CG
012	0-360-0107	4-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	10/7/2008	1	4 oz. glass	-20 C	
013	0-360-0109	5-AC-1	Aroclor, % Lipids, % Solids	Tissue	10/7/2008	1	4 oz. glass	-20 C	
014	0-360-0110	5-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
015	0-360-0111	5-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	4 oz. glass	-20 C	

Special Instructions: Lab chooses sample for MS/MSD analysis

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY # 4010695

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	Erica Wentz	10/23/08									
	Fedex	10/24/08	[illegible]	10/24/08	1000						

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Cornell Dubilier Biological Sampling
South Plainfield, New Jersey

March 2009

EPA Work Assignment No. 0-360
LOCKHEED MARTIN Work Order EAC00360
EPA Contract No. EP-C-04-032

Submitted to
M. Sprenger
EPA/ERT

V. Kansal Analytical Section Leader	3/2/09 Date	Analysis by: PACE Analytical
D. Killeen Quality Assurance Officer	3/2/09 Date	Prepared by: Y. Mehra
D. Miller Program Manager	3/9/09 Date	Reviewed by: J. Soroka

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Section III

Table of PCB Congeners by Congener Number, IUPAC and Type — Table 3
Communications
Chains of Custody

Appendices

Appendix A Data for PCB Congeners in Tissue — T 396

Appendix A will be furnished on request.

Introduction

REAC personnel, in response to WA# 0-360, provided analytical support for environmental samples collected from the Cornell Dubilier Biological Sampling Site in South Plainfield, NJ as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis / Method	Laboratory	Data Package
0-360-10/23/08-0007	4	09/25/08	10/24/08	Tissue	PCB Congeners/ EPA 1668A	PACE Anaytical[1]	T 396
	1	10/07/08					

[1]PACE is NELAC certified for PCB analyses.

Case Narrative

The data in this report have been validated to three significant figures as reported by the laboratory. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables.

<u>PCB Congeners in Clam Tissue Package T 396</u>

Method blanks MB18211 and MB18310 contained Congener 11 (3,3'-DiCB). Congener 11 concentrations in associated samples 0-360-0104, 0-360-0098, 0-360-0101, 0-360-0107 and 0-360-0111 are qualified non-detect (U) because the sample results were less than five times the blank concentration. The RLs have been raised to the level found in the samples.

For MS/MSD 0-360-0104, percent recovery for Congeners 3 (4-MoCB), 81 (3,4,4',5-TeCB), 104 (2,2',4,6,6'-PeCB), 126 (3,3',4,4',5-PeCB) and 189 (2,3,3',4,4',5,5'-HpCB) do not meet QC limits. Congeners 3, 81, 104 and 189 results are qualified estimated (J or UJ), for sample 0-360-0104.

Percent recovery for labeled CB-#1 ($^{13}C_{12}$-2-Mo-CB) was below the QC limits for LCSD 18312. Mono-CB results in the associated sample 0-360-0104 are qualified estimated (J or UJ).

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated
N	Presumptively present (Aroclors only)		

Rev. 1/14/09

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB18211			0-360-0098			0-360-0101		
Sample Location	Method Blank			1-AC-3			2-AC-3		
Percent Solids	NA			9.9			9.6		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	U		2.00	4.96		1.13	869		1.56
3-MoCB	U		2.00	U		1.13	6.40	EMPC	1.56
4-MoCB	3.26		2.00	1.66	EMPC	1.13	94.9		1.56
2,2'-DiCB	4.69	EMPC	2.00	244		1.13	37300		1.56
2,6-DiCB	U		2.00	9.14	EMPC	1.13	1580		1.56
2,5-DiCB	U		2.00	4.30	EMPC	1.13	78.0		1.56
2,4-DiCB	U		2.00	3.25	EMPC	1.13	112		1.56
2,3'-DiCB	U		2.00	41.5		1.13	1050		1.56
2,3-DiCB	U		2.00	U		1.13	11.5	EMPC	1.56
2,4'-DiCB	11.9	EMPC	2.00	54.2		1.13	1650		1.56
3,5-DiCB	U		2.00	U		1.13	U		1.56
3,3'-DiCB	98.8		2.00	U		98.5	U		105
(12/13)	U		4.00	7.63	EMPC	2.25	1740		3.12
4,4'-DiCB	U		2.00	36.6		1.13	2060		1.56
2,2',6-TrCB	2.59	EMPC	2.00	126		1.13	17100		1.56
(18/30)	18.9		4.00	650		2.25	5140		3.12
2,2',4-TrCB	9.88		2.00	301		1.13	13300		1.56
2,3',6-TrCB	2.91		2.00	153		1.13	34400		1.56
2,3,6-TrCB	U		2.00	8.23		1.13	U		1.56
2,2',3-TrCB	8.43	EMPC	2.00	245		1.13	1540		1.56
2,4',6-TrCB	7.12		2.00	235		1.13	6390		1.56
2,3',5'-TrCB	U		2.00	U		1.13	120		1.56
2,3,5-TrCB	U		2.00	U		1.13	U		1.56
(26/29)	U		4.00	391		2.25	3830		3.12
2,3',4-TrCB	U		2.00	184		1.13	3830		1.56
2,4',5-TrCB	18.2	EMPC	2.00	329		1.13	2140		1.56
(20/28)	30.5		4.00	643		2.25	5990		3.12
(21/33)	13.0	EMPC	4.00	123		2.25	300		3.12
2,3,4'-TrCB	12.0		2.00	246		1.13	896		1.56
3,3',5-TrCB	U		2.00	U		1.13	U		1.56
3,4',5-TrCB	U		2.00	7.72		1.13	65.0		1.56
3,4,5-TrCB	U		2.00	U		1.13	U		1.56
3,3',4-TrCB	U		2.00	10.1	EMPC	1.13	35.2		1.56
3,4,4'-TrCB	6.18	EMPC	2.00	125		1.13	856		1.56
2,2',6,6'-TeCB	U		2.00	6.79		1.13	1200		1.56
(50/53)	4.22		4.00	1180		2.25	30600		3.12
(45/51)	8.58		4.00	678		2.25	14900		3.12
2,2',3,6'-TeCB	U		2.00	171		1.13	2650		1.56
2,2',5,5'-TeCB	35.5		2.00	4400		1.13	68200		1.56
2,3',5',6-TeCB	U		2.00	U		1.13	U		1.56
2,2',3,5-TeCB	U		2.00	62.7		1.13	801		1.56
(49/69)	19.2		4.00	1720		2.25	38200		3.12
2,2',4,5-TeCB	5.46		2.00	274		1.13	1770		1.56
(44/47/65)	30.4		6.00	4280		3.38	72300		4.68
(59/62/75)	U		6.00	307		3.38	1780		4.68
2,2',3,4'-TeCB	7.47		2.00	1240		1.13	14200		1.56
(40/41/71)	15.6		6.00	1300		3.38	16900		4.68
2,3,4',6-TeCB	11.5		2.00	795		1.13	5880		1.56
2,3',5,5'-TeCB	U		2.00	49.5		1.13	1120		1.56
2,3',4,5'-TeCB	U		2.00	30.5		1.13	1540		1.56
2,3,3',5-TeCB	U		2.00	24.8		1.13	170		1.56
2,3,3',5'-TeCB	U		2.00	19.2		1.13	177		1.56
2,3',4,5-TeCB	U		2.00	77.5		1.13	537		1.56
2,3,4',5-TeCB	U		2.00	60.1		1.13	886		1.56
(61/70/74/76)	34.8		8.00	2470		4.5	33200		6.24
2,3',4,4'-TeCB	23.2		2.00	1430		1.13	22700		1.56

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB18211			0-360-0098			0-360-0101		
Sample Location	Method Blank			1-AC-3			2-AC-3		
Percent Solids	NA			9.9			9.6		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg

2,3,3',4-TeCB	U		2.00	U		1.13	U		1.56
2,3,3',4'-TeCB	9.57		2.00	641		1.13	3880		1.56
2,3,4,4'-TeCB	5.72		2.00	199		1.13	1110		1.56
3,3',5,5'-TeCB	U		2.00	U		1.13	U		1.56
3,3',4,5'-TeCB	U		2.00	76.9		1.13	1010		1.56
3,3',4,5-TeCB	U		2.00	U		1.13	U		1.56
3,4,4',5-TeCB	U		2.00	8.68	EMPC	1.13	44.8	EMPC	1.56
3,3',4,4'-TeCB	4.66	EMPC	2.00	140		1.13	413		1.56
2,2',4,6,6'-PeCB	U		2.00	U		1.13	93.0		1.56
2,2',3,6,6'-PeCB	U		2.00	57.9		1.13	678		1.56
2,2',4,5',6-PeCB	U		2.00	70.4		1.13	1080		1.56
2,2',3,5,6'-PeCB	U		2.00	54.7		1.13	1450		1.56
2,2',3,5',6-PeCB	25.3		2.00	9510		1.13	94500		1.56
(93/98/100/102)	U		8.00	420		4.5	6390		6.24
(88/91)	5.70	EMPC	4.00	1310		2.25	13300		3.12
2,2',3,3',6-PeCB	9.81		2.00	1770		1.13	18500		1.56
2,2',3,4,6'-PeCB	U		2.00	87.7		1.13	443		1.56
2,3',4,5',6-PeCB	U		2.00	U		1.13	35.8		1.56
2,2',3,5,5'-PeCB	U		2.00	1810		1.13	19500		1.56
(90/101/113)	36.0		6.00	7680		3.38	101000		4.68
2,2',3,3',5-PeCB	U		2.00	467		1.13	3780		1.56
2,2',4,4',5-PeCB	20.0		2.00	3690		1.13	56700		1.56
2,3,3',5,6-PeCB	U		2.00	U		1.13	U		1.56
(86/87/97/108/119/125)	25.7	EMPC	12.0	4770		6.76	65000		9.36
(85/117/116)	U		6.00	1150		3.38	14300		4.68
(110/115)	41.9		4.00	9210		2.25	102000		3.12
2,2',3,3',4-PeCB	U		2.00	591		1.13	6270		1.56
2,3,3',5,5'-PeCB	U		2.00	4.32	EMPC	1.13	73.5		1.56
2,3',4,5,5'-PeCB	U		2.00	25.3		1.13	248		1.56
(107/124)	U		4.00	227		2.25	2830		3.12
2,3,3',4,6-PeCB	U		2.00	333		1.13	5380		1.56
2,3',4,4',5'-PeCB	U		2.00	160		1.13	1380		1.56
2,3,3',4,5-PeCB	U		2.00	U		1.13	U		1.56
2,3',4,4',5-PeCB	33.3		2.00	6900		1.13	110000		1.56
2,3,3',4',5'-PeCB	U		2.00	71.6		1.13	707		1.56
2,3,4,4',5-PeCB	U		2.00	80.2		1.13	1370		1.56
2,3,3',4,4'-PeCB	12.1		2.00	1460		1.13	24600		1.56
3,3',4,5,5'-PeCB	U		2.00	7.81	EMPC	1.13	66.2		1.56
3,3',4,4',5-PeCB	U		2.00	26.5	EMPC	1.13	121	EMPC	1.56
2,2',4,4',6,6'-HxCB	U		2.00	U		1.13	7.85		1.56
2,2',3,5,6,6'-HxCB	U		2.00	9.74		1.13	122		1.56
2,2',3,4',6,6'-HxCB	U		2.00	10.3		1.13	100		1.56
2,2',3,3',6,6'-HxCB	6.43	EMPC	2.00	1090		1.13	7000		1.56
2,2',3,4,6,6'-HxCB	U		2.00	3.33	EMPC	1.13	33.0		1.56
2,2',3,4',5,6'-HxCB	U		2.00	11.8		1.13	107		1.56
(135/151)	15.3		4.00	4100		2.25	16600		3.12
2,2',4,4',5,6'-HxCB	U		2.00	91.6		1.13	770		1.56
2,2',3,4,5',6-HxCB	U		2.00	481		1.13	2210		1.56
(147/149)	32.7		4.00	8540		2.25	46200		3.12
(134/143)	U		4.00	505		2.25	3810		3.12
(139/140)	U		4.00	179		2.25	1610		3.12
2,2',3,3',4,6-HxCB	U		2.00	179		1.13	1340		1.56
2,2',3,4,5,6-HxCB	U		2.00	U		1.13	U		1.56
2,2',3,3',4,6'-HxCB	15.8		2.00	2910		1.13	21000		1.56
2,2',3,3',5,5'-HxCB	U		2.00	157		1.13	939		1.56
2,3,3',5,5',6-HxCB	U		2.00	3.85		1.13	22.2		1.56

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB18211			0-360-0098			0-360-0101		
Sample Location	Method Blank			1-AC-3			2-AC-3		
Percent Solids	NA			9.9			9.6		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
							Page 1-3 of 3		
2,2',3,4',5,5'-HxCB	6.03		2.00	1750		1.13	8940		1.56
2,3,3',4,5',6-HxCB	U		2.00	U		1.13	U		1.56
(153/168)	34.5		4.00	17200		2.25	90400		3.12
2,2',3,4,5,5'-HxCB	9.53		2.00	297		1.13	1690		1.56
2,2',3,3',4,5'-HxCB	U		2.00	620		1.13	4360		1.56
2,2',3,4,4',5-HxCB	U		2.00	238		1.13	2440		1.56
2,3,3',4',5',6-HxCB	U		2.00	442		1.13	2510		1.56
(129/138/163)	47.4		6.00	11300		3.38	76500		4.68
2,3,3',4,5,6-HxCB	U		2.00	U		1.13	U		1.56
2,3,3',4,4',6-HxCB	4.03	EMPC	2.00	1010		1.13	7480		1.56
(128/166)	7.32		4.00	1230		2.25	9120		3.12
2,3,3',4,5,5'-HxCB	U		2.00	U		1.13	U		1.56
2,3,3',4',5,5'-HxCB	U		2.00	31.2		1.13	124		1.56
2,3',4,4',5,5'-HxCB	U		2.00	694		1.13	5190		1.56
(156/157)	U		4.00	526		2.25	5620		3.12
3,3',4,4',5,5'-HxCB	U		2.00	3.10	EMPC	1.13	26.4	EMPC	1.56
2,2',3,4',5,6,6'-HpCB	U		2.00	3.35		1.13	10.3		1.56
2,2',3,3',5,6,6'-HpCB	3.29		2.00	956		1.13	1240		1.56
2,2',3,4,4',6,6'-HpCB	U		2.00	U		1.13	7.32		1.56
2,2',3,3',4,6,6'-HpCB	U		2.00	309		1.13	503		1.56
2,2',3,4,5,6,6'-HpCB	U		2.00	U		1.13	U		1.56
2,2',3,3',5,5',6-HpCB	U		2.00	552		1.13	688		1.56
2,2',3,3',4,5',6-HpCB	U		2.00	110		1.13	155		1.56
2,2',3,4',5,5',6-HpCB	6.68	EMPC	2.00	3360		1.13	3890		1.56
2,2',3,4,4',5,6'-HpCB	U		2.00	4.62	EMPC	1.13	16.6		1.56
(183/185)	5.59		4.00	1490		2.25	2180		3.12
2,2',3,3',4,5,6'-HpCB	7.08		2.00	544		1.13	771		1.56
2,2',3,3',4,5',6'-HpCB	4.01		2.00	1220		1.13	2040		1.56
2,2',3,4,4',5,6-HpCB	U		2.00	16.9		1.13	106		1.56
(171/173)	U		4.00	647		2.25	1540		3.12
2,2',3,3',4,5,5'-HpCB	U		2.00	56.4		1.13	103		1.56
2,3,3',4,5,5',6-HpCB	U		2.00	U		1.13	U		1.56
(180/193)	12.0		4.00	2270		2.25	3450		3.12
2,3,3',4,4',5',6-HpCB	U		2.00	54.1		1.13	112		1.56
2,2',3,3',4,4',5-HpCB	6.43		2.00	405		1.13	1030		1.56
2,3,3',4,4',5,6-HpCB	U		2.00	295		1.13	685		1.56
2,3,3',4,4',5,5'-HpCB	U		2.00	13.3		1.13	45.4		1.56
2,2',3,3',5,5',6,6'-OcCB	U		2.00	202		1.13	144		1.56
2,2',3,3',4,5',6,6'-OcCB	U		2.00	143		1.13	89.4		1.56
2,2',3,4,4',5,6,6'-OcCB	U		2.00	U		1.13	U		1.56
(197/200)	U		4.00	82.8		2.25	54.4		3.12
(198/199)	U		4.00	241		2.25	166		3.12
2,2',3,3',4,4',5,6'-OcCB	U		2.00	125		1.13	81.7		1.56
2,2',3,4,4',5,5',6-OcCB	U		2.00	466		1.13	369		1.56
2,2',3,3',4,4',5,6-OcCB	U		2.00	162		1.13	128		1.56
2,2',3,3',4,4',5,5'-OcCB	U		2.00	43.3		1.13	36.3		1.56
2,3,3',4,4',5,5',6-OcCB	U		2.00	22.6		1.13	19.9	EMPC	1.56
2,2',3,3',4,5,5',6,6'-NoCB	U		2.00	28.4		1.13	24.0		1.56
2,2',3,3',4,4',5,6,6'-NoCB	U		2.00	13.5		1.13	13.1		1.56
2,2',3,3',4,4',5,5',6-NoCB	U		2.00	62.1		1.13	56.3		1.56
Decachlorobiphenyl	U		2.00	28.3		1.13	26.0		1.56
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Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB18211		0-360-0098		0-360-0101	
Sample Location	Method Blank		1-AC-3		2-AC-3	
Percent Solids	NA		9.9		9.6	
Analyte	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
					Page 1-4 of 3	
Congener Group						
Total Monochloro Biphenyls	3.26		4.96		964	
Total Dichloro Biphenyls	98.8		376		45600	
Total Trichloro Biphenyls	81.3		3770		95900	
Total Tetrachloro Biphenyls	211		21600		336000	
Total Pentachloro Biphenyls	178		51900		652000	
Total Hexachloro Biphenyls	169		53600		318000	
Total Heptachloro Biphenyls	38.4		12300		18600	
Total Octachloro Biphenyls	U		1490		1070	
Total Nonachloro Biphenyls	U		104		93.4	
Decachloro Biphenyls	U		28		26	
Total PCBs	780		145000		1470000	

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	0-360-0107			0-360-0111	
Sample Location	4-AC-3			5-AC-3	
Percent Solids	8.4			8.0	
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	513		3.69	578	5.11
3-MoCB	U		3.69	6.11	5.11
4-MoCB	31.5		3.69	35.5	5.11
2,2'-DiCB	14200		3.69	29900	5.11
2,6-DiCB	666		3.69	1360	5.11
2,5-DiCB	107		3.69	210	5.11
2,4-DiCB	71.5		3.69	135	5.11
2,3'-DiCB	1040		3.69	2020	5.11
2,3-DiCB	31.7		3.69	41	5.11
2,4'-DiCB	1710		3.69	2870	5.11
3,5-DiCB	U		3.69	U	5.11
3,3'-DiCB	U		85.0	U	161
(12/13)	582		7.38	1390	10.2
4,4'-DiCB	1110		3.69	2810	5.11
2,2',6-TrCB	7300		3.69	16300	5.11
(18/30)	8340		7.38	22200	10.2
2,2',4-TrCB	7830		3.69	19900	5.11
2,3',6-TrCB	22200		3.69	49500	5.11
2,3,6-TrCB	U		3.69	U	5.11
2,2',3-TrCB	2400		3.69	5970	5.11
2,4',6-TrCB	5390		3.69	12900	5.11
2,3',5'-TrCB	82.7		3.69	238	5.11
2,3,5-TrCB	4.07	EMPC	3.69	12.7	5.11
(26/29)	7080		7.38	21300	10.2
2,3',4-TrCB	4000		3.69	11000	5.11
2,4',5-TrCB	4160		3.69	11400	5.11
(20/28)	7050		7.38	20500	10.2
(21/33)	935		7.38	2280	10.2
2,3,4'-TrCB	1830		3.69	4650	5.11
3,3',5-TrCB	U		3.69	U	5.11
3,4',5-TrCB	47.1		3.69	139	5.11
3,4,5-TrCB	71.4		3.69	174	5.11
3,3',4-TrCB	50.2		3.69	148	5.11
3,4,4'-TrCB	1070		3.69	3330	5.11
2,2',6,6'-TeCB	820		3.69	2050	5.11
(50/53)	29300		7.38	71100	10.2
(45/51)	9900		7.38	27500	10.2
2,2',3,6'-TeCB	3170		3.69	7700	5.11
2,2',5,5'-TeCB	61700		3.69	178000	5.11
2,3',5',6-TeCB	U		3.69	U	5.11
2,2',3,5-TeCB	550		3.69	1730	5.11
(49/69)	45200		7.38	126000	10.2
2,2',4,5-TeCB	1270		3.69	3790	5.11
(44/47/65)	52300		11.1	149000	15.3
(59/62/75)	6700		11.1	16700	15.3
2,2',3,4'-TeCB	11300		3.69	32800	5.11
(40/41/71)	12600		11.1	37300	15.3
2,3,4',6-TeCB	7800		3.69	21700	5.11
2,3',5,5'-TeCB	2180		3.69	6190	5.11
2,3',4,5'-TeCB	1590		3.69	4540	5.11
2,3,3',5-TeCB	939		3.69	2530	5.11
2,3,3',5'-TeCB	267		3.69	793	5.11
2,3',4,5-TeCB	1040		3.69	3150	5.11
2,3,4',5-TeCB	873		3.69	2590	5.11
(61/70/74/76)	24600		14.8	71700	20.4
2,3',4,4'-TeCB	17500		3.69	51600	5.11
2,3,3',4-TeCB	U		3.69	U	5.11

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	0-360-0107			0-360-0111		
Sample Location	4-AC-3			5-AC-3		
Percent Solids	8.4			8.0		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
				Page 2-2 of 3		
2,3,3',4'-TeCB	3730		3.69	10400		5.11
2,3,4,4'-TeCB	995		3.69	3070		5.11
3,3',5,5'-TeCB	U		3.69	U		5.11
3,3',4,5'-TeCB	573		3.69	1600		5.11
3,3',4,5-TeCB	U		3.69	U		5.11
3,4,4',5-TeCB	33.6	EMPC	3.69	98.1	EMPC	5.11
3,3',4,4'-TeCB	583		3.69	1950		5.11
2,2',4,6,6'-PeCB	57.4		3.69	171		5.11
2,2',3,6,6'-PeCB	671		3.69	1870		5.11
2,2',4,5',6-PeCB	1240		3.69	3600		5.11
2,2',3,5,6'-PeCB	970		3.69	2780		5.11
2,2',3,5',6-PeCB	78400		3.69	215000		5.11
(93/98/100/102)	4340		14.8	12700		20.4
(88/91)	12400		7.38	36000		10.2
2,2',3,3',6-PeCB	14800		3.69	42300		5.11
2,2',3,4,6'-PeCB	332		3.69	944		5.11
2,3',4,5',6-PeCB	49.5		3.69	148		5.11
2,2',3,5,5'-PeCB	18700		3.69	55800		5.11
(90/101/113)	75600		11.1	218000		15.3
2,2',3,3',5-PeCB	4120		3.69	11600		5.11
2,2',4,4',5-PeCB	45300		3.69	131000		5.11
2,3,3',5,6-PeCB	U		3.69	U		5.11
(86/87/97/108/119/125)	43900		22.1	128000		30.7
(85/117/116)	10600		11.1	30500		15.3
(110/115)	82200		7.38	235000		10.2
2,2',3,3',4-PeCB	4090		3.69	11300		5.11
2,3,3',5,5'-PeCB	159		3.69	462		5.11
2,3',4,5,5'-PeCB	537		3.69	1540		5.11
(107/124)	1940		7.38	5850		10.2
2,3,3',4,6-PeCB	4630		3.69	13100		5.11
2,3',4,4',5'-PeCB	1140		3.69	3420		5.11
2,3,3',4,5-PeCB	U		3.69	U		5.11
2,3',4,4',5-PeCB	79000		3.69	215000		5.11
2,3,3',4',5'-PeCB	476		3.69	1400		5.11
2,3,4,4',5-PeCB	793		3.69	2420		5.11
2,3,3',4,4'-PeCB	15600		3.69	42600		5.11
3,3',4,5,5'-PeCB	41.8		3.69	143		5.11
3,3',4,4',5-PeCB	70	EMPC	3.69	233	EMPC	5.11
2,2',4,4',6,6'-HxCB	5.48		3.69	12.7		5.11
2,2',3,5,6,6'-HxCB	89.5		3.69	265		5.11
2,2',3,4',6,6'-HxCB	101		3.69	293		5.11
2,2',3,3',6,6'-HxCB	7540		3.69	21200		5.11
2,2',3,4,6,6'-HxCB	28.8		3.69	77.9		5.11
2,2',3,4',5,6'-HxCB	99.3		3.69	271		5.11
(135/151)	20100		7.38	57500		10.2
2,2',4,4',5,6'-HxCB	906		3.69	2480		5.11
2,2',3,4,5',6-HxCB	2210		3.69	6420		5.11
(147/149)	49700		7.38	143000		10.2
(134/143)	3950		7.38	10600		10.2
(139/140)	1580		7.38	4420		10.2
2,2',3,3',4,6-HxCB	1080		3.69	3080		5.11
2,2',3,4,5,6-HxCB	U		3.69	U		5.11
2,2',3,3',4,6'-HxCB	19600		3.69	53500		5.11
2,2',3,3',5,5'-HxCB	1210		3.69	3400		5.11
2,3,3',5,5',6-HxCB	80.8		3.69	220		5.11
2,2',3,4',5,5'-HxCB	10400		3.69	28900		5.11
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Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	0-360-0107			0-360-0111		
Sample Location	4-AC-3			5-AC-3		
Percent Solids	8.4			8.0		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
				Page 2-3 of 3		
2,3,3',4,5',6-HxCB	U		3.69	U		5.11
(153/168)	110000		7.38	282000		10.2
2,2',3,4,5,5'-HxCB	1010		3.69	3410		5.11
2,2',3,3',4,5'-HxCB	4120		3.69	11900		5.11
2,2',3,4,4',5-HxCB	1590		3.69	5310		5.11
2,3,3',4',5',6-HxCB	2240		3.69	6950		5.11
(129/138/163)	79400		11.1	218000		15.3
2,3,3',4,5,6-HxCB	U		3.69	U		5.11
2,3,3',4,4',6-HxCB	7260		3.69	20500		5.11
(128/166)	10100		7.38	27900		10.2
2,3,3',4,5,5'-HxCB	U		3.69	U		5.11
2,3,3',4',5,5'-HxCB	145		3.69	327		5.11
2,3',4,4',5,5'-HxCB	5400		3.69	14200		5.11
(156/157)	4650		7.38	13800		10.2
3,3',4,4',5,5'-HxCB	8.13	EMPC	3.69	16.2	EMPC	5.11
2,2',3,4',5,6,6'-HpCB	10.1		3.69	24.4		5.11
2,2',3,3',5,6,6'-HpCB	2410		3.69	6380		5.11
2,2',3,4,4',6,6'-HpCB	7.37		3.69	22.3		5.11
2,2',3,3',4,6,6'-HpCB	937		3.69	2460		5.11
2,2',3,4,5,6,6'-HpCB	U		3.69	U		5.11
2,2',3,3',5,5',6-HpCB	1370		3.69	3560		5.11
2,2',3,3',4,5',6-HpCB	277		3.69	742		5.11
2,2',3,4',5,5',6-HpCB	8620		3.69	21700		5.11
2,2',3,4,4',5,6'-HpCB	15.6		3.69	52.4		5.11
(183/185)	4660		7.38	12200		10.2
2,2',3,3',4,5,6'-HpCB	1040		3.69	3270		5.11
2,2',3,3',4,5',6'-HpCB	3990		3.69	10200		5.11
2,2',3,4,4',5,6-HpCB	119		3.69	337		5.11
(171/173)	2810		7.38	7160		10.2
2,2',3,3',4,5,5'-HpCB	119		3.69	390		5.11
2,3,3',4,5,5',6-HpCB	U		3.69	U		5.11
(180/193)	5910		7.38	15500		10.2
2,3,3',4,4',5',6-HpCB	203		3.69	550		5.11
2,2',3,3',4,4',5-HpCB	1360		3.69	4260		5.11
2,3,3',4,4',5,6-HpCB	1330		3.69	3280		5.11
2,3,3',4,4',5,5'-HpCB	53.5		3.69	166		5.11
2,2',3,3',5,5',6,6'-OcCB	293		3.69	699		5.11
2,2',3,3',4,5',6,6'-OcCB	245		3.69	593		5.11
2,2',3,4,4',5,6,6'-OcCB	U		3.69	U		5.11
(197/200)	145		7.38	376		10.2
(198/199)	287		7.38	800		10.2
2,2',3,3',4,4',5,6'-OcCB	216		3.69	614		5.11
2,2',3,4,4',5,5',6-OcCB	1030		3.69	2460		5.11
2,2',3,3',4,4',5,6-OcCB	433		3.69	1070		5.11
2,2',3,3',4,4',5,5'-OcCB	69.8		3.69	193		5.11
2,3,3',4,4',5,5',6-OcCB	68.6		3.69	153		5.11
2,2',3,3',4,5,5',6,6'-NoCB	26.3		3.69	67.7		5.11
2,2',3,3',4,4',5,6,6'-NoCB	18.7		3.69	46.1		5.11
2,2',3,3',4,4',5,5',6-NoCB	85.9		3.69	221		5.11
Decachlorobiphenyl	17.9		3.69	43.7		5.11
						Page 3 of 4

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	0-360-0107		0-360-0111	
Sample Location	4-AC-3		5-AC-3	
Percent Solids	8.4		8.0	
Analyte	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group				
Total Monochloro Biphenyls	545		619	
Total Dichloro Biphenyls	19500		40800	
Total Trichloro Biphenyls	79900		20200	
Total Tetrachloro Biphenyls	297000		865000	
Total Pentachloro Biphenyls	502000		1420000	
Total Hexachloro Biphenyls	344000		925000	
Total Heptachloro Biphenyls	35200		92300	
Total Octachloro Biphenyls	2780		6960	
Total Nonachloro Biphenyls	131		335	
Decachloro Biphenyls	17.9		43.7	
Total PCBs	1280000		3530000	

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB 18310			0-360-0104		
Sample Location	Method Blank			3-AC-3		
Percent Solids	NA			7		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	2.09		1.99	819	J	7.93
3-MoCB	U		1.99	U	J	7.93
4-MoCB	2.32		1.99	92.6	J	7.93
2,2'-DiCB	6.62	EMPC	1.99	32000		7.93
2,6-DiCB	U		1.99	1430		7.93
2,5-DiCB	U		1.99	328		7.93
2,4-DiCB	U		1.99	209		7.93
2,3'-DiCB	2.05	EMPC	1.99	2580		7.93
2,3-DiCB	U		1.99	106		7.93
2,4'-DiCB	12.5		1.99	5450		7.93
3,5-DiCB	U		1.99	U		7.93
3,3'-DiCB	67.5		1.99	U		105
(12/13)	U		3.97	1390		15.9
4,4'-DiCB	3.31	EMPC	1.99	3580		7.93
2,2',6-TrCB	U		1.99	15000		7.93
(18/30)	20.9		3.97	16700		15.9
2,2',4-TrCB	11.9		1.99	14700		7.93
2,3',6-TrCB	2.24		1.99	22000		7.93
2,3,6-TrCB	U		1.99	U		7.93
2,2',3-TrCB	12.2		1.99	6090		7.93
2,4',6-TrCB	7.79		1.99	8910		7.93
2,3',5'-TrCB	U		1.99	153		7.93
2,3,5-TrCB	U		1.99	10.6		7.93
(26/29)	5.49		3.97	6930		15.9
2,3',4-TrCB	2.82		1.99	4770		7.93
2,4',5-TrCB	26.9		1.99	8720		7.93
(20/28)	33.1		3.97	17200		15.9
(21/33)	19.1		3.97	2360		15.9
2,3,4'-TrCB	12.9		1.99	4040		7.93
3,3',5-TrCB	U		1.99	U		7.93
3,4',5-TrCB	U		1.99	103		7.93
3,4,5-TrCB	U		1.99	38		7.93
3,3',4-TrCB	U		1.99	106		7.93
3,4,4'-TrCB	8.81		1.99	2840		7.93
2,2',6,6'-TeCB	U		1.99	1010		7.93
(50/53)	U		3.97	24800		15.9
(45/51)	6.66		3.97	14900		15.9
2,2',3,6'-TeCB	U		1.99	3230		7.93
2,2',5,5'-TeCB	33.6		1.99	86100		7.93
2,3',5',6-TeCB	U		1.99	1230		7.93
2,2',3,5-TeCB	U		1.99	968		7.93
(49/69)	13.1	EMPC	3.97	48600		15.9
2,2',4,5-TeCB	6.42		1.99	3290		7.93
(44/47/65)	28		5.96	83900		23.8
(59/62/75)	U		5.96	3740		23.8
2,2',3,4'-TeCB	7.75		1.99	15600		7.93
(40/41/71)	17.3		5.96	22000		23.8
2,3,4',6-TeCB	12.2		1.99	13600		7.93
2,3',5,5'-TeCB	U		1.99	1400		7.93
2,3',4,5'-TeCB	U		1.99	1590		7.93
2,3,3',5-TeCB	U		1.99	456		7.93
2,3,3',5'-TeCB	U		1.99	247		7.93
2,3',4,5-TeCB	U		1.99	1220		7.93
2,3,4',5-TeCB	U		1.99	1440		7.93
(61/70/74/76)	35.7		7.94	53500		31.7
2,3',4,4'-TeCB	20		1.99	34300		7.93
2,3,3',4-TeCB	U		1.99	U		7.93

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB 18310			0-360-0104		
Sample Location	Method Blank			3-AC-3		
Percent Solids	NA			7		
Analyte	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg

2,3,3',4'-TeCB	10.8		1.99	7930		7.93
2,3,4,4'-TeCB	7.55		1.99	2910		7.93
3,3',5,5'-TeCB	U		1.99	U		7.93
3,3',4,5'-TeCB	U		1.99	1080		7.93
3,3',4,5-TeCB	U		1.99	U		7.93
3,4,4',5-TeCB	U		1.99	93.9	J	7.93
3,3',4,4'-TeCB	2.99		1.99	1360		7.93
2,2',4,6,6'-PeCB	U		1.99	83.8	J	7.93
2,2',3,6,6'-PeCB	U		1.99	877		7.93
2,2',4,5',6-PeCB	U		1.99	1420		7.93
2,2',3,5,6'-PeCB	U		1.99	1570		7.93
2,2',3,5',6-PeCB	18.7		1.99	116000		7.93
(93/98/100/102)	U		7.94	7620		31.7
(88/91)	U		3.97	19400		15.9
2,2',3,3',6-PeCB	5.81		1.99	26300		7.93
2,2',3,4,6'-PeCB	U		1.99	716		7.93
2,3',4,5',6-PeCB	U		1.99	43.1		7.93
2,2',3,5,5'-PeCB	4.68	EMPC	1.99	29200		7.93
(90/101/113)	28.7		5.96	145000		23.8
2,2',3,3',5-PeCB	U		1.99	7240		7.93
2,2',4,4',5-PeCB	13.4		1.99	76300		7.93
2,3,3',5,6-PeCB	U		1.99	U		7.93
(86/87/97/108/119/125)	23.9		11.9	86900		47.6
(85/117/116)	U		5.96	22200		23.8
(110/115)	29		3.97	143000		15.9
2,2',3,3',4-PeCB	4.15		1.99	9640		7.93
2,3,3',5,5'-PeCB	U		1.99	88		7.93
2,3',4,5,5'-PeCB	U		1.99	435		7.93
(107/124)	U		3.97	3980		15.9
2,3,3',4,6-PeCB	U		1.99	7870		7.93
2,3',4,4',5'-PeCB	U		1.99	2130		7.93
2,3,3',4,5-PeCB	U		1.99	U		7.93
2,3',4,4',5-PeCB	19.9		1.99	146000		7.93
2,3,3',4',5'-PeCB	U		1.99	1070		7.93
2,3,4,4',5-PeCB	U		1.99	2180		7.93
2,3,3',4,4'-PeCB	6.65		1.99	36900		7.93
3,3',4,5,5'-PeCB	U		1.99	97.1		7.93
3,3',4,4',5-PeCB	U		1.99	117	EMPC	7.93
2,2',4,4',6,6'-HxCB	U		1.99	U		7.93
2,2',3,5,6,6'-HxCB	U		1.99	194		7.93
2,2',3,4',6,6'-HxCB	U		1.99	180		7.93
2,2',3,3',6,6'-HxCB	4.46		1.99	16900		7.93
2,2',3,4,6,6'-HxCB	U		1.99	62.4		7.93
2,2',3,4',5,6'-HxCB	U		1.99	180		7.93
(135/151)	12.4		3.97	49500		15.9
2,2',4,4',5,6'-HxCB	U		1.99	1540		7.93
2,2',3,4,5',6-HxCB	U		1.99	6640		7.93
(147/149)	26.8		3.97	114000		15.9
(134/143)	U		3.97	8510		15.9
(139/140)	U		3.97	3430		15.9
2,2',3,3',4,6-HxCB	U		1.99	2800		7.93
2,2',3,4,5,6-HxCB	U		1.99	15.7		7.93
2,2',3,3',4,6'-HxCB	11.7		1.99	45900		7.93
2,2',3,3',5,5'-HxCB	U		1.99	2210		7.93
2,3,3',5,5',6-HxCB	U		1.99	40.6		7.93
2,2',3,4',5,5'-HxCB	5.6		1.99	24000		7.93

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB 18310		0-360-0104		
Sample Location	Method Blank		3-AC-3		
Percent Solids	NA		7		
Analyte	Result ng/Kg	RL ng/Kg	Result ng/Kg		RL ng/Kg
					Page 3-3 of 3
2,3,3',4,5',6-HxCB	U	1.99	U		7.93
(153/168)	32.4	3.97	231000		15.9
2,2',3,4,5,5'-HxCB	6.26	1.99	3870		7.93
2,2',3,3',4,5'-HxCB	U	1.99	10400		7.93
2,2',3,4,4',5-HxCB	U	1.99	3780		7.93
2,3,3',4',5',6-HxCB	2.39	1.99	6540		7.93
(129/138/163)	36.4	5.96	196000		23.8
2,3,3',4,5,6-HxCB	U	1.99	U		7.93
2,3,3',4,4',6-HxCB	3.71	1.99	20500		7.93
(128/166)	4.12	3.97	27200		15.9
2,3,3',4,5,5'-HxCB	U	1.99	15.8	EMPC	7.93
2,3,3',4',5,5'-HxCB	U	1.99	199		7.93
2,3',4,4',5,5'-HxCB	U	1.99	8378		7.93
(156/157)	4.53	3.97	9230		15.9
3,3',4,4',5,5'-HxCB	U	1.99	163		7.93
2,2',3,4',5,6,6'-HpCB	U	1.99	16.8		7.93
2,2',3,3',5,6,6'-HpCB	3.86	1.99	8780		7.93
2,2',3,4,4',6,6'-HpCB	U	1.99	15.2	EMPC	7.93
2,2',3,3',4,6,6'-HpCB	U	1.99	3520		7.93
2,2',3,4,5,6,6'-HpCB	U	1.99	U		7.93
2,2',3,3',5,5',6-HpCB	2.68	1.99	4950		7.93
2,2',3,3',4,5',6-HpCB	U	1.99	1110		7.93
2,2',3,4',5,5',6-HpCB	10.5	1.99	34700		7.93
2,2',3,4,4',5,6'-HpCB	U	1.99	55.3		7.93
(183/185)	6.3	3.97	19000		15.9
2,2',3,3',4,5,6'-HpCB	6.83	1.99	4050		7.93
2,2',3,3',4,5',6'-HpCB	4.66	1.99	16500		7.93
2,2',3,4,4',5,6-HpCB	U	1.99	294		7.93
(171/173)	U	3.97	11100		15.9
2,2',3,3',4,5,5'-HpCB	U	1.99	372		7.93
2,3,3',4,5,5',6-HpCB	U	1.99	U		7.93
(180/193)	14	3.97	17700		15.9
2,3,3',4,4',5',6-HpCB	U	1.99	812		7.93
2,2',3,3',4,4',5-HpCB	6.44	1.99	4590		7.93
2,3,3',4,4',5,6-HpCB	U	1.99	2770		7.93
2,3,3',4,4',5,5'-HpCB	U	1.99	148	J	7.93
2,2',3,3',5,5',6,6'-OcCB	U	1.99	954		7.93
2,2',3,3',4,5',6,6'-OcCB	U	1.99	956		7.93
2,2',3,4,4',5,6,6'-OcCB	U	1.99	U		7.93
(197/200)	U	3.97	542		15.9
(198/199)	U	3.97	890		15.9
2,2',3,3',4,4',5,6'-OcCB	U	1.99	811		7.93
2,2',3,4,4',5,5',6-OcCB	3.15	1.99	3610		7.93
2,2',3,3',4,4',5,6-OcCB	U	1.99	1800		7.93
2,2',3,3',4,4',5,5'-OcCB	U	1.99	183		7.93
2,3,3',4,4',5,5',6-OcCB	U	1.99	283		7.93
2,2',3,3',4,5,5',6,6'-NoCB	U	1.99	59.2		7.93
2,2',3,3',4,4',5,6,6'-NoCB	U	1.99	52.2		7.93
2,2',3,3',4,4',5,5',6-NoCB	U	1.99	232		7.93
Decachlorobiphenyl	U	1.99	31.3		7.93

Table 1.1 Result of the Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method EPA 1668A

Sample Number	MB 18310		0-360-0104	
Sample Location	Method Blank		3-AC-3	
Percent Solids	NA		7	
Analyte	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
				Page 3-4 of 3
Congener Group				
Total Monochloro Biphenyls	4.41		912	
Total Dichloro Biphenyls	80		47100	
Total Trichloro Biphenyls	164		131000	
Total Tetrachloro Biphenyls	189		430000	
Total Pentachloro Biphenyls	150		894000	
Total Hexachloro Biphenyls	151		794000	
Total Heptachloro Biphenyls	55.3		130000	
Total Octachloro Biphenyls	3.15		10000	
Total Nonachloro Biphenyls	U		343	
Decachloro Biphenyls	U		31.3	
Total PCBS	797		2440000	

Table 2.1 Results of the MS/MSD Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling

Sample Number 0-360-0104

Analyte	Sample Result	MS Spike Amount ng/Kg	MS Result ng/Kg	% Recovery		MSD Spike Amount ng/Kg	MSD Result ng/Kg	% Recovery		RPD		QC Limits % Recovery	QC Limits RPD
2-MoCB	819	60.4	784	NC		50.6	710	NC		NC		50-150	20
4-MoCB	92.6	60.4	127	57		50.6	111	36		44	*	50-150	20
2,2'-DiCB	32000	60.4	21900	NC		50.6	19200	NC		NC		50-150	20
4,4'-DiCB	3580	60.4	2760	NC		50.6	2440	NC		NC		50-150	20
2,2',6-TrCB	15000	60.4	9570	NC		50.6	9010	NC		NC		50-150	20
3,4,4'-TrCB	2840	60.4	2190	NC		50.6	1940	NC		NC		50-150	20
2,2',6,6'-TeCB	1010	60.4	841	NC		50.6	760	NC		NC		50-150	20
3,3',4,4'-TeCB	1360	60.4	993	NC		50.6	895	NC		NC		50-150	20
3,4,4',5-TeCB	93.9	60.4	128	56		50.6	103	18	*	104	*	50-150	20
2,2',4,6,6'-PeCB	83.8	60.4	120	60		50.6	105	43	*	34	*	50-150	20
2,3,3',4,4'-PeCB	36900	60.4	26600	NC		50.6	23400	NC		NC		50-150	20
2,3,4,4',5-PeCB	2180	60.4	1490	NC		50.6	1320	NC		NC		50-150	20
2,3',4,4',5-PeCB	146000	60.4	108000	NC		50.6	99900	NC		NC		50-150	20
2,3',4,4',5'-PeCB	2130	60.4	1410	NC		50.6	1410	NC		NC		50-150	20
3,3',4,4',5-PeCB	U	60.4	256	423	*	50.6	183	362	*	16		50-150	20
2,2',4,4',6,6'-HxCB	U	60.4	66.7	110		50.6	57.8	114		2		50-150	20
(156/157)	9230	121	6510	NC		101	5950	NC		NC		50-150	20
2,3',4,4',5,5'-HxCB	9800	60.4	5480	NC		50.6	5130	NC		NC		50-150	20
3,3',4,4',5,5'-HxCB	163	60.4	57.3	NC		50.6	61.5	NC		NC		50-150	20
2,2',3,4',5,6,6'-HpCB	16.8	60.4	73.4	94		50.6	61.7	89		5		50-150	20
2,3,3',4,4',5,5'-HpCB	148	60.4	168	32	*	50.6	141	NC		200	*	50-150	20
2,2',3,3',5,5',6,6'-OcCB	954	60.4	710	NC		50.6	647	NC		NC		50-150	20
2,3,3',4,4',5,5',6-OcCB	283	60.4	246	NC		50.6	210	NC		NC		50-150	20
2,2',3,3',4,4',5,5',6-NoCB	232	60.4	208	NC		50.6	189	NC		NC		50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	59.2	60.4	96.4	62		50.6	84.4	50		21	*	50-150	20
Decachlorobiphenyl	31.3	60.4	80.5	81		50.6	67	70		15		50-150	20

Table 2.2 Results of the LCS/LCSD Analysis for PCB Congeners in Tissue
WA # 360 Cornell Dubilier Biological Sampling

Sample Number LCS 118311/LCSD 18312

Analyte	LCS Spike Added ng/Kg	LCS Recoverd ng/Kg	% Recovery	LCSD Spike Added ng/Kg	LCSD Recoverd ng/Kg	% Recovery	% RPD	QC Limits % Recovery	QC Limits RPD
2-MoCB	99.6	97.2	98	99.7	106	106	8	50-150	20
4-MoCB	99.6	106	106	99.7	103	103	3	50-150	20
2,2'-DiCB	99.6	107	107	99.7	105	105	2	50-150	20
4,4'-DiCB	99.6	107	107	99.7	104	104	3	50-150	20
2,2',6-TrCB	99.6	103	103	99.7	104	104	1	50-150	20
3,4,4'-TrCB	99.6	104	104	99.7	106	106	2	50-150	20
2,2',6,6'-TeCB	99.6	101	101	99.7	102	102	1	50-150	20
3,3',4,4'-TeCB	99.6	107	107	99.7	98.9	99	8	50-150	20
3,4,4',5-TeCB	99.6	106	106	99.7	101	101	5	50-150	20
2,2',4,6,6'-PeCB	99.6	107	107	99.7	99.2	99	8	50-150	20
2,3,3',4,4'-PeCB	99.6	108	108	99.7	105	105	3	50-150	20
2,3,4,4',5-PeCB	99.6	106	106	99.7	103	103	3	50-150	20
2,3',4,4',5-PeCB	99.6	120	120	99.7	123	123	3	50-150	20
2,3',4,4',5'-PeCB	99.6	99.5	100	99.7	101	101	1	50-150	20
3,3',4,4',5-PeCB	99.6	108	108	99.7	97.2	98	10	50-150	20
2,2',4,4',6,6'-HxCB	99.6	105	105	99.7	97.6	98	7	50-150	20
(156/157)	199	208	105	199	201	101	3	50-150	20
2,3',4,4',5,5'-HxCB	99.6	104	104	99.7	102	102	2	50-150	20
3,3',4,4',5,5'-HxCB	99.6	117	117	99.7	99.3	100	16	50-150	20
2,2',3,4',5,6,6'-HpCB	99.6	106	106	99.7	99.7	100	6	50-150	20
2,3,3',4,4',5,5'-HpCB	99.6	106	106	99.7	99.5	100	6	50-150	20
2,2',3,3',5,5',6,6'-OcCB	99.6	109	109	99.7	104	104	5	50-150	20
2,3,3',4,4',5,5',6-OcCB	99.6	113	113	99.7	103	103	9	50-150	20
2,2',3,3',4,4',5,5',6-NoCB	99.6	111	111	99.7	101	101	9	50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	99.6	118	118	99.7	103	103	14	50-150	20
Decachlorobiphenyl	99.6	114	114	99.7	102	102	11	50-150	20

Lab Sample LCS-18212/LCSD-18236

PCB Isomer	LCS Spike Added ng/Kg	LCS Recoverd ng/Kg	% Recovery	LCSD Spike Added ng/Kg	LCSD Recoverd ng/Kg	% Recovery	% RPD	QC Limits % Recovery	QC Limits RPD
2-MoCB	98.6	93.3	95	96.4	94.9	98	3	50-150	20
4-MoCB	98.6	93.9	95	96.4	98.3	102	7	50-150	20
2,2'-DiCB	98.6	101	102	96.4	100	104	2	50-150	20
4,4'-DiCB	98.6	10100	102	96.4	98.3	102	0	50-150	20
2,2',6-TrCB	98.6	103	104	96.4	99.3	103	1	50-150	20
3,4,4'-TrCB	98.6	101	102	96.4	106	110	8	50-150	20
2,2',6,6'-TeCB	98.6	103	104	96.4	97.4	101	3	50-150	20
3,3',4,4'-TeCB	98.6	99.6	101	96.4	95.2	99	4	50-150	20
3,4,4',5-TeCB	98.6	99.6	101	96.4	101	105	2	50-150	20
2,2',4,6,6'-PeCB	98.6	102	103	96.4	104	108	5	50-150	20
2,3,3',4,4'-PeCB	98.6	115	117	96.4	105	109	7	50-150	20
2,3,4,4',5-PeCB	98.6	103	104	96.4	105	109	5	50-150	20
2,3',4,4',5-PeCB	98.6	139	141	96.4	135	140	1	50-150	20
2,3',4,4',5'-PeCB	98.6	107	109	96.4	103	107	2	50-150	20
3,3',4,4',5-PeCB	98.6	97.3	99	96.4	100	104	5	50-150	20
2,2',4,4',6,6'-HxCB	98.6	105	106	96.4	105	109	3	50-150	20
(156/157)	197	201	102	193	206	107	5	50-150	20
2,3',4,4',5,5'-HxCB	98.6	104	105	96.4	101	105	0	50-150	20
3,3',4,4',5,5'-HxCB	98.6	102	103	96.4	103	107	4	50-150	20
2,2',3,4',5,6,6'-HpCB	98.6	96.0	97	96.4	101	105	8	50-150	20
2,3,3',4,4',5,5'-HpCB	98.6	101	102	96.4	100	104	2	50-150	20
2,2',3,3',5,5',6,6'-OcCB	98.6	104	105	96.4	104	108	3	50-150	20
2,3,3',4,4',5,5',6-OcCB	98.6	106	107	96.4	95.6	99	8	50-150	20
2,2',3,3',4,4',5,5',6-NoCB	98.6	106	107	96.4	97.4	101	6	50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	98.6	104	11	96.4	97.4	101	4	50-150	20
Decachlorobiphenyl	98.6	102	103	96.4	96.4	100	3	50-150	20

BZ Congener	Acronym	IUPAC Name	CASRN	Descriptors
0		Biphenyl	92-52-4	
1	2-MoCB	2-Chlorobiphenyl	2051-60-7	CP1
2	3-MoCB	3-Chlorobiphenyl	2051-61-8	CP0
3	4-MoCB	4-Chlorobiphenyl	2051-62-9	CP0
4	2,2'-DiCB	2,2'-Dichlorobiphenyl	13029-08-8	
5	2,3-DiCB	2,3-Dichlorobiphenyl	16605-91-7	CP1
6	2,3'-DiCB	2,3'-Dichlorobiphenyl	25569-80-6	CP1
7	2,4-DiCB	2,4-Dichlorobiphenyl	33284-50-3	CP1
8	2,4'-DiCB1	2,4'-Dichlorobiphenyl	34883-43-7	CP1
9	2,5-DiCB	2,5-Dichlorobiphenyl	34883-39-1	CP1
10	2,6-DiCB	2,6-Dichlorobiphenyl	33146-45-1	
11	3,3'-DiCB	3,3'-Dichlorobiphenyl	2050-67-1	CP0, 2M
12	3,4-DiCB	3,4-Dichlorobiphenyl	2974-92-7	CP0
13	3,4'-DiCB	3,4'-Dichlorobiphenyl	2974-90-5	CP0
14	3,5-DiCB	3,5-Dichlorobiphenyl	34883-41-5	CP0, 2M
15	4,4'-DiCB	4,4'-Dichlorobiphenyl	2050-68-2	CP0, PP
16	2,2',3-TrCB	2,2',3-Trichlorobiphenyl	38444-78-9	
17	2,2',4-TrCB	2,2',4-Trichlorobiphenyl	37680-66-3	
18	2,2',5-TrCB1	2,2',5-Trichlorobiphenyl	37680-65-2	
19	2,2',6-TrCB	2,2',6-Trichlorobiphenyl	38444-73-4	
20	2,3,3'-TrCB	2,3,3'-Trichlorobiphenyl	38444-84-7	CP1, 2M
21	2,3,4-TrCB	2,3,4-Trichlorobiphenyl	55702-46-0	CP1
22	2,3,4'-TrCB	2,3,4'-Trichlorobiphenyl	38444-85-8	CP1
23	2,3,5-TrCB	2,3,5-Trichlorobiphenyl	55720-44-0	CP1, 2M
24	2,3,6-TrCB	2,3,6-Trichlorobiphenyl	55702-45-9	
25	2,3',4-TrCB	2,3',4-Trichlorobiphenyl	55712-37-3	CP1
26	2,3',5-TrCB	2,3',5-Trichlorobiphenyl	38444-81-4	CP1, 2M
27	2,3',6-TrCB	2,3',6-Trichlorobiphenyl	38444-76-7	
28	2,4,4'-TrCB1	2,4,4'-Trichlorobiphenyl	7012-37-5	CP1, PP
29	2,4,5-TrCB	2,4,5-Trichlorobiphenyl	15862-07-4	CP1
30	2,4,6-TrCB	2,4,6-Trichlorobiphenyl	35693-92-6	
31	2,4',5-TrCB	2,4',5-Trichlorobiphenyl	16606-02-3	CP1
32	2,4',6-TrCB	2,4',6-Trichlorobiphenyl	38444-77-8	
33	2',3,4-TrCB	2,3',4'-Trichlorobiphenyl	38444-86-9	CP1
34	2',3,5-TrCB	2,3',5'-Trichlorobiphenyl	37680-68-5	CP1, 2M
35	3,3',4-TrCB	3,3',4-Trichlorobiphenyl	37680-69-6	CP0, 2M
36	3,3',5-TrCB	3,3',5-Trichlorobiphenyl	38444-87-0	CP0, 2M
37	3,4,4'-TrCB	3,4,4'-Trichlorobiphenyl	38444-90-5	CP0, PP
38	3,4,5-TrCB	3,4,5-Tricholobiphenyl	53555-66-1	CP0, 2M
39	3,4',5-TrCB	3,4',5-Trichlorobiphenyl	38444-88-1	CP0, 2M
40	2,2',3,3'-TeCB	2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	4CL, 2M
41	2,2',3,4-TeCB	2,2',3,4-Tetrachlorobiphenyl	52663-59-9	4CL
42	2,2',3,4'-TeCB	2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	4CL
43	2,2',3,5-TeCB	2,2',3,5-Tetrachlorobiphenyl	70362-46-8	4CL, 2M
44	2,2',3,5'-TeCB1	2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	4CL, 2M
45	2,2',3,6-TeCB	2,2',3,6-Tetrachlorobiphenyl	70362-45-7	4CL
46	2,2',3,6'-TeCB	2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	4CL
47	2,2',3,4'-TeCB	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	4CL, PP
48	2,2',4,5-TeCB	2,2',4,5-Tetrachlorobiphenyl	70362-47-9	4CL
49	2,2',4,5'-TeCB	2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	4CL

BZ Congener	Acronym	IUPAC Name	CASRN	Descriptors
50	2,2',4,6-TeCB	2,2',4,6-Tetrachlorobiphenyl	62796-65-0	4CL
51	2,2',4,6'-TeCB	2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	4CL
52	2,2',5,5'-TeCB1	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	4CL, 2M
53	2,2',5,6'-TeCB	2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	4CL
54	2,2',6,6'-TeCB	2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	4CL
55	2,3,3',4'-TeCB	2,3,3',4-Tetrachlorobiphenyl	74338-24-2	CP1, 4CL, 2M
56	2,3,3',4'-TeCB	2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	CP1, 4CL, 2M
57	2,3,3',5-TeCB	2,3,3',5-Tetrachlorobiphenyl	70424-67-8	CP1, 4CL, 2M
58	2,3,3',5'-TeCB	2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	CP1, 4CL, 2M
59	2,3,3',6-TeCB	2,3,3',6-Tetrachlorobiphenyl	74472-33-6	4CL, 2M
60	2,3,4,4'-TeCB	2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	CP1, 4CL, PP
61	2,3,4,5-TeCB	2,3,4,5-Tetrachlorobiphenyl	33284-53-6	CP1, 4CL, 2M
62	2,3,4,6-TeCB	2,3,4,6-Tetrachlorobiphenyl	54230-22-7	4CL
63	2,3,4',5-TeCB	2,3,4',5-Tetrachlorobiphenyl	74472-34-7	CP1, 4CL, 2M
64	2,3,4',6-TeCB	2,3,4',6-Tetrachlorobiphenyl	52663-58-8	4CL
65	2,3,5,6-TeCB	2,3,5,6-Tetrachlorobiphenyl	33284-54-7	4CL, 2M
66	2,3',4,4'-TeCB1	2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	CP1, 4CL, PP
67	2,3',4,5-TeCB	2,3',4,5-Tetrachlorobiphenyl	73575-53-8	CP1, 4CL, 2M
68	2,3',4,5'-TeCB	2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	CP1, 4CL, 2M
69	2,3',4,6-TeCB	2,3',4,6-Tetrachlorobiphenyl	60233-24-1	4CL
70	2,3',4',5-TeCB	2,3',4',5-Tetrachlorobiphenyl	32598-11-1	CP1, 4CL, 2M
71	2,3',4',6-TeCB	2,3',4',6-Tetrachlorobiphenyl	41464-46-4	4CL
72	2,3',5,5'-TeCB	2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	CP1, 4CL, 2M
73	2,3',5',6-TeCB	2,3',5',6-Tetrachlorobiphenyl	74338-23-1	4CL, 2M
74	2,4,4',5-TeCB	2,4,4',5-Tetrachlorobiphenyl	32690-93-0	CP1, 4CL, PP
75	2,4,4',6-TeCB	2,4,4',6-Tetrachlorobiphenyl	32598-12-2	4CL, PP
76	2',3,4',5-TeCB	2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	CP1, 4CL, 2M
77	3,3',4,4'-TeCB1,2	3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	CP0, 4CL, PP, 2M
78	3,3',4,5-TeCB	3,3',4,5-Tetrachlorobiphenyl	70362-49-1	CP0, 4CL, 2M
79	3,3',4,5'-TeCB	3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	CP0, 4CL, 2M
80	3,3',5,5'-TeCB	3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	CP0, 4CL, 2M
81	3,4,4',5-TeCB2	3,4,4',5-Tetrachlorobiphenyl	70362-50-4	CP0, 4CL, PP, 2M
82	2,2',3,3',4-PeCB	2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	4CL, 2M
83	2,2',3,3',5-PeCB	2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	4CL, 2M
84	2,2',3,3',6-PeCB	2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	4CL, 2M
85	2,2',3,4,4'-PeCB	2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	4CL, PP
86	2,2',3,4,5-PeCB	2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	4CL, 2M
87	2,2',3,4,5'-PeCB	2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	4CL, 2M
88	2,2',3,4,6-PeCB	2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	4CL
89	2,2',3,4,6'-PeCB	2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	4CL
90	2,2',3,4',5-PeCB	2,2',3,4',5-Pentachlorobiphenyl	68194-07-0	4CL, 2M
91	2,2',3,4',6-PeCB	2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	4CL
92	2,2',3,5,5'-PeCB	2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	4CL, 2M
93	2,2',3,5,6-PeCB	2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	4CL, 2M
94	2,2',3,5,6'-PeCB	2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	4CL, 2M
95	2,2',3,5',6-PeCB	2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	4CL, 2M
96	2,2',3,6,6'-PeCB	2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	4CL
97	2,2',3',4,5-PeCB	2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	4CL, 2M
98	2,2',3',4,6-PeCB	2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	4CL
99	2,2',4,4',5-PeCB	2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	4CL, PP
100	2,2',4,4',6-PeCB	2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	4CL, PP

BZ Congener	Acronym	IUPAC Name	CASRN	Descriptors
101	2,2',4,5,5'-PeCB1	2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	4CL, 2M
102	2,2',4,5,6'-PeCB	2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	4CL
103	2,2',4,5,6'-PeCB	2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	4CL
104	2,2',4,6,6'-PeCB	2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	4CL
105	2,3,3'4,4'-PeCB1,2	2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	CP1, 4CL, PP, 2M
106	2,3,3',4,5-PeCB	2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	CP1, 4CL, 2M
107	2,3,3',4',5-PeCB	2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	CP1, 4CL, 2M
108	2,3,3',4,5'-PeCB	2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	CP1, 4CL, 2M
109	2,3,3',4,6-PeCB	2,3,3',4,6-Pentachlorobiphenyl	74472-35-8	4CL, 2M
110	2,3,3',4',6-PeCB	2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	4CL, 2M
111	2,3,3',5,5'-PeCB	2,3,3',5,5'-Pentachlorobiphenyl	39635-32-0	CP1, 4CL, 2M
112	2,3,3',5,6-PeCB	2,3,3',5,6-Pentachlorobiphenyl	74472-36-9	4CL, 2M
113	2,3,3',5',6-PeCB	2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	4CL, 2M
114	2,3,4,4',5-PeCB1,2	2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	CP1, 4CL, PP, 2M
115	2,3,4,4',6-PeCB	2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	4CL, PP
116	2,3,4,5,6-PeCB	2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	4CL, 2M
117	2,3,4',5,6-PeCB	2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	4CL, 2M
118	2,3',4,4',5-PeCB1,2	2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	CP1, 4CL, PP, 2M
119	2,3',4,4',6-PeCB	2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	4CL, PP
120	2,3',4,5,5'-PeCB	2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	CP1, 4CL, 2M
121	2,3',4,5,6-PeCB	2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	4CL, 2M
122	2',3,3',4,5-PeCB	2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	CP1, 4CL, 2M
123	2',3,4,4',5-PeCB2	2,3',4,4',5'-Pentachlorobiphenyl	65510-44-3	CP1, 4CL, PP, 2M
124	2',3,4,5,5'-PeCB	2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	CP1, 4CL, 2M
125	2',3,4,5,6'-PeCB	2,3',4',5',6-Pentachlorobiphenyl	74472-39-2	4CL, 2M
126	3,3',4,4',5-PeCB1,2	3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	CP0, 4CL, PP, 2M
127	3,3',4,5,5'-PeCB	3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	CP0, 4CL, 2M
128	2,2',3,3',4,4'-HxCB1	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	4CL, PP, 2M
129	2,2',3,3',4,5-HxCB	2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	4CL, 2M
130	2,2',3,3',4,5'-HxCB	2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	4CL, 2M
131	2,2',3,3',4,6-HxCB	2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	4CL, 2M
132	2,2',3,3',4,6'-HxCB	2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	4CL, 2M
133	2,2',3,3',5,5'-HxCB	2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	4CL, 2M
134	2,2',3,3',5,6-HxCB	2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	4CL, 2M
135	2,2',3,3',5,6'-HxCB	2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	4CL, 2M
136	2,2',3,3',6,6'-HxCB	2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	4CL, 2M
137	2,2',3,4,4',5-HxCB	2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	4CL, PP, 2M
138	2,2',3,4,4',5'-HxCB1	2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	4CL, PP, 2M
139	2,2',3,4,4',6-HxCB	2,2',3,4,4',6-Hexachlorobiphenyl	56030-56-9	4CL, PP
140	2,2',3,4,4',6'-HxCB	2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	4CL, PP
141	2,2',3,4,5,5'-HxCB	2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	4CL, 2M
142	2,2',3,4,5,6-HxCB	2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	4CL, 2M
143	2,2',3,4,5,6'-HxCB	2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	4CL, 2M
144	2,2',3,4,5',6-HxCB	2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	4CL, 2M
145	2,2',3,4,6,6'-HxCB	2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	4CL
146	2,2',3,4',5,5'-HxCB	2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	4CL, 2M
147	2,2',3,4',5,6-HxCB	2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	4CL, 2M
148	2,2',3,4',5,6'-HxCB	2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	4CL, 2M
149	2,2',3,4',5',6-HxCB	2,2',3,4',5',6-Hexachlorobiphenyl	38380-04-0	4CL, 2M
150	2,2',3,4',6,6'-HxCB	2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	4CL
151	2,2',3,5,5',6-HxCB	2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	4CL, 2M

BZ Congener	Acronym	IUPAC Name	CASRN	Descriptors
152	2,2',3,5,6,6'-HxCB	2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	4CL, 2M
153	2,2',4,4',5,5'-HxCB1	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	4CL, PP, 2M
154	2,2',4,4',5',6-HxCB	2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	4CL, PP
155	2,2',4,4',6,6'-HxCB	2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	4CL, PP
156	2,3,3',4,4',5-HxCB2	2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	CP1, 4CL, PP, 2M
157	2,3,3',4,4',5'-HxCB2	2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	CP1, 4CL, PP, 2M
158	2,3,3',4,4',6-HxCB	2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	4CL, PP, 2M
159	2,3,3',4,5,5'-HxCB	2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	CP1, 4CL, 2M
160	2,3,3',4,5,6-HxCB	2,3,3',4,5,6-Hexachlorobiphenyl	41411-62-5	4CL, 2M
161	2,3,3',4,5',6-HxCB	2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	4CL, 2M
162	2,3,3',4',5,5'-HxCB	2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	CP1, 4CL, 2M
163	2,3,3',4',5,6-HxCB	2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	4CL, 2M
164	2,3,3',4',5',6-HxCB	2,3,3',4',5',6-Hexachlorobiphenyl	74472-45-0	4CL, 2M
165	2,3,3',5,5',6-HxCB	2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	4CL, 2M
166	2,3,4,4',5,6-HxCB	2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	4CL, PP, 2M
167	2,3,4,4',5,5'-HxCB2	2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	CP1, 4CL, PP, 2M
168	2,3',4,4',5',6-HxCB	2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	4CL, PP, 2M
169	3,3',4,4',5,5'-HxCB1,2	3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	CP0, 4CL, PP, 2M
170	2,2',3,3',4,4',5-HpCB1	2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	4CL, PP, 2M
171	2,2',3,3',4,4',6-HpCB	2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	4CL, PP, 2M
172	2,2',3,3',4,5,5'-HpCB	2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	4CL, 2M
173	2,2',3,3',4,5,6-HpCB	2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	4CL, 2M
174	2,2',3,3',4,5,6'-HpCB	2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	4CL, 2M
175	2,2',3,3',4,5',6-HpCB	2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	4CL, 2M
176	2,2',3,3',4,6,6'-HpCB	2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	4CL, 2M
177	2,2',3,3',4',5,6-HpCB	2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	4CL, 2M
178	2,2',3,3',5,5',6-HpCB	2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	4CL, 2M
179	2,2',3,3',5,6,6'-HpCB	2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	4CL, 2M
180	2,2',3,4,4',5,5'-HpCB1	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	4CL, PP, 2M
181	2,2',3,4,4',5,6-HpCB	2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	4CL, PP, 2M
182	2,2',3,4,4',5,6'-HpCB	2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	4CL, PP, 2M
183	2,2',3,4,4',5',6-HpCB	2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	4CL, PP, 2M
184	2,2',3,4,4',6,6'-HpCB	2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	4CL, PP
185	2,2',3,4,5,5',6-HpCB	2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	4CL, 2M
186	2,2',3,4,5,6,6'-HpCB	2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	4CL, 2M
187	2,2',3,4,5,5',6-HpCB1	2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	4CL, 2M
188	2,2',3,4',5,6,6'-HpCB	2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	4CL, 2M
189	2,3,3',4,4',5,5'-HpCB2	2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	CP1, 4CL, PP, 2M
190	2,3,3',4,4',5,6-HpCB	2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	4CL, PP, 2M
191	2,3,3',4,4',5',6-HpCB	2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	4CL, PP, 2M
192	2,3,3',4,5,5',6-HpCB	2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	4CL, 2M
193	2,3,3',4',5,5',6-HpCB	2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	4CL, 2M
194	2,2',3,3',4,4',5,5'-OcCB	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	4CL, PP, 2M
195	2,2',3,3',4,4',5,6-OcCB1	2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	4CL, PP, 2M
196	2,2',3,3',4,4',5,6'-OcCB	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	4CL, PP, 2M
197	2,2',3,3',4,4',6,6'-OcCB	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	4CL, PP, 2M
198	2,2',3,3',4,5,5',6-OcCB	2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	4CL, 2M
199	2,2',3,3',4,5,5',6'-OcCB	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	4CL, 2M
200	2,2',3,3',4,5,6,6'-OcCB	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	4CL, 2M
201	2,2',3,3',4,5',6,6'-OcCB	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	4CL, 2M
202	2,2',3,3',5,5',6,6'-OcCB	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	4CL, 2M

BZ Congener	Acronym	IUPAC Name	CASRN	Descriptors
203	2,2',3,4,4',5,5',6-OcCB	2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	4CL, PP, 2M
204	2,2',3,4,4',5,6,6'-OcCB	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	4CL, PP, 2M
205	2,3,3',4,4',5,5',6-OcCB	2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	4CL, PP, 2M
206	2,2',3,3',4,4',5,5',6-NoCB1	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	4CL, PP, 2M
207	2,2',3,3',4,4',5,6,6'-NoCB	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	4CL, PP, 2M
208	2,2',3,3',4,5,5',6,6'-NoCB	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	4CL, 2M
209	DeCB1	Decachlorobiphenyl	2051-24-3	4CL, PP, 2M

Congener descriptors give a shorthand notation for geometry and substituent positions.
The twelve congeners that display all four of the descriptors are referred to as being "dioxin-like", referring both to their toxicity and structural features which make them similar to 2,3,7,8-tetrachlorodibenzo-p-dioxin (2378-TCDD)[1].

CP0 / CP1: These 68 coplanar congeners fall into one of two groups.
The first group of 20 congeners consists of those with chlorine substitution at none of the ortho positions on the biphenyl backbone and are referred to as CP0 or non-ortho congeners.
The second group of 48 congeners includes those with chlorine substitution at only one of the ortho positions and are referred to as CP1 or mono-ortho congeners.

4CL: These 169 congeners have a total of four or more chlorine substituents, regardless of position.

PP: These 54 congeners have both para positions chlorinated.

2M: These 140 congeners have two or more of the meta positions chlorinated.

Typical Co-eluters	
PCBs # 12 & 13	PCBs # 88 & 91
PCBs # 18 & 30	PCBs # 90, 101 & 113
PCBs # 26 & 29	PCBs # 86, 87, 97, 108, 119 & 125
PCBs # 20 & 28	PCBs # 85 & 116
PCBs # 21 & 33	PCBs # 107 & 124
PCBs # 50 & 53	PCBs # 135 & 151
PCBs # 45 & 51	PCBs # 147 & 149
PCBs # 43 & 73	PCBs # 139 & 140
PCBs # 49 & 69	PCBs # 153 & 168
PCBs # 44, 47 & 65	PCBs # 129, 138 & 163
PCBs # 59, 62 & 75	PCBs # 128 & 166
PCBs # 41, 71 & 40	PCBs # 156 & 157
PCBs # 70, 61, 74 & 76	PCBs # 171 & 173
PCBs # 93 & 100	PCBs # 180 & 193
PCBs # 98 & 102	PCBs # 198 & 199

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Pace WI
1241 Bellevue Street
Suite 9
Greenbay, WI 54302

Attn: Todd Noltemeyer

October 30, 2008

As per Lockheed Martin Purchase Order 7100045713 for Project 0360, please analyze for the following parameters:

Analysis/Method	Matrix	# of samples
PBC Congeners/ SW-846-1668A(209 Congeners)	Asiatic Clams Sunfish Carp White Suckers	5 16 4 14
PCB/SW-846-8082	Asiatic Clams Sunfish Carp White Suckers	15 78 32 58
% Lipids/ PACE SOP S-GB-L-003 Rev. 1	Tissue	110
% Solids	Tissue	110
Data package: Package with Diskette Deliverable		

The samples arrived at your laboratory between October 17-24, 2008. The lab will follow the attached instructions for each matrix. **All applicable QA/QC(**eg: MS/MSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to REAC 20 business days after receipt of the samples. The complete data package is due 30 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable(See attached checklist for format).

All results should be reported on dry weight basis and wet weight basis.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**. Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Joseph M. Soroka for VK

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
L. Lyons
0360\non\mem\0810\sub\0360Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
M. Sprenger

Cornell Dublier Tissue Samples: Processing and Analyses Performed by PACE Analytical

Asiatic Clams

1) Before homogenization, each composite sample will be weighed frozen. Each composte sample will be homogenized and kept frozen (-20C) until analysis.

2) Analyses of each composite sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for one composite sample from each location will also be analyzed for Total PCB congener analyses.

Sunfish/Pumkinseed : Filets and Carcasses

1) Homogenization:
For each fish in each composite sample, the fish will be weighed and then the left side of the fish will be scaled and fileted.
The filet of each fish will be weighed and the remainder of the carcass of ech fish will be weighed.
The composite of each filet sample and the composite of each carcass sample will be weighed.
The filets for each composite will be homogenized and then frozen at -20C until analyses.
The carcasses of each composite will be homogenized and then frozen at -20C until analyses.

2) Analyses of each composite sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for selected composite samples from each location will also be analyzed for Total PCB congener analyses.

Carp and White Suckers: Filets and Carcasses

1) Honmogenization: Each fish will be wieighed and then the left side of each fish will be scaled and fileted.
The filet will be weighed and the remainder of the carcass will be wieghed.
The filet for each fish will be homogenized and then frozen at -20C until analyses.
The carcass of each fish will be homogenized and then frozen at -20C until analyses.

2) Analyses of each fish sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for selected fish from each location will also be analyzed for Total PCB congener analyses

4) Note: there are two white sucker composite samples that will be processed like the Sunfish composite samples

1083846

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/23/08-0007

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
001	0-360-0096	1-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	1-4oz CG
002	0-360-0097	1-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
003	0-360-0098	1-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	4 oz. glass	-20 C	
004	0-360-0099	2-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
005	0-360-0100	2-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
006	0-360-0101	2-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	4 oz. glass	-20 C	
007	0-360-0102	3-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
008	0-360-0103	3-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	8 oz. glass	-20 C	1-8oz CG
009	0-360-0104	3-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	8 oz. glass	-20 C	
010	0-360-0105	4-AC-1	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	8 oz. glass	-20 C	
011	0-360-0106	4-AC-2	Aroclor, % Lipids, % Solids	Tissue	10/7/2008	1	4 oz. glass	-20 C	1-4oz CG
012	0-360-0107	4-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	10/7/2008	1	4 oz. glass	-20 C	
013	0-360-0109	5-AC-1	Aroclor, % Lipids, % Solids	Tissue	10/7/2008	1	4 oz. glass	-20 C	
014	0-360-0110	5-AC-2	Aroclor, % Lipids, % Solids	Tissue	9/25/2008	1	4 oz. glass	-20 C	
015	0-360-0111	5-AC-3	Aroclor, % Lipids, % Solids, PCB Congener Analysis	Tissue	9/25/2008	1	4 oz. glass	-20 C	

Special Instructions: Lab chooses sample for MS/MSD analysis

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY # 4010695

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	lerical.wents	10/23/08									
	Fedex	10/24/08	[illegible]	10/24/08	1000						
			[illegible]	11/4/08	0950						

T= -16.4
-12.4

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Cornell Dubilier Biological Sampling
South Plainfield, New Jersey

February 2009

EPA Work Assignment No. 0-360
LOCKHEED MARTIN Work Order EAC00360
EPA Contract No. EP-C-04-032

Submitted to
M. Sprenger
EPA-ERT

Vinod Kansal 2/4/09
V. Kansal Date
Analytical Section Leader

Debra Killeen 2/2/09
D. Killeen Date
Quality Assurance Officer

Donna Miller 2/4/09
D. Miller Date
Program Manager

Analysis by:
PACE

Prepared by:
Y. Mehra

Reviewed by:
J. Soroka

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Introduction

REAC personnel, in response to WA# 0-360, provided analytical support for environmental samples collected from the Cornell Dubilier Biological Sampling, Site in South Plainfield, NJ as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-360-10/16/08-0001	23	09/30/08	10/17/08	Tissue	PCB/ SW846 Method 3540C/8082	PACE Analytical[1]	T 365 T 371 T 373 T369
	6	10/01/08					
	16	10/02/08					
0-360-10/16/08-0002	14	09/30/08					T 364 T 365
	10	10/02/08					
0-360-10/16/08-0003	12	10/01/08					T 370
0-360-10/16/08-0004	6						T 364
0-360-10/16/08-0005	4						T 365 T375
0-360-10/16/08-0006	4						T 364

[1] PACE Analytical Services is NELAP certified for PCB analysis in tissues.

Case Narrative

This report details the results for the CARCASS samples submitted to the lab. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables. The laboratory performed a method detection limit (MDL) study and reported results greater than the MDL. Results greater than the MDL and less than the reporting limit are qualified estimated (J); the MDLs are not reported in the attached tables. All lipid results are reported in wet-weight.

The laboratory used 7 peaks to quantify the Aroclors (Ar). The 3rd and 4th quantification peaks for Ar 1248 appear to have interference from Ar 1254. The Ar 1248 results may be biased high as a result of the interference.

USEPA National Functional Guidelines (NFG) for Superfund Organic Methods Data Review specifies that: “For non-aqueous samples, if the Percent Moisture is less than 70.0%, no qualification of the data is necessary. If the Percent Moisture is greater than or equal to 70.0% and less than 90.0%, qualify detects as "J" and non-detects as "UJ". If the Percent Moisture is greater than or equal to 90.0%, qualify detects as "J" and non-detects as unusable "R".” It should be noted that the NFG are written for the assessment of aqueous and soil matrices. As per discussion with the Work Assignment Manager, no qualifications to the tissue data were made based on sample moisture content.

PCB in Tissue Package T 364

Surrogates were diluted out due to the high concentration of Ar in samples 0-360-0047 (4-P-1 CARCASS), -0048 (4-P-2 CARCASS), -0059 (5-P-1 CARCASS), -0061(5-BG-1 CARCASS), -0071 (6-C-5 CARCASS), -0072 (6-C-6 CARCASS), -0073 (6-C-7 CARCASS), -0083 (7-C-1 CARCASS), -0085 (7-C-3 CARCASS), -0086 (7-C-4 CARCASS) and -0047MS/MSD (4-P-1 CARCASS). The results for these samples are qualified estimated (J).

Ar 1254 in samples 0-360-0084 (7-C-2 CARCASS) and -0087 (6-C-1 CARCASS) and Ar 1248 for samples 0-360-0059 (5-P-1 CARCASS), -0084 (7-C-2 CARCASS), -0087 (7-C-5 CARCASS) and -0088 (7-C-6 CARCASS) exhibited marginal pattern matching quality. The results for these Ar are qualified presumptively present (N) for the listed samples.

The Ar 1248 and total PCB results may be biased high due to the interference of Ar 1254 with the quantitation peaks of Ar 1248 for the following samples: 0-360-0047 through -0050 (4-P-1 CARCASS, 4-P-2 CARCASS, 4-P-3-CARCASS and 4-P-4 CARCASS), -0059 through -0063 (5-P-1 CARCASS, 5-P-2 CARCASS, 5-BG-1 CARCASS, 5-BG-2 CARCASS and 5-BG-3 CARCASS), -0071 through -0074 (6-C-5 CARCASS, 6-C-6 CARCASS, 6-C-7 CARCASS and 6-C-8 CARCASS), -0083 through -0086 (7-C-1 CARCASS, 7-C-2 CARCASS, 7-C-3 CARCASS and 7-C-4 CARCASS) and -0088 (7-C-6 CARCASS).

PCB in Tissue Package T 365

Ar 1248 in samples 0-360-0008 (1-P-1 CARCASS) through 0-360-0012 (1-P-5 CARCASS) and 0-360-0036 (3-P-3 CARCASS) exhibited marginal pattern matching quality. The results for Ar 1248 are qualified presumptively present (N) for the listed samples.

Ar 1260 in samples 0-360-0008 (1-P-1 CARCASS) through 0-360-0012 (1-P-5 CARCASS) and 0-360-0065 (6-WS-2 CARCASS) exhibited marginal pattern matching quality. The results for Ar 1260 are qualified presumptively present (N) for the listed samples.

Surrogates were diluted out due to the high concentration of Aroclors in samples 0-360-0065 (6-WS-2 CARCASS), 0-360-0022 (2-P-2 CARCASS), 0-360-0024 (2-P-4 CARCASS) and 0-360-0034 (3-P-1 CARCASS) through 0-360-38 (3-P-5 CARCASS). The results are qualified estimated (J).

The % recovery for 0-360-0066 MS (6-WS-3 CARCASS) was above the QC limits for Ar 1254; the Ar 1254 and total PCB results are qualified estimated (J) for this sample.

PCB in Tissue Package T 370

Both surrogates were diluted out due to the high concentration of Ar in samples 0-360-0067 through -0069 (6-C-1 CARCASS, 6-C-2 CARCASS and 6-C-3 CARCASS), -0075 (6-BG-1 CARCASS), -0076 (6-BG-2 CARCASS), -0090 (7-C-8 CARCASS) and -0067 (6-C-1 CARCASS) MS/MSD. The results for these samples are qualified estimated (J).

The percent recovery of Ar 1254 was above QC limits for 0-360-0067 (6-C-1 CARCASS) MS/MSD. The AR 1254 and total PCB results are qualified estimated (J) for this sample.

PCB in Tissue Package T 371

Surrogates were diluted out due to the high concentration of Ar in samples 0-360-0031 through 0-360-0033

(3-WS-6 CARCASS, 3-WS-7 CARCASS and 3-WS-8 CARCASS), 0-360-0041 (4-WS-3 CARCASS), 0-360-0044 through 0-360-0046 (4-WS-6 CARCASS, 4-WS-7 CARCASS and 4-WS-8 CARCASS), 0-360-0053 (5-WS-3 CARCASS), 0-360-0054 (5-WS-4 CARCASS), 0-360-0056 through 0-360-0058 (5-WS-6 CARCASS, 5-WS-7 CARCASS and 5-WS-8 CARCASS) and 0-360-0064 (6-WS-1 CARCASS) due to dilutions required for analysis; all results are qualified estimated (J).

Ar 1260 in samples 0-360-0031 (3-WS-6 CARCASS), 0-360-0032 (3-WS-7 CARCASS), 0-360-0040 (4-WS-2 CARCASS), 0-360-0043 (4-WS-5 CARCASS), 0-360-0055 (5-WS-5 CARCASS) and 0-360-0064 (6-WS-1 CARCASS) exhibited marginal pattern matching quality. The results for Ar 1260 are qualified presumptively present (N) for the listed samples.

For sample 0-360-0031 (3-WS-6 CARCASS), the %RPD was above the QC limits for Ar 1254; the Ar 1254 and total PCB results are qualified estimated (J) for this sample.

PCB in Tissue Package T 373

Ar 1248 was not reported by the laboratory for samples: 0-360-0003 through 0-360-0005 (1-WS-3-CARCASS, 1-WS-4-CARCASS and 1-WS-5-CARCASS), 0-360-0007 (1-WS-7-CARCASS), 0-360-0014 (2-WS-2-CARCASS), 0-360-0015 (2-WS-3-CARCASS), 0-360-0017 (2-WS-5-CARCASS) and 0-360-26 (3-WS-1-CARCASS). The data validator used professional judgment and reported the Ar 1248 results for these samples. For samples 0-360-0002 through 0-360-0007 (1-WS-2-CARCASS, 1-WS-3 CARCASS, 1-WS-4 CARCASS, 1-WS-5 CARCASS, 1-WS-6 CARCASS and 1-WS-7-CARCASS) and 0-360-0014 (2-WS-2-CARCASS), 0-360-0015 (2-WS-3-CARCASS), 0-360-0017 (2-WS-5-CARCASS) and 0-360-0026 (3-WS-1-CARCASS), Ar 1248 exhibited marginal pattern matching quality; the Ar 1248 concentrations are qualified presumptively present (N).

Ar 1260 in samples 0-360-0001 (1-WS-1 CARCASS) through 0-360-0007 (1-WS-7 CARCASS), 0-360-0013 (2-WS-1 CARCASS, 0-360-15 (2-WS-3 CARCASS), 0-360-0017 (2-WS-5 CARCASS), and 0-360-0026 (3-WS-1 CARCASS) through 0-360-0030 (3-WS-5 CARCASS) exhibited marginal pattern matching quality. The results for Ar 1260 are qualified presumptively present (N) for the listed samples.

Surrogates were diluted out due to the high concentration of Aroclor in samples 0-360- 0013 through 0-360-0016 (2-WS-1 CARCASS, 2-WS-2 CARCASS, 2-WS-3 CARCASS and 2-WS-4 CARCASS), 0-360-0018 (2-WS-6-CARCASS), 0-360-0019 (2-WS-7-CARCASS) and 0-360-0026 through 0-360-0030 (3-WS-1-CARCASS, 3-WS-2 CARCASS, 3-WS-3-CARCASS, 3-WS-4 CARCASS and 3-WS-5-CARCASS) due to dilutions required for analysis; all results are qualified estimated (J).

PCB in Tissue Package T 369

Ar 1260 in sample 0-360-0020 (2-WS-8-CARCASS) exhibited marginal pattern matching quality. The results for Ar 1260 are qualified presumptively present (N).

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
PAL	Performance Acceptance Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie s	sigma	

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated
N	Presumptively present		

Rev. 1/14/099

Table 1.1a Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	39757		0-360-0047		0-360-0048		0-360-0049		0-360-0050	
Sample Location	Method Blank		4-P-1 - CARCASS		4-P-2 - CARCASS		4-P-3 - CARCASS		4-P-4 - CARCASS	
Percent Solids	--		27.9		26.9		26.3		28.0	
Percent Lipids (Wet Weight)	--		3.6		3.8		1.6		4.3	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	8960	U J	9290	U	1900	U	3570
PCB-1221 (Aroclor 1221)	U	50.0	U J	8960	U J	9290	U	1900	U	3570
PCB-1232 (Aroclor 1232)	U	50.0	U J	8960	U J	9290	U	1900	U	3570
PCB-1242 (Aroclor 1242)	U	50.0	U J	8960	U J	9290	U	1900	U	3570
PCB-1248 (Aroclor 1248)	U	50.0	20700 J	8960	23000 J	9290	5320	1900	10600	3570
PCB-1254 (Aroclor 1254)	U	50.0	30800 J	8960	38700 J	9290	8670	1900	16400	3570
PCB-1260 (Aroclor 1260)	U	50.0	U J	8960	5170 J	9290	753 J	1900	U	3570
Total PCB	U	50.0	51600 J	8960	66900 J	9290	14800	1900	27000	3570

T 364

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0059		0-360-0060		0-360-0061		0-360-0062		0-360-0063	
Sample Location	5-P-1 - CARCASS		5-P-2 - CARCASS		5-BG-1 - CARCASS		5-BG-2 - CARCASS		5-BG-3 - CARCASS	
Percent Solids	27.8		26.8		26.5		27.1		25.0	
Percent Lipids (Wet Weight)	3.1		2.8		3.9		3.6		3.0	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	8990	U	3730	U J	5660	U	3690	U	4000
PCB-1221 (Aroclor 1221)	U J	8990	U	3730	U J	5660	U	3690	U	4000
PCB-1232 (Aroclor 1232)	U J	8990	U	3730	U J	5660	U	3690	U	4000
PCB-1242 (Aroclor 1242)	U J	8990	U	3730	U J	5660	U	3690	U	4000
PCB-1248 (Aroclor 1248)	14600 JN	8990	8540	3730	14500 J	5660	9370	3690	7760	4000
PCB-1254 (Aroclor 1254)	35200 J	8990	17400	3730	23400 J	5660	15800	3690	12700	4000
PCB-1260 (Aroclor 1260)	3510 J	8990	U	3730	U J	5660	U	3690	U	4000
Total PCB	53200 J	8990	26000	3730	37700 J	5660	25100	3690	20400	4000

T 364

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0071		0-360-0072		0-360-0073		0-360-0074		0-360-0083	
Sample Location	6-C-5 - CARCASS		6-C-6 - CARCASS		6-C-7 - CARCASS		6-C-8 - CARCASS		7-C-1 - CARCASS	
Percent Solids	36.4		29.6		29.8		29.9		30.6	
Percent Lipids (Wet Weight)	10.1		7.0		8.6		5.1		6.6	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	24800	U J	21500	U J	17500	U	19700	U J	38100
PCB-1221 (Aroclor 1221)	U J	24800	U J	21500	U J	17500	U	19700	U J	38100
PCB-1232 (Aroclor 1232)	U J	24800	U J	21500	U J	17500	U	19700	U J	38100
PCB-1242 (Aroclor 1242)	U J	24800	U J	21500	U J	17500	U	19700	U J	38100
PCB-1248 (Aroclor 1248)	78000 J	24800	50100 J	21500	48100 J	17500	44700	19700	67700 J	38100
PCB-1254 (Aroclor 1254)	106000 J	24800	87700 J	21500	72100 J	17500	64200	19700	128000 J	38100
PCB-1260 (Aroclor 1260)	U J	24800	U J	21500	U J	17500	U	19700	U J	38100
Total PCB	184000 J	24800	138000 J	21500	120000 J	17500	109000	19700	195000 J	38100

T 364

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0084		0-360-0085		0-360-0086		0-360-0087		0-360-0088	
Sample Location	7-C-2 - CARCASS		7-C-3 - CARCASS		7-C-4 - CARCASS		7-C-5 - CARCASS		7-C-6 - CARCASS	
Percent Solids	28.5		30.1		35.8		31.0		29.2	
Percent Lipids (Wet Weight)	7.3		7.4		12.4		8.1		5.5	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	1750	U J	8310	U J	14000	U	806	U	856
PCB-1221 (Aroclor 1221)	U	1750	U J	8310	U J	14000	U	806	U	856
PCB-1232 (Aroclor 1232)	U	1750	U J	8310	U J	14000	U	806	U	856
PCB-1242 (Aroclor 1242)	U	1750	U J	8310	U J	14000	U	806	U	856
PCB-1248 (Aroclor 1248)	1150 JN	1750	20300 J	8310	61700 J	14000	506 JN	806	606 JN	856
PCB-1254 (Aroclor 1254)	4320 N	1750	27000 J	8310	93900 J	14000	1670 N	806	2710	856
PCB-1260 (Aroclor 1260)	1080 J	1750	U J	8310	5890 J	14000	452 J	806	644 J	856
Total PCB	6560	1750	47200 J	8310	161000 J	14000	2630	806	3970	856

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	39751		0-360-0065		0-360-0066		0-360-0080		0-360-0081	
Sample Location	Method Blank		6-WS-2 - CARCASS		6-WS-3 - CARCASS		7-WS-1 - CARCASS		7-WS-2 - CARCASS	
Percent Solids	--		22.3		24.1		24.8		21.8	
Percent Lipids (Wet Weight)	--		2.3		3.5		5.4		2.3	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	6730	U	4150	U	4030	U	4590
PCB-1221 (Aroclor 1221)	U	50.0	U J	6730	U	4150	U	4030	U	4590
PCB-1232 (Aroclor 1232)	U	50.0	U J	6730	U	4150	U	4030	U	4590
PCB-1242 (Aroclor 1242)	U	50.0	U J	6730	U	4150	U	4030	U	4590
PCB-1248 (Aroclor 1248)	U	50.0	14600 J	6730	7340	4150	5440	4030	10400	4590
PCB-1254 (Aroclor 1254)	U	50.0	34100 J	6730	11200 J	4150	8270	4030	14200	4590
PCB-1260 (Aroclor 1260)	U	50.0	3110 JN	6730	U	4150	U	4030	U	4590
Total PCB	U	50.0	51600 J	6730	18500 J	4150	13700	4030	24600	4590

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0082		0-360-0008		0-360-0009		0-360-0010		0-360-0011	
Sample Location	7-WS-3 - CARCASS		1-P-1 - CARCASS		1-P-2 - CARCASS		1-P-3 - CARCASS		1-P-4 - CARCASS	
Percent Solids	24.4		25.5		28.2		28.2		26.6	
Percent Lipids (Wet Weight)	4.9		4.0		5.6		5.4		5.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	6150	U	784	U	355	U	355	U	564
PCB-1221 (Aroclor 1221)	U	6150	U	784	U	355	U	355	U	564
PCB-1232 (Aroclor 1232)	U	6150	U	784	U	355	U	355	U	564
PCB-1242 (Aroclor 1242)	U	6150	U	784	U	355	U	355	U	564
PCB-1248 (Aroclor 1248)	19300	6150	675 JN	784	372 N	355	915 N	355	586 N	564
PCB-1254 (Aroclor 1254)	27500	6150	2760	784	926	355	1400	355	2380	564
PCB-1260 (Aroclor 1260)	U	6150	820 N	784	372 N	355	489 N	355	538 JN	564
Total PCB	46700	6150	4270	784	1670	355	2800	355	3500	564

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0012		0-360-0021		0-360-0022		0-360-0023		0-360-0024	
Sample Location	1-P-5 - CARCASS		2-P-1 - CARCASS		2-P-2 - CARCASS		2-P-3 - CARCASS		2-P-4 - CARCASS	
Percent Solids	36.9		25.6		26.0		25.2		26.8	
Percent Lipids (Wet Weight)	5.4		3.3		3.4		2.7		4.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	271	U	5860	U J	9620	U	3970	U J	9330
PCB-1221 (Aroclor 1221)	U	271	U	5860	U J	9620	U	3970	U J	9330
PCB-1232 (Aroclor 1232)	U	271	U	5860	U J	9620	U	3970	U J	9330
PCB-1242 (Aroclor 1242)	U	271	U	5860	U J	9620	U	3970	U J	9330
PCB-1248 (Aroclor 1248)	279 N	271	11500	5860	17200 J	9620	7700	3970	15900 J	9330
PCB-1254 (Aroclor 1254)	696	271	25400	5860	41500 J	9620	12700	3970	41000 J	9330
PCB-1260 (Aroclor 1260)	295 N	271	U	5860	U J	9620	U	3970	U J	9330
Total PCB	1270	271	36900	5860	58800 J	9620	20500	3970	56700 J	9330

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0025		0-360-0034		0-360-0035		0-360-0036		0-360-0037	
Sample Location	2-P-5 - CARCASS		3-P-1 - CARCASS		3-P-2 - CARCASS		3-P-3 - CARCASS		3-P-4 - CARCASS	
Percent Solids	26.9		26.8		26.8		26.3		25.4	
Percent Lipids (Wet Weight)	3.7		3.3		2.9		3.4		3.4	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	40500	U J	152000	U J	345000	U J	294000	U J	147000
PCB-1221 (Aroclor 1221)	U	40500	U J	152000	U J	345000	U J	294000	U J	147000
PCB-1232 (Aroclor 1232)	U	40500	U J	152000	U J	345000	U J	294000	U J	147000
PCB-1242 (Aroclor 1242)	U	40500	U J	152000	U J	345000	U J	294000	U J	147000
PCB-1248 (Aroclor 1248)	10500	40500	31500 J	152000	28100 J	345000	25600 JN	294000	23400 J	147000
PCB-1254 (Aroclor 1254)	24300	40500	63800 J	152000	81700 J	345000	87100 J	294000	71300 J	147000
PCB-1260 (Aroclor 1260)	U	40500	U J	152000	U J	345000	U J	294000	U J	147000
Total PCB	253000	40500	773000 J	152000	1010000 J	345000	874000 J	294000	709000 J	147000

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0038	
Sample Location	3-P-5 - CARCASS	
Percent Solids	28.1	
Percent Lipids (Wet Weight)	5.1	
Analyte	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	17800
PCB-1221 (Aroclor 1221)	U J	17800
PCB-1232 (Aroclor 1232)	U J	17800
PCB-1242 (Aroclor 1242)	U J	17800
PCB-1248 (Aroclor 1248)	32000 J	17800
PCB-1254 (Aroclor 1254)	70100 J	17800
PCB-1260 (Aroclor 1260)	U J	17800
Total PCB	102000 J	17800

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	39757		0-360-0067		0-360-0068		0-360-0069	
Sample Location	Method Blank		6-C-1 - CARCASS		6-C-2 - CARCASS		6-C-3 - CARCASS	
Percent Solids	--		32.5		26.1		31.4	
Percent Lipids (Wet Weight)	--		6.4		3.7		10.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	3080	U J	3830	U J	31800
PCB-1221 (Aroclor 1221)	U	50.0	U J	3080	U J	3830	U J	31800
PCB-1232 (Aroclor 1232)	U	50.0	U J	3080	U J	3830	U J	31800
PCB-1242 (Aroclor 1242)	U	50.0	U J	3080	U J	3830	U J	31800
PCB-1248 (Aroclor 1248)	U	50.0	7050 J	3080	8200 J	3830	36000 J	31800
PCB-1254 (Aroclor 1254)	U	50.0	10100 J	3080	12000 J	3830	79900 J	31800
PCB-1260 (Aroclor 1260)	U	50.0	U J	3080	U J	3830	U J	31800
Total PCB	U	50.0	17100 J	3080	20200 J	3830	116000 J	31800

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0070		0-360-0075		0-360-0076		0-360-0077		0-360-0078	
Sample Location	6-C-4 - CARCASS		6-BG-1 - CARCASS		6-BG-2 - CARCASS		6-BG-3 - CARCASS		6-BG-4 - CARCASS	
Percent Solids	28.1		26.3		27.2		25.5		25.0	
Percent Lipids (Wet Weight)	6.7		2.7		2.9		2.5		2.5	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	17800	U J	3800	U J	3680	U	1960	U	2000
PCB-1221 (Aroclor 1221)	U	17800	U J	3800	U J	3680	U	1960	U	2000
PCB-1232 (Aroclor 1232)	U	17800	U J	3800	U J	3680	U	1960	U	2000
PCB-1242 (Aroclor 1242)	U	17800	U J	3800	U J	3680	U	1960	U	2000
PCB-1248 (Aroclor 1248)	17000	17800	6160 J	3800	7350 J	3680	6430	1960	5520	2000
PCB-1254 (Aroclor 1254)	39100	17800	14600 J	3800	11900 J	3680	9650	1960	8720	2000
PCB-1260 (Aroclor 1260)	U	17800	U J	3800	U J	3680	U	1960	U	2000
Total PCB	56200	17800	20800 J	3800	19300 J	3680	16100	1960	14300	2000

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0079		0-360-0089		0-360-0090		0-360-0091		0-360-0092	
Sample Location	6-BG-5 - CARCASS		7-C-7 - CARCASS		7-C-8 - CARCASS		7-BG-1 - CARCASS		7-BG-2 - CARCASS	
Percent Solids	25.4		35.0		28.9		28.2		26.1	
Percent Lipids (Wet Weight)	1.7		10.0		6.1		3.1		3.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	984	U	714	U J	5190	U	1770	U	1920
PCB-1221 (Aroclor 1221)	U	984	U	714	U J	5190	U	1770	U	1920
PCB-1232 (Aroclor 1232)	U	984	U	714	U J	5190	U	1770	U	1920
PCB-1242 (Aroclor 1242)	U	984	U	714	U J	5190	U	1770	U	1920
PCB-1248 (Aroclor 1248)	3060	984	560 J	714	6570 J	5190	4180	1770	2040	1920
PCB-1254 (Aroclor 1254)	4570	984	1540	714	11600 J	5190	6670	1770	4480	1920
PCB-1260 (Aroclor 1260)	U	984	129 J	714	U J	5190	U	1770	U	1920
Total PCB	7640	984	2470	714	18200 J	5190	10900	1770	6510	1920

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0093		0-360-0094		0-360-0095	
Sample Location	7-BG-3 - CARCASS		7-BG-4 - CARCASS		7-BG-5 - CARCASS	
Percent Solids	26.0		25.8		25.7	
Percent Lipids (Wet Weight)	3.6		3.4		2.4	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	962	U	969	U	973
PCB-1221 (Aroclor 1221)	U	962	U	969	U	973
PCB-1232 (Aroclor 1232)	U	962	U	969	U	973
PCB-1242 (Aroclor 1242)	U	962	U	969	U	973
PCB-1248 (Aroclor 1248)	1510	962	1450	969	2520	973
PCB-1254 (Aroclor 1254)	1940	962	2410	969	4090	973
PCB-1260 (Aroclor 1260)	U	962	U	969	U	973
Total PCB	3450	962	3860	969	6610	973

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	39764		0-360-0001		0-360-0002		0-360-0003		0-360-0004	
Sample Location	Method Blank		1-WS-1 - CARCASS		1-WS-2 - CARCASS		1-WS-3 - CARCASS		1-WS-4 - CARCASS	
Percent Solids	--		23.5		23.3		25.1		23.9	
Percent Lipids (Wet Weight)	--		1.5		2.2		3.4		3.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50	U	14170	U	401	U	199	U	209
PCB-1221 (Aroclor 1221)	U	50	U	14170	U	401	U	199	U	209
PCB-1232 (Aroclor 1232)	U	50	U	14170	U	401	U	199	U	209
PCB-1242 (Aroclor 1242)	U	50	U	14170	U	401	U	199	U	209
PCB-1248 (Aroclor 1248)	U	50	16894	14170	249 JN	401	355 N	199	452 N	209
PCB-1254 (Aroclor 1254)	U	50	50213	14170	678	401	1024	199	891	209
PCB-1260 (Aroclor 1260)	U	50	7447 JN	14170	273 JN	401	337 N	199	296 N	209
Total PCB	U	50	74468	14170	1202	401	1713	199	1640	209

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0005		0-360-0006		0-360-0007		0-360-0013		0-360-0014	
Sample Location	1-WS-5 - CARCASS		1-WS-6 - CARCASS		1-WS-7 - CARCASS		2-WS-1 - CARCASS		2-WS-2 - CARCASS	
Percent Solids	22.9		22.7		26.1		22.5		22.2	
Percent Lipids (Wet Weight)	3.0		3.2		3.2		2.8		1.8	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	218	U	441	U	766	U J	22200	U J	22500
PCB-1221 (Aroclor 1221)	U	218	U	441	U	766	U J	22200	U J	22500
PCB-1232 (Aroclor 1232)	U	218	U	441	U	766	U J	22200	U J	22500
PCB-1242 (Aroclor 1242)	U	218	U	441	U	766	U J	22200	U J	22500
PCB-1248 (Aroclor 1248)	334 N	218	378 JN	441	778 N	766	48400 JN	22200	32900 JN	22500
PCB-1254 (Aroclor 1254)	860	218	1260	441	1860	766	138000 J	22200	95500 J	22500
PCB-1260 (Aroclor 1260)	276 N	218	408 JN	441	552 JN	766	19000 JN	22200	U J	22500
Total PCB	1470	218	2050	441	3200	766	206000 J	22200	128000 J	22500

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0015			0-360-0016			0-360-0017			0-360-0018			0-360-0019		
Sample Location	2-WS-3 - CARCASS			2-WS-4 - CARCASS			2-WS-5 - CARCASS			2-WS-6 - CARCASS			2-WS-7 - CARCASS		
Percent Solids	21.8			25.3			23.1			22.7			23.1		
Percent Lipids (Wet Weight)	1.4			2.8			1.8			1.1			2.1		
Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
PCB-1016 (Aroclor 1016)	U	J	25500	U	J	27100	U		9830	U	J	31500	U	J	21600
PCB-1221 (Aroclor 1221)	U	J	25500	U	J	27100	U		9830	U	J	31500	U	J	21600
PCB-1232 (Aroclor 1232)	U	J	25500	U	J	27100	U		9830	U	J	31500	U	J	21600
PCB-1242 (Aroclor 1242)	U	J	25500	U	J	27100	U		9830	U	J	31500	U	J	21600
PCB-1248 (Aroclor 1248)	64700	JN	25500	U	J	27100	14700	N	9830	U	J	31500	U	J	21600
PCB-1254 (Aroclor 1254)	105000	J	25500	174000	J	27100	49400		9830	110000	J	31500	93100	J	21600
PCB-1260 (Aroclor 1260)	14700	JN	25500	U	J	27100	6060	JN	9830	U	J	31500	U	J	21600
Total PCB	184000	J	25500	174000	J	27100	70100		9830	110000	J	31500	93100	J	21600

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0026			0-360-0027			0-360-0028			0-360-0029			0-360-0030		
Sample Location	3-WS-1 - CARCASS			3-WS-2 - CARCASS			3-WS-3 - CARCASS			3-WS-4 - CARCASS			3-WS-5 - CARCASS		
Percent Solids	23.3			23.9			24.5			22.7			23.6		
Percent Lipids (Wet Weight)	1.3			2.2			3.2			2.1			4.6		
Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
PCB-1016 (Aroclor 1016)	U	J	21500	U	J	20900	U	J	20400	U	J	44100	U	J	42400
PCB-1221 (Aroclor 1221)	U	J	21500	U	J	20900	U	J	20400	U	J	44100	U	J	42400
PCB-1232 (Aroclor 1232)	U	J	21500	U	J	20900	U	J	20400	U	J	44100	U	J	42400
PCB-1242 (Aroclor 1242)	U	J	21500	U	J	20900	U	J	20400	U	J	44100	U	J	42400
PCB-1248 (Aroclor 1248)	27600	JN	21500	29700	JN	20900	55500	J	20400	41500	J	44100	68200	J	42400
PCB-1254 (Aroclor 1254)	156000	J	21500	52700	J	20900	176000	J	20400	170000	J	44100	199000	J	42400
PCB-1260 (Aroclor 1260)	19300	JN	21500	10700	JN	20900	16700	JN	20400	21900	JN	44100	21900	JN	42400
Total PCB	203000	J	21500	93300	J	20900	248000	J	20400	234000	J	44100	289000	J	42400

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	39758			0-360-0031			0-360-0032			0-360-0033			0-360-0039		
Sample Location	Method Blank			3-WS-6 - CARCASS			3-WS-7 - CARCASS			3-WS-8 - CARCASS			4-WS-1 - CARCASS		
Percent Solids	--			23.9			24.7			24.6			23.6		
Percent Lipids (Wet Weight)	--			3.2			4.8			4.4			1.8		
Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
PCB-1016 (Aroclor 1016)	U		50.0	U	J	41800	U	J	20200	U	J	40700	U		6360
PCB-1221 (Aroclor 1221)	U		50.0	U	J	41800	U	J	20200	U	J	40700	U		6360
PCB-1232 (Aroclor 1232)	U		50.0	U	J	41800	U	J	20200	U	J	40700	U		6360
PCB-1242 (Aroclor 1242)	U		50.0	U	J	41800	U	J	20200	U	J	40700	U		6360
PCB-1248 (Aroclor 1248)	U		50.0	49000	J	41800	71700	J	20200	54900	J	40700	14100		6360
PCB-1254 (Aroclor 1254)	U		50.0	204000	J	41800	179000	J	20200	163000	J	40700	26000		6360
PCB-1260 (Aroclor 1260)	U		50.0	18400	JN	41800	15700	JN	20200	U	J	40700	U		6360
Total PCB	U		50.0	272000	J	41800	266000	J	20200	219000	J	40700	40100		6360

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0040		0-360-0041		0-360-0042		0-360-0043		0-360-0044	
Sample Location	4-WS-2 - CARCASS		4-WS-3 - CARCASS		4-WS-4 - CARCASS		4-WS-5 - CARCASS		4-WS-6 - CARCASS	
Percent Solids	24.2		22.4		24.0		22.3		23.8	
Percent Lipids (Wet Weight)	0.9		2.4		0.8		1.4		4.3	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	2070	U J	11200	U	4170	U	4480	U J	21000
PCB-1221 (Aroclor 1221)	U	2070	U J	11200	U	4170	U	4480	U J	21000
PCB-1232 (Aroclor 1232)	U	2070	U J	11200	U	4170	U	4480	U J	21000
PCB-1242 (Aroclor 1242)	U	2070	U J	11200	U	4170	U	4480	U J	21000
PCB-1248 (Aroclor 1248)	2500	2070	23800 J	11200	5670	4170	10900	4480	48300 J	21000
PCB-1254 (Aroclor 1254)	7070	2070	43300 J	11200	12400	4170	20400	4480	72300 J	21000
PCB-1260 (Aroclor 1260)	1060 JN	2070	U J	11200	U	4170	2100 JN	4480	U J	21000
Total PCB	10600	2070	67000 J	11200	18100	4170	33500	4480	121000 J	21000

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0045		0-360-0046		0-360-0051		0-360-0052		0-360-0053	
Sample Location	4-WS-7 - CARCASS		4-WS-8 - CARCASS		5-WS-1 - CARCASS		5-WS-2 - CARCASS		5-WS-3 - CARCASS	
Percent Solids	22.8		22.8		22.2		22.1		22.4	
Percent Lipids (Wet Weight)	3.6		2.7		2.2		2.0		3.0	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	11000	U J	21900	U	6760	U	6790	U J	11200
PCB-1221 (Aroclor 1221)	U J	11000	U J	21900	U	6760	U	6790	U J	11200
PCB-1232 (Aroclor 1232)	U J	11000	U J	21900	U	6760	U	6790	U J	11200
PCB-1242 (Aroclor 1242)	U J	11000	U J	21900	U	6760	U	6790	U J	11200
PCB-1248 (Aroclor 1248)	29300 J	11000	43600 J	21900	13500	6760	13700	6790	31000 J	11200
PCB-1254 (Aroclor 1254)	41500 J	11000	72800 J	21900	22300	6760	26900	6790	47300 J	11200
PCB-1260 (Aroclor 1260)	U J	11000	U J	21900	U	6760	U	6790	U J	11200
Total PCB	70600 J	11000	117000 J	21900	35800	6760	40600	6790	78100 J	11200

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0054		0-360-0055		0-360-0056		0-360-0057		0-360-0058	
Sample Location	5-WS-4 - CARCASS		5-WS-5 - CARCASS		5-WS-6 - CARCASS		5-WS-7 - CARCASS		5-WS-8 - CARCASS	
Percent Solids	21.8		25.7		24.8		24.5		23.3	
Percent Lipids (Wet Weight)	2.7		4.5		4.5		4.7		5.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	22900	U	973	U J	20200	U J	10200	U J	10700
PCB-1221 (Aroclor 1221)	U J	22900	U	973	U J	20200	U J	10200	U J	10700
PCB-1232 (Aroclor 1232)	U J	22900	U	973	U J	20200	U J	10200	U J	10700
PCB-1242 (Aroclor 1242)	U J	22900	U	973	U J	20200	U J	10200	U J	10700
PCB-1248 (Aroclor 1248)	46300 J	22900	1500	973	55200 J	20200	23100 J	10200	27800 J	10700
PCB-1254 (Aroclor 1254)	70200 J	22900	3700	973	89900 J	20200	35600 J	10200	37900 J	10700
PCB-1260 (Aroclor 1260)	U J	22900	681 JN	973	U J	20200	U J	10200	U J	10700
Total PCB	117000 J	22900	5880	973	145000 J	20200	58800 J	10200	65700 J	10700

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0064			39755		0-360-0020		
Sample Location	6-WS-1 - CARCASS			Method Blank		2-WS-8-CARCASS		
Percent Solids	21.2			100.0		25.2		
Percent Lipids (Wet Weight)	1.6			-		1.6		
Analyte	Result µg/kg		RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg
PCB-1016 (Aroclor 1016)	U	J	156000	U	50.0	U		101000
PCB-1221 (Aroclor 1221)	U	J	156000	U	50.0	U		101000
PCB-1232 (Aroclor 1232)	U	J	156000	U	50.0	U		101000
PCB-1242 (Aroclor 1242)	U	J	156000	U	50.0	U		101000
PCB-1248 (Aroclor 1248)	226000	J	156000	U	50.0	173000		101000
PCB-1254 (Aroclor 1254)	756000	JN	156000	U	50.0	396000		101000
PCB-1260 (Aroclor 1260)	96300	J	156000	U	50.0	69400	JN	101000
Total PCB	1080000	J	156000	U	50.0	638000		101000

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Table 1.1b Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	39757		0-360-0047		0-360-0048		0-360-0049		0-360-0050	
Sample Location	Method Blank		4-P-1 - CARCASS		4-P-2 - CARCASS		4-P-3 - CARCASS		4-P-4 - CARCASS	
Percent Solids	--		27.9		26.9		26.3		28.0	
Percent Lipids	--		3.62		3.81		1.56		4.26	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	2500	U J	2500	U	500	U	1000
PCB-1221 (Aroclor 1221)	U	50.0	U J	2500	U J	2500	U	500	U	1000
PCB-1232 (Aroclor 1232)	U	50.0	U J	2500	U J	2500	U	500	U	1000
PCB-1242 (Aroclor 1242)	U	50.0	U J	2500	U J	2500	U	500	U	1000
PCB-1248 (Aroclor 1248)	U	50.0	5780 J	2500	6200 J	2500	1400	500	2980	1000
PCB-1254 (Aroclor 1254)	U	50.0	8590 J	2500	10400 J	2500	2280	500	4590	1000
PCB-1260 (Aroclor 1260)	U	50.0	U J	2500	1390 J	2500	198 J	500	U	1000
Total PCB	U	50.0	14400 J	2500	18000 J	2500	3880	500	7570	1000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0059		0-360-0060		0-360-0061		0-360-0062		0-360-0063	
Sample Location	5-P-1 - CARCASS		5-P-2 - CARCASS		5-BG-1 - CARCASS		5-BG-2 - CARCASS		5-BG-3 - CARCASS	
Percent Solids	27.8		26.8		26.5		27.1		25.0	
Percent Lipids	3.13		2.82		3.94		3.55		2.97	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	2500	U	1000	U J	1500	U	1000	U	1000
PCB-1221 (Aroclor 1221)	U J	2500	U	1000	U J	1500	U	1000	U	1000
PCB-1232 (Aroclor 1232)	U J	2500	U	1000	U J	1500	U	1000	U	1000
PCB-1242 (Aroclor 1242)	U J	2500	U	1000	U J	1500	U	1000	U	1000
PCB-1248 (Aroclor 1248)	4050 JN	2500	2290	1000	3830 J	1500	2540	1000	1940	1000
PCB-1254 (Aroclor 1254)	9780 J	2500	4670	1000	6210 J	1500	4270	1000	3170	1000
PCB-1260 (Aroclor 1260)	977 J	2500	U	1000	U J	1500	U	1000	U	1000
Total PCB	14800 J	2500	6960	1000	10000 J	1500	6810	1000	5110	1000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0071		0-360-0072		0-360-0073		0-360-0074		0-360-0083	
Sample Location	6-C-5 - CARCASS		6-C-6 - CARCASS		6-C-7 - CARCASS		6-C-8 - CARCASS		7-C-1 - CARCASS	
Percent Solids	36.4		29.6		29.8		29.9		30.6	
Percent Lipids	10.1		6.98		8.57		5.08		6.56	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	2500	U J	1500	U J	1500	U	1000	U J	2500
PCB-1221 (Aroclor 1221)	U J	2500	U J	1500	U J	1500	U	1000	U J	2500
PCB-1232 (Aroclor 1232)	U J	2500	U J	1500	U J	1500	U	1000	U J	2500
PCB-1242 (Aroclor 1242)	U J	2500	U J	1500	U J	1500	U	1000	U J	2500
PCB-1248 (Aroclor 1248)	7880 J	2500	3500 J	1500	4120 J	1500	2270	1000	4440 J	2500
PCB-1254 (Aroclor 1254)	10700 J	2500	6120 J	1500	6180 J	1500	3260	1000	8370 J	2500
PCB-1260 (Aroclor 1260)	U J	2500	U J	1500	U J	1500	U	1000	U J	2500
Total PCB	18600 J	2500	9620 J	1500	10300 J	1500	5530	1000	12800 J	2500

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0084		0-360-0085		0-360-0086		0-360-0087		0-360-0088	
Sample Location	7-C-2 - CARCASS		7-C-3 - CARCASS		7-C-4 - CARCASS		7-C-5 - CARCASS		7-C-6 - CARCASS	
Percent Solids	28.5		30.1		35.8		31.0		29.2	
Percent Lipids	7.34		7.38		12.4		8.11		5.47	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	500	U J	2500	U J	5000	U	250	U	250
PCB-1221 (Aroclor 1221)	U	500	U J	2500	U J	5000	U	250	U	250
PCB-1232 (Aroclor 1232)	U	500	U J	2500	U J	5000	U	250	U	250
PCB-1242 (Aroclor 1242)	U	500	U J	2500	U J	5000	U	250	U	250
PCB-1248 (Aroclor 1248)	327 JN	500	6110 J	2500	22100 J	5000	157 JN	250	177 JN	250
PCB-1254 (Aroclor 1254)	1230 N	500	8120 J	2500	33600 J	5000	518 N	250	792	250
PCB-1260 (Aroclor 1260)	309 J	500	U J	2500	2110 J	5000	140 J	250	188 J	250
Total PCB	1870	500	14200 J	2500	57800 J	5000	815	250	1160	250

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	39751		0-360-0065		0-360-0066		0-360-0080		0-360-0081	
Sample Location	Method Blank		6-WS-2 - CARCASS		6-WS-3 - CARCASS		7-WS-1 - CARCASS		7-WS-2 - CARCASS	
Percent Solids	--		22.3		24.1		24.8		21.8	
Percent Lipids	--		2.3		3.5		5.4		2.3	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	1500	U	1000	U	1000	U	1000
PCB-1221 (Aroclor 1221)	U	50.0	U J	1500	U	1000	U	1000	U	1000
PCB-1232 (Aroclor 1232)	U	50.0	U J	1500	U	1000	U	1000	U	1000
PCB-1242 (Aroclor 1242)	U	50.0	U J	1500	U	1000	U	1000	U	1000
PCB-1248 (Aroclor 1248)	U	50.0	3250 J	1500	1770	1000	1350	1000	2270	1000
PCB-1254 (Aroclor 1254)	U	50.0	7600 J	1500	2690 J	1000	2050	1000	3090	1000
PCB-1260 (Aroclor 1260)	U	50.0	694 JN	1500	U	1000	U	1000	U	1000
Total PCB	U	50.0	11500 J	1500	4460 J	1000	3400	1000	5360	1000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0082		0-360-0008		0-360-0009		0-360-0010		0-360-0011	
Sample Location	7-WS-3 - CARCASS		1-P-1 - CARCASS		1-P-2 - CARCASS		1-P-3 - CARCASS		1-P-4 - CARCASS	
Percent Solids	24.4		25.5		28.2		28.2		26.6	
Percent Lipids	4.9		4.0		5.6		5.4		5.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	1500	U	200	U	100	U	100	U	150
PCB-1221 (Aroclor 1221)	U	1500	U	200	U	100	U	100	U	150
PCB-1232 (Aroclor 1232)	U	1500	U	200	U	100	U	100	U	150
PCB-1242 (Aroclor 1242)	U	1500	U	200	U	100	U	100	U	150
PCB-1248 (Aroclor 1248)	4720	1500	172 JN	200	105 N	100	258 N	100	156 N	150
PCB-1254 (Aroclor 1254)	6720	1500	705	200	261	100	395	100	633	150
PCB-1260 (Aroclor 1260)	U	1500	209 N	200	105 N	100	138 N	100	143 JN	150
Total PCB	11400	1500	1090	200	471	100	790	100	932	150

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0012		0-360-0021		0-360-0022		0-360-0023		0-360-0024	
Sample Location	1-P-5 - CARCASS		2-P-1 - CARCASS		2-P-2 - CARCASS		2-P-3 - CARCASS		2-P-4 - CARCASS	
Percent Solids	36.9		25.6		26.0		25.2		26.8	
Percent Lipids	5.4		3.3		3.4		2.7		4.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	100	U	1500	U J	2500	U	1000	U J	2500
PCB-1221 (Aroclor 1221)	U	100	U	1500	U J	2500	U	1000	U J	2500
PCB-1232 (Aroclor 1232)	U	100	U	1500	U J	2500	U	1000	U J	2500
PCB-1242 (Aroclor 1242)	U	100	U	1500	U J	2500	U	1000	U J	2500
PCB-1248 (Aroclor 1248)	103 N	100	2950	1500	4480 J	2500	1940	1000	4270 J	2500
PCB-1254 (Aroclor 1254)	257	100	6500	1500	10800 J	2500	3210	1000	11000 J	2500
PCB-1260 (Aroclor 1260)	109 N	100	U	1500	U J	2500	U	1000	U J	2500
Total PCB	468	100	9450	1500	15300 J	2500	5160	1000	15200 J	2500

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0025		0-360-0034		0-360-0035		0-360-0036		0-360-0037	
Sample Location	2-P-5 - CARCASS		3-P-1 - CARCASS		3-P-2 - CARCASS		3-P-3 - CARCASS		3-P-4 - CARCASS	
Percent Solids	26.9		26.8		26.8		26.3		25.4	
Percent Lipids	3.7		3.3		2.9		3.4		3.4	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	1500	U J	5000	U J	10000	U J	10000	U J	5000
PCB-1221 (Aroclor 1221)	U	1500	U J	5000	U J	10000	U J	10000	U J	5000
PCB-1232 (Aroclor 1232)	U	1500	U J	5000	U J	10000	U J	10000	U J	5000
PCB-1242 (Aroclor 1242)	U	1500	U J	5000	U J	10000	U J	10000	U J	5000
PCB-1248 (Aroclor 1248)	2830	1500	8440 J	5000	7540 J	10000	6730 JN	10000	5950 J	5000
PCB-1254 (Aroclor 1254)	6530	1500	17100 J	5000	21900 J	10000	22900 J	10000	18100 J	5000
PCB-1260 (Aroclor 1260)	U	1500	U J	5000	U J	10000	U J	10000	U J	5000
Total PCB	9360	1500	25500 J	5000	29400 J	10000	29700 J	10000	24100 J	5000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0038	
Sample Location	3-P-5 - CARCASS	
Percent Solids	28.1	
Percent Lipids	5.1	
Analyte	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	5000
PCB-1221 (Aroclor 1221)	U J	5000
PCB-1232 (Aroclor 1232)	U J	5000
PCB-1242 (Aroclor 1242)	U J	5000
PCB-1248 (Aroclor 1248)	8990 J	5000
PCB-1254 (Aroclor 1254)	19700 J	5000
PCB-1260 (Aroclor 1260)	U J	5000
Total PCB	28700 J	5000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	39757		0-360-0067		0-360-0068		0-360-0069	
Sample Location	Method Blank		6-C-1 - CARCASS		6-C-2 - CARCASS		6-C-3 - CARCASS	
Percent Solids	--		32.5		26.1		31.4	
Percent Lipids	--		6.4		3.7		10.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	1000	U J	1000	U J	10000
PCB-1221 (Aroclor 1221)	U	50.0	U J	1000	U J	1000	U J	10000
PCB-1232 (Aroclor 1232)	U	50.0	U J	1000	U J	1000	U J	10000
PCB-1242 (Aroclor 1242)	U	50.0	U J	1000	U J	1000	U J	10000
PCB-1248 (Aroclor 1248)	U	50.0	2290 J	1000	2140 J	1000	11300 J	10000
PCB-1254 (Aroclor 1254)	U	50.0	3280 J	1000	3140 J	1000	25100 J	10000
PCB-1260 (Aroclor 1260)	U	50.0	U J	1000	U J	1000	U J	10000
Total PCB	U	50.0	5570 J	1000	5280 J	1000	36400 J	10000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0070		0-360-0075		0-360-0076		0-360-0077		0-360-0078	
Sample Location	6-C-4 - CARCASS		6-BG-1 - CARCASS		6-BG-2 - CARCASS		6-BG-3 - CARCASS		6-BG-4 - CARCASS	
Percent Solids	28.1		26.3		27.2		25.5		25.0	
Percent Lipids	6.7		2.7		2.9		2.5		2.5	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	5000	U J	1000	U J	1000	U	500	U	500
PCB-1221 (Aroclor 1221)	U	5000	U J	1000	U J	1000	U	500	U	500
PCB-1232 (Aroclor 1232)	U	5000	U J	1000	U J	1000	U	500	U	500
PCB-1242 (Aroclor 1242)	U	5000	U J	1000	U J	1000	U	500	U	500
PCB-1248 (Aroclor 1248)	4780 J	5000	1620 J	1000	2000 J	1000	1640	500	1380	500
PCB-1254 (Aroclor 1254)	11000	5000	3830 J	1000	3240 J	1000	2460	500	2180	500
PCB-1260 (Aroclor 1260)	U	5000	U J	1000	U J	1000	U	500	U	500
Total PCB	15800	5000	5460 J	1000	5250 J	1000	4100	500	3570	500

T 370

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0079		0-360-0089		0-360-0090		0-360-0091		0-360-0092	
Sample Location	6-BG-5 - CARCASS		7-C-7 - CARCASS		7-C-8 - CARCASS		7-BG-1 - CARCASS		7-BG-2 - CARCASS	
Percent Solids	25.4		35.0		28.9		28.2		26.1	
Percent Lipids	1.7		10		6.1		3.1		3.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	250	U	250	U J	1500	U	500	U	500
PCB-1221 (Aroclor 1221)	U	250	U	250	U J	1500	U	500	U	500
PCB-1232 (Aroclor 1232)	U	250	U	250	U J	1500	U	500	U	500
PCB-1242 (Aroclor 1242)	U	250	U	250	U J	1500	U	500	U	500
PCB-1248 (Aroclor 1248)	776	250	196 J	250	1900 J	1500	1180	500	532	500
PCB-1254 (Aroclor 1254)	1160	250	539	250	3360 J	1500	1880	500	1170	500
PCB-1260 (Aroclor 1260)	U	250	129 J	250	U J	1500	U	500	U	500
Total PCB	1940	250	864	250	5260 J	1500	3060	500	1700	500

T 370

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0093		0-360-0094		0-360-0095	
Sample Location	7-BG-3 - CARCASS		7-BG-4 - CARCASS		7-BG-5 - CARCASS	
Percent Solids	26.0		25.8		25.7	
Percent Lipids	3.6		3.4		2.4	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	250	U	250	U	250
PCB-1221 (Aroclor 1221)	U	250	U	250	U	250
PCB-1232 (Aroclor 1232)	U	250	U	250	U	250
PCB-1242 (Aroclor 1242)	U	250	U	250	U	250
PCB-1248 (Aroclor 1248)	392	250	375	250	647	250
PCB-1254 (Aroclor 1254)	505	250	621	250	1050	250
PCB-1260 (Aroclor 1260)	U	250	U	250	U	250
Total PCB	897	250	996	250	1700	250

T 370

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	39764		0-360-0001		0-360-0002		0-360-0003		0-360-0004	
Sample Location	Method Blank		1-WS-1 - CARCASS		1-WS-2 - CARCASS		1-WS-3 - CARCASS		1-WS-4 - CARCASS	
Percent Solids	--		23.5		23.3		25.1		23.9	
Percent Lipids	--		1.5		2.2		3.4		3.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U	3330	U	93.5	U	50.0	U	50.0
PCB-1221 (Aroclor 1221)	U	50.0	U	3330	U	93.5	U	50.0	U	50.0
PCB-1232 (Aroclor 1232)	U	50.0	U	3330	U	93.5	U	50.0	U	50.0
PCB-1242 (Aroclor 1242)	U	50.0	U	3330	U	93.5	U	50.0	U	50.0
PCB-1248 (Aroclor 1248)	U	50.0	3970	3330	58.0 JN	93.5	89.0 N	50.0	108 N	50.0
PCB-1254 (Aroclor 1254)	U	50.0	11800	3330	158	93.5	257	50.0	213	50.0
PCB-1260 (Aroclor 1260)	U	50.0	1750 JN	3330	63.7 JN	93.5	84.7 N	50.0	70.8 N	50.0
Total PCB	U	50.0	17500	3330	280	93.5	430	50.0	392	50.0

T 373

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0005		0-360-0006		0-360-0007		0-360-0013		0-360-0014	
Sample Location	1-WS-5 - CARCASS		1-WS-6 - CARCASS		1-WS-7 - CARCASS		2-WS-1 - CARCASS		2-WS-2 - CARCASS	
Percent Solids	22.9		22.7		26.1		22.5		22.2	
Percent Lipids	3.0		3.2		3.2		2.8		1.8	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U	100	U	200	U J	5000	U J	5000
PCB-1221 (Aroclor 1221)	U	50.0	U	100	U	200	U J	5000	U J	5000
PCB-1232 (Aroclor 1232)	U	50.0	U	100	U	200	U J	5000	U J	5000
PCB-1242 (Aroclor 1242)	U	50.0	U	100	U	200	U J	5000	U J	5000
PCB-1248 (Aroclor 1248)	76.4 N	50.0	85.9 JN	100	203 N	200	10900 JN	5000	7300 JN	5000
PCB-1254 (Aroclor 1254)	197	50.0	287	100	486	200	31100 J	5000	21200 J	5000
PCB-1260 (Aroclor 1260)	63.3 N	50.0	92.6 JN	100	144 JN	200	4280 JN	5000	U J	5000
Total PCB	336	50.0	466	100	834	200	46300 J	5000	28500 J	5000

T 373

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0015		0-360-0016		0-360-0017		0-360-0018		0-360-0019	
Sample Location	2-WS-3 - CARCASS		2-WS-4 - CARCASS		2-WS-5 - CARCASS		2-WS-6 - CARCASS		2-WS-7 - CARCASS	
Percent Solids	21.8		25.3		23.1		22.7		23.1	
Percent Lipids	1.4		2.8		1.8		1.1		2.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	5560	U J	6850	U	2270	U J	7140	U J	5000
PCB-1221 (Aroclor 1221)	U J	5560	U J	6850	U	2270	U J	7140	U J	5000
PCB-1232 (Aroclor 1232)	U J	5560	U J	6850	U	2270	U J	7140	U J	5000
PCB-1242 (Aroclor 1242)	U J	5560	U J	6850	U	2270	U J	7140	U J	5000
PCB-1248 (Aroclor 1248)	14100 JN	5560	U J	6850	3400 JN	2270	U J	7140	U J	5000
PCB-1254 (Aroclor 1254)	22900 J	5560	43900 J	6850	11400	2270	25000 J	7140	21500 J	5000
PCB-1260 (Aroclor 1260)	3200 JN	5560	U J	6850	1400 JN	2270	U J	7140	U J	5000
Total PCB	40200 J	5560	43900 J	6850	16200	2270	25000 J	7140	21500 J	5000

T 373

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0026		0-360-0027		0-360-0028		0-360-0029		0-360-0030	
Sample Location	3-WS-1 - CARCASS		3-WS-2 - CARCASS		3-WS-3 - CARCASS		3-WS-4 - CARCASS		3-WS-5 - CARCASS	
Percent Solids	23.3		23.9		24.5		22.7		23.6	
Percent Lipids	1.3		2.2		3.2		2.1		4.6	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	5000	U J	5000	U J	5000	U J	10000	U J	10000
PCB-1221 (Aroclor 1221)	U J	5000	U J	5000	U J	5000	U J	10000	U J	10000
PCB-1232 (Aroclor 1232)	U J	5000	U J	5000	U J	5000	U J	10000	U J	10000
PCB-1242 (Aroclor 1242)	U J	5000	U J	5000	U J	5000	U J	10000	U J	10000
PCB-1248 (Aroclor 1248)	6430 JN	5000	7100 JN	5000	13600 J	5000	9420 J	10000	16100 J	10000
PCB-1254 (Aroclor 1254)	36400 J	5000	12600 J	5000	43000 J	5000	38700 J	10000	47000 J	10000
PCB-1260 (Aroclor 1260)	4500 JN	5000	2560 JN	5000	4080 JN	5000	4980 JN	10000	5180 JN	10000
Total PCB	47300 J	5000	22300 J	5000	60700 J	5000	53100 J	10000	68300 J	10000

T 373

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	39758		0-360-0031		0-360-0032		0-360-0033		0-360-0039	
Sample Location	Method Blank		3-WS-6 - CARCASS		3-WS-7 - CARCASS		3-WS-8 - CARCASS		4-WS-1 - CARCASS	
Percent Solids	--		23.9		24.7		24.6		23.6	
Percent Lipids	--		3.2		4.8		4.4		1.8	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	50.0	U J	10000	U J	5000	U J	10000	U	1500
PCB-1221 (Aroclor 1221)	U	50.0	U J	10000	U J	5000	U J	10000	U	1500
PCB-1232 (Aroclor 1232)	U	50.0	U J	10000	U J	5000	U J	10000	U	1500
PCB-1242 (Aroclor 1242)	U	50.0	U J	10000	U J	5000	U J	10000	U	1500
PCB-1248 (Aroclor 1248)	U	50.0	11700 J	10000	17700 J	5000	13500 J	10000	3330	1500
PCB-1254 (Aroclor 1254)	U	50.0	48800 J	10000	44200 J	5000	40200 J	10000	6140	1500
PCB-1260 (Aroclor 1260)	U	50.0	4390 JN	10000	3870 JN	5000	U J	10000	U	1500
Total PCB	U	50.0	64900 J	10000	65800 J	5000	53800 J	10000	9470	1500

T 371

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0040		0-360-0041		0-360-0042		0-360-0043		0-360-0044	
Sample Location	4-WS-2 - CARCASS		4-WS-3 - CARCASS		4-WS-4 - CARCASS		4-WS-5 - CARCASS		4-WS-6 - CARCASS	
Percent Solids	24.2		22.4		24.0		22.3		23.8	
Percent Lipids	0.92		2.4		0.76		1.4		4.3	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U	500	U J	2500	U	1000	U	1000	U J	5000
PCB-1221 (Aroclor 1221)	U	500	U J	2500	U	1000	U	1000	U J	5000
PCB-1232 (Aroclor 1232)	U	500	U J	2500	U	1000	U	1000	U J	5000
PCB-1242 (Aroclor 1242)	U	500	U J	2500	U	1000	U	1000	U J	5000
PCB-1248 (Aroclor 1248)	604	500	5340 J	2500	1360	1000	2430	1000	11500 J	5000
PCB-1254 (Aroclor 1254)	1710	500	9700 J	2500	2980	1000	4560	1000	17200 J	5000
PCB-1260 (Aroclor 1260)	257 JN	500	U J	2500	U	1000	468 JN	1000	U J	5000
Total PCB	2570	500	15000 J	2500	4340	1000	7460	1000	28700 J	5000

T 371

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0045		0-360-0046		0-360-0051		0-360-0052		0-360-0053	
Sample Location	4-WS-7 - CARCASS		4-WS-8 - CARCASS		5-WS-1 - CARCASS		5-WS-2 - CARCASS		5-WS-3 - CARCASS	
Percent Solids	22.8		22.8		22.2		22.1		22.4	
Percent Lipids	3.6		2.7		2.2		2.0		3.0	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	2500	U J	5000	U	1500	U	1500	U J	2500
PCB-1221 (Aroclor 1221)	U J	2500	U J	5000	U	1500	U	1500	U J	2500
PCB-1232 (Aroclor 1232)	U J	2500	U J	5000	U	1500	U	1500	U J	2500
PCB-1242 (Aroclor 1242)	U J	2500	U J	5000	U	1500	U	1500	U J	2500
PCB-1248 (Aroclor 1248)	6670 J	2500	9930 J	5000	2990	1500	3030	1500	6940	2500
PCB-1254 (Aroclor 1254)	9460 J	2500	16600 J	5000	4950	1500	5950	1500	10600 J	2500
PCB-1260 (Aroclor 1260)	U J	2500	U J	5000	U	1500	U	1500	U J	2500
Total PCB	16100 J	2500	26600 J	5000	7940	1500	8980	1500	17500 J	2500

T 371

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0054		0-360-0055		0-360-0056		0-360-0057		0-360-0058	
Sample Location	5-WS-4 - CARCASS		5-WS-5 - CARCASS		5-WS-6 - CARCASS		5-WS-7 - CARCASS		5-WS-8 - CARCASS	
Percent Solids	21.8		25.7		24.8		24.5		23.3	
Percent Lipids	2.7		4.5		4.5		4.7		5.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
PCB-1016 (Aroclor 1016)	U J	5000	U	250	U J	5000	U J	2500	U J	2500
PCB-1221 (Aroclor 1221)	U J	5000	U	250	U J	5000	U J	2500	U J	2500
PCB-1232 (Aroclor 1232)	U J	5000	U	250	U J	5000	U J	2500	U J	2500
PCB-1242 (Aroclor 1242)	U J	5000	U	250	U J	5000	U J	2500	U J	2500
PCB-1248 (Aroclor 1248)	10100 J	5000	386	250	13700 J	5000	5650 J	2500	6480 J	2500
PCB-1254 (Aroclor 1254)	15300 J	5000	952	250	22300 J	5000	8730 J	2500	8820 J	2500
PCB-1260 (Aroclor 1260)	U J	5000	175 JN	250	U J	5000	U J	2500	U J	2500
Total PCB	25400 J	5000	1510	250	36000 J	5000	14400 J	2500	15300 J	2500

T 371

Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0064			39755		0-360-0020		
Sample Location	6-WS-1 - CARCASS			Method Blank		2-WS-8-CARCASS		
Percent Solids	21.2			100		25.2		
Percent Lipids	1.6			-		1.6		
Analyte	Result µg/kg		RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg
PCB-1016 (Aroclor 1016)	U	J	2500	U	50.0	U		1610
PCB-1221 (Aroclor 1221)	U	J	2500	U	50.0	U		1610
PCB-1232 (Aroclor 1232)	U	J	2500	U	50.0	U		1610
PCB-1242 (Aroclor 1242)	U	J	2500	U	50.0	U		1610
PCB-1248 (Aroclor 1248)	3620	J	2500	U	50.0	2770		1610
PCB-1254 (Aroclor 1254)	12100	JN	2500	U	50.0	6340		1610
PCB-1260 (Aroclor 1260)	1540	J	2500	U	50.0	1110	JN	1610
Total PCB	17300	J	2500	U	50.0	10200		1610

T 371/369

Table 2.1 Results of the MS/MSD Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Sample Number: 4-P-1 - CARCASS

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery		MSD Result ug/kg	MSD % Recovery	RPD		QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	8590	1000	7210	NC		9540	NC	28		43 - 130	56

T-364

Sample Number 6-WS-3 - CARCASS

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery		MSD Result ug/kg	MSD % Recovery	RPD		QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	2690	1000	4200	151	*	3930	124	7		43 - 130	56

T-365

Sample Number 6-C-1 - CARCASS

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery		MSD Result ug/kg	MSD % Recovery	RPD		QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	3280	1000	10600	737		6820	354	44		43 - 130	56

T-370

Sample Number 1-WS-7 - CARCASS

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery		MSD Result ug/kg	MSD % Recovery	RPD		QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	486	1000	1460	97		1480	99	1		43 - 130	56

T-373

Sample Number 3-WS-6 - CARCASS

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery		MSD Result ug/kg	MSD % Recovery	RPD		QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	48800	1000	13800	NC		37900	NC	94	*	43 - 130	56

T-371

Table 2.2 Results of the LCS Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling

Sample Number: 11/05/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	213	85	40 - 128

T 364

Sample Number: 10/30/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	236	94	40 - 128

T 365

Sample Number: 11/05/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	232	93	40 - 128

T 370

Sample Number: 11/14/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	237	95	40 - 128

T 373

Sample Number: 11/06/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	216	86	40 - 128

T 371

Sample Number: 11/06/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	233	93	40 - 128

T-369

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Pace WI
1241 Bellevue Street
Suite 9
Greenbay, WI 54302

Attn: Todd Noltemeyer

October 30, 2008

As per Lockheed Martin Purchase Order 7100045713 for Project 0360, please analyze for the following parameters:

Analysis/Method	Matrix	# of samples
PBC Congeners/ SW-846-1668A(209 Congeners)	Asiatic Clams Sunfish Carp White Suckers	5 16 4 14
PCB/SW-846-8082	Asiatic Clams Sunfish Carp White Suckers	15 78 32 58
% Lipids/ PACE SOP S-GB-L-003 Rev. 1	Tissue	110
% Solids	Tissue	110
Data package: Package with Diskette Deliverable		

The samples arrived at your laboratory between October 17-24, 2008. The lab will follow the attached instructions for each matrix. **All applicable QA/QC**(eg: MS/MSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to REAC 20 business days after receipt of the samples. The complete data package is due 30 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable(See attached checklist for format).

All results should be reported on dry weight basis and wet weight basis.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**. Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Joseph M Lowe for VK

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
L. Lyons
0360\non\mem\0810\sub\0360Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
M. Sprenger

Cornell Dublier Tissue Samples: Processing and Analyses Performed by PACE Analytical

Asiatic Clams

1) Before homogenization, each composite sample will be weighed frozen. Each composte sample will be homogenized and kept frozen (-20C) until analysis.

2) Analyses of each composite sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for one composite sample from each location will also be analyzed for Total PCB congener analyses.

Sunfish/Pumkinseed : Filets and Carcasses

1) Homogenization:
For each fish in each composite sample, the fish will be weighed and then the left side of the fish will be scaled and fileted.
The filet of each fish will be weighed and the remainder of the carcass of ech fish will be weighed.
The composite of each filet sample and the composite of each carcass sample will be weighed.
The filets for each composite will be homogenized and then frozen at -20C until analyses.
The carcasses of each composite will be homogenized and then frozen at -20C until analyses.

2) Analyses of each composite sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for selected composite samples from each location will also be analyzed for Total PCB congener analyses.

Carp and White Suckers: Filets and Carcasses

1) Honmogenization: Each fish will be wieighed and then the left side of each fish will be scaled and fileted.
The filet will be weighed and the remainder of the carcass will be wieghed.
The filet for each fish will be homogenized and then frozen at -20C until analyses.
The carcass of each fish will be homogenized and then frozen at -20C until analyses.

2) Analyses of each fish sample will include Aroclor analyses, % lipids, and % solids

3) Analyses for selected fish from each location will also be analyzed for Total PCB congener analyses

4) Note: there are two white sucker composite samples that will be processed like the Sunfish composite samples

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0001	1-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0002	1-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0003	1-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0004	1-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0005	1-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0006	1-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0007	1-WS-7	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0013	2-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0014	2-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0015	2-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0016	2-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0017	2-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0018	2-WS-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0019	2-WS-7	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0020	2-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0026	3-WS-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0027	3-WS-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0028	3-WS-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0029	3-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
LBC Analysis	L. A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0030	3-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0031	3-WS-6	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0032	3-WS-7	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0033	3-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0039	4-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0040	4-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0041	4-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0042	4-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0043	4-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0044	4-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0045	4-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0046	4-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0051	5-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0052	5-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0053	5-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0054	5-WS-4	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0055	5-WS-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0056	5-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0057	5-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0058	5-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0064	6-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0065	6-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0066	6-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0080	7-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0081	7-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0082	7-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

end

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analyses	L A Lyons	10/14/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0008	1-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0009	1-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0010	1-P-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0011	1-P-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0012	1-P-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0021	2-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0022	2-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0023	2-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0024	2-P-4	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0025	2-P-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0034	3-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0035	3-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0036	3-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0037	3-P-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0038	3-P-5	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0047	4-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0048	4-P-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0049	4-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0050	4-P-4	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analyses	L Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0059	5-P-1	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0060	5-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0061	5-BG-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0062	5-BG-2	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0063	5-BG-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360
Contact Name: Larry Lyons
Contact Phone: (732)494-4075

No: 0-360-10/16/08-0003

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0075	6-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0076	6-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0077	6-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0078	6-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0079	6-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0089	7-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0090	7-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0091	7-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0092	7-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0093	7-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0094	7-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0095	7-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0004

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0071	6-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0072	6-C-6	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0073	6-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0074	6-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0083	7-C-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0084	7-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

(ev)

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Myers	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0005

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0067	6-C-1	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0068	6-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0069	6-C-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0070	6-C-4	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0006

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0085	7-C-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0086	7-C-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0087	7-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0088	7-C-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. A Lyons	10/16/08									

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Cornell Dubilier Biological Sampling
South Plainfield, New Jersey

April 2009

EPA Work Assignment No. 0-360
LOCKHEED MARTIN Work Order EAC00360
EPA Contract No. EP-C-04-032

Submitted to
M. Sprenger
EPA-ERT

V. Kansal Analytical Section Leader	4/29/09 Date	Analysis by: PACE
D. Killeen Quality Assurance Officer	4/24/09 Date	Prepared by: Y. Mehra
D. Miller Program Manager	4/28/09 Date	Reviewed by: J. Soroka

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Appendix A Data for PCB Congeners in Tissue T 398

The appendix will be furnished on request

Introduction

REAC personnel, in response to WA# 0-360, provided analytical support for environmental samples collected from the Cornell Dubilier Biological Sampling Site in South Plainfield, NJ as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-360-10/16/08-0001	3	09/30/08	10/17/08	CARCASS	PCB Congeners/ SW846 Method 1668A	PACE Analytical[1]	T 398
	2	10/01/08					
	3	10/02/08					
0-360-10/16/08-0002	4	09/30/08					
	2	10/02/08					
0-360-10/16/08-0003	2	10/01/08					
0-360-10/16/08-0005	1						
0-360-10/16/08-0006	1						

[1] PACE Analytical Services is NELAC certified for PCB analysis in tissue

Case Narrative

This report details the results for the CARCASS samples submitted to the lab. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables.

The laboratory performed a method detection limit (MDL) study and reported results greater than the MDL. Results greater than the MDL and less than the reporting limit are qualified estimated (J); the MDLs are not reported in the attached tables.

The laboratory did not provide percent solids data and these results could not be confirmed in the validation process. Labeled internal standard 169L is not averaged for the hexa group congeners as per the laboratory. It is used only to quantitate the native congener 169. Congeners are referred by the IUPAC congener number. Results are based on the RLs. Results less than the RL are not reported by the laboratory.

PCB Congeners in Tissue Package T 398

Method blank MBLK-18161 contained congeners 11and 15. The concentration of congener 11 is qualified non-detect (U) for samples 0-360-0005 (1-WS-5-CARCASS), 0-360-0043 (4-WS-5-CARCASS), 0-360-0054 (5-WS-4-CARCASS), 0-360-0065 (6-WS-2-CARCASS), 0-360-0081 (7-WS-2-CARCASS), 0-360-0009 (1-P-2-CARCASS), 0-360-0023 (2-P-3-CARCASS), 0-360-0036 (3-P-3-CARCASS), 0-360-0049 (4-P-3-CARCASS), 0-360-0060 (5-P-2-CARCASS), 0-360-0063 (5-BG-3-CARCASS), 0-360-0088 (7-C-6-CARCASS), 0-360-0069 (6-C-3-CARCASS), 0-360-0076 (6-BG-2-CARCASS) and 0-360-0092 (7-BG-2-CARCASS) and the concentration of congener 15 is qualified non-detect (U) for samples 0-360-0005 (1-WS-5-CARCASS) because the sample results were less than five times the blank concentration.

Labeled internal standard Hexa-CB (169L) did not meet percent recovery limits for samples 0-360-0028 (3-WS-3-CARCASS), 0-360-0036 (3-P-3-CARCASS), 0-360-0063 (5-BG-3-CARCASS) and 0-360-0088 (7-C-6-CARCASS). Congener 169 is qualified estimated (J) for these samples

Labeled internal standards Hexa-CB (169L), Hepta-CB (188L), Octa-CB (202L) and Deca-CB (209L) did not meet percent recovery limits for sample 0-360-0043 (4-WS-5-CARCASS). Congeners 169, 170-188, 190-204 and 209 are qualified estimated (J) for this sample.

Labeled internal standards Hepta-CB (188L) and Octa-CB (202L) did not meet percent recovery limits for sample 0-360-0065 (6-WS-2-CARCASS). Congeners 170-188 and 190-204 are qualified estimated (J) for this sample.

Labeled internal standards Hepta-CB (188L), Octa-CB (202L) and Deca-CB (209L) did not meet percent recovery limits for samples 0-360-0081 (7-WS-2-CARCASS) and 0-360-0049 (4-P-3-CARCASS). Congeners 170-188, 190-204 and 209 are qualified estimated (J) for these samples.

Labeled internal standard Hepta-CB (188L) did not meet percent recovery limits for samples 0-360-0023 (2-P-3-CARCASS) and 0-360-0060 (5-P-2-CARCASS). Congeners 170-188 and 190-193 are qualified estimated (J) for these samples.

Labeled internal standards Tri-CB (37L), Tetra (77L), Hexa-CB (156/157L) and Hexa-CB (167L) did not meet percent recovery limits for samples 0-360-0069 (6-C-3-CARCASS). Congeners 16-18, 20-39, 40-43, 45, 46, 48, 50, 52, 53, 55-64, 66-68, 70-80, 128, 130-137, 139-151, 153, 154, 156-162 and 164-167 are qualified estimated (J) for this sample.

During sample analysis, the following lock mass ions exhibited a significant shift indicating loss of sensitivity at the retention times (RT) used for the monitoring of the PCB congeners for the homologue series. The impacted congeners are qualified as follows:

For sample 0-360-0005 (1-WS-5-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 190, 198, 199 and 208 for this sample are qualified estimated (J).

For sample 0-360-0014 (2-WS-2-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 190, 191, 198, 199 and 208 for this sample are qualified estimated (J).

For sample 0-360-0018 (2-WS-6-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 170, 190, 198, 199 and 208for this sample are qualified estimated (J).

For sample 0-360-0028 (3-WS-3-CARCASS), lock mass ions 280.9824, 330.9792, 380.976 and 442.9728 exhibited significant shifts. Congeners 36, 39, 43, 48, 57, 58, (61/70/74/76), 66, 79, 83, 84, (85/116/117), (88/91), 114, 122, 130, (134/143), 141, 144, 146, 158, 169, 176, 178, (180/193), 184, 188, 191, 192, 196, 198, 199, 203, and 208 for this sample are qualified estimated (J).

For sample 0-360-0043 (4-WS-5-CARCASS) lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 172, (180/193), 192, 197, 200, 201, 204 and 208 for this sample are qualified estimated (J).

For sample 0-360-0054 (5-WS-4-CARCASS), lock mass ions 230.9856, 280.9824, 380.976 and 442.9728 exhibited significant shifts. Congeners 19, 37, (40/41/71), (49/69), 52, 64, 169, 170, (180/193), 190, 191, 196, (198/199), 201, 203 and 208 for this sample are qualified estimated (J).

Congeners (49/69) and 95 in sample 0-360-0054 (5-WS-4-CARCASS) show presence of peak saturation at their respective RT. Congeners (49/69) and 95 are qualified estimated (J).

For sample 0-360-0065 (6-WS-2-CARCASS), lock mass ions 230.9856, 380.976 and 442.9728 exhibited significant shifts. Congeners 5, 8, 19, 118, 123, 127, 132, 137, 169, 170, 176, 184, 192, (198/199), 201 and 208 for this sample are qualified estimated (J).

For sample 0-360-0081 (7-WS-2-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 170, (180/193), 190, 191, 196, (198/199), 203 and 208 for this sample are qualified estimated (J).

For sample 0-360-0009 (1-P-2-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 170, (180/193), 190, 191, (198/199), 201 and 208 for this sample are qualified estimated (J).

For sample 0-360-0023 (2-P-3-CARCASS), lock mass ion 380.976 exhibited significant shifts. Congeners 169, 170, 191 and (198/199) for this sample are qualified estimated (J).

For sample 0-360-0036 (3-P-3-CARCASS), lock mass ion 380.976 exhibited significant shifts. Congeners 132, 150, 152, 155, 164, 169, 170, 176, (180/193), 190, 191, (198/199) and 201 for this sample are qualified estimated (J).

Congeners 1 and 3 did not met the percent RSD criteria in the continuing calibration MIX209-(11/22/08) for sample 0-360-0036 (3-P-3-CARCASS). Congeners 1 and 3 are qualified estimated (J).

For sample 0-360-0049 (4-P-3-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 190, 191, (198/199), 201 and 208 for this sample are qualified estimated (J).

For sample 0-360-0060 (5-P-2-CARCASS), lock mass ion 380.976 exhibited significant shifts. Congeners 169, 170, 190, 191, (198/199) and 201 for this sample are qualified estimated (J).

Congeners (129/138/163) for sample 0-360-0060 (5-P-2-CARCASS) show the presence of peak saturation at their RT. Congeners (129/138/163) are qualified estimated (J).

For sample 0-360-0063 (5-BG-3-CARCASS), lock mass ion 380.976 exhibited significant shifts. Congeners 169, 170, 177, (180/193), 190, 191, (198/199) and 201 for this sample are qualified estimated (J).

For sample 0-360-0088 (7-C-6-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 190, (198/199) and 208 for this sample are qualified estimated (J).

For sample 0-360-0069 (6-C-3-CARCASS), lock mass ions 230.9856, 280.9824 and 380.976 exhibited significant shifts. Congeners 5, 8, 43, 169, 170, 190, 191 and (198/199) for this sample are qualified estimated (J).

Congener 118 for sample 0-360-0069 (6-C-3-CARCASS) shows the presence of peak saturation. Congener 118 is qualified estimated (J).

For sample 0-360-0076 (6-BG-2-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 162, 169, 177 190, 191, (198/199), 201, 202 and 208 for this sample are qualified estimated (J).

For sample 0-360-0092 (7-BG-2-CARCASS), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 170, 191, (198/199) and 208 for this sample are qualified estimated (J).

Percent RPD for congeners 4, 15, 19, 37, 54, 81, 123, 114, 167, 156/157, 189 and 105 and percent recovery for congener 126 for the MS/MSD of sample 0-360-0023 (2-P-3-CARCASS) did not meet acceptable QC limits. Congeners 4, 15, 19, 37, 54, 81, 123, 114, 105, 126, 167, 156/157 and 189 are qualified estimated (J) for sample 0-360-0023.

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
PAL	Performance Acceptance Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated
N	Presumptively present		

Rev. 1/14/09

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008		0-360-0005		
Sample Location		Method Blank-18161		1-WS-5-CARCASS		
Percent Solids		100		22.9		
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	U	1.90	10.2		3.96
3-MoCB	2	U	1.90	U		3.96
4-MoCB	3	U	1.90	U		3.96
2,2'-DiCB	4	7.06	1.90	157		3.96
2,6-DiCB	10	U	1.90	11.7		3.96
2,5-DiCB	9	U	1.90	7.19	EMPC	3.96
2,4-DiCB	7	U	1.90	5.76	EMPC	3.96
2,3'-DiCB	6	U	1.90	42.5		3.96
2,3-DiCB	5	U	1.90	U		3.96
2,4'-DiCB	8	10.9	1.90	83.7		3.96
3,5-DiCB	14	U	1.90	U		3.96
3,3'-DiCB	11	63.7	1.90	U		38.4
(12/13)	12/13	U	3.80	U		7.92
4,4'-DiCB	15	4.51	1.90	U		15.0
2,2',6-TrCB	19	4.13	1.90	206		3.96
(18/30)	18/30	24.3	3.80	548		7.92
2,2',4-TrCB	17	14.2	1.90	435		3.96
2,3',6-TrCB	27	3.89	1.90	173		3.96
2,3,6-TrCB	24	U	1.90	15	EMPC	3.96
2,2',3-TrCB	16	12	1.90	254		3.96
2,4',6-TrCB	32	8.85	1.90	750		3.96
2,3',5'-TrCB	34	U	1.90	11.5		3.96
2,3,5-TrCB	23	U	1.90	U		3.96
(26/29)	26/29	5.05	3.80	659		7.92
2,3',4-TrCB	25	U	1.90	234		3.96
2,4',5-TrCB	31	25.4	1.90	763		3.96
(20/28)	20/28	31.8	3.80	2230		7.92
(21/33)	21/33	17.2	3.80	249		7.92
2,3,4'-TrCB	22	13.2	1.90	337		3.96
3,3',5-TrCB	36	U	1.90	U		3.96
3,4',5-TrCB	39	U	1.90	12.1		3.96
3,4,5-TrCB	38	U	1.90	4.84	EMPC	3.96
3,3',4-TrCB	35	U	1.90	U		3.96
3,4,4'-TrCB	37	8.56	1.90	88		3.96
2,2',6,6'-TeCB	54	U	1.90	18		3.96
(50/53)	50/53	6.17	3.80	1350		7.92
(45/51)	45/51	9.33	3.80	1350		7.92
2,2',3,6'-TeCB	46	2.42	1.90	398		3.96
2,2',5,5'-TeCB	52	48.3	1.90	4990		3.96
2,3',5',6-TeCB	73	U	1.90	60.5		3.96
2,2',3,5-TeCB	43	U	1.90	105		3.96
(49/69)	49/69	26	3.80	5470		7.92
2,2',4,5-TeCB	48	5.77	1.90	488		3.96
(44/47/65)	44/47/65	38.8	5.70	7070		11.9
(59/62/75)	59/62/75	U	5.70	655		11.9
2,2',3,4'-TeCB	42	9.7	1.90	1620		3.96
(40/41/71)	40/41/71	19.3	5.70	2940		11.9
2,3,4',6-TeCB	64	14.7	1.90	2630		3.96
2,3',5,5'-TeCB	72	U	1.90	168		3.96
2,3',4,5'-TeCB	68	U	1.90	109		3.96
2,3,3',5-TeCB	57	U	1.90	52.5		3.96
2,3,3',5'-TeCB	58	U	1.90	41.9		3.96
2,3',4,5-TeCB	67	U	1.90	64.5		3.96
2,3,4',5-TeCB	63	U	1.90	229		3.96
(61/70/74/76)	61/70/74/76	37.2	7.60	6880		15.8

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008			0-360-0005	
Sample Location		Method Blank-18161			1-WS-5-CARCASS	
Percent Solids		100			22.9	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg		Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	22.7	1.90		5180		3.96
2,3,3',4-TeCB	55	U	1.90		U		3.96
2,3,3',4'-TeCB	56	10.5	1.90		1210		3.96
2,3,4,4'-TeCB	60	7.73	1.90		776		3.96
3,3',5,5'-TeCB	80	U	1.90		U		3.96
3,3',4,5'-TeCB	79	U	1.90		159		3.96
3,3',4,5-TeCB	78	U	1.90		U		3.96
3,4,4',5-TeCB	81	U	1.90		27.2		3.96
3,3',4,4'-TeCB	77	2.39	1.90		272		3.96
2,2',4,6,6'-PeCB	104	U	1.90		U		3.96
2,2',3,6,6'-PeCB	96	U	1.90		131		3.96
2,2',4,5',6-PeCB	103	U	1.90		198		3.96
2,2',3,5,6'-PeCB	94	U	1.90		123		3.96
2,2',3,5',6-PeCB	95	26.7	1.90		15900		3.96
(93/98/100/102)	93/98/100/102	U	7.60		999		15.8
(88/91)	88/91	5.24	3.80		4480		7.92
2,2',3,3',6-PeCB	84	8.38	1.90		4520		3.96
2,2',3,4,6'-PeCB	89	U	1.90		244		3.96
2,3',4,5',6-PeCB	121	U	1.90		6.4		3.96
2,2',3,5,5'-PeCB	92	6.06	1.90		4490		3.96
(90/101/113)	90/101/113	36.4	5.70		21700		11.9
2,2',3,3',5-PeCB	83	U	1.90		1050		3.96
2,2',4,4',5-PeCB	99	16.3	1.90		12800		3.96
2,3,3',5,6-PeCB	112	U	1.90		U		3.96
(86/87/97/108/119/125)	86/87/97/108/119/125	27.2	11.4		13800		23.8
(85/117/116)	85/116/117	U	5.70		4770		11.9
(110/115)	110/115	35.7	3.80		34300		7.92
2,2',3,3',4-PeCB	82	3.29	1.90		2050		3.96
2,3,3',5,5'-PeCB	111	U	1.90		16.1		3.96
2,3',4,5,5'-PeCB	120	U	1.90		69.6		3.96
(107/124)	107/124	U	3.80		674		7.92
2,3,3',4,6-PeCB	109	2	1.90		1220		3.96
2,3',4,4',5'-PeCB	123	U	1.90		337		3.96
2,3,3',4,5-PeCB	106	U	1.90		U		3.96
2,3',4,4',5-PeCB	118	22.9	1.90		14400		3.96
2,3,3',4',5'-PeCB	122	U	1.90		191		3.96
2,3,4,4',5-PeCB	114	U	1.90		266		3.96
2,3,3',4,4'-PeCB	105	8.13	1.90		5240		3.96
3,3',4,5,5'-PeCB	127	U	1.90		47.6		3.96
3,3',4,4',5-PeCB	126	U	1.90		65.1	EMPC	3.96
2,2',4,4',6,6'-HxCB	155	U	1.90		U		3.96
2,2',3,5,6,6'-HxCB	152	U	1.90		22.3		3.96
2,2',3,4',6,6'-HxCB	150	U	1.90		31.9		3.96
2,2',3,3',6,6'-HxCB	136	4.77	1.90		2720		3.96
2,2',3,4,6,6'-HxCB	145	U	1.90		10.5		3.96
2,2',3,4',5,6'-HxCB	148	U	1.90		29.6		3.96
(135/151)	135/151	12.2	3.80		10200		7.92
2,2',4,4',5,6'-HxCB	154	U	1.90		250		3.96
2,2',3,4,5',6-HxCB	144	2.06	1.90		1460		3.96
(147/149)	147/149	27.6	3.80		26700		7.92
(134/143)	134/143	U	3.80		1230		7.92
(139/140)	139/140	U	3.80		620		7.92
2,2',3,3',4,6-HxCB	131	U	1.90		400		3.96
2,2',3,4,5,6-HxCB	142	U	1.90		5.5	EMPC	3.96
2,2',3,3',4,6'-HxCB	132	11.8	1.90		9100		3.96
2,2',3,3',5,5'-HxCB	133	U	1.90		498		3.96

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008		0-360-0005		
Sample Location		Method Blank-18161		1-WS-5-CARCASS		
Percent Solids		100		22.9		
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	U	1.90	14		3.96
2,2',3,4',5,5'-HxCB	146	5.09	1.90	5570		3.96
2,3,3',4,5',6-HxCB	161	U	1.90	U		3.96
(153/168)	153/168	28.7	3.80	29800		7.92
2,2',3,4,5,5'-HxCB	141	6.45	1.90	5250		3.96
2,2',3,3',4,5'-HxCB	130	U	1.90	1850		3.96
2,2',3,4,4',5-HxCB	137	U	1.90	1970		3.96
2,3,3',4',5',6-HxCB	164	2.36	1.90	2170		3.96
(129/138/163)	129/138/163	36.2	5.70	37700		11.9
2,3,3',4,5,6-HxCB	160	U	1.90	U		3.96
2,3,3',4,4',6-HxCB	158	3.59	1.90	3300		3.96
(128/166)	128/166	4.54	3.80	4660		7.92
2,3,3',4,5,5'-HxCB	159	U	1.90	11.5	EMPC	3.96
2,3,3',4',5,5'-HxCB	162	U	1.90	175		3.96
2,3',4,4',5,5'-HxCB	167	U	1.90	1120		3.96
(156/157)	156/157	U	3.80	2450		7.92
3,3',4,4',5,5'-HxCB	169	U	1.90	15	EMPC	3.96
2,2',3,4',5,6,6'-HpCB	188	U	1.90	9.22		3.96
2,2',3,3',5,6,6'-HpCB	179	3.25	1.90	2240		3.96
2,2',3,4,4',6,6'-HpCB	184	U	1.90	7.45		3.96
2,2',3,3',4,6,6'-HpCB	176	U	1.90	747		3.96
2,2',3,4,5,6,6'-HpCB	186	U	1.90	U		3.96
2,2',3,3',5,5',6-HpCB	178	U	1.90	1550		3.96
2,2',3,3',4,5',6-HpCB	175	U	1.90	272		3.96
2,2',3,4',5,5',6-HpCB	187	7.92	1.90	15200		3.96
2,2',3,4,4',5,6'-HpCB	182	U	1.90	32.9		3.96
(183/185)	183/185	4.48	3.80	4990		7.92
2,2',3,3',4,5,6'-HpCB	174	6.86	1.90	4500		3.96
2,2',3,3',4,5',6'-HpCB	177	4.4	1.90	3350		3.96
2,2',3,4,4',5,6-HpCB	181	U	1.90	65.9		3.96
(171/173)	171/173	U	3.80	1800		7.92
2,2',3,3',4,5,5'-HpCB	172	U	1.90	1070		3.96
2,3,3',4,5,5',6-HpCB	192	U	1.90	U		3.96
(180/193)	180/193	12.3	3.80	11300		7.92
2,3,3',4,4',5',6-HpCB	191	U	1.90	221		3.96
2,2',3,3',4,4',5-HpCB	170	6.35	1.90	4410		3.96
2,3,3',4,4',5,6-HpCB	190	U	1.90	758	J	3.96
2,3,3',4,4',5,5'-HpCB	189	U	1.90	155		3.96
2,2',3,3',5,5',6,6'-OcCB	202	U	1.90	449		3.96
2,2',3,3',4,5',6,6'-OcCB	201	U	1.90	312		3.96
2,2',3,4,4',5,6,6'-OcCB	204	U	1.90	U		3.96
(197/200)	197/200	U	3.80	328		7.92
(198/199)	198/199	U	3.80	1740	J	7.92
2,2',3,3',4,4',5,6'-OcCB	196	U	1.90	796		3.96
2,2',3,4,4',5,5',6-OcCB	203	U	1.90	1460		3.96
2,2',3,3',4,4',5,6-OcCB	195	U	1.90	601		3.96
2,2',3,3',4,4',5,5'-OcCB	194	U	1.90	1110		3.96
2,3,3',4,4',5,5',6-OcCB	205	U	1.90	78.5		3.96
2,2',3,3',4,5,5',6,6'-NoCB	208	U	1.90	208	J	3.96
2,2',3,3',4,4',5,6,6'-NoCB	207	U	1.90	77.2		3.96
2,2',3,3',4,4',5,5',6-NoCB	206	U	1.90	586		3.96
Decachlorobiphenyl	209	U	1.90	261		3.96

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008		0-360-0005	
Sample Location		Method Blank-18161		1-WS-5-CARCASS	
Percent Solids		100		22.9	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		U		10.2	
Total Dichloro Biphenyls		86.2		349	
Total Trichloro Biphenyls		169		6940	
Total Tetrachloro Biphenyls		261		44300	
Total Pentachloro Biphenyls		198		144000	
Total Hexachloro Biphenyls		145		149000	
Total Heptachloro Biphenyls		45.5		52700	
Total Octachloro Biphenyls		U		6880	
Total Nonachloro Biphenyls		U		871	
Decachloro Biphenyls		U		261	
Total PCBS		905		406000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014		0-360-0018		
Sample Location		2-WS-2-CARCASS		2-WS-6-CARCASS		
Percent Solids		22.2		22.7		
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	2600	7.87	1410		10.7
3-MoCB	2	U	7.87	U		10.7
4-MoCB	3	69	7.87	52.7	EMPC	10.7
2,2'-DiCB	4	42300	7.87	17200		10.7
2,6-DiCB	10	2970	7.87	1530		10.7
2,5-DiCB	9	1550	7.87	521		10.7
2,4-DiCB	7	890	7.87	324		10.7
2,3'-DiCB	6	5930	7.87	2030		10.7
2,3-DiCB	5	263	7.87	85.1		10.7
2,4'-DiCB	8	28500	7.87	9370		10.7
3,5-DiCB	14	U	7.87	U		10.7
3,3'-DiCB	11	1720	7.87	669		10.7
(12/13)	12/13	704	15.7	384		21.3
4,4'-DiCB	15	1130	7.87	886		10.7
2,2',6-TrCB	19	47500	7.87	19100		10.7
(18/30)	18/30	31400	15.7	11800		21.3
2,2',4-TrCB	17	85600	7.87	30500		10.7
2,3',6-TrCB	27	68600	7.87	24000		10.7
2,3,6-TrCB	24	U	7.87	U		10.7
2,2',3-TrCB	16	14300	7.87	4720		10.7
2,4',6-TrCB	32	55000	7.87	22200		10.7
2,3',5'-TrCB	34	1180	7.87	525		10.7
2,3,5-TrCB	23	65.8	7.87	28.8		10.7
(26/29)	26/29	31100	15.7	12900		21.3
2,3',4-TrCB	25	18200	7.87	7260		10.7
2,4',5-TrCB	31	23900	7.87	17100		10.7
(20/28)	20/28	96100	15.7	59900		21.3
(21/33)	21/33	8520	15.7	5690		21.3
2,3,4'-TrCB	22	8170	7.87	5570		10.7
3,3',5-TrCB	36	U	7.87	U		10.7
3,4',5-TrCB	39	322	7.87	290		10.7
3,4,5-TrCB	38	U	7.87	U		10.7
3,3',4-TrCB	35	U	7.87	U		10.7
3,4,4'-TrCB	37	2500	7.87	1730		10.7
2,2',6,6'-TeCB	54	5690	7.87	2240		10.7
(50/53)	50/53	85200	15.7	36100		21.3
(45/51)	45/51	91600	15.7	41400		21.3
2,2',3,6'-TeCB	46	17600	7.87	7080		10.7
2,2',5,5'-TeCB	52	312000	7.87	351000		10.7
2,3',5',6-TeCB	73	9540	7.87	U		10.7
2,2',3,5-TeCB	43	3500	7.87	2510		10.7
(49/69)	49/69	430000	15.7	277000		21.3
2,2',4,5-TeCB	48	13700	7.87	12400		10.7
(44/47/65)	44/47/65	574000	23.6	405000		32
(59/62/75)	59/62/75	18700	23.6	11900		32
2,2',3,4'-TeCB	42	69900	7.87	44300		10.7
(40/41/71)	40/41/71	129000	23.6	82800		32
2,3,4',6-TeCB	64	83600	7.87	81700		10.7
2,3',5,5'-TeCB	72	14400	7.87	8900		10.7
2,3',4,5'-TeCB	68	19000	7.87	12200		10.7
2,3,3',5-TeCB	57	2280	7.87	3890		10.7
2,3,3',5'-TeCB	58	1780	7.87	1200		10.7
2,3',4,5-TeCB	67	2830	7.87	1840		10.7
2,3,4',5-TeCB	63	15300	7.87	12800		10.7
(61/70/74/76)	61/70/74/76	539000	31.5	641000		42.7

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014			0-360-0018		
Sample Location		2-WS-2-CARCASS			2-WS-6-CARCASS		
Percent Solids		22.2			22.7		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	327000		7.87	301000		10.7
2,3,3',4-TeCB	55	U		7.87	U		10.7
2,3,3',4'-TeCB	56	43100		7.87	48600		10.7
2,3,4,4'-TeCB	60	23600		7.87	27000		10.7
3,3',5,5'-TeCB	80	U		7.87	U		10.7
3,3',4,5'-TeCB	79	10700		7.87	12500		10.7
3,3',4,5-TeCB	78	U		7.87	U		10.7
3,4,4',5-TeCB	81	474	EMPC	7.87	579	EMPC	10.7
3,3',4,4'-TeCB	77	4790		7.87	4580		10.7
2,2',4,6,6'-PeCB	104	567		7.87	258		10.7
2,2',3,6,6'-PeCB	96	5560		7.87	4060		10.7
2,2',4,5',6-PeCB	103	11400		7.87	7080		10.7
2,2',3,5,6'-PeCB	94	11500		7.87	6330		10.7
2,2',3,5',6-PeCB	95	643000		7.87	628000		10.7
(93/98/100/102)	93/98/100/102	59000		31.5	45900		42.7
(88/91)	88/91	193000		15.7	185000		21.3
2,2',3,3',6-PeCB	84	228000		7.87	232000		10.7
2,2',3,4,6'-PeCB	89	6200		7.87	6690		10.7
2,3',4,5',6-PeCB	121	397		7.87	277		10.7
2,2',3,5,5'-PeCB	92	217000		7.87	214000		10.7
(90/101/113)	90/101/113	1070000		236	1740000		160
2,2',3,3',5-PeCB	83	53300		7.87	47000		10.7
2,2',4,4',5-PeCB	99	643000		78.7	1090000		53.3
2,3,3',5,6-PeCB	112	U		7.87	U		10.7
(86/87/97/108/119/125)	86/87/97/108/119/125	1050000		47.2	1200000		64
(85/117/116)	85/116/117	289000		23.6	324000		32
(110/115)	110/115	1390000		157	2150000		107
2,2',3,3',4-PeCB	82	116000		7.87	142000		10.7
2,3,3',5,5'-PeCB	111	680		7.87	795		10.7
2,3',4,5,5'-PeCB	120	2000		7.87	2450		10.7
(107/124)	107/124	47400		15.7	61800		21.3
2,3,3',4,6-PeCB	109	101000		7.87	113000		10.7
2,3',4,4',5'-PeCB	123	28900		7.87	30700		10.7
2,3,3',4,5-PeCB	106	U		7.87	U		10.7
2,3',4,4',5-PeCB	118	849000		78.7	1310000		53.3
2,3,3',4',5'-PeCB	122	12800		7.87	14100		10.7
2,3,4,4',5-PeCB	114	41800		7.87	48700		10.7
2,3,3',4,4'-PeCB	105	511000		7.87	609000		10.7
3,3',4,5,5'-PeCB	127	2070		7.87	2930		10.7
3,3',4,4',5-PeCB	126	2250	EMPC	7.87	1120	EMPC	10.7
2,2',4,4',6,6'-HxCB	155	65.7		7.87	52.6		10.7
2,2',3,5,6,6'-HxCB	152	1390		7.87	1340		10.7
2,2',3,4',6,6'-HxCB	150	1740		7.87	1640		10.7
2,2',3,3',6,6'-HxCB	136	107000		7.87	125000		10.7
2,2',3,4,6,6'-HxCB	145	572		7.87	642		10.7
2,2',3,4',5,6'-HxCB	148	1350		7.87	1310		10.7
(135/151)	135/151	243000		15.7	296000		21.3
2,2',4,4',5,6'-HxCB	154	12100		7.87	13500		10.7
2,2',3,4,5',6-HxCB	144	46000		7.87	67500		10.7
(147/149)	147/149	720000		15.7	1060000		21.3
(134/143)	134/143	59600		15.7	76000		21.3
(139/140)	139/140	38300		15.7	47800		21.3
2,2',3,3',4,6-HxCB	131	24800		7.87	33000		10.7
2,2',3,4,5,6-HxCB	142	U		7.87	U		10.7
2,2',3,3',4,6'-HxCB	132	424000		7.87	523000		10.7
2,2',3,3',5,5'-HxCB	133	20400		7.87	22700		10.7

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014			0-360-0018		
Sample Location		2-WS-2-CARCASS			2-WS-6-CARCASS		
Percent Solids		22.2			22.7		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	426		7.87	358		10.7
2,2',3,4',5,5'-HxCB	146	199000		7.87	255000		10.7
2,3,3',4,5',6-HxCB	161	U		7.87	U		10.7
(153/168)	153/168	1160000		157	1720000		107
2,2',3,4,5,5'-HxCB	141	179000		7.87	274000		10.7
2,2',3,3',4,5'-HxCB	130	113000		7.87	136000		10.7
2,2',3,4,4',5-HxCB	137	138000		7.87	175000		10.7
2,3,3',4',5',6-HxCB	164	81600		7.87	115000		10.7
(129/138/163)	129/138/163	1900000		236	2450000		160
2,3,3',4,5,6-HxCB	160	U		7.87	U		10.7
2,3,3',4,4',6-HxCB	158	198000		7.87	268000		10.7
(128/166)	128/166	334000		15.7	411000		21.3
2,3,3',4,5,5'-HxCB	159	467		7.87	171	EMPC	10.7
2,3,3',4',5,5'-HxCB	162	4040		7.87	5650		10.7
2,3',4,4',5,5'-HxCB	167	71300		7.87	101000		10.7
(156/157)	156/157	248000		15.7	323000		21.3
3,3',4,4',5,5'-HxCB	169	101	EMPC	7.87	155	EMPC	10.7
2,2',3,4',5,6,6'-HpCB	188	153		7.87	159		10.7
2,2',3,3',5,6,6'-HpCB	179	20500		7.87	30100		10.7
2,2',3,4,4',6,6'-HpCB	184	142		7.87	153		10.7
2,2',3,3',4,6,6'-HpCB	176	10400		7.87	17100		10.7
2,2',3,4,5,6,6'-HpCB	186	64.3		7.87	86.5		10.7
2,2',3,3',5,5',6-HpCB	178	14500		7.87	21400		10.7
2,2',3,3',4,5',6-HpCB	175	4150		7.87	7080		10.7
2,2',3,4',5,5',6-HpCB	187	96300		7.87	162000		10.7
2,2',3,4,4',5,6'-HpCB	182	985		7.87	1410		10.7
(183/185)	183/185	61500		15.7	122000		21.3
2,2',3,3',4,5,6'-HpCB	174	47900		7.87	93200		10.7
2,2',3,3',4,5',6'-HpCB	177	46000		7.87	77600		10.7
2,2',3,4,4',5,6-HpCB	181	4030		7.87	5470		10.7
(171/173)	171/173	43600		15.7	71000		21.3
2,2',3,3',4,5,5'-HpCB	172	16700		7.87	30400		10.7
2,3,3',4,5,5',6-HpCB	192	U		7.87	14.5	EMPC	10.7
(180/193)	180/193	160000		15.7	354000		21.3
2,3,3',4,4',5',6-HpCB	191	4870	J	7.87	8750		10.7
2,2',3,3',4,4',5-HpCB	170	136000		7.87	229000	J	10.7
2,3,3',4,4',5,6-HpCB	190	8070	J	7.87	27900	J	10.7
2,3,3',4,4',5,5'-HpCB	189	6140		7.87	10200		10.7
2,2',3,3',5,5',6,6'-OcCB	202	2270		7.87	3590		10.7
2,2',3,3',4,5',6,6'-OcCB	201	1830		7.87	3590		10.7
2,2',3,4,4',5,6,6'-OcCB	204	11.3		7.87	14.7		10.7
(197/200)	197/200	1850		15.7	4020		21.3
(198/199)	198/199	13400	J	15.7	27400	J	21.3
2,2',3,3',4,4',5,6'-OcCB	196	7360		7.87	17900		10.7
2,2',3,4,4',5,5',6-OcCB	203	11400		7.87	25100		10.7
2,2',3,3',4,4',5,6-OcCB	195	5910		7.87	14100		10.7
2,2',3,3',4,4',5,5'-OcCB	194	12100		7.87	31100		10.7
2,3,3',4,4',5,5',6-OcCB	205	698		7.87	1700		10.7
2,2',3,3',4,5,5',6,6'-NoCB	208	1060	J	7.87	1400	J	10.7
2,2',3,3',4,4',5,6,6'-NoCB	207	552		7.87	919		10.7
2,2',3,3',4,4',5,5',6-NoCB	206	4130		7.87	6590		10.7
Decachlorobiphenyl	209	849		7.87	667		10.7

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014		0-360-0018	
Sample Location		2-WS-2-CARCASS		2-WS-6-CARCASS	
Percent Solids		22.2		22.7	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		2670		1410	
Total Dichloro Biphenyls		85900		33000	
Total Trichloro Biphenyls		493000		223000	
Total Tetrachloro Biphenyls		2850000		2430000	
Total Pentachloro Biphenyls		7580000		10200000	
Total Hexachloro Biphenyls		6330000		8490000	
Total Heptachloro Biphenyls		681000		1270000	
Total Octachloro Biphenyls		56900		128000	
Total Nonachloro Biphenyls		5740		8910	
Decachloro Biphenyls		849		667	
Total PCBS		18100000		22800000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028			0-360-0043	
Sample Location		3-WS-3-CARCASS			4-WS-5-CARCASS	
Percent Solids		24.5			22.3	
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	5300		3.96	420	4.19
3-MoCB	2	18.7		3.96	U	4.19
4-MoCB	3	198		3.96	13.2	4.19
2,2'-DiCB	4	93700		3.96	9180	4.19
2,6-DiCB	10	8550		3.96	840	4.19
2,5-DiCB	9	3430		3.96	230	4.19
2,4-DiCB	7	2030		3.96	154	4.19
2,3'-DiCB	6	14500		3.96	1140	4.19
2,3-DiCB	5	552		3.96	34.6	4.19
2,4'-DiCB	8	41700		3.96	2330	4.19
3,5-DiCB	14	U		3.96	U	4.19
3,3'-DiCB	11	U		3.96	U	44.1
(12/13)	12/13	1350		7.92	308	8.39
4,4'-DiCB	15	4390		3.96	273	4.19
2,2',6-TrCB	19	95200		3.96	12000	4.19
(18/30)	18/30	90700		7.92	12100	8.39
2,2',4-TrCB	17	145000		3.96	27800	4.19
2,3',6-TrCB	27	115000		3.96	30200	4.19
2,3,6-TrCB	24	U		3.96	U	4.19
2,2',3-TrCB	16	34500		3.96	3640	4.19
2,4',6-TrCB	32	120000		3.96	21200	4.19
2,3',5'-TrCB	34	2160		3.96	479	4.19
2,3,5-TrCB	23	154		3.96	29.1	4.19
(26/29)	26/29	76900		7.92	24000	8.39
2,3',4-TrCB	25	33700		3.96	6700	4.19
2,4',5-TrCB	31	93700		3.96	7300	4.19
(20/28)	20/28	242000		7.92	37200	8.39
(21/33)	21/33	28100		7.92	2420	8.39
2,3,4'-TrCB	22	41400		3.96	3920	4.19
3,3',5-TrCB	36	289	EMPC	3.96	6410	4.19
3,4',5-TrCB	39	799	J	3.96	133	4.19
3,4,5-TrCB	38	358		3.96	219	4.19
3,3',4-TrCB	35	U		3.96	U	4.19
3,4,4'-TrCB	37	10400		3.96	1140	4.19
2,2',6,6'-TeCB	54	8690		3.96	1870	4.19
(50/53)	50/53	142000		7.92	56800	8.39
(45/51)	45/51	134000		7.92	41500	8.39
2,2',3,6'-TeCB	46	29500		3.96	9430	4.19
2,2',5,5'-TeCB	52	451000		39.6	118000	4.19
2,3',5',6-TeCB	73	U		3.96	U	4.19
2,2',3,5-TeCB	43	20100	EMPC	3.96	6790	4.19
(49/69)	49/69	607000		79.2	272000	8.39
2,2',4,5-TeCB	48	29200	J	3.96	4650	4.19
(44/47/65)	44/47/65	683000		119	243000	12.6
(59/62/75)	59/62/75	41400		11.9	21300	12.6
2,2',3,4'-TeCB	42	139000		3.96	36000	4.19
(40/41/71)	40/41/71	202000		11.9	73900	12.6
2,3,4',6-TeCB	64	203000		3.96	44900	4.19
2,3',5,5'-TeCB	72	24400		3.96	14400	4.19
2,3',4,5'-TeCB	68	22500		3.96	11500	4.19
2,3,3',5-TeCB	57	7640	J	3.96	3260	4.19
2,3,3',5'-TeCB	58	2450	J	3.96	1650	4.19
2,3',4,5-TeCB	67	6250		3.96	1340	4.19
2,3,4',5-TeCB	63	23500		3.96	6100	4.19

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028			0-360-0043		
Sample Location		3-WS-3-CARCASS			4-WS-5-CARCASS		
Percent Solids		24.5			22.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
(61/70/74/76)	61/70/74/76	492000	J	15.8	79700		16.8
2,3',4,4'-TeCB	66	385000	J	3.96	103000		4.19
2,3,3',4-TeCB	55	U		3.96	U		4.19
2,3,3',4'-TeCB	56	66800		3.96	10000		4.19
2,3,4,4'-TeCB	60	43000		3.96	6250		4.19
3,3',5,5'-TeCB	80	U		3.96	U		4.19
3,3',4,5'-TeCB	79	10500	J	3.96	2350		4.19
3,3',4,5-TeCB	78	U		3.96	149		4.19
3,4,4',5-TeCB	81	605	EMPC	3.96	230	EMPC	4.19
3,3',4,4'-TeCB	77	12600		3.96	2130		4.19
2,2',4,6,6'-PeCB	104	505		3.96	245		4.19
2,2',3,6,6'-PeCB	96	8950		3.96	3440		4.19
2,2',4,5',6-PeCB	103	19900		3.96	7610		4.19
2,2',3,5,6'-PeCB	94	16100		3.96	4080		4.19
2,2',3,5',6-PeCB	95	584000		39.6	225000		4.19
(93/98/100/102)	93/98/100/102	89200		15.8	22300		16.8
(88/91)	88/91	306000	J	7.92	83100		8.39
2,2',3,3',6-PeCB	84	276000	J	3.96	64900		4.19
2,2',3,4,6'-PeCB	89	8360		3.96	1660		4.19
2,3',4,5',6-PeCB	121	668		3.96	452		4.19
2,2',3,5,5'-PeCB	92	352000		3.96	96000		4.19
(90/101/113)	90/101/113	1460000		119	365000		50.3
2,2',3,3',5-PeCB	83	66400	EMPC	3.96	19600		4.19
2,2',4,4',5-PeCB	99	917000		39.6	307000		4.19
2,3,3',5,6-PeCB	112	U		3.96	U		4.19
(86/87/97/108/119/125)	86/87/97/108/119/125	955000		238	270000		25.2
(85/117/116)	85/116/117	347000	J	11.9	85100		12.6
(110/115)	110/115	1730000		79.2	509000		33.6
2,2',3,3',4-PeCB	82	163000		3.96	29300		4.19
2,3,3',5,5'-PeCB	111	2290		3.96	1380		4.19
2,3',4,5,5'-PeCB	120	7210		3.96	4280		4.19
(107/124)	107/124	61400		7.92	9960		8.39
2,3,3',4,6-PeCB	109	135000		3.96	35500		4.19
2,3',4,4',5'-PeCB	123	56200		3.96	8230		4.19
2,3,3',4,5-PeCB	106	U		3.96	U		4.19
2,3',4,4',5-PeCB	118	976000		39.6	339000		4.19
2,3,3',4',5'-PeCB	122	13600	J	3.96	2510		4.19
2,3,4,4',5-PeCB	114	52500	J	3.96	6080		4.19
2,3,3',4,4'-PeCB	105	559000		3.96	97400		4.19
3,3',4,5,5'-PeCB	127	3310		3.96	769		4.19
3,3',4,4',5-PeCB	126	6270		3.96	486		4.19
2,2',4,4',6,6'-HxCB	155	67.8		3.96	32.2		4.19
2,2',3,5,6,6'-HxCB	152	1720		3.96	478		4.19
2,2',3,4',6,6'-HxCB	150	2370		3.96	702		4.19
2,2',3,3',6,6'-HxCB	136	153000		3.96	37600		4.19
2,2',3,4,6,6'-HxCB	145	815		3.96	154		4.19
2,2',3,4',5,6'-HxCB	148	2430		3.96	679		4.19
(135/151)	135/151	520000		7.92	108000		8.39
2,2',4,4',5,6'-HxCB	154	23500		3.96	5650		4.19
2,2',3,4,5',6-HxCB	144	94700	J	3.96	15800		4.19
(147/149)	147/149	1290000		79.2	265000		8.39
(134/143)	134/143	85200	J	7.92	19600		8.39
(139/140)	139/140	65800		7.92	12200		8.39
2,2',3,3',4,6-HxCB	131	33800		3.96	6280		4.19
2,2',3,4,5,6-HxCB	142	U		3.96	U		4.19
2,2',3,3',4,6'-HxCB	132	204000		3.96	109000		4.19

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028			0-360-0043		
Sample Location		3-WS-3-CARCASS			4-WS-5-CARCASS		
Percent Solids		24.5			22.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,2',3,3',5,5'-HxCB	133	34000		3.96	9940		4.19
2,3,3',5,5',6-HxCB	165	733		3.96	735		4.19
2,2',3,4',5,5'-HxCB	146	349000	J	3.96	79600		4.19
2,3,3',4,5',6-HxCB	161	U		3.96	U		4.19
(153/168)	153/168	2010000		79.2	384000		33.6
2,2',3,4,5,5'-HxCB	141	253000	J	3.96	51400		4.19
2,2',3,3',4,5'-HxCB	130	167000	J	3.96	31700		4.19
2,2',3,4,4',5-HxCB	137	205000		3.96	38600		4.19
2,3,3',4',5',6-HxCB	164	151000		3.96	26800		4.19
(129/138/163)	129/138/163	2760000		119	506000		50.3
2,3,3',4,5,6-HxCB	160	U		3.96	U		4.19
2,3,3',4,4',6-HxCB	158	295000	J	3.96	58600		4.19
(128/166)	128/166	424000		7.92	85900		8.39
2,3,3',4,5,5'-HxCB	159	1020		3.96	39.8	EMPC	4.19
2,3,3',4',5,5'-HxCB	162	8010		3.96	2690		4.19
2,3',4,4',5,5'-HxCB	167	104000		3.96	19000		4.19
(156/157)	156/157	351000		7.92	50800		8.39
3,3',4,4',5,5'-HxCB	169	240	EMPC	3.96	39.4	EMPC	4.19
2,2',3,4',5,6,6'-HpCB	188	242	J	3.96	59.6	J	4.19
2,2',3,3',5,6,6'-HpCB	179	48900		3.96	10400	J	4.19
2,2',3,4,4',6,6'-HpCB	184	242	J	3.96	49.7	J	4.19
2,2',3,3',4,6,6'-HpCB	176	25100	J	3.96	4730	J	4.19
2,2',3,4,5,6,6'-HpCB	186	98.5		3.96	22.3	J	4.19
2,2',3,3',5,5',6-HpCB	178	34100	J	3.96	7820	J	4.19
2,2',3,3',4,5',6-HpCB	175	9960		3.96	1770	J	4.19
2,2',3,4',5,5',6-HpCB	187	354000		3.96	63300	J	4.19
2,2',3,4,4',5,6'-HpCB	182	1690		3.96	293	J	4.19
(183/185)	183/185	164000		7.92	32200	J	8.39
2,2',3,3',4,5,6'-HpCB	174	120000		3.96	20500	J	4.19
2,2',3,3',4,5',6'-HpCB	177	110000		3.96	20400	J	4.19
2,2',3,4,4',5,6-HpCB	181	6450		3.96	1100	J	4.19
(171/173)	171/173	87500		7.92	16200	J	8.39
2,2',3,3',4,5,5'-HpCB	172	40500		3.96	6620	J	4.19
2,3,3',4,5,5',6-HpCB	192	14.8	J	3.96	6.93	J	4.19
(180/193)	180/193	319000	J	7.92	54000	J	8.39
2,3,3',4,4',5',6-HpCB	191	10800	J	3.96	1720	J	4.19
2,2',3,3',4,4',5-HpCB	170	238000		3.96	37500	J	4.19
2,3,3',4,4',5,6-HpCB	190	24400		3.96	3340	J	4.19
2,3,3',4,4',5,5'-HpCB	189	12500		3.96	1890		4.19
2,2',3,3',5,5',6,6'-OcCB	202	5510		3.96	1150	J	4.19
2,2',3,3',4,5',6,6'-OcCB	201	5840		3.96	1130	J	4.19
2,2',3,4,4',5,6,6'-OcCB	204	29.9		3.96	6.47	J	4.19
(197/200)	197/200	6180		7.92	1130	J	8.39
(198/199)	198/199	33500	J	7.92	4460	J	8.39
2,2',3,3',4,4',5,6'-OcCB	196	22100	J	3.96	3390	J	4.19
2,2',3,4,4',5,5',6-OcCB	203	39300	J	3.96	5630	J	4.19
2,2',3,3',4,4',5,6-OcCB	195	18900		3.96	2840	J	4.19
2,2',3,3',4,4',5,5'-OcCB	194	36300		3.96	5060	J	4.19
2,3,3',4,4',5,5',6-OcCB	205	2400		3.96	371		4.19
2,2',3,3',4,5,5',6,6'-NoCB	208	1990	J	3.96	384	J	4.19
2,2',3,3',4,4',5,6,6'-NoCB	207	1130		3.96	212		4.19
2,2',3,3',4,4',5,5',6-NoCB	206	8680		3.96	1610		4.19
Decachlorobiphenyl	209	1370		3.96	293	J	4.19

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028		0-360-0043	
Sample Location		3-WS-3-CARCASS		4-WS-5-CARCASS	
Percent Solids		24.5		22.3	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		5510		433	
Total Dichloro Biphenyls		170000		14500	
Total Trichloro Biphenyls		1130000		197000	
Total Tetrachloro Biphenyls		3760000		1170000	
Total Pentachloro Biphenyls		9110000		2600000	
Total Hexachloro Biphenyls		9580000		1930000	
Total Heptachloro Biphenyls		1610000		284000	
Total Octachloro Biphenyls		170000		25200	
Total Nonachloro Biphenyls		11800		2200	
Decachloro Biphenyls		1370		293	
Total PCBS		25500000		6220000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054			0-360-0065		
Sample Location		5-WS-4-CARCASS			6-WS-2-CARCASS		
Percent Solids		21.8			22.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	1190		3.94	686		3.93
3-MoCB	2	8.23		3.94	U		3.93
4-MoCB	3	37.4		3.94	13.5		3.93
2,2'-DiCB	4	28100		3.94	20300		3.93
2,6-DiCB	10	2610		3.94	1890		3.93
2,5-DiCB	9	776		3.94	762		3.93
2,4-DiCB	7	472		3.94	390		3.93
2,3'-DiCB	6	3800		3.94	3140		3.93
2,3-DiCB	5	96.4		3.94	70.2	J	3.93
2,4'-DiCB	8	7750		3.94	7830	J	3.93
3,5-DiCB	14	U		3.94	U		3.93
3,3'-DiCB	11	U		42.0	U		60.9
(12/13)	12/13	968		7.89	611		7.86
4,4'-DiCB	15	1110		3.94	317		3.93
2,2',6-TrCB	19	36100	J	3.94	36100	J	3.93
(18/30)	18/30	44000		7.89	20600		7.86
2,2',4-TrCB	17	71900		3.94	63700		3.93
2,3',6-TrCB	27	95300		3.94	59000		3.93
2,3,6-TrCB	24	U		3.94	U		3.93
2,2',3-TrCB	16	13000		3.94	9220		3.93
2,4',6-TrCB	32	59500		3.94	43500		3.93
2,3',5'-TrCB	34	1280		3.94	917		3.93
2,3,5-TrCB	23	80.9		3.94	39.8		3.93
(26/29)	26/29	79200		7.89	36100		7.86
2,3',4-TrCB	25	24900		3.94	11200		3.93
2,4',5-TrCB	31	49500		3.94	21300		3.93
(20/28)	20/28	111000		7.89	72400		7.86
(21/33)	21/33	10400		7.89	6190		7.86
2,3,4'-TrCB	22	15300		3.94	8160		3.93
3,3',5-TrCB	36	U		3.94	7720		3.93
3,4',5-TrCB	39	331		3.94	195		3.93
3,4,5-TrCB	38	537		3.94	159		3.93
3,3',4-TrCB	35	U		3.94	U		3.93
3,4,4'-TrCB	37	3460	J	3.94	1330		3.93
2,2',6,6'-TeCB	54	5880		3.94	4700		3.93
(50/53)	50/53	171000		7.89	78700		7.86
(45/51)	45/51	105000		7.89	70900		7.86
2,2',3,6'-TeCB	46	29300		3.94	15000		3.93
2,2',5,5'-TeCB	52	365000	J	3.94	145000		3.93
2,3',5',6-TeCB	73	U		3.94	U		3.93
2,2',3,5-TeCB	43	19400		3.94	12200		3.93
(49/69)	49/69	498000	J	7.89	321000		7.86
2,2',4,5-TeCB	48	13600		3.94	8850		3.93
(44/47/65)	44/47/65	529000		11.8	351000		11.8
(59/62/75)	59/62/75	59600		11.8	22000		11.8
2,2',3,4'-TeCB	42	91000		3.94	50500		3.93
(40/41/71)	40/41/71	152000	J	11.8	95300		11.8
2,3,4',6-TeCB	64	113000	J	3.94	61900		3.93
2,3',5,5'-TeCB	72	26500		3.94	13500		3.93
2,3',4,5'-TeCB	68	19600		3.94	12300		3.93
2,3,3',5-TeCB	57	5910		3.94	2770		3.93
2,3,3',5'-TeCB	58	3230		3.94	1830		3.93
2,3',4,5-TeCB	67	4900		3.94	2300		3.93
2,3,4',5-TeCB	63	12000		3.94	8210		3.93

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054			0-360-0065		
Sample Location		5-WS-4-CARCASS			6-WS-2-CARCASS		
Percent Solids		21.8			22.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
(61/70/74/76)	61/70/74/76	248000		15.8	201000		15.7
2,3',4,4'-TeCB	66	205000		3.94	153000		3.93
2,3,3',4-TeCB	55	U		3.94	U		3.93
2,3,3',4'-TeCB	56	31300		3.94	20700		3.93
2,3,4,4'-TeCB	60	14600		3.94	11300		3.93
3,3',5,5'-TeCB	80	U		3.94	U		3.93
3,3',4,5'-TeCB	79	4610		3.94	4080		3.93
3,3',4,5-TeCB	78	85.2	EMPC	3.94	U		3.93
3,4,4',5-TeCB	81	422		3.94	355	EMPC	3.93
3,3',4,4'-TeCB	77	5870		3.94	3270		3.93
2,2',4,6,6'-PeCB	104	494		3.94	401		3.93
2,2',3,6,6'-PeCB	96	8990		3.94	4610		3.93
2,2',4,5',6-PeCB	103	16900		3.94	9000		3.93
2,2',3,5,6'-PeCB	94	11800		3.94	7330		3.93
2,2',3,5',6-PeCB	95	528000	J	3.94	321000		3.93
(93/98/100/102)	93/98/100/102	52700		15.8	33900		15.7
(88/91)	88/91	179000		7.89	112000		7.86
2,2',3,3',6-PeCB	84	191000		3.94	114000		3.93
2,2',3,4,6'-PeCB	89	4050		3.94	3070		3.93
2,3',4,5',6-PeCB	121	679		3.94	341		3.93
2,2',3,5,5'-PeCB	92	204000		3.94	120000		3.93
(90/101/113)	90/101/113	684000		47.3	536000		47.2
2,2',3,3',5-PeCB	83	58100		3.94	25100		3.93
2,2',4,4',5-PeCB	99	462000		15.8	372000		15.7
2,3,3',5,6-PeCB	112	U		3.94	U		3.93
(86/87/97/108/119/125)	86/87/97/108/119/125	525000		23.7	460000		23.6
(85/117/116)	85/116/117	150000		11.8	136000		11.8
(110/115)	110/115	990000		31.5	751000		31.5
2,2',3,3',4-PeCB	82	67400		3.94	56000		3.93
2,3,3',5,5'-PeCB	111	1820		3.94	802		3.93
2,3',4,5,5'-PeCB	120	5350		3.94	3140		3.93
(107/124)	107/124	22100		7.89	20700		7.86
2,3,3',4,6-PeCB	109	63000		3.94	53200		3.93
2,3',4,4',5'-PeCB	123	10300		3.94	13200	J	3.93
2,3,3',4,5-PeCB	106	U		3.94	U		3.93
2,3',4,4',5-PeCB	118	510000		3.94	502000	J	3.93
2,3,3',4',5'-PeCB	122	5630		3.94	5140		3.93
2,3,4,4',5-PeCB	114	12700		3.94	14900		3.93
2,3,3',4,4'-PeCB	105	201000		3.94	203000		3.93
3,3',4,5,5'-PeCB	127	1050		3.94	1170	J	3.93
3,3',4,4',5-PeCB	126	1020	EMPC	3.94	853	EMPC	3.93
2,2',4,4',6,6'-HxCB	155	46.6		3.94	32.9		3.93
2,2',3,5,6,6'-HxCB	152	969		3.94	750		3.93
2,2',3,4',6,6'-HxCB	150	1280		3.94	873		3.93
2,2',3,3',6,6'-HxCB	136	81900		3.94	55000		3.93
2,2',3,4,6,6'-HxCB	145	326		3.94	263		3.93
2,2',3,4',5,6'-HxCB	148	1120		3.94	812		3.93
(135/151)	135/151	210000		7.89	150000		7.86
2,2',4,4',5,6'-HxCB	154	9910		3.94	7280		3.93
2,2',3,4,5',6-HxCB	144	28400		3.94	25300		3.93
(147/149)	147/149	468000		7.89	376000		7.86
(134/143)	134/143	39100		7.89	28300		7.86
(139/140)	139/140	18700		7.89	18000		7.86
2,2',3,3',4,6-HxCB	131	10500		3.94	10000		3.93
2,2',3,4,5,6-HxCB	142	U		3.94	U		3.93
2,2',3,3',4,6'-HxCB	132	198000		3.94	163000	J	3.93

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054			0-360-0065		
Sample Location		5-WS-4-CARCASS			6-WS-2-CARCASS		
Percent Solids		21.8			22.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,2',3,3',5,5'-HxCB	133	13000		3.94	10800		3.93
2,3,3',5,5',6-HxCB	165	751		3.94	394		3.93
2,2',3,4',5,5'-HxCB	146	99200		3.94	99900		3.93
2,3,3',4,5',6-HxCB	161	U		3.94	U		3.93
(153/168)	153/168	486000		31.5	496000		31.5
2,2',3,4,5,5'-HxCB	141	74600		3.94	74100		3.93
2,2',3,3',4,5'-HxCB	130	51300		3.94	46900		3.93
2,2',3,4,4',5-HxCB	137	50300		3.94	61900	J	3.93
2,3,3',4',5',6-HxCB	164	42400		3.94	39300		3.93
(129/138/163)	129/138/163	725000		47.3	726000		47.2
2,3,3',4,5,6-HxCB	160	U		3.94	U		3.93
2,3,3',4,4',6-HxCB	158	86600		3.94	90200		3.93
(128/166)	128/166	127000		7.89	138000		7.86
2,3,3',4,5,5'-HxCB	159	144		3.94	155		3.93
2,3,3',4',5,5'-HxCB	162	3730		3.94	3850		3.93
2,3',4,4',5,5'-HxCB	167	22700		3.94	27100		3.93
(156/157)	156/157	81700		7.89	93500		7.86
3,3',4,4',5,5'-HxCB	169	90.3	EMPC	3.94	68.9	EMPC	3.93
2,2',3,4',5,6,6'-HpCB	188	84		3.94	77.7	J	3.93
2,2',3,3',5,6,6'-HpCB	179	17600		3.94	16000	J	3.93
2,2',3,4,4',6,6'-HpCB	184	71.1		3.94	71.2	J	3.93
2,2',3,3',4,6,6'-HpCB	176	7540		3.94	7490	J	3.93
2,2',3,4,5,6,6'-HpCB	186	35		3.94	37.1	J	3.93
2,2',3,3',5,5',6-HpCB	178	11200		3.94	10600	J	3.93
2,2',3,3',4,5',6-HpCB	175	2490		3.94	2760	J	3.93
2,2',3,4',5,5',6-HpCB	187	74000		3.94	79000	J	3.93
2,2',3,4,4',5,6'-HpCB	182	432		3.94	463	J	3.93
(183/185)	183/185	41200		7.89	47300	J	7.86
2,2',3,3',4,5,6'-HpCB	174	34800		3.94	34800	J	3.93
2,2',3,3',4,5',6'-HpCB	177	32200		3.94	30700	J	3.93
2,2',3,4,4',5,6-HpCB	181	1410		3.94	1680	J	3.93
(171/173)	171/173	21400		7.89	25500	J	7.86
2,2',3,3',4,5,5'-HpCB	172	7570		3.94	10400	J	3.93
2,3,3',4,5,5',6-HpCB	192	U		3.94	4.72	J	3.93
(180/193)	180/193	71500	J	7.89	100000	J	7.86
2,3,3',4,4',5',6-HpCB	191	2170	J	3.94	2790	J	3.93
2,2',3,3',4,4',5-HpCB	170	48700	J	3.94	65200	J	3.93
2,3,3',4,4',5,6-HpCB	190	6050	J	3.94	7630	J	3.93
2,3,3',4,4',5,5'-HpCB	189	2220		3.94	2840		3.93
2,2',3,3',5,5',6,6'-OcCB	202	1670		3.94	1620	J	3.93
2,2',3,3',4,5',6,6'-OcCB	201	1580	J	3.94	1740	J	3.93
2,2',3,4,4',5,6,6'-OcCB	204	7.34	EMPC	3.94	8.74	J	3.93
(197/200)	197/200	1720		7.89	1900	J	7.86
(198/199)	198/199	7140	J	7.89	8130	J	7.86
2,2',3,3',4,4',5,6'-OcCB	196	4870	J	3.94	6060	J	3.93
2,2',3,4,4',5,5',6-OcCB	203	7770	J	3.94	8980	J	3.93
2,2',3,3',4,4',5,6-OcCB	195	4050		3.94	4730	J	3.93
2,2',3,3',4,4',5,5'-OcCB	194	6250		3.94	8220	J	3.93
2,3,3',4,4',5,5',6-OcCB	205	452		3.94	576		3.93
2,2',3,3',4,5,5',6,6'-NoCB	208	463	J	3.94	512	J	3.93
2,2',3,3',4,4',5,6,6'-NoCB	207	262		3.94	299		3.93
2,2',3,3',4,4',5,5',6-NoCB	206	1790		3.94	2140		3.93
Decachlorobiphenyl	209	342		3.94	464		3.93

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054		0-360-0065	
Sample Location		5-WS-4-CARCASS		6-WS-2-CARCASS	
Percent Solids		21.8		22.3	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		1230		699	
Total Dichloro Biphenyls		45700		35300	
Total Trichloro Biphenyls		616000		398000	
Total Tetrachloro Biphenyls		2730000		1670000	
Total Pentachloro Biphenyls		4970000		3880000	
Total Hexachloro Biphenyls		2930000		2740000	
Total Heptachloro Biphenyls		383000		446000	
Total Octachloro Biphenyls		33500		42000	
Total Nonachloro Biphenyls		2520		2950	
Decachloro Biphenyls		342		464	
Total PCBS		11700000		9220000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081			0-360-0009		
Sample Location		7-WS-2-CARCASS			1-P-2-CARCASS		
Percent Solids		21.8			28.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	281		3.99	11.6		3.97
3-MoCB	2	U		3.99	U		3.97
4-MoCB	3	U		3.99	U		3.97
2,2'-DiCB	4	15300		3.99	201		3.97
2,6-DiCB	10	1420		3.99	18.9		3.97
2,5-DiCB	9	417		3.99	10.1	EMPC	3.97
2,4-DiCB	7	244		3.99	U		3.97
2,3'-DiCB	6	1900		3.99	40.6		3.97
2,3-DiCB	5	41	EMPC	3.99	U		3.97
2,4'-DiCB	8	3450		3.99	110		3.97
3,5-DiCB	14	U		3.99	U		3.97
3,3'-DiCB	11	U		59.1	U		57.5
(12/13)	12/13	496		7.98	U		7.93
4,4'-DiCB	15	249		3.99	55.3		3.97
2,2',6-TrCB	19	24700		3.99	134		3.97
(18/30)	18/30	26100		7.98	735		7.93
2,2',4-TrCB	17	46600		3.99	531		3.97
2,3',6-TrCB	27	52500		3.99	118		3.97
2,3,6-TrCB	24	U		3.99	20.1		3.97
2,2',3-TrCB	16	7510		3.99	137		3.97
2,4',6-TrCB	32	34900		3.99	718		3.97
2,3',5'-TrCB	34	668		3.99	7.75	EMPC	3.97
2,3,5-TrCB	23	37.9		3.99	U		3.97
(26/29)	26/29	44700		7.98	1240		7.93
2,3',4-TrCB	25	11500		3.99	522		3.97
2,4',5-TrCB	31	18800		3.99	1360		3.97
(20/28)	20/28	52300		7.98	2470		7.93
(21/33)	21/33	5290		7.98	207		7.93
2,3,4'-TrCB	22	7070		3.99	496		3.97
3,3',5-TrCB	36	U		3.99	U		3.97
3,4',5-TrCB	39	155		3.99	10.6		3.97
3,4,5-TrCB	38	214		3.99	6.98		3.97
3,3',4-TrCB	35	U		3.99	U		3.97
3,4,4'-TrCB	37	1390		3.99	253		3.97
2,2',6,6'-TeCB	54	4010		3.99	21.4		3.97
(50/53)	50/53	90700		7.98	710		7.93
(45/51)	45/51	59300		7.98	1330		7.93
2,2',3,6'-TeCB	46	17000		3.99	107		3.97
2,2',5,5'-TeCB	52	215000		3.99	14800		3.97
2,3',5',6-TeCB	73	U		3.99	U		3.97
2,2',3,5-TeCB	43	2440		3.99	93.4		3.97
(49/69)	49/69	283000		7.98	6250		7.93
2,2',4,5-TeCB	48	6670		3.99	350		3.97
(44/47/65)	44/47/65	257000		12	6140		11.9
(59/62/75)	59/62/75	24600		12	606		11.9
2,2',3,4'-TeCB	42	41100		3.99	1570		3.97
(40/41/71)	40/41/71	79000		12	2060		11.9
2,3,4',6-TeCB	64	50700		3.99	2860		3.97
2,3',5,5'-TeCB	72	11300		3.99	186		3.97
2,3',4,5'-TeCB	68	8000		3.99	105		3.97
2,3,3',5-TeCB	57	2710		3.99	81.2		3.97
2,3,3',5'-TeCB	58	1400		3.99	52.5		3.97
2,3',4,5-TeCB	67	1740		3.99	181		3.97
2,3,4',5-TeCB	63	4830		3.99	221		3.97
(61/70/74/76)	61/70/74/76	102000		16	7980		15.9

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081			0-360-0009		
Sample Location		7-WS-2-CARCASS			1-P-2-CARCASS		
Percent Solids		21.8			28.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	83600		3.99	5250		3.97
2,3,3',4-TeCB	55	U		3.99	U		3.97
2,3,3',4'-TeCB	56	11600		3.99	1530		3.97
2,3,4,4'-TeCB	60	6090		3.99	925		3.97
3,3',5,5'-TeCB	80	U		3.99	U		3.97
3,3',4,5'-TeCB	79	1710		3.99	175		3.97
3,3',4,5-TeCB	78	U		3.99	10.9		3.97
3,4,4',5-TeCB	81	163	EMPC	3.99	37.5		3.97
3,3',4,4'-TeCB	77	2220		3.99	448		3.97
2,2',4,6,6'-PeCB	104	233		3.99	U		3.97
2,2',3,6,6'-PeCB	96	4070		3.99	80.4		3.97
2,2',4,5',6-PeCB	103	6290		3.99	255		3.97
2,2',3,5,6'-PeCB	94	4430		3.99	48.3		3.97
2,2',3,5',6-PeCB	95	248000		3.99	18100		3.97
(93/98/100/102)	93/98/100/102	19200		16	831		15.9
(88/91)	88/91	68600		7.98	4590		7.93
2,2',3,3',6-PeCB	84	79300		3.99	2900		3.97
2,2',3,4,6'-PeCB	89	1660		3.99	114		3.97
2,3',4,5',6-PeCB	121	248		3.99	4.71	EMPC	3.97
2,2',3,5,5'-PeCB	92	83400		3.99	6590		3.97
(90/101/113)	90/101/113	295000		12	26000		11.9
2,2',3,3',5-PeCB	83	18700		3.99	527		3.97
2,2',4,4',5-PeCB	99	206000		3.99	14000		3.97
2,3,3',5,6-PeCB	112	U		3.99	U		3.97
(86/87/97/108/119/125)	86/87/97/108/119/125	201000		23.9	13100		23.8
(85/117/116)	85/116/117	54400		12	4800		11.9
(110/115)	110/115	377000		31.9	35100		7.93
2,2',3,3',4-PeCB	82	25200		3.99	1960		3.97
2,3,3',5,5'-PeCB	111	638		3.99	20.9		3.97
2,3',4,5,5'-PeCB	120	2170		3.99	82.7		3.97
(107/124)	107/124	7360		7.98	939		7.93
2,3,3',4,6-PeCB	109	20400		3.99	1340		3.97
2,3',4,4',5'-PeCB	123	4640		3.99	434		3.97
2,3,3',4,5-PeCB	106	U		3.99	U		3.97
2,3',4,4',5-PeCB	118	225000		3.99	17300		3.97
2,3,3',4',5'-PeCB	122	1820		3.99	265		3.97
2,3,4,4',5-PeCB	114	3960		3.99	275		3.97
2,3,3',4,4'-PeCB	105	67800		3.99	5610		3.97
3,3',4,5,5'-PeCB	127	378		3.99	54.3		3.97
3,3',4,4',5-PeCB	126	316	EMPC	3.99	82.3	EMPC	3.97
2,2',4,4',6,6'-HxCB	155	16		3.99	4.2		3.97
2,2',3,5,6,6'-HxCB	152	339		3.99	24.4		3.97
2,2',3,4',6,6'-HxCB	150	420		3.99	35		3.97
2,2',3,3',6,6'-HxCB	136	29400		3.99	3090		3.97
2,2',3,4,6,6'-HxCB	145	109		3.99	9.74	EMPC	3.97
2,2',3,4',5,6'-HxCB	148	359		3.99	37.6		3.97
(135/151)	135/151	76900		7.98	19500		7.93
2,2',4,4',5,6'-HxCB	154	3140		3.99	424		3.97
2,2',3,4,5',6-HxCB	144	9580		3.99	1780		3.97
(147/149)	147/149	177000		7.98	43800		7.93
(134/143)	134/143	14100		7.98	1700		7.93
(139/140)	139/140	6340		7.98	752		7.93
2,2',3,3',4,6-HxCB	131	3530		3.99	296		3.97
2,2',3,4,5,6-HxCB	142	U		3.99	U		3.97
2,2',3,3',4,6'-HxCB	132	73900		3.99	8700		3.97
2,2',3,3',5,5'-HxCB	133	4630		3.99	695		3.97

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081			0-360-0009		
Sample Location		7-WS-2-CARCASS			1-P-2-CARCASS		
Percent Solids		21.8			28.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	277		3.99	19.5		3.97
2,2',3,4',5,5'-HxCB	146	37100		3.99	9620		3.97
2,3,3',4,5',6-HxCB	161	U		3.99	U		3.97
(153/168)	153/168	204000		7.98	41200		7.93
2,2',3,4,5,5'-HxCB	141	27400		3.99	6390		3.97
2,2',3,3',4,5'-HxCB	130	18800		3.99	2390		3.97
2,2',3,4,4',5-HxCB	137	19100		3.99	1710		3.97
2,3,3',4',5',6-HxCB	164	13800		3.99	3530		3.97
(129/138/163)	129/138/163	270000		12	53200		11.9
2,3,3',4,5,6-HxCB	160	U		3.99	U		3.97
2,3,3',4,4',6-HxCB	158	29000		3.99	3900		3.97
(128/166)	128/166	45900		7.98	6090		7.93
2,3,3',4,5,5'-HxCB	159	39.2	EMPC	3.99	16	EMPC	3.97
2,3,3',4',5,5'-HxCB	162	624		3.99	131		3.97
2,3',4,4',5,5'-HxCB	167	8510		3.99	1380		3.97
(156/157)	156/157	26900		7.98	2830		7.93
3,3',4,4',5,5'-HxCB	169	35.5	EMPC	3.99	36.3	EMPC	3.97
2,2',3,4',5,6,6'-HpCB	188	35	J	3.99	16.6		3.97
2,2',3,3',5,6,6'-HpCB	179	6750	J	3.99	3050		3.97
2,2',3,4,4',6,6'-HpCB	184	27.8	J	3.99	11		3.97
2,2',3,3',4,6,6'-HpCB	176	2730	J	3.99	730		3.97
2,2',3,4,5,6,6'-HpCB	186	13.6	J	3.99	U		3.97
2,2',3,3',5,5',6-HpCB	178	4450	J	3.99	2470		3.97
2,2',3,3',4,5',6-HpCB	175	983	J	3.99	372		3.97
2,2',3,4',5,5',6-HpCB	187	32300	J	3.99	45200		3.97
2,2',3,4,4',5,6'-HpCB	182	163	J	3.99	U		3.97
(183/185)	183/185	15900	J	7.98	6370		7.93
2,2',3,3',4,5,6'-HpCB	174	14700	J	3.99	7200		3.97
2,2',3,3',4,5',6'-HpCB	177	12100	J	3.99	4930		3.97
2,2',3,4,4',5,6-HpCB	181	509	J	3.99	84.4		3.97
(171/173)	171/173	8200	J	7.98	2520		7.93
2,2',3,3',4,5,5'-HpCB	172	3330	J	3.99	1560		3.97
2,3,3',4,5,5',6-HpCB	192	U	J	3.99	U		3.97
(180/193)	180/193	33800	J	7.98	15300	J	7.93
2,3,3',4,4',5',6-HpCB	191	866	J	3.99	281	J	3.97
2,2',3,3',4,4',5-HpCB	170	20300	J	3.99	5730	J	3.97
2,3,3',4,4',5,6-HpCB	190	2680	J	3.99	972	J	3.97
2,3,3',4,4',5,5'-HpCB	189	851		3.99	223		3.97
2,2',3,3',5,5',6,6'-OcCB	202	819	J	3.99	781		3.97
2,2',3,3',4,5',6,6'-OcCB	201	692	J	3.99	531	J	3.97
2,2',3,4,4',5,6,6'-OcCB	204	4.85	J	3.99	4.16		3.97
(197/200)	197/200	793	J	7.98	438		7.93
(198/199)	198/199	3420	J	7.98	3720	J	7.93
2,2',3,3',4,4',5,6'-OcCB	196	2290	J	3.99	1260		3.97
2,2',3,4,4',5,5',6-OcCB	203	3570	J	3.99	2450		3.97
2,2',3,3',4,4',5,6-OcCB	195	1640	J	3.99	924		3.97
2,2',3,3',4,4',5,5'-OcCB	194	2920	J	3.99	1550		3.97
2,3,3',4,4',5,5',6-OcCB	205	211		3.99	134		3.97
2,2',3,3',4,5,5',6,6'-NoCB	208	519	J	3.99	321	J	3.97
2,2',3,3',4,4',5,6,6'-NoCB	207	186		3.99	108		3.97
2,2',3,3',4,4',5,5',6-NoCB	206	1490		3.99	937		3.97
Decachlorobiphenyl	209	793	J	3.99	573		3.97

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081		0-360-0009	
Sample Location		7-WS-2-CARCASS		1-P-2-CARCASS	
Percent Solids		21.8		28.2	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		281		11.6	
Total Dichloro Biphenyls		23500		483	
Total Trichloro Biphenyls		334000		8970	
Total Tetrachloro Biphenyls		1370000		54000	
Total Pentachloro Biphenyls		2030000		155000	
Total Hexachloro Biphenyls		1100000		213000	
Total Heptachloro Biphenyls		161000		97000	
Total Octachloro Biphenyls		16400		11800	
Total Nonachloro Biphenyls		2190		1370	
Decachloro Biphenyls		793		573	
Total PCBS		5030000		543000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023			0-360-0036		
Sample Location		2-P-3-CARCASS			3-P-3-CARCASS		
Percent Solids		25.2			26.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	1460		9.60	2560	J	3.92
3-MoCB	2	13.3		9.60	19.5		3.92
4-MoCB	3	145		9.60	285	J	3.92
2,2'-DiCB	4	17300	J	9.60	33500		3.92
2,6-DiCB	10	1640		9.60	3400		3.92
2,5-DiCB	9	467		9.60	953		3.92
2,4-DiCB	7	347		9.60	710		3.92
2,3'-DiCB	6	1670		9.60	3080		3.92
2,3-DiCB	5	63.9		9.60	150		3.92
2,4'-DiCB	8	6080		9.60	14400		3.92
3,5-DiCB	14	U		9.60	U		3.92
3,3'-DiCB	11	U		118	U		92.6
(12/13)	12/13	428		19.3	851		7.85
4,4'-DiCB	15	1820	J	9.60	4310		3.92
2,2',6-TrCB	19	8940	J	9.60	16600		3.92
(18/30)	18/30	16400		19.3	26600		7.85
2,2',4-TrCB	17	23800		9.60	43700		3.92
2,3',6-TrCB	27	13000		9.60	16600		3.92
2,3,6-TrCB	24	522		9.60	958		3.92
2,2',3-TrCB	16	1980		9.60	3870		3.92
2,4',6-TrCB	32	19900		9.60	33500		3.92
2,3',5'-TrCB	34	278		9.60	384		3.92
2,3,5-TrCB	23	23.8		9.60	37.1	EMPC	3.92
(26/29)	26/29	37300		19.3	39300		7.85
2,3',4-TrCB	25	15900		9.60	22900		3.92
2,4',5-TrCB	31	22300		9.60	43900		3.92
(20/28)	20/28	36500		19.3	78800		7.85
(21/33)	21/33	2840		19.3	6030		7.85
2,3,4'-TrCB	22	6400		9.60	13700		3.92
3,3',5-TrCB	36	U		9.60	U		3.92
3,4',5-TrCB	39	151		9.60	299		3.92
3,4,5-TrCB	38	162		9.60	102		3.92
3,3',4-TrCB	35	19.7		9.60	70.3	EMPC	3.92
3,4,4'-TrCB	37	3130	J	9.60	7500		3.92
2,2',6,6'-TeCB	54	1870	J	9.60	2970		3.92
(50/53)	50/53	22800		19.3	27500		7.85
(45/51)	45/51	26700		19.3	50100		7.85
2,2',3,6'-TeCB	46	1500		9.60	1820		3.92
2,2',5,5'-TeCB	52	343000		9.60	687000		78.5
2,3',5',6-TeCB	73	U		9.60	U		3.92
2,2',3,5-TeCB	43	U		9.60	U		78.5
(49/69)	49/69	224000		19.3	383000		7.85
2,2',4,5-TeCB	48	3060		9.60	7460		3.92
(44/47/65)	44/47/65	153000		28.9	365000		235
(59/62/75)	59/62/75	15100		28.9	19200		11.8
2,2',3,4'-TeCB	42	26900		9.60	53200		3.92
(40/41/71)	40/41/71	31600		28.9	62100		11.8
2,3,4',6-TeCB	64	36500		9.60	78900		3.92
2,3',5,5'-TeCB	72	10200		9.60	13900		3.92
2,3',4,5'-TeCB	68	6720		9.60	12300		3.92
2,3,3',5-TeCB	57	2960		9.60	3280		3.92
2,3,3',5'-TeCB	58	1060		9.60	1690		3.92
2,3',4,5-TeCB	67	5400		9.60	7080		3.92
2,3,4',5-TeCB	63	3980		9.60	9850		3.92
(61/70/74/76)	61/70/74/76	127000		38.5	351000		15.7

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023			0-360-0036		
Sample Location		2-P-3-CARCASS			3-P-3-CARCASS		
Percent Solids		25.2			26.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	79200		9.60	232000		3.92
2,3,3',4-TeCB	55	U		9.60	U		3.92
2,3,3',4'-TeCB	56	14400		9.60	37500		3.92
2,3,4,4'-TeCB	60	5240		9.60	17500		3.92
3,3',5,5'-TeCB	80	U		9.60	U		3.92
3,3',4,5'-TeCB	79	2810		9.60	6450		3.92
3,3',4,5-TeCB	78	U		9.60	U		3.92
3,4,4',5-TeCB	81	147	J	9.60	307	EMPC	3.92
3,3',4,4'-TeCB	77	2660		9.60	7130		3.92
2,2',4,6,6'-PeCB	104	182		9.60	485		3.92
2,2',3,6,6'-PeCB	96	1120		9.60	1770		3.92
2,2',4,5',6-PeCB	103	5300		9.60	13500		3.92
2,2',3,5,6'-PeCB	94	853		9.60	2000		3.92
2,2',3,5',6-PeCB	95	205000		9.60	456000		78.5
(93/98/100/102)	93/98/100/102	11400		38.5	36800		15.7
(88/91)	88/91	52500		19.3	162000		7.85
2,2',3,3',6-PeCB	84	33800		9.60	67700		3.92
2,2',3,4,6'-PeCB	89	630		9.60	1400		3.92
2,3',4,5',6-PeCB	121	197		9.60	383		3.92
2,2',3,5,5'-PeCB	92	92800		9.60	299000		3.92
(90/101/113)	90/101/113	360000		28.9	1400000		235
2,2',3,3',5-PeCB	83	6490		9.60	15900		3.92
2,2',4,4',5-PeCB	99	224000		9.60	792000		78.5
2,3,3',5,6-PeCB	112	U		9.60	U		3.92
(86/87/97/108/119/125)	86/87/97/108/119/125	192000		57.5	620000		471
(85/117/116)	85/116/117	55400		28.9	266000		11.8
(110/115)	110/115	393000		19.3	1180000		157
2,2',3,3',4-PeCB	82	19000		9.60	70300		3.92
2,3,3',5,5'-PeCB	111	609		9.60	1050		3.92
2,3',4,5,5'-PeCB	120	2350		9.60	4480		3.92
(107/124)	107/124	10600		19.3	51000		7.85
2,3,3',4,6-PeCB	109	22600		9.60	95500		3.92
2,3',4,4',5'-PeCB	123	4220	J	9.60	19800		3.92
2,3,3',4,5-PeCB	106	U		9.60	U		3.92
2,3',4,4',5-PeCB	118	263000		9.60	1030000		78.5
2,3,3',4',5'-PeCB	122	2390		9.60	10100		3.92
2,3,4,4',5-PeCB	114	3900	J	9.60	28100		3.92
2,3,3',4,4'-PeCB	105	68200	J	9.60	348000		3.92
3,3',4,5,5'-PeCB	127	441		9.60	2420		3.92
3,3',4,4',5-PeCB	126	391	EMPC	9.60	1500	EMPC	3.92
2,2',4,4',6,6'-HxCB	155	16.8		9.60	47.1	J	3.92
2,2',3,5,6,6'-HxCB	152	190		9.60	777	J	3.92
2,2',3,4',6,6'-HxCB	150	298		9.60	1180	J	3.92
2,2',3,3',6,6'-HxCB	136	19200		9.60	86300		3.92
2,2',3,4,6,6'-HxCB	145	70.5		9.60	268		3.92
2,2',3,4',5,6'-HxCB	148	344		9.60	1560		3.92
(135/151)	135/151	74200		19.3	435000		7.85
2,2',4,4',5,6'-HxCB	154	3430		9.60	17400		3.92
2,2',3,4,5',6-HxCB	144	8160		9.60	52700		3.92
(147/149)	147/149	219000		19.3	1090000		157
(134/143)	134/143	12000		19.3	54200		7.85
(139/140)	139/140	6830		19.3	39500		7.85
2,2',3,3',4,6-HxCB	131	2240		9.60	9480		3.92
2,2',3,4,5,6-HxCB	142	U		9.60	U		3.92
2,2',3,3',4,6'-HxCB	132	61100		9.60	222000	J	3.92
2,2',3,3',5,5'-HxCB	133	5260		9.60	23100		3.92

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023			0-360-0036		
Sample Location		2-P-3-CARCASS			3-P-3-CARCASS		
Percent Solids		25.2			26.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	310		9.60	646		3.92
2,2',3,4',5,5'-HxCB	146	50700		9.60	260000		3.92
2,3,3',4,5',6-HxCB	161	U		9.60	U		3.92
(153/168)	153/168	246000		19.3	1280000		157
2,2',3,4,5,5'-HxCB	141	33900		9.60	194000		3.92
2,2',3,3',4,5'-HxCB	130	16000		9.60	87400		3.92
2,2',3,4,4',5-HxCB	137	18600		9.60	125000		3.92
2,3,3',4',5',6-HxCB	164	16500		9.60	95100	J	3.92
(129/138/163)	129/138/163	343000		28.9	1940000		235
2,3,3',4,5,6-HxCB	160	U		9.60	U		3.92
2,3,3',4,4',6-HxCB	158	29200		9.60	180000		3.92
(128/166)	128/166	46400		19.3	287000		7.85
2,3,3',4,5,5'-HxCB	159	65.5		9.60	363		3.92
2,3,3',4',5,5'-HxCB	162	1040		9.60	3560		3.92
2,3',4,4',5,5'-HxCB	167	9990	J	9.60	59400		3.92
(156/157)	156/157	28700	J	19.3	182000		7.85
3,3',4,4',5,5'-HxCB	169	27.5	EMPC	9.60	199	EMPC	3.92
2,2',3,4',5,6,6'-HpCB	188	32.6	J	9.60	158		3.92
2,2',3,3',5,6,6'-HpCB	179	4520	J	9.60	32800		3.92
2,2',3,4,4',6,6'-HpCB	184	25.2	J	9.60	149		3.92
2,2',3,3',4,6,6'-HpCB	176	1450	J	9.60	10700	J	3.92
2,2',3,4,5,6,6'-HpCB	186	8.56	J	9.60	53.3		3.92
2,2',3,3',5,5',6-HpCB	178	3990	J	9.60	26100		3.92
2,2',3,3',4,5',6-HpCB	175	705	J	9.60	5040		3.92
2,2',3,4',5,5',6-HpCB	187	45800	J	9.60	366000		3.92
2,2',3,4,4',5,6'-HpCB	182	163	J	9.60	1090		3.92
(183/185)	183/185	13700	J	19.3	89100		7.85
2,2',3,3',4,5,6'-HpCB	174	12200	J	9.60	87900		3.92
2,2',3,3',4,5',6'-HpCB	177	8870	J	9.60	61800		3.92
2,2',3,4,4',5,6-HpCB	181	577	J	9.60	3860		3.92
(171/173)	171/173	7230	J	19.3	51900		7.85
2,2',3,3',4,5,5'-HpCB	172	3080	J	9.60	22700		3.92
2,3,3',4,5,5',6-HpCB	192	U	J	9.60	10.4	EMPC	3.92
(180/193)	180/193	34100	J	19.3	209000	J	7.85
2,3,3',4,4',5',6-HpCB	191	741	J	9.60	5390	J	3.92
2,2',3,3',4,4',5-HpCB	170	19100	J	9.60	135000	J	3.92
2,3,3',4,4',5,6-HpCB	190	3290	J	9.60	20900	J	3.92
2,3,3',4,4',5,5'-HpCB	189	920	J	9.60	6180		3.92
2,2',3,3',5,5',6,6'-OcCB	202	701		9.60	3480		3.92
2,2',3,3',4,5',6,6'-OcCB	201	461		9.60	2820	J	3.92
2,2',3,4,4',5,6,6'-OcCB	204	U		9.60	13.4	EMPC	3.92
(197/200)	197/200	457		19.3	3190		7.85
(198/199)	198/199	3870	J	19.3	22900	J	7.85
2,2',3,3',4,4',5,6'-OcCB	196	1720		9.60	10400		3.92
2,2',3,4,4',5,5',6-OcCB	203	3070		9.60	17300		3.92
2,2',3,3',4,4',5,6-OcCB	195	1640		9.60	8730		3.92
2,2',3,3',4,4',5,5'-OcCB	194	2860		9.60	14700		3.92
2,3,3',4,4',5,5',6-OcCB	205	188		9.60	1080		3.92
2,2',3,3',4,5,5',6,6'-NoCB	208	252		9.60	879		3.92
2,2',3,3',4,4',5,6,6'-NoCB	207	131		9.60	492		3.92
2,2',3,3',4,4',5,5',6-NoCB	206	980		9.60	4040		3.92
Decachlorobiphenyl	209	338		9.60	724		3.92

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023		0-360-0036	
Sample Location		2-P-3-CARCASS		3-P-3-CARCASS	
Percent Solids		25.2		26.3	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		1620		2670	
Total Dichloro Biphenyls		29900		61400	
Total Trichloro Biphenyls		210000		355000	
Total Tetrachloro Biphenyls		1150000		2440000	
Total Pentachloro Biphenyls		2030000		6980000	
Total Hexachloro Biphenyls		1250000		6730000	
Total Heptachloro Biphenyls		181000		1140000	
Total Octachloro Biphenyls		15000		84600	
Total Nonachloro Biphenyls		1360		5410	
Decachloro Biphenyls		338		724	
Total PCBS		4850000		17800000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049			0-360-0060	
Sample Location		4-P-3-CARCASS			5-P-2-CARCASS	
Percent Solids		26.3			26.8	
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	732		3.96	822	3.90
3-MoCB	2	7.61	EMPC	3.96	11.6	3.90
4-MoCB	3	70		3.96	73	3.90
2,2'-DiCB	4	13100		3.96	18400	3.90
2,6-DiCB	10	1280		3.96	1510	3.90
2,5-DiCB	9	403		3.96	439	3.90
2,4-DiCB	7	294		3.96	330	3.90
2,3'-DiCB	6	1580		3.96	1660	3.90
2,3-DiCB	5	47.6		3.96	56.3	3.90
2,4'-DiCB	8	5330		3.96	4930	3.90
3,5-DiCB	14	U		3.96	U	3.90
3,3'-DiCB	11	U		62.8	U	74.3
(12/13)	12/13	360		7.92	417	7.80
4,4'-DiCB	15	1140		3.96	1440	3.90
2,2',6-TrCB	19	7120		3.96	9890	3.90
(18/30)	18/30	14600		7.92	16400	7.80
2,2',4-TrCB	17	22000		3.96	24700	3.90
2,3',6-TrCB	27	16600		3.96	15300	3.90
2,3,6-TrCB	24	U		3.96	599	3.90
2,2',3-TrCB	16	1920		3.96	2210	3.90
2,4',6-TrCB	32	20500		3.96	21600	3.90
2,3',5'-TrCB	34	272		3.96	261	3.90
2,3,5-TrCB	23	27.2		3.96	24	3.90
(26/29)	26/29	39200		7.92	41400	7.80
2,3',4-TrCB	25	17600		3.96	16800	3.90
2,4',5-TrCB	31	26100		3.96	22300	3.90
(20/28)	20/28	45800		7.92	36500	7.80
(21/33)	21/33	2740		7.92	2520	7.80
2,3,4'-TrCB	22	7510		3.96	6210	3.90
3,3',5-TrCB	36	U		3.96	U	3.90
3,4',5-TrCB	39	137		3.96	121	3.90
3,4,5-TrCB	38	173		3.96	160	3.90
3,3',4-TrCB	35	U		3.96	47.1	3.90
3,4,4'-TrCB	37	2590		3.96	2370	3.90
2,2',6,6'-TeCB	54	1530		3.96	2300	3.90
(50/53)	50/53	21200		7.92	24700	7.80
(45/51)	45/51	23000		7.92	29100	7.80
2,2',3,6'-TeCB	46	1440		3.96	2080	3.90
2,2',5,5'-TeCB	52	317000		3.96	354000	3.90
2,3',5',6-TeCB	73	U		3.96	U	3.90
2,2',3,5-TeCB	43	U		3.96	U	3.90
(49/69)	49/69	230000		7.92	237000	7.80
2,2',4,5-TeCB	48	3380		3.96	2830	3.90
(44/47/65)	44/47/65	181000		11.9	169000	11.70
(59/62/75)	59/62/75	17800		11.9	15800	11.70
2,2',3,4'-TeCB	42	27900		3.96	28200	3.90
(40/41/71)	40/41/71	33400		11.9	34400	11.70
2,3,4',6-TeCB	64	36400		3.96	36900	3.90
2,3',5,5'-TeCB	72	10700		3.96	11600	3.90
2,3',4,5'-TeCB	68	7570		3.96	7790	3.90
2,3,3',5-TeCB	57	3520		3.96	4570	3.90
2,3,3',5'-TeCB	58	1160		3.96	1240	3.90
2,3',4,5-TeCB	67	4230		3.96	4770	3.90
2,3,4',5-TeCB	63	4380		3.96	4150	3.90
(61/70/74/76)	61/70/74/76	116000		15.8	122000	15.55

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049			0-360-0060		
Sample Location		4-P-3-CARCASS			5-P-2-CARCASS		
Percent Solids		26.3			26.8		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	89200		3.96	81900		3.90
2,3,3',4-TeCB	55	U		3.96	U		3.90
2,3,3',4'-TeCB	56	13700		3.96	13000		3.90
2,3,4,4'-TeCB	60	6000		3.96	4950		3.90
3,3',5,5'-TeCB	80	U		3.96	U		3.90
3,3',4,5'-TeCB	79	2380		3.96	2350		3.90
3,3',4,5-TeCB	78	U		3.96	U		3.90
3,4,4',5-TeCB	81	208	EMPC	3.96	162	EMPC	3.90
3,3',4,4'-TeCB	77	2720		3.96	2380		3.90
2,2',4,6,6'-PeCB	104	218		3.96	190		3.90
2,2',3,6,6'-PeCB	96	940		3.96	1080		3.90
2,2',4,5',6-PeCB	103	6240		3.96	6550		3.90
2,2',3,5,6'-PeCB	94	1380		3.96	930		3.90
2,2',3,5',6-PeCB	95	204000		3.96	216000		3.90
(93/98/100/102)	93/98/100/102	14400		15.8	10800		15.55
(88/91)	88/91	57300		7.92	58300		7.80
2,2',3,3',6-PeCB	84	31100		3.96	31700		3.90
2,2',3,4,6'-PeCB	89	525		3.96	542		3.90
2,3',4,5',6-PeCB	121	245		3.96	247		3.90
2,2',3,5,5'-PeCB	92	110000		3.96	114000		3.90
(90/101/113)	90/101/113	357000		119	412000		46.7
2,2',3,3',5-PeCB	83	7800		3.96	9770		3.90
2,2',4,4',5-PeCB	99	244000		3.96	272000		3.90
2,3,3',5,6-PeCB	112	U		3.96	U		3.90
(86/87/97/108/119/125)	86/87/97/108/119/125	204000		23.8	211000		23.35
(85/117/116)	85/116/117	62500		11.9	68000		11.70
(110/115)	110/115	368000		79.4	429000		31.10
2,2',3,3',4-PeCB	82	17700		3.96	18300		3.90
2,3,3',5,5'-PeCB	111	762		3.96	791		3.90
2,3',4,5,5'-PeCB	120	2530		3.96	2990		3.90
(107/124)	107/124	11400		7.92	13200		7.80
2,3,3',4,6-PeCB	109	24300		3.96	27400		3.90
2,3',4,4',5'-PeCB	123	6040		3.96	6070		3.90
2,3,3',4,5-PeCB	106	U		3.96	U		3.90
2,3',4,4',5-PeCB	118	261000		3.96	291000		3.90
2,3,3',4',5'-PeCB	122	2540		3.96	2560		3.90
2,3,4,4',5-PeCB	114	4520		3.96	5010		3.90
2,3,3',4,4'-PeCB	105	77100		3.96	87300		3.90
3,3',4,5,5'-PeCB	127	528		3.96	654		3.90
3,3',4,4',5-PeCB	126	478	EMPC	3.96	582	EMPC	3.90
2,2',4,4',6,6'-HxCB	155	15.6		3.96	14.9		3.90
2,2',3,5,6,6'-HxCB	152	268		3.96	222		3.90
2,2',3,4',6,6'-HxCB	150	377		3.96	338		3.90
2,2',3,3',6,6'-HxCB	136	24300		3.96	21500		3.90
2,2',3,4,6,6'-HxCB	145	85.1		3.96	60.3		3.90
2,2',3,4',5,6'-HxCB	148	449		3.96	480		3.90
(135/151)	135/151	111000		7.92	108000		7.80
2,2',4,4',5,6'-HxCB	154	4510		3.96	5080		3.90
2,2',3,4,5',6-HxCB	144	11100		3.96	11800		3.90
(147/149)	147/149	244000		7.92	271000		7.80
(134/143)	134/143	16300		7.92	14200		7.80
(139/140)	139/140	7920		7.92	10600		7.80
2,2',3,3',4,6-HxCB	131	2560		3.96	2160		3.90
2,2',3,4,5,6-HxCB	142	U		3.96	U		3.90
2,2',3,3',4,6'-HxCB	132	64200		3.96	69900		3.90
2,2',3,3',5,5'-HxCB	133	6350		3.96	7430		3.90

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049			0-360-0060		
Sample Location		4-P-3-CARCASS			5-P-2-CARCASS		
Percent Solids		26.3			26.8		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	409		3.96	492		3.90
2,2',3,4',5,5'-HxCB	146	59700		3.96	73700		3.90
2,3,3',4,5',6-HxCB	161	U		3.96	U		3.90
(153/168)	153/168	274000		7.92	353000		7.80
2,2',3,4,5,5'-HxCB	141	37600		3.96	48300		3.90
2,2',3,3',4,5'-HxCB	130	19800		3.96	21300		3.90
2,2',3,4,4',5-HxCB	137	22200		3.96	31800		3.90
2,3,3',4',5',6-HxCB	164	20400		3.96	22400		3.90
(129/138/163)	129/138/163	371000		11.9	475000	J	11.7
2,3,3',4,5,6-HxCB	160	U		3.96	U		3.90
2,3,3',4,4',6-HxCB	158	34700		3.96	45400		3.90
(128/166)	128/166	52700		7.92	72500		7.80
2,3,3',4,5,5'-HxCB	159	76.6		3.96	50.2		3.90
2,3,3',4',5,5'-HxCB	162	976		3.96	1390		3.90
2,3',4,4',5,5'-HxCB	167	10800		3.96	14500		3.90
(156/157)	156/157	32000		7.92	40300		7.80
3,3',4,4',5,5'-HxCB	169	69.7	EMPC	3.96	45.3	EMPC	3.90
2,2',3,4',5,6,6'-HpCB	188	43	J	3.96	47.5	J	3.90
2,2',3,3',5,6,6'-HpCB	179	8590	J	3.96	6530	J	3.90
2,2',3,4,4',6,6'-HpCB	184	37.9	J	3.96	43.5	J	
2,2',3,3',4,6,6'-HpCB	176	2700	J	3.96	1940	J	3.90
2,2',3,4,5,6,6'-HpCB	186	13.6	J	3.96	12.3	J	3.90
2,2',3,3',5,5',6-HpCB	178	6810	J	3.96	5900	J	3.90
2,2',3,3',4,5',6-HpCB	175	1140	J	3.96	1090	J	3.90
2,2',3,4',5,5',6-HpCB	187	89800	J	3.96	71300	J	3.90
2,2',3,4,4',5,6'-HpCB	182	225	J	3.96	252	J	3.90
(183/185)	183/185	20700	J	7.92	21000	J	7.80
2,2',3,3',4,5,6'-HpCB	174	20200	J	3.96	17200	J	3.90
2,2',3,3',4,5',6'-HpCB	177	15400	J	3.96	12500	J	3.90
2,2',3,4,4',5,6-HpCB	181	701	J	3.96	937	J	3.90
(171/173)	171/173	10300	J	7.92	11400	J	7.80
2,2',3,3',4,5,5'-HpCB	172	4470	J	3.96	4560	J	3.90
2,3,3',4,5,5',6-HpCB	192	U	J	3.96	U	J	3.90
(180/193)	180/193	45100	J	7.92	43700	J	7.80
2,3,3',4,4',5',6-HpCB	191	962	J	3.96	1050	J	3.90
2,2',3,3',4,4',5-HpCB	170	24400	J	3.96	27400	J	3.90
2,3,3',4,4',5,6-HpCB	190	3970	J	3.96	1390	J	3.90
2,3,3',4,4',5,5'-HpCB	189	1150		3.96	1220		3.90
2,2',3,3',5,5',6,6'-OcCB	202	983	J	3.96	928		3.90
2,2',3,3',4,5',6,6'-OcCB	201	821	J	3.96	633	J	3.90
2,2',3,4,4',5,6,6'-OcCB	204	5.11	J	3.96	4.62	EMPC	3.90
(197/200)	197/200	817	J	7.92	604		7.80
(198/199)	198/199	5840	J	7.92	3960	J	7.80
2,2',3,3',4,4',5,6'-OcCB	196	2370	J	3.96	1950		3.90
2,2',3,4,4',5,5',6-OcCB	203	4170	J	3.96	3670		3.90
2,2',3,3',4,4',5,6-OcCB	195	1770	J	3.96	1750		3.90
2,2',3,3',4,4',5,5'-OcCB	194	2760	J	3.96	2820		3.90
2,3,3',4,4',5,5',6-OcCB	205	243		3.96	233		3.90
2,2',3,3',4,5,5',6,6'-NoCB	208	322	J	3.96	353		3.90
2,2',3,3',4,4',5,6,6'-NoCB	207	147		3.96	167		3.90
2,2',3,3',4,4',5,5',6-NoCB	206	1140		3.96	1240		3.90
Decachlorobiphenyl	209	376	J	3.96	523		3.90

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049		0-360-0060	
Sample Location		4-P-3-CARCASS		5-P-2-CARCASS	
Percent Solids		26.3		26.8	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		802		907	
Total Dichloro Biphenyls		23600		29300	
Total Trichloro Biphenyls		225000		219000	
Total Tetrachloro Biphenyls		1150000		1200000	
Total Pentachloro Biphenyls		2080000		2300000	
Total Hexachloro Biphenyls		1430000		1720000	
Total Heptachloro Biphenyls		257000		229000	
Total Octachloro Biphenyls		19800		16600	
Total Nonachloro Biphenyls		1610		1760	
Decachloro Biphenyls		376		523	
Total PCBS		5190000		5720000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063			0-360-0088		
Sample Location		5-BG-3-CARCASS			7-C-6-CARCASS		
Percent Solids		25			29.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	635		3.88	5.21		3.86
3-MoCB	2	9.57		3.88	1.82	EMPC	3.86
4-MoCB	3	62.3		3.88	1.89	EMPC	3.86
2,2'-DiCB	4	10600		3.88	72.1		3.86
2,6-DiCB	10	853		3.88	11.4		3.86
2,5-DiCB	9	332		3.88	13.1		3.86
2,4-DiCB	7	219		3.88	U		3.86
2,3'-DiCB	6	1560		3.88	28.3		3.86
2,3-DiCB	5	19.3	EMPC	3.88	U		3.86
2,4'-DiCB	8	4110		3.88	90.4		3.86
3,5-DiCB	14	U		3.88	U		3.86
3,3'-DiCB	11	U		65.2	U		131.00
(12/13)	12/13	491		7.75	5.17	EMPC	7.70
4,4'-DiCB	15	1310		3.88	9.69	EMPC	3.86
2,2',6-TrCB	19	6450		3.88	111		3.86
(18/30)	18/30	11700		7.75	635		7.70
2,2',4-TrCB	17	15400		3.88	192		3.86
2,3',6-TrCB	27	18900		3.88	293		3.86
2,3,6-TrCB	24	595		3.88	15		3.86
2,2',3-TrCB	16	1960		3.88	123		3.86
2,4',6-TrCB	32	18400		3.88	489		3.86
2,3',5'-TrCB	34	296		3.88	13.4		3.86
2,3,5-TrCB	23	25.1		3.88	U		3.86
(26/29)	26/29	37400		7.75	1020		7.70
2,3',4-TrCB	25	15500		3.88	261		3.86
2,4',5-TrCB	31	22200		3.88	1360		3.86
(20/28)	20/28	37200		7.75	2470		7.70
(21/33)	21/33	2650		7.75	222		7.70
2,3,4'-TrCB	22	6250		3.88	527		3.86
3,3',5-TrCB	36	U		3.88	U		3.86
3,4',5-TrCB	39	112		3.88	6.45	EMPC	3.86
3,4,5-TrCB	38	115		3.88	U		3.86
3,3',4-TrCB	35	U		3.88	U		3.86
3,4,4'-TrCB	37	2550		3.88	62.2		3.86
2,2',6,6'-TeCB	54	1300		3.88	20.4		3.86
(50/53)	50/53	25700		7.75	881		7.70
(45/51)	45/51	16200		7.75	624		7.70
2,2',3,6'-TeCB	46	1870		3.88	89.7		3.86
2,2',5,5'-TeCB	52	269000		3.88	19400		3.86
2,3',5',6-TeCB	73	U		3.88	U		3.86
2,2',3,5-TeCB	43	1760		3.88	157		3.86
(49/69)	49/69	190000		7.75	13700		7.70
2,2',4,5-TeCB	48	2990		3.88	307		3.86
(44/47/65)	44/47/65	151000		11.65	12700		11.55
(59/62/75)	59/62/75	14700		11.65	994		11.55
2,2',3,4'-TeCB	42	22700		3.88	1540		3.86
(40/41/71)	40/41/71	31700		11.65	1760		11.55
2,3,4',6-TeCB	64	28500		3.88	2870		3.86
2,3',5,5'-TeCB	72	10300		3.88	1030		3.86
2,3',4,5'-TeCB	68	6970		3.88	735		3.86
2,3,3',5-TeCB	57	3290		3.88	205		3.86
2,3,3',5'-TeCB	58	1140		3.88	79.6		3.86
2,3',4,5-TeCB	67	4000		3.88	143		3.86
2,3,4',5-TeCB	63	3920		3.88	532		3.86
(61/70/74/76)	61/70/74/76	102000		15.5	10600		15.45

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063			0-360-0088		
Sample Location		5-BG-3-CARCASS			7-C-6-CARCASS		
Percent Solids		25			29.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	74100		3.88	9450		3.86
2,3,3',4-TeCB	55	U		3.88	U		3.86
2,3,3',4'-TeCB	56	11300		3.88	1010		3.86
2,3,4,4'-TeCB	60	4740		3.88	1020		3.86
3,3',5,5'-TeCB	80	8.06	EMPC	3.88	U		3.86
3,3',4,5'-TeCB	79	1720		3.88	339		3.86
3,3',4,5-TeCB	78	U		3.88	U		3.86
3,4,4',5-TeCB	81	93.5	EMPC	3.88	41.5	EMPC	3.86
3,3',4,4'-TeCB	77	2250		3.88	169		3.86
2,2',4,6,6'-PeCB	104	155		3.88	8.99		3.86
2,2',3,6,6'-PeCB	96	881		3.88	63.2		3.86
2,2',4,5',6-PeCB	103	4930		3.88	542		3.86
2,2',3,5,6'-PeCB	94	1280		3.88	90.8		3.86
2,2',3,5',6-PeCB	95	160000		3.88	20800		3.86
(93/98/100/102)	93/98/100/102	10800		15.5	1190		15.45
(88/91)	88/91	40500		7.75	6730		7.70
2,2',3,3',6-PeCB	84	24700		3.88	3910		3.86
2,2',3,4,6'-PeCB	89	428		3.88	84.1		3.86
2,3',4,5',6-PeCB	121	212		3.88	38.3		3.86
2,2',3,5,5'-PeCB	92	93300		3.88	13800		3.86
(90/101/113)	90/101/113	309000		11.65	66300		11.55
2,2',3,3',5-PeCB	83	6030		3.88	2280		3.86
2,2',4,4',5-PeCB	99	208000		3.88	46500		3.86
2,3,3',5,6-PeCB	112	U		3.88	U		3.86
(86/87/97/108/119/125)	86/87/97/108/119/125	160000		23.3	31500		23.15
(85/117/116)	85/116/117	53500		11.65	11800		11.55
(110/115)	110/115	312000		7.75	54600		7.70
2,2',3,3',4-PeCB	82	12100		3.88	2030		3.86
2,3,3',5,5'-PeCB	111	656		3.88	127		3.86
2,3',4,5,5'-PeCB	120	2230		3.88	568		3.86
(107/124)	107/124	9570		7.75	1430		7.70
2,3,3',4,6-PeCB	109	22100		3.88	5120		3.86
2,3',4,4',5'-PeCB	123	3580		3.88	938		3.86
2,3,3',4,5-PeCB	106	U		3.88	U		3.86
2,3',4,4',5-PeCB	118	214000		3.88	63300		3.86
2,3,3',4',5'-PeCB	122	2000		3.88	253		3.86
2,3,4,4',5-PeCB	114	3360		3.88	1020		3.86
2,3,3',4,4'-PeCB	105	58500		3.88	14800		3.86
3,3',4,5,5'-PeCB	127	436		3.88	39.2		3.86
3,3',4,4',5-PeCB	126	560		3.88	147	EMPC	3.86
2,2',4,4',6,6'-HxCB	155	15.9		3.88	6.18		3.86
2,2',3,5,6,6'-HxCB	152	226		3.88	32.8		3.86
2,2',3,4',6,6'-HxCB	150	294		3.88	58.1		3.86
2,2',3,3',6,6'-HxCB	136	18600		3.88	2990		3.86
2,2',3,4,6,6'-HxCB	145	69.4		3.88	16.6		3.86
2,2',3,4',5,6'-HxCB	148	390		3.88	77.4		3.86
(135/151)	135/151	89600		7.75	15100		7.70
2,2',4,4',5,6'-HxCB	154	3740		3.88	825		3.86
2,2',3,4,5',6-HxCB	144	8080		3.88	2510		3.86
(147/149)	147/149	202000		7.75	51900		7.70
(134/143)	134/143	12900		7.75	2510		7.70
(139/140)	139/140	7100		7.75	2270		7.70
2,2',3,3',4,6-HxCB	131	1940		3.88	803		3.86
2,2',3,4,5,6-HxCB	142	U		3.88	U		3.86
2,2',3,3',4,6'-HxCB	132	53000		3.88	15500		3.86
2,2',3,3',5,5'-HxCB	133	5990		3.88	1780		3.86

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063			0-360-0088		
Sample Location		5-BG-3-CARCASS			7-C-6-CARCASS		
Percent Solids		25			29.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	407		3.88	88.8		3.86
2,2',3,4',5,5'-HxCB	146	50200		3.88	18700		3.86
2,3,3',4,5',6-HxCB	161	U		3.88	U		3.86
(153/168)	153/168	241000		7.75	97900		7.70
2,2',3,4,5,5'-HxCB	141	31600		3.88	10800		3.86
2,2',3,3',4,5'-HxCB	130	17400		3.88	5880		3.86
2,2',3,4,4',5-HxCB	137	19800		3.88	8630		3.86
2,3,3',4',5',6-HxCB	164	16100		3.88	3320		3.86
(129/138/163)	129/138/163	342000		11.65	117000		11.55
2,3,3',4,5,6-HxCB	160	U		3.88	U		3.86
2,3,3',4,4',6-HxCB	158	28800		3.88	10900		3.86
(128/166)	128/166	43700		7.75	16300		7.70
2,3,3',4,5,5'-HxCB	159	87.8		3.88	36.8		3.86
2,3,3',4',5,5'-HxCB	162	830		3.88	345		3.86
2,3',4,4',5,5'-HxCB	167	8790		3.88	3950		3.86
(156/157)	156/157	24200		7.75	9820		7.70
3,3',4,4',5,5'-HxCB	169	35.0	EMPC	3.88	40.5	EMPC	3.86
2,2',3,4',5,6,6'-HpCB	188	38.8		3.88	18.6		3.86
2,2',3,3',5,6,6'-HpCB	179	6220		3.88	1990		3.86
2,2',3,4,4',6,6'-HpCB	184	32.1		3.88	15.8		3.86
2,2',3,3',4,6,6'-HpCB	176	1790		3.88	799		3.86
2,2',3,4,5,6,6'-HpCB	186	11.1		3.88	U		3.86
2,2',3,3',5,5',6-HpCB	178	5190		3.88	2000		3.86
2,2',3,3',4,5',6-HpCB	175	788		3.88	423		3.86
2,2',3,4',5,5',6-HpCB	187	58300		3.88	21200		3.86
2,2',3,4,4',5,6'-HpCB	182	179		3.88	77.4		3.86
(183/185)	183/185	15300		7.75	8980		7.70
2,2',3,3',4,5,6'-HpCB	174	13600		3.88	5450		3.86
2,2',3,3',4,5',6'-HpCB	177	11700	J	3.88	4420		3.86
2,2',3,4,4',5,6-HpCB	181	614		3.88	244		3.86
(171/173)	171/173	7540		7.75	3490		7.70
2,2',3,3',4,5,5'-HpCB	172	3400		3.88	2090		3.86
2,3,3',4,5,5',6-HpCB	192	U		3.88	U		3.86
(180/193)	180/193	30800	J	7.75	21400		7.70
2,3,3',4,4',5',6-HpCB	191	715	J	3.88	445		3.86
2,2',3,3',4,4',5-HpCB	170	18400	J	3.88	9470		3.86
2,3,3',4,4',5,6-HpCB	190	800	J	3.88	1150	J	3.86
2,3,3',4,4',5,5'-HpCB	189	900		3.88	409		3.86
2,2',3,3',5,5',6,6'-OcCB	202	775		3.88	691		3.86
2,2',3,3',4,5',6,6'-OcCB	201	506	J	3.88	504		3.86
2,2',3,4,4',5,6,6'-OcCB	204	3.31	EMPC	3.88	U		3.86
(197/200)	197/200	521		7.75	534		7.70
(198/199)	198/199	3690	J	7.75	2930	J	7.70
2,2',3,3',4,4',5,6'-OcCB	196	1520		3.88	1660		3.86
2,2',3,4,4',5,5',6-OcCB	203	2880		3.88	2860		3.86
2,2',3,3',4,4',5,6-OcCB	195	1280		3.88	1140		3.86
2,2',3,3',4,4',5,5'-OcCB	194	2250		3.88	2390		3.86
2,3,3',4,4',5,5',6-OcCB	205	165		3.88	159		3.86
2,2',3,3',4,5,5',6,6'-NoCB	208	298		3.88	663	J	3.86
2,2',3,3',4,4',5,6,6'-NoCB	207	126		3.88	262		3.86
2,2',3,3',4,4',5,5',6-NoCB	206	943		3.88	2090		3.86
Decachlorobiphenyl	209	354		3.88	966		3.86

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063		0-360-0088	
Sample Location		5-BG-3-CARCASS		7-C-6-CARCASS	
Percent Solids		25		29.2	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		707		5.21	
Total Dichloro Biphenyls		19500		346	
Total Trichloro Biphenyls		198000		7800	
Total Tetrachloro Biphenyls		983000		80300	
Total Pentachloro Biphenyls		1710000		350000	
Total Hexachloro Biphenyls		1230000		400000	
Total Heptachloro Biphenyls		176000		84100	
Total Octachloro Biphenyls		13600		12900	
Total Nonachloro Biphenyls		1370		3010	
Decachloro Biphenyls		354		966	
Total PCBS		4340000		939000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069			0-360-0076		
Sample Location		6-C-3-CARCASS			6-BG-2-CARCASS		
Percent Solids		31.4			27.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	925		3.99	563		4.00
3-MoCB	2	9.57		3.99	5.8	EMPC	4.00
4-MoCB	3	29.1		3.99	42.2		4.00
2,2'-DiCB	4	39100		3.99	13100		4.00
2,6-DiCB	10	4400		3.99	1010		4.00
2,5-DiCB	9	1350		3.99	330		4.00
2,4-DiCB	7	408		3.99	224		4.00
2,3'-DiCB	6	5260		3.99	1360		4.00
2,3-DiCB	5	75.8	J	3.99	40.4	EMPC	4.00
2,4'-DiCB	8	7690	J	3.99	3080		4.00
3,5-DiCB	14	U		3.99	U		4.00
3,3'-DiCB	11	U		90.4	U		60.2
(12/13)	12/13	1090		8.00	424		8.00
4,4'-DiCB	15	401		3.99	1010		4.00
2,2',6-TrCB	19	48500		3.99	8930		4.00
(18/30)	18/30	89100	J	8.00	14800		8.00
2,2',4-TrCB	17	70100	J	3.99	19900		4.00
2,3',6-TrCB	27	104000	J	3.99	16900		4.00
2,3,6-TrCB	24	U	J	3.99	U		4.00
2,2',3-TrCB	16	18000	J	3.99	2510		4.00
2,4',6-TrCB	32	76000	J	3.99	16400		4.00
2,3',5'-TrCB	34	2080	J	3.99	296		4.00
2,3,5-TrCB	23	110	J	3.99	24.4		4.00
(26/29)	26/29	152000	J	8.00	39500		8.00
2,3',4-TrCB	25	36400	J	3.99	14900		4.00
2,4',5-TrCB	31	55700	J	3.99	18800		4.00
(20/28)	20/28	109000	J	8.00	31400		8.00
(21/33)	21/33	11600	J	8.00	2590		8.00
2,3,4'-TrCB	22	17900	J	3.99	5470		4.00
3,3',5-TrCB	36	U	J	3.99	U		4.00
3,4',5-TrCB	39	513	J	3.99	112		4.00
3,4,5-TrCB	38	695	J	3.99	134	EMPC	4.00
3,3',4-TrCB	35	U	J	3.99	U		4.00
3,4,4'-TrCB	37	1940	J	3.99	1980		4.00
2,2',6,6'-TeCB	54	9110		3.99	1700		4.00
(50/53)	50/53	246000	J	8.00	28200		8.00
(45/51)	45/51	159000	J	8.00	21900		8.00
2,2',3,6'-TeCB	46	31800	J	3.99	2480		4.00
2,2',5,5'-TeCB	52	1750000	J	200	323000		4
2,3',5',6-TeCB	73	U	J	3.99	U		4.00
2,2',3,5-TeCB	43	27500	J	3.99	2040		4.00
(49/69)	49/69	1190000		399	220000		8
2,2',4,5-TeCB	48	20500	J	3.99	2960		4.00
(44/47/65)	44/47/65	982000		600	167000		12
(59/62/75)	59/62/75	83600	J	12.0	14400		12.0
2,2',3,4'-TeCB	42	160000	J	3.99	25100		4.00
(40/41/71)	40/41/71	240000	J	12.0	34700		12.0
2,3,4',6-TeCB	64	196000	J	3.99	33300		4.00
2,3',5,5'-TeCB	72	58100	J	3.99	10500		4.00
2,3',4,5'-TeCB	68	36800	J	3.99	7350		4.00
2,3,3',5-TeCB	57	12300	J	3.99	4540		4.00
2,3,3',5'-TeCB	58	7480	J	3.99	1390		4.00
2,3',4,5-TeCB	67	9430	J	3.99	4870		4.00
2,3,4',5-TeCB	63	23400	J	3.99	4120		4.00

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069			0-360-0076		
Sample Location		6-C-3-CARCASS			6-BG-2-CARCASS		
Percent Solids		31.4			27.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
(61/70/74/76)	61/70/74/76	368000	J	16.0	103000		16.0
2,3',4,4'-TeCB	66	354000	J	3.99	75800		4.00
2,3,3',4-TeCB	55	U	J	3.99	U		4.00
2,3,3',4'-TeCB	56	36300	J	3.99	11400		4.00
2,3,4,4'-TeCB	60	20400	J	3.99	4460		4.00
3,3',5,5'-TeCB	80	U	J	3.99	U		4.00
3,3',4,5'-TeCB	79	7670	J	3.99	1900		4.00
3,3',4,5-TeCB	78	U	J	3.99	U		4.00
3,4,4',5-TeCB	81	527	EMPC	3.99	107	EMPC	4.00
3,3',4,4'-TeCB	77	2960	J	3.99	2060		4.00
2,2',4,6,6'-PeCB	104	881		3.99	160		4.00
2,2',3,6,6'-PeCB	96	14800		3.99	1350		4.00
2,2',4,5',6-PeCB	103	36900		3.99	5800		4.00
2,2',3,5,6'-PeCB	94	14600		3.99	1250		4.00
2,2',3,5',6-PeCB	95	886000		200	171000		4
(93/98/100/102)	93/98/100/102	84000		16.0	11600		16.0
(88/91)	88/91	369000		8.00	45700		8.00
2,2',3,3',6-PeCB	84	372000		3.99	32100		4.00
2,2',3,4,6'-PeCB	89	7220		3.99	563		4.00
2,3',4,5',6-PeCB	121	1430		3.99	210		4.00
2,2',3,5,5'-PeCB	92	566000		3.99	95400		4.00
(90/101/113)	90/101/113	1470000		600	318000		12
2,2',3,3',5-PeCB	83	150000		3.99	10600		4.00
2,2',4,4',5-PeCB	99	894000		200	212000		4
2,3,3',5,6-PeCB	112	U		3.99	U		4.00
(86/87/97/108/119/125)	86/87/97/108/119/125	831000		1200	177000		24
(85/117/116)	85/116/117	312000		12.0	52500		12.0
(110/115)	110/115	1600000		399	348000		8
2,2',3,3',4-PeCB	82	114000		3.99	15900		4.00
2,3,3',5,5'-PeCB	111	4700		3.99	652		4.00
2,3',4,5,5'-PeCB	120	20000		3.99	2420		4.00
(107/124)	107/124	35400		8.00	8580		8.00
2,3,3',4,6-PeCB	109	120000		3.99	21600		4.00
2,3',4,4',5'-PeCB	123	37000		3.99	4660		4.00
2,3,3',4,5-PeCB	106	U		3.99	U		4.00
2,3',4,4',5-PeCB	118	886000	J	3.99	223000		4.00
2,3,3',4',5'-PeCB	122	6970		3.99	1970		4.00
2,3,4,4',5-PeCB	114	23800		3.99	3340		4.00
2,3,3',4,4'-PeCB	105	333000		3.99	61400		4.00
3,3',4,5,5'-PeCB	127	2990		3.99	373		4.00
3,3',4,4',5-PeCB	126	3450	EMPC	3.99	437	EMPC	4.00
2,2',4,4',6,6'-HxCB	155	119		3.99	12.8		4.00
2,2',3,5,6,6'-HxCB	152	1930		3.99	244		4.00
2,2',3,4',6,6'-HxCB	150	2740	J	3.99	294		4.00
2,2',3,3',6,6'-HxCB	136	164000	J	3.99	19200		4.00
2,2',3,4,6,6'-HxCB	145	741	J	3.99	65.9		4.00
2,2',3,4',5,6'-HxCB	148	2560	J	3.99	330		4.00
(135/151)	135/151	505000	J	8.00	64400		8.00
2,2',4,4',5,6'-HxCB	154	26000	J	3.99	3560		4.00
2,2',3,4,5',6-HxCB	144	64000	J	3.99	8380		4.00
(147/149)	147/149	1140000	J	8.00	157000		8.00
(134/143)	134/143	96900	J	8.00	12400		8.00
(139/140)	139/140	53200	J	8.00	6420		8.00
2,2',3,3',4,6-HxCB	131	25300	J	3.99	2210		4.00
2,2',3,4,5,6-HxCB	142	U	J	3.99	U		4.00
2,2',3,3',4,6'-HxCB	132	389000	J	3.99	53600		4.00

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069			0-360-0076		
Sample Location		6-C-3-CARCASS			6-BG-2-CARCASS		
Percent Solids		31.4			27.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,2',3,3',5,5'-HxCB	133	39200	J	3.99	5040		4.00
2,3,3',5,5',6-HxCB	165	2150	J	3.99	285		4.00
2,2',3,4',5,5'-HxCB	146	327000	J	3.99	39100		4.00
2,3,3',4,5',6-HxCB	161	U	J	3.99	U		4.00
(153/168)	153/168	1440000	J	399	208000		8
2,2',3,4,5,5'-HxCB	141	193000	J	3.99	30500		4.00
2,2',3,3',4,5'-HxCB	130	138000	J	3.99	15700		4.00
2,2',3,4,4',5-HxCB	137	155000	J	3.99	18400		4.00
2,3,3',4',5',6-HxCB	164	71800	J	3.99	12300		4.00
(129/138/163)	129/138/163	1860000		600	289000		12
2,3,3',4,5,6-HxCB	160	U	J	3.99	U		4.00
2,3,3',4,4',6-HxCB	158	215000	J	3.99	26700		4.00
(128/166)	128/166	323000	J	8.00	42000		8.00
2,3,3',4,5,5'-HxCB	159	331	J	3.99	391		4.00
2,3,3',4',5,5'-HxCB	162	7570	J	3.99	1100	J	4.00
2,3',4,4',5,5'-HxCB	167	74400	J	3.99	7440		4.00
(156/157)	156/157	214000	J	8.00	22600		8.00
3,3',4,4',5,5'-HxCB	169	121	EMPC	3.99	27.2	EMPC	4.00
2,2',3,4',5,6,6'-HpCB	188	247		3.99	31.9		4.00
2,2',3,3',5,6,6'-HpCB	179	34800		3.99	4850		4.00
2,2',3,4,4',6,6'-HpCB	184	228		3.99	24.9		4.00
2,2',3,3',4,6,6'-HpCB	176	15200		3.99	1590		4.00
2,2',3,4,5,6,6'-HpCB	186	101		3.99	11		4.00
2,2',3,3',5,5',6-HpCB	178	26300		3.99	3560		4.00
2,2',3,3',4,5',6-HpCB	175	5980		3.99	654		4.00
2,2',3,4',5,5',6-HpCB	187	199000		3.99	22700		4.00
2,2',3,4,4',5,6'-HpCB	182	1200		3.99	144		4.00
(183/185)	183/185	99800		8.00	12200		8.00
2,2',3,3',4,5,6'-HpCB	174	71200		3.99	9770		4.00
2,2',3,3',4,5',6'-HpCB	177	64400		3.99	8030	J	4.00
2,2',3,4,4',5,6-HpCB	181	4600		3.99	473		4.00
(171/173)	171/173	52500		8.00	5770		8.00
2,2',3,3',4,5,5'-HpCB	172	23600		3.99	2240		4.00
2,3,3',4,5,5',6-HpCB	192	22		3.99	U		4.00
(180/193)	180/193	254000		8.00	23200		8.00
2,3,3',4,4',5',6-HpCB	191	6060	J	3.99	515	J	4.00
2,2',3,3',4,4',5-HpCB	170	153000	J	3.99	13600		4.00
2,3,3',4,4',5,6-HpCB	190	24900	J	3.99	2120	J	4.00
2,3,3',4,4',5,5'-HpCB	189	7920		3.99	554		4.00
2,2',3,3',5,5',6,6'-OcCB	202	5040		3.99	584	J	4.00
2,2',3,3',4,5',6,6'-OcCB	201	3830		3.99	427	J	4.00
2,2',3,4,4',5,6,6'-OcCB	204	29		3.99	U		4.00
(197/200)	197/200	4730		8.00	427		8.00
(198/199)	198/199	29500	J	8.00	2240	J	8.00
2,2',3,3',4,4',5,6'-OcCB	196	15300		3.99	1190		4.00
2,2',3,4,4',5,5',6-OcCB	203	24900		3.99	2180		4.00
2,2',3,3',4,4',5,6-OcCB	195	10700		3.99	964		4.00
2,2',3,3',4,4',5,5'-OcCB	194	23600		3.99	1400		4.00
2,3,3',4,4',5,5',6-OcCB	205	1350		3.99	111		4.00
2,2',3,3',4,5,5',6,6'-NoCB	208	3130		3.99	230	J	4.00
2,2',3,3',4,4',5,6,6'-NoCB	207	1410		3.99	102		4.00
2,2',3,3',4,4',5,5',6-NoCB	206	9780		3.99	662		4.00
Decachlorobiphenyl	209	4900		3.99	334		4.00

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069		0-360-0076	
Sample Location		6-C-3-CARCASS		6-BG-2-CARCASS	
Percent Solids		31.4		27.2	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		964		805	
Total Dichloro Biphenyls		59900		20600	
Total Trichloro Biphenyls		793000		195000	
Total Tetrachloro Biphenyls		6030000		110000	
Total Pentachloro Biphenyls		9200000		1830000	
Total Hexachloro Biphenyls		7540000		1050000	
Total Heptachloro Biphenyls		1040000		112000	
Total Octachloro Biphenyls		119000		9510	
Total Nonachloro Biphenyls		14300		994	
Decachloro Biphenyls		4900		334	
Total PCBS		24800000		4320000	

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Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2-CARCASS
Percent Solids	26.1

Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg
2-MoCB	1	176		3.91
3-MoCB	2	5.7		3.91
4-MoCB	3	33.7		3.91
2,2'-DiCB	4	944		3.91
2,6-DiCB	10	68		3.91
2,5-DiCB	9	88.6		3.91
2,4-DiCB	7	53.3		3.91
2,3'-DiCB	6	487		3.91
2,3-DiCB	5	U		3.91
2,4'-DiCB	8	1540		3.91
3,5-DiCB	14	U		3.91
3,3'-DiCB	11	U		132
(12/13)	12/13	177		7.80
4,4'-DiCB	15	611		3.91
2,2',6-TrCB	19	211		3.91
(18/30)	18/30	1260		7.80
2,2',4-TrCB	17	1550		3.91
2,3',6-TrCB	27	3850		3.91
2,3,6-TrCB	24	U		3.91
2,2',3-TrCB	16	385		3.91
2,4',6-TrCB	32	3100		3.91
2,3',5'-TrCB	34	90.7		3.91
2,3,5-TrCB	23	5.81		3.91
(26/29)	26/29	8460		7.80
2,3',4-TrCB	25	3300		3.91
2,4',5-TrCB	31	5540		3.91
(20/28)	20/28	9110		7.80
(21/33)	21/33	552		7.80
2,3,4'-TrCB	22	1510		3.91
3,3',5-TrCB	36	U		3.91
3,4',5-TrCB	39	22.4	EMPC	3.91
3,4,5-TrCB	38	14.4		3.91
3,3',4-TrCB	35	U		3.91
3,4,4'-TrCB	37	866		3.91
2,2',6,6'-TeCB	54	44.1		3.91
(50/53)	50/53	3020		7.80
(45/51)	45/51	1210		7.80
2,2',3,6'-TeCB	46	187		3.91
2,2',5,5'-TeCB	52	48100		3.91
2,3',5',6-TeCB	73	U		3.91
2,2',3,5-TeCB	43	544		3.91
(49/69)	49/69	37300		7.80
2,2',4,5-TeCB	48	656		3.91
(44/47/65)	44/47/65	43000		11.7
(59/62/75)	59/62/75	3260		11.7
2,2',3,4'-TeCB	42	3640		3.91
(40/41/71)	40/41/71	5590		11.7
2,3,4',6-TeCB	64	4120		3.91
2,3',5,5'-TeCB	72	3290		3.91
2,3',4,5'-TeCB	68	2280		3.91
2,3,3',5-TeCB	57	1360		3.91
2,3,3',5'-TeCB	58	369		3.91
2,3',4,5-TeCB	67	1240		3.91
2,3,4',5-TeCB	63	1280		3.91
(61/70/74/76)	61/70/74/76	28900		15.6

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2-CARCASS
Percent Solids	26.1

Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	23700		3.91
2,3,3',4-TeCB	55	U		3.91
2,3,3',4'-TeCB	56	2590		3.91
2,3,4,4'-TeCB	60	1610		3.91
3,3',5,5'-TeCB	80	U		3.91
3,3',4,5'-TeCB	79	473		3.91
3,3',4,5-TeCB	78	U		3.91
3,4,4',5-TeCB	81	50.4	EMPC	3.91
3,3',4,4'-TeCB	77	905		3.91
2,2',4,6,6'-PeCB	104	26.2		3.91
2,2',3,6,6'-PeCB	96	76.8		3.91
2,2',4,5',6-PeCB	103	1140		3.91
2,2',3,5,6'-PeCB	94	418		3.91
2,2',3,5',6-PeCB	95	33300		3.91
(93/98/100/102)	93/98/100/102	3640		15.6
(88/91)	88/91	10000		7.80
2,2',3,3',6-PeCB	84	4540		3.91
2,2',3,4,6'-PeCB	89	81.8		3.91
2,3',4,5',6-PeCB	121	93.7		3.91
2,2',3,5,5'-PeCB	92	36700		3.91
(90/101/113)	90/101/113	117000		11.7
2,2',3,3',5-PeCB	83	2530		3.91
2,2',4,4',5-PeCB	99	92200		3.91
2,3,3',5,6-PeCB	112	U		3.91
(86/87/97/108/119/125)	86/87/97/108/119/125	50400		23.5
(85/117/116)	85/116/117	23000		11.7
(110/115)	110/115	56200		7.80
2,2',3,3',4-PeCB	82	2010		3.91
2,3,3',5,5'-PeCB	111	297		3.91
2,3',4,5,5'-PeCB	120	1100		3.91
(107/124)	107/124	3730		7.80
2,3,3',4,6-PeCB	109	9300		3.91
2,3',4,4',5'-PeCB	123	1680		3.91
2,3,3',4,5-PeCB	106	U		3.91
2,3',4,4',5-PeCB	118	107000		3.91
2,3,3',4',5'-PeCB	122	776		3.91
2,3,4,4',5-PeCB	114	1650		3.91
2,3,3',4,4'-PeCB	105	28400		3.91
3,3',4,5,5'-PeCB	127	188		3.91
3,3',4,4',5-PeCB	126	164	EMPC	3.91
2,2',4,4',6,6'-HxCB	155	9.78		3.91
2,2',3,5,6,6'-HxCB	152	61.4		3.91
2,2',3,4',6,6'-HxCB	150	67.2		3.91
2,2',3,3',6,6'-HxCB	136	3960		3.91
2,2',3,4,6,6'-HxCB	145	23.6		3.91
2,2',3,4',5,6'-HxCB	148	168		3.91
(135/151)	135/151	28400		7.80
2,2',4,4',5,6'-HxCB	154	1750		3.91
2,2',3,4,5',6-HxCB	144	3200		3.91
(147/149)	147/149	55200		7.80
(134/143)	134/143	5310		7.80
(139/140)	139/140	3240		7.80
2,2',3,3',4,6-HxCB	131	719		3.91
2,2',3,4,5,6-HxCB	142	U		3.91
2,2',3,3',4,6'-HxCB	132	17900		3.91
2,2',3,3',5,5'-HxCB	133	2690		3.91

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2-CARCASS
Percent Solids	26.1

Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	162		3.91
2,2',3,4',5,5'-HxCB	146	20400		3.91
2,3,3',4,5',6-HxCB	161	U		3.91
(153/168)	153/168	114000		7.80
2,2',3,4,5,5'-HxCB	141	15500		3.91
2,2',3,3',4,5'-HxCB	130	8350		3.91
2,2',3,4,4',5-HxCB	137	8120		3.91
2,3,3',4',5',6-HxCB	164	6300		3.91
(129/138/163)	129/138/163	149000		11.7
2,3,3',4,5,6-HxCB	160	U		3.91
2,3,3',4,4',6-HxCB	158	13900		3.91
(128/166)	128/166	20900		7.80
2,3,3',4,5,5'-HxCB	159	15.5		3.91
2,3,3',4',5,5'-HxCB	162	452		3.91
2,3',4,4',5,5'-HxCB	167	5330		3.91
(156/157)	156/157	13400		7.80
3,3',4,4',5,5'-HxCB	169	19.6	EMPC	3.91
2,2',3,4',5,6,6'-HpCB	188	19.7		3.91
2,2',3,3',5,6,6'-HpCB	179	2130		3.91
2,2',3,4,4',6,6'-HpCB	184	16.4		3.91
2,2',3,3',4,6,6'-HpCB	176	652		3.91
2,2',3,4,5,6,6'-HpCB	186	4.72	EMPC	3.91
2,2',3,3',5,5',6-HpCB	178	2530		3.91
2,2',3,3',4,5',6-HpCB	175	463		3.91
2,2',3,4',5,5',6-HpCB	187	18600		3.91
2,2',3,4,4',5,6'-HpCB	182	102		3.91
(183/185)	183/185	8700		7.80
2,2',3,3',4,5,6'-HpCB	174	4650		3.91
2,2',3,3',4,5',6'-HpCB	177	5340		3.91
2,2',3,4,4',5,6-HpCB	181	299		3.91
(171/173)	171/173	3700		7.80
2,2',3,3',4,5,5'-HpCB	172	1720		3.91
2,3,3',4,5,5',6-HpCB	192	U		3.91
(180/193)	180/193	18000		7.80
2,3,3',4,4',5',6-HpCB	191	394		3.91
2,2',3,3',4,4',5-HpCB	170	9540	J	3.91
2,3,3',4,4',5,6-HpCB	190	1280		3.91
2,3,3',4,4',5,5'-HpCB	189	376		3.91
2,2',3,3',5,5',6,6'-OcCB	202	465		3.91
2,2',3,3',4,5',6,6'-OcCB	201	314		3.91
2,2',3,4,4',5,6,6'-OcCB	204	U		3.91
(197/200)	197/200	265		7.80
(198/199)	198/199	1740	J	7.80
2,2',3,3',4,4',5,6'-OcCB	196	926		3.91
2,2',3,4,4',5,5',6-OcCB	203	1550		3.91
2,2',3,3',4,4',5,6-OcCB	195	609		3.91
2,2',3,3',4,4',5,5'-OcCB	194	1060		3.91
2,3,3',4,4',5,5',6-OcCB	205	78		3.91
2,2',3,3',4,5,5',6,6'-NoCB	208	199	J	3.91
2,2',3,3',4,4',5,6,6'-NoCB	207	77.6		3.91
2,2',3,3',4,4',5,5',6-NoCB	206	563		3.91
Decachlorobiphenyl	209	204		3.91

Table 1.1 Results of the Analysis for PCB Congeners in Carcass Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2-CARCASS
Percent Solids	26.1

Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg
Congener Group			
Total Monochloro Biphenyls		216	
Total Dichloro Biphenyls		4100	
Total Trichloro Biphenyls		39800	
Total Tetrachloro Biphenyls		219000	
Total Pentachloro Biphenyls		588000	
Total Hexachloro Biphenyls		499000	
Total Heptachloro Biphenyls		78500	
Total Octachloro Biphenyls		7010	
Total Nonachloro Biphenyls		840	
Decachloro Biphenyls		204	
Total PCBS		1440000	

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Table 2.1 Results of the MS/MSD Analysis for PCB Congeners in Carcass Tissue
WA # 360 Cornell Dublier Biological Sampling
Results Based on Wet Weight

Sample Number 0-360-0023 (2-P-3-CARCASS)

Analyte	IUPAC	Sample Result	MS Spike Amount mg/Kg	MS Result ng/Kg	Background Subtracted % Recovery		MSD Spike Amount mg/Kg	MSD Result ng/Kg	Background Subtracted % Recovery		RPD		QC Limits % Recovery	RPD
2-MoCB	1	1460	98.7	1730	NC		97	1770	NC		16		50-150	20
4-MoCB	3	145	98.7	258	114		97	261	120		4		50-150	20
2,2'-DiCB	4	17300	98.7	18100	NC		97	18900	NC		68	*	50-150	20
4,4'-DiCB	15	1820	98.7	1910	NC		97	1950	NC		38	*	50-150	20
2,2',6-TrCB	19	8940	98.7	9820	NC		97	10500	NC		57	*	50-150	20
3,4,4'-TrCB	37	3130	98.7	3230	NC		97	3660	NC		137	*	50-150	20
2,2',6,6'-TeCB	54	1870	98.7	2270	NC		97	2150	NC		34	*	50-150	20
3,4,4',5-TeCB	81	147	98.7	289	144		97	239	95		41	*	50-150	20
3,3',4,4'-TeCB	77	2660	98.7	2940	NC		97	2980	NC		15		50-150	20
2,2',4,6,6'-PeCB	104	182	98.7	281	100		97	276	97		3		50-150	20
2,3',4,4',5'-PeCB	123	4220	98.7	5110	NC		97	4530	NC		95	*	50-150	20
2,3',4,4',5-PeCB	118	263000	98.7	273000	NC		97	274000	NC		11		50-150	20
2,3,4,4',5-PeCB	114	3900	98.7	4150	NC		97	4410	NC		70	*	50-150	20
2,3,3',4,4'-PeCB	105	68200	98.7	72000	NC		97	74000	NC		43	*	50-150	20
3,3',4,4',5-PeCB	126	0	98.7	837	848	*	97	786	810	*	5		50-150	20
2,2',4,4',6,6'-HxCB	155	16.8	98.7	122	107		97	123	109		3		50-150	20
2,3',4,4',5,5'-HxCB	167	9990	98.7	11300	NC		97	11900	NC		39	*	50-150	20
(156/157)	156/157	28700	197	29500	NC		194	31400	NC		110	*	50-150	20
3,3',4,4',5,5'-HxCB	169	0	98.7	114	115		97	100	105		9		50-150	20
2,2',3,4',5,6,6'-HpCB	188	32.6	98.7	136	105		97	133	104		1		50-150	20
2,3,3',4,4',5,5'-HpCB	189	920	98.7	1040	NC		97	1080	NC		30	*	50-150	20
2,2',3,3',5,5',6,6'-OcCB	202	701	98.7	858	NC		97	884	NC		17		50-150	20
2,3,3',4,4',5,5',6-OcCB	205	188	98.7	305	119		97	309	125		5		50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	208	252	98.7	371	121		97	372	124		3		50-150	20
2,2',3,3',4,4',5,5',6-NoCB	206	980	98.7	1140	NC		97	1140	NC		2		50-150	20
Decachlorobiphenyl	209	338	98.7	454	118		97	449	114		3		50-150	20

Table 2.2 Results of the LCS/LCSD Analysis for PCB Congeners in Carcass Tissue
WA # 360 Cornell Dublier Biological Sampling
Results Based on Wet Weight

Sample Number LCS 18162

Analyte	IUPAC	LCS/LCSD Spike Added ng	LCS Recovered ng	% Recovery	QC Limits % Recovery	QC Limits RPD
2-MoCB	1	1.00	1.12	112	50-150	20
4-MoCB	3	1.00	1.10	110	50-150	20
2,2'-DiCB	4	1.00	1.07	107	50-150	20
4,4'-DiCB	15	1.00	1.10	110	50-150	20
2,2',6-TrCB	19	1.00	1.13	113	50-150	20
3,4,4'-TrCB	37	1.00	1.08	108	50-150	20
2,2',6,6'-TeCB	54	1.00	1.00	100	50-150	20
3,4,4',5-TeCB	81	1.00	1.04	104	50-150	20
3,3',4,4'-TeCB	77	1.00	1.03	103	50-150	20
2,2',4,6,6'-PeCB	104	1.00	1.04	104	50-150	20
2,3',4,4',5'-PeCB	123	1.00	0.999	100	50-150	20
2,3',4,4',5-PeCB	118	1.00	1.36	136	50-150	20
2,3,4,4',5-PeCB	114	1.00	1.06	106	50-150	20
2,3,3',4,4'-PeCB	105	1.00	1.10	110	50-150	20
3,3',4,4',5-PeCB	126	1.00	1.01	101	50-150	20
2,2',4,4',6,6'-HxCB	155	1.00	1.08	108	50-150	20
2,3',4,4',5,5'-HxCB	167	1.00	1.06	106	50-150	20
(156/157)	156/157	2.00	2.06	103	50-150	20
3,3',4,4',5,5'-HxCB	169	1.00	1.02	102	50-150	20
2,2',3,4',5,6,6'-HpCB	188	1.00	1.04	104	50-150	20
2,3,3',4,4',5,5'-HpCB	189	1.00	0.995	100	50-150	20
2,2',3,3',5,5',6,6'-OcCB	202	1.00	1.05	105	50-150	20
2,3,3',4,4',5,5',6-OcCB	205	1.00	1.02	102	50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	208	1.00	1.03	103	50-150	20
2,2',3,3',4,4',5,5',6-NoCB	206	1.00	1.02	102	50-150	20
Decachlorobiphenyl	209	1.00	1.02	102	50-150	20

Table 3

Table of PCB Species by Congener Number

PCB CONGENERS	#	PCB CONGENERS	#	PCB CONGENERS	#	PCB CONGENERS	#
2-MoCB	1	2,2',6,6'-TeCB	54	2,3,3',4',5-PeCB	107	2,3,3',4,5,6-HxCB	160
3-MoCB	2	2,3,3',4'-TeCB	55	2,3,3',4,5'-PeCB	108	2,3,3',4,5',6-HxCB	161
4-MoCB	3	2,3,3',4'-TeCB	56	2,3,3',4,6-PeCB	109	2,3,3',4',5,5'-HxCB	162
2,2'-DiCB	4	2,3,3',5-TeCB	57	2,3,3',4',6-PeCB	110	2,3,3',4',5,6-HxCB	163
2,3-DiCB	5	2,3,3',5'-TeCB	58	2,3,3',5,5'-PeCB	111	2,3,3',4',5',6-HxCB	164
2,3'-DiCB	6	2,3,3',6-TeCB	59	2,3,3',5,6-PeCB	112	2,3,3',5,5',6-HxCB	165
2,4-DiCB	7	2,3,4,4'-TeCB	60	2,3,3',5',6-PeCB	113	2,3,4,4',5,6-HxCB	166
2,4'-DiCB1	8	2,3,4,5-TeCB	61	2,3,4,4',5-PeCB1,2	114	2,3,4,4',5,5'-HxCB2	167
2,5-DiCB	9	2,3,4,6-TeCB	62	2,3,4,4',6-PeCB	115	2,3',4,4',5',6-HxCB	168
2,6-DiCB	10	2,3,4',5-TeCB	63	2,3,4,5,6-PeCB	116	3,3',4,4',5,5'-HxCB1,2	169
3,3'-DiCB	11	2,3,4',6-TeCB	64	2,3,4',5,6-PeCB	117	2,2',3,3',4,4',5-HpCB1	170
3,4-DiCB	12	2,3,5,6-TeCB	65	2,3',4,4',5-PeCB1,2	118	2,2',3,3',4,4',6-HpCB	171
3,4'-DiCB	13	2,3',4,4'-TeCB1	66	2,3',4,4',6-PeCB	119	2,2',3,3',4,5,5'-HpCB	172
3,5-DiCB	14	2,3',4,5-TeCB	67	2,3',4,5,5'-PeCB	120	2,2',3,3',4,5,6-HpCB	173
4,4'-DiCB	15	2,3',4,5'-TeCB	68	2,3',4,5,6-PeCB	121	2,2',3,3',4,5,6'-HpCB	174
2,2',3-TrCB	16	2,3',4,6-TeCB	69	2',3,3',4,5-PeCB	122	2,2',3,3',4,5',6-HpCB	175
2,2',4-TrCB	17	2,3',4',5-TeCB	70	2',3,4,4',5-PeCB2	123	2,2',3,3',4,6,6'-HpCB	176
2,2',5-TrCB1	18	2,3',4',6-TeCB	71	2',3,4,5,5'-PeCB	124	2,2',3,3',4',5,6-HpCB	177
2,2',6-TrCB	19	2,3',5,5'-TeCB	72	2',3,4,5,6'-PeCB	125	2,2',3,3',5,5',6-HpCB	178
2,3,3'-TrCB	20	2,3',5',6-TeCB	73	3,3',4,4',5-PeCB1,2	126	2,2',3,3',5,6,6'-HpCB	179
2,3,4-TrCB	21	2,4,4',5-TeCB	74	3,3',4,5,5'-PeCB	127	2,2',3,4,4',5,5'-HpCB1	180
2,3,4'-TrCB	22	2,4,4',6-TeCB	75	2,2',3,3',4,4'-HxCB1	128	2,2',3,4,4',5,6-HpCB	181
2,3,5-TrCB	23	2',3,4',5-TeCB	76	2,2',3,3',4,5-HxCB	129	2,2',3,4,4',5,6'-HpCB	182
2,3,6-TrCB	24	3,3',4,4'-TeCB1,2	77	2,2',3,3',4,5'-HxCB	130	2,2',3,4,4',5',6-HpCB	183
2,3',4-TrCB	25	3,3',4,5-TeCB	78	2,2',3,3',4,6-HxCB	131	2,2',3,4,4',6,6'-HpCB	184
2,3',5-TrCB	26	3,3',4,5'-TeCB	79	2,2',3,3',4,6'-HxCB	132	2,2',3,4,5,5',6-HpCB	185
2,3',6-TrCB	27	3,3',5,5'-TeCB	80	2,2',3,3',5,5'-HxCB	133	2,2',3,4,5,6,6'-HpCB	186
2,4,4'-TrCB1	28	3,4,4',5-TeCB2	81	2,2',3,3',5,6-HxCB	134	2,2',3,4,5,5',6-HpCB1	187
2,4,5-TrCB	29	2,2',3,3',4-PeCB	82	2,2',3,3',5,6'-HxCB	135	2,2',3,4',5,6,6'-HpCB	188
2,4,6-TrCB	30	2,2',3,3',5-PeCB	83	2,2',3,3',6,6'-HxCB	136	2,3,3',4,4',5,5'-HpCB2	189

2,4',5-TrCB	31	2,2',3,3',6-PeCB	84	2,2',3,4,4',5-HxCB	137	2,3,3',4,4',5,6-HpCB	190
2,4',6-TrCB	32	2,2',3,4,4'-PeCB	85	2,2',3,4,4',5'-HxCB1	138	2,3,3',4,4',5',6-HpCB	191
2',3,4-TrCB	33	2,2',3,4,5-PeCB	86	2,2',3,4,4',6-HxCB	139	2,3,3',4,5,5',6-HpCB	192
2',3,5-TrCB	34	2,2',3,4,5'-PeCB	87	2,2',3,4,4',6'-HxCB	140	2,3,3',4',5,5',6-HpCB	193
3,3',4-TrCB	35	2,2',3,4,6-PeCB	88	2,2',3,4,5,5'-HxCB	141	2,2',3,3',4,4',5,5'-OcCB	194
3,3',5-TrCB	36	2,2',3,4,6'-PeCB	89	2,2',3,4,5,6-HxCB	142	2,2',3,3',4,4',5,6-OcCB1	195
3,4,4'-TrCB	37	2,2',3,4',5-PeCB	90	2,2',3,4,5,6'-HxCB	143	2,2',3,3',4,4',5,6'-OcCB	196
3,4,5-TrCB	38	2,2',3,4',6-PeCB	91	2,2',3,4,5',6-HxCB	144	2,2',3,3',4,4',6,6'-OcCB	197
3,4',5-TrCB	39	2,2',3,5,5'-PeCB	92	2,2',3,4,6,6'-HxCB	145	2,2',3,3',4,5,5',6-OcCB	198
2,2',3,3'-TeCB	40	2,2',3,5,6-PeCB	93	2,2',3,4',5,5'-HxCB	146	2,2',3,3',4,5,5',6'-OcCB	199
2,2',3,4-TeCB	41	2,2',3,5,6'-PeCB	94	2,2',3,4',5,6-HxCB	147	2,2',3,3',4,5,6,6'-OcCB	200
2,2',3,4'-TeCB	42	2,2',3,5',6-PeCB	95	2,2',3,4',5,6'-HxCB	148	2,2',3,3',4,5',6,6'-OcCB	201
2,2',3,5-TeCB	43	2,2',3,6,6'-PeCB	96	2,2',3,4',5',6-HxCB	149	2,2',3,3',5,5',6,6'-OcCB	202
2,2',3,5'-TeCB1	44	2,2',3',4,5-PeCB	97	2,2',3,4',6,6'-HxCB	150	2,2',3,4,4',5,5',6-OcCB	203
2,2',3,6-TeCB	45	2,2',3',4,6-PeCB	98	2,2',3,5,5',6-HxCB	151	2,2',3,4,4',5,6,6'-OcCB	204
2,2',3,6'-TeCB	46	2,2',4,4',5-PeCB	99	2,2',3,5,6,6'-HxCB	152	2,3,3',4,4',5,5',6-OcCB	205
2,2',3,4'-TeCB	47	2,2',4,4',6-PeCB	100	2,2',4,4',5,5'-HxCB1	153	2,2',3,3',4,4',5,5',6-NoCB1	206
2,2',4,5-TeCB	48	2,2',4,5,5'-PeCB1	101	2,2',4,4',5',6-HxCB	154	2,2',3,3',4,4',5,6,6'-NoCB	207
2,2',4,5'-TeCB	49	2,2',4,5,6'-PeCB	102	2,2',4,4',6,6'-HxCB	155	2,2',3,3',4,5,5',6,6'-NoCB	208
2,2',4,6-TeCB	50	2,2',4,5,6'-PeCB	103	2,3,3',4,4',5-HxCB2	156	DeCB1	209
2,2',4,6'-TeCB	51	2,2',4,6,6'-PeCB	104	2,3,3',4,4',5'-HxCB2	157		
2,2',5,5'-TeCB1	52	2,3,3'4,4'-PeCB1,2	105	2,3,3',4,4',6-HxCB	158		
2,2',5,6'-TeCB	53	2,3,3',4,5-PeCB	106	2,3,3',4,5,5'-HxCB	159		

[1]National Oceanic and Atmospheric Administration (NOAA) congener of interest

[2]World Health Organization (WHO) toxic congener

MoCB = monochlorobiphenyl
DiCB = dichlorobiphenyl
TrCB = trichlorobiphenyl
TeCB = tetrachlorobiphenyl
PeCB = pentachlorobiphenyl
HxCB = hexachlorobiphenyl
HpCB = heptachlorobiphenyl
OcCB = octachlorobiphenyl
NoCB = nonaclorobiphenyl
DeCB = decachlorobiphenyl

TYPICAL CO-ELUTERS	
PCBs # 12 & 13	PCBs # 88 & 91
PCBs # 18 & 30	PCBs # 90, 101 & 113
PCBs # 26 & 29	PCBs # 86, 87, 97, 108, 119 & 125
PCBs # 20 & 28	PCBs # 85 & 116
PCBs # 21 & 33	PCBs # 107 & 124
PCBs # 50 & 53	PCBs # 135 & 151
PCBs # 45 & 51	PCBs # 147 & 149
PCBs # 43 & 73	PCBs # 139 & 140
PCBs # 49 & 69	PCBs # 153 & 168
PCBs # 44, 47 & 65	PCBs # 129, 138 & 163
PCBs # 59, 62 & 75	PCBs # 128 & 166
PCBs # 41, 71 & 40	PCBs # 156 & 157
PCBs # 70, 61, 74 & 76	PCBs # 171 & 173
PCBs # 93 & 100	PCBs # 180 & 193
PCBs # 98 & 102	PCBs # 198 & 199

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Pace WI
1241 Bellevue Street
Suite 9
Greenbay, WI 54302

Attn: Todd Noltemeyer

October 30, 2008

As per Lockheed Martin Purchase Order 7100045713 for Project 0360, please analyze for the following parameters:

Analysis/Method	Matrix	# of samples
PBC Congeners/ SW-846-1668A(209 Congeners)	Asiatic Clams Sunfish Carp White Suckers	5 16 4 14
PCB/SW-846-8082	Asiatic Clams Sunfish Carp White Suckers	15 78 32 58
% Lipids/ PACE SOP S-GB-L-003 Rev. 1	Tissue	110
% Solids	Tissue	110
Data package: Package with Diskette Deliverable		

The samples arrived at your laboratory between October 17-24, 2008. The lab will follow the attached instructions for each matrix. **All applicable QA/QC**(eg: MS/MSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to REAC 20 business days after receipt of the samples. The complete data package is due 30 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable(See attached checklist for format).

All results should be reported on dry weight basis and wet weight basis.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**. Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Joseph M Soroka for VK

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
L. Lyons
0360\non\mem\0810\sub\0360Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
M. Sprenger

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0001	1-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0002	1-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0003	1-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0004	1-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0005	1-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0006	1-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0007	1-WS-7	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0013	2-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0014	2-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0015	2-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0016	2-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0017	2-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0018	2-WS-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0019	2-WS-7	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0020	2-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0026	3-WS-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0027	3-WS-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0028	3-WS-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0029	3-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
LBL Analysis	L. H Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0030	3-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0031	3-WS-6	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0032	3-WS-7	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0033	3-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0039	4-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0040	4-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0041	4-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0042	4-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0043	4-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0044	4-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0045	4-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0046	4-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0051	5-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0052	5-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0053	5-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0054	5-WS-4	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0055	5-WS-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0056	5-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0057	5-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0058	5-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0064	6-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0065	6-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0066	6-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0080	7-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0081	7-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0082	7-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

end

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/14/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0008	1-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0009	1-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0010	1-P-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0011	1-P-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0012	1-P-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0021	2-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0022	2-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0023	2-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0024	2-P-4	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0025	2-P-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0034	3-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0035	3-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0036	3-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0037	3-P-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0038	3-P-5	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0047	4-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0048	4-P-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0049	4-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0050	4-P-4	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analyses	L Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0059	5-P-1	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0060	5-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0061	5-BG-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0062	5-BG-2	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0063	5-BG-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360
Contact Name: Larry Lyons
Contact Phone: (732)494-4075

No: 0-360-10/16/08-0003

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0075	6-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0076	6-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0077	6-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0078	6-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0079	6-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0089	7-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0090	7-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0091	7-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0092	7-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0093	7-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0094	7-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0095	7-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0004

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0071	6-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0072	6-C-6	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0073	6-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0074	6-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0083	7-C-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0084	7-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

(ev)

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Myers	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0005

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0067	6-C-1	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0068	6-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0069	6-C-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0070	6-C-4	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0006

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0086	7-C-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0086	7-C-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0087	7-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0088	7-C-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. A Lyons	10/16/08									

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Cornell Dubilier Biological Sampling
South Plainfield, New Jersey

January 2009

EPA Work Assignment No. 0-360
LOCKHEED MARTIN Work Order EAC00360
EPA Contract No. EP-C-04-032

Submitted to
M. Sprenger
EPA-ERT

1/30/09
V. Kansal — Date
Analytical Section Leader

1/29/09
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Quality Assurance Officer

1/30/09
D. Miller — Date
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Analysis by:
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Introduction

REAC personnel, in response to WA# 0-360, provided analytical support for environmental samples collected from the Cornell Dubilier Biological Sampling Site in South Plainfield, NJ as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-360-10/16/08-0001	23	09/30/08	10/17/08	Tissue	PCB/ SW846 Method 3540C/8082	PACE Analytical[1]	T 367 T 368 T 369
	6	10/01/08					
	16[2]	10/02/08					
0-360-10/16/08-0002	14	09/30/08					T 367 T 368
	10	10/02/08					
0-360-10/16/08-0003	12	10/01/08					T 366
0-360-10/16/08-0004	6						T 374
0-360-10/16/08-0005	4						T 366
0-360-10/16/08-0006	4						T 374

[1] PACE Analytical Services is NELAP certified for PCB analysis in tissue
[2]Sample 0-360-0020, a whole body fish sample, is reported in a separate report of whole body fish.

Case Narrative

This report details the results for the FILLET samples submitted to the lab. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables. The laboratory performed a method detection limit (MDL) study and reported results greater than the MDL. Results greater than the MDL and less than the reporting limit are qualified estimated (J); the MDLs are not reported in the attached tables. All lipid results are reported in wet weight.

Sample 0-360-0017 (2-WS-5-FILLET) was lost during extraction; no PCB, lipid and percent solid results are reported for this sample

The laboratory used 7 peaks to quantify the Aroclors (Ar). The 3rd and 4th quantification peaks for Ar 1248 appear to have interference from Ar 1254 and typically have concentrations five to ten times higher than the other five peaks. The Ar 1248 results may be biased high as a result of the interference.

USEPA National Functional Guidelines (NFG) for Superfund Organic Methods Data Review specifies that: “For non-aqueous samples, if the Percent Moisture is less than 70.0%, no qualification of the data is necessary. If the Percent Moisture is greater than or equal to 70.0% and less than 90.0%, qualify detects as "J" and non-detects as "UJ". If the Percent Moisture is greater than or equal to 90.0%, qualify detects as "J" and non-detects as unusable "R".” It should be noted that the NFG are written for the assessment of aqueous and soil matrices. As per discussion with the Work Assignment Manager, no qualifications to the tissue data were made based on sample moisture content.

Ar 1248, Ar 1254 and Ar 1260 patterns were evident in most samples. The sample Ar 1260 pattern peak ratios did not match the standard Ar 1260 patterns peak ratios. Ar 1260 concentrations are qualified presumptively present (N) for all samples.

PCB in Tissue Package T 366

Surrogate recoveries were below the QC limits for sample 0-360-0079 (6-BG-5-FILLET). The sample was re-extracted and analyzed, and the surrogate recoveries were also below the QC limits; all Ar results for this sample are qualified estimated (J).

No surrogates were recovered for samples 0-360-0067 (6-C-1-FILLET), 0-360-0069 (6-C-3-FILLET) and 0-360-0070 (6-C-4-FILLET) due to dilutions required for analysis; all Ar results for these samples are qualified estimated (J).

PCB in Tissue Package T 367

The data were reviewed and found to be acceptable.

PCB in Tissue Package T 368

No surrogates were recovered for sample 0-360-0031 (3-WS-6-FILLET) due to the dilution required for analysis; all Ar results are qualified estimated (J).

For sample 0-360-0058 (5-WS-8-FILLET), the Ar 1254 MSD percent recovery was below the QC limits; all Ar results for this sample are qualified estimated (J).

PCB in Tissue Package T 369

No surrogates were recovered for samples 0-360-0014 (2-WS-2-FILLET), 0-360-0028 (3-WS-3-FILLET), 0-360-0029 (3-WS-4-FILLET) and 0-360-0030 (3-WS-5-FILLET) due to dilutions required for analysis; all Ar results are qualified estimated (J).

PCB in Tissue Package T 374

No surrogates were recovered for samples 0-360-0071 (6-C-5-FILLET) and 0-360-0086 (7-C-4-FILLET) due to dilutions required for analysis; all Ar results are qualified estimated (J).

For sample 0-360-0083 (7-C-1-FILLET), the MS/MSD % recoveries were above the QC limits for Ar 1254; the Ar 1254 and total PCB results are qualified estimated (J).

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
PAL	Performance Acceptance Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated
N	Presumptively present		

Rev. 1/14/09

Table 1.1a Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	96824		0-360-0067		0-360-0068		0-360-0069		0-360-0070	
Sample Location	Method Blank		6-C-1 - FILLET		6-C-2 - FILLET		6-C-3 - FILLET		6-C-4 - FILLET	
Percent Solids	100		28		24		27		24	
Percent Lipids (Wet Weight)	-		9.0		4.1		4.2		3.8	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	50.0	U J	17900	U	4170	U J	9260	U J	20800
Aroclor 1221	U	50.0	U J	17900	U	4170	U J	9260	U J	20800
Aroclor 1232	U	50.0	U J	17900	U	4170	U J	9260	U J	20800
Aroclor 1242	U	50.0	U J	17900	U	4170	U J	9260	U J	20800
Aroclor 1248	U	50.0	30900 J	17900	8540	4170	16800 J	9260	20900 J	20800
Aroclor 1254	U	50.0	46100 J	17900	12700	4170	37800 J	9260	49200 J	20800
Aroclor 1260	U	50.0	U J	17900	U	4170	U J	9260	U J	20800
Total PCB	U	50.0	77100 J	17900	21200	4170	54400 J	9260	70000 J	20800

0360-10/16/08-0005

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0075		0-360-0076		0-360-0077		0-360-0078		0-360-0089	
Sample Location	6-BG-1 - FILLET		6-BG-2 - FILLET		6-BG-3 - FILLET		6-BG-4 - FILLET		7-C-7 - FILLET	
Percent Solids	21		21		21		21		26	
Percent Lipids (Wet Weight)	0.64		0.72		0.68		0.42		3.8	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	714	U	714	U	733	U	476	U	385
Aroclor 1221	U	714	U	714	U	733	U	476	U	385
Aroclor 1232	U	714	U	714	U	733	U	476	U	385
Aroclor 1242	U	714	U	714	U	733	U	476	U	385
Aroclor 1248	1320	714	1580	714	1710	733	929	476	230 J	385
Aroclor 1254	2800	714	2410	714	2410	733	1350	476	738	385
Aroclor 1260	U	714	U	714	U	733	U	476	176 JN	385
Total PCB	4120	714	4000	714	4120	733	2280	476	1150	385

0360-10/16/08-0003

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0090		0-360-0091		0-360-0092		0-360-0093		0-360-0094	
Sample Location	7-C-8 - FILLET		7-BG-1 - FILLET		7-BG-2 - FILLET		7-BG-3 - FILLET		7-BG-4 - FILLET	
Percent Solids	25		21		20		22		21	
Percent Lipids (Wet Weight)	4.4		0.86		0.74		0.67		0.76	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	4000	U	714	U	294	U	227	U	238
Aroclor 1221	U	4000	U	714	U	294	U	227	U	238
Aroclor 1232	U	4000	U	714	U	294	U	227	U	238
Aroclor 1242	U	4000	U	714	U	294	U	227	U	238
Aroclor 1248	4360	4000	1600	714	492	294	200 J	227	397	238
Aroclor 1254	9160	4000	2310	714	1100	294	298	227	767	238
Aroclor 1260	U	4000	U	714	U	294	U	227	U	238
Total PCB	13500	4000	3910	714	1590	294	495	227	1170	238

0360-10/16/08-0003

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0095		100815		0-360-0079	
Sample Location	7-BG-5 - FILLET		Method Blank		6-BG-5 - FILLET	
Percent Solids	21		100		21	
Percent Lipids (Wet Weight)	0.49		-		0.18	
	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	238	U	50.0	U J	238
Aroclor 1221	U	238	U	50.0	U J	238
Aroclor 1232	U	238	U	50.0	U J	238
Aroclor 1242	U	238	U	50.0	U J	238
Aroclor 1248	469	238	U	50.0	283 J	238
Aroclor 1254	757	238	U	50.0	409 J	238
Aroclor 1260	U	238	U	50.0	U J	238
Total PCB	1220	238	U	50.0	690 J	238

0360-10/16/08-0003

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	95595		0-360-0065		0-360-0066		0-360-0080		0-360-0081	
Sample Location	Method Blank		6-WS-2 - FILLET		6-WS-3 - FILLET		7-WS-1 - FILLET		7-WS-2 - FILLET	
Percent Solids	100		20		22		24		20	
Percent Lipids (Wet Weight)	-		1.1		1.1		3.1		1.3	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	50.0	U	3340	U	1210	U	2080	U	1670
Aroclor 1221	U	50.0	U	3340	U	1210	U	2080	U	1670
Aroclor 1232	U	50.0	U	3340	U	1210	U	2080	U	1670
Aroclor 1242	U	50.0	U	3340	U	1210	U	2080	U	1670
Aroclor 1248	U	50.0	7100	3340	2410	1210	2870	2080	5100	1670
Aroclor 1254	U	50.0	16500	3340	3710	1210	4290	2080	7050	1670
Aroclor 1260	U	50.0	1440 JN	3340	U	1210	U	2080	650 JN	1670
Total PCB	U	50.0	25100	3340	6140	1210	7170	2080	12900	1670

0360-10/16/08-0001

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0082		0-360-0008		0-360-0009		0-360-0010		0-360-0011	
Sample Location	7-WS-3 - FILLET		1-P-1 - FILLET		1-P-2 - FILLET		1-P-3 - FILLET		1-P-4 - FILLET	
Percent Solids	21		25		27		24		23	
Percent Lipids (Wet Weight)	1.9		1.4		2.4		1.2		1.4	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	2380	U	200	U	370	U	417	U	334
Aroclor 1221	U	2380	U	200	U	370	U	417	U	334
Aroclor 1232	U	2380	U	200	U	370	U	417	U	334
Aroclor 1242	U	2380	U	200	U	370	U	417	U	334
Aroclor 1248	6670	2380	198 J	200	184 J	370	217 J	417	155 J	334
Aroclor 1254	9100	2380	744	200	515	370	238 J	417	535	334
Aroclor 1260	U	2380	240 JN	200	183 JN	370	U	417	151 JN	334
Total PCB	15800	2380	1180	200	881	370	454 J	417	843	334

0360-10/16/08-0001/0002

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0012		0-360-0021		0-360-0022		0-360-0023		0-360-0024	
Sample Location	1-P-5 - FILLET		2-P-1 - FILLET		2-P-2 - FILLET		2-P-3 - FILLET		2-P-4 - FILLET	
Percent Solids	24		24		25		25		26	
Percent Lipids (Wet Weight)	2.7		0.87		1.1		0.78		0.80	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	278	U	1110	U	2000	U	800	U	962
Aroclor 1221	U	278	U	1110	U	2000	U	800	U	962
Aroclor 1232	U	278	U	1110	U	2000	U	800	U	962
Aroclor 1242	U	278	U	1110	U	2000	U	800	U	962
Aroclor 1248	181 J	278	1700	1110	3390	2000	1510	800	1900	962
Aroclor 1254	500	278	3870	1110	8320	2000	2400	800	4500	962
Aroclor 1260	213 JN	278	U	1110	U	2000	U	800	U	962
Total PCB	896	278	5580	1110	11700	2000	3900	800	6380	962

0360-10/16/08-0002

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0025		0-360-0034		0-360-0035		0-360-0036		0-360-0037	
Sample Location	2-P-5 - FILLET		3-P-1 - FILLET		3-P-2 - FILLET		3-P-3 - FILLET		3-P-4 - FILLET	
Percent Solids	22		25		23		24		25	
Percent Lipids (Wet Weight)	0.78		1.2		1.1		0.84		0.81	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	1140	U	5320	U	3950	U	1900	U	2000
Aroclor 1221	U	1140	U	5320	U	3950	U	1900	U	2000
Aroclor 1232	U	1140	U	5320	U	3950	U	1900	U	2000
Aroclor 1242	U	1140	U	5320	U	3950	U	1900	U	2000
Aroclor 1248	2190	1140	10700	5320	6390	3950	3480	1900	2790	2000
Aroclor 1254	5090	1140	21300	5320	17300	3950	11500	1900	7840	2000
Aroclor 1260	U	1140	U	5320	2260 JN	3950	1020 JN	1900	960 JN	2000
Total PCB	7270	1140	32000	5320	26000	3950	16000	1900	11600	2000

0360-10/16/08-0002

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0038	
Sample Location	3-P-5 - FILLET	
Percent Solids	23	
Percent Lipids (Wet Weight)	1.0	
Analyte	Result µg/kg	RL µg/kg
Aroclor 1016	U	2170
Aroclor 1221	U	2170
Aroclor 1232	U	2170
Aroclor 1242	U	2170
Aroclor 1248	4290	2170
Aroclor 1254	8740	2170
Aroclor 1260	U	2170
Total PCB	13000	2170

0360-10/16/08-0002

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	98173		0-360-0031		0-360-0032		0-360-0033		0-360-0039	
Sample Location	Method Blank		3-WS-6 - FILLET		3-WS-7 - FILLET		3-WS-8 - FILLET		4-WS-1 - FILLET	
Percent Solids	100		20		20		21		20	
Percent Lipids (Wet Weight)	-		1.2		1.1		0.90		0.78	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	50.0	U J	25000	U	7500	U	7140	U	3390
Aroclor 1221	U	50.0	U J	25000	U	7500	U	7140	U	3390
Aroclor 1232	U	50.0	U J	25000	U	7500	U	7140	U	3390
Aroclor 1242	U	50.0	U J	25000	U	7500	U	7140	U	3390
Aroclor 1248	U	50.0	31600 J	25000	14300	7500	15900	7140	6150	3390
Aroclor 1254	U	50.0	127000 J	25000	34800	7500	43800	7140	11000	3390
Aroclor 1260	U	50.0	11200 JN	25000	2900 JN	7500	3460 JN	7140	U	3390
Total PCB	U	50.0	170000 J	25000	52000	7500	62900	7140	17100	3390

0360-10/16/08-0001

Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0040		0-360-0041		0-360-0042		0-360-0043		0-360-0044	
Sample Location	4-WS-2 - FILLET		4-WS-3 - FILLET		4-WS-4 - FILLET		4-WS-5 - FILLET		4-WS-6 - FILLET	
Percent Solids	20		22		23		24		20	
Percent Lipids (Wet Weight)	0.50		0.78		0.30		0.53		1.2	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	1000	U	1850	U	978	U	1410	U	5000
Aroclor 1221	U	1000	U	1850	U	978	U	1410	U	5000
Aroclor 1232	U	1000	U	1850	U	978	U	1410	U	5000
Aroclor 1242	U	1000	U	1850	U	978	U	1410	U	5000
Aroclor 1248	1670	1000	4770	1850	2100	978	3210	1410	10100	5000
Aroclor 1254	3850	1000	8410	1850	4190	978	5790	1410	15000	5000
Aroclor 1260	645 JN	1000	750 JN	1850	387 JN	978	592 JN	1410	U	5000
Total PCB	6150	1000	14000	1850	6700	978	9580	1410	25100	5000

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0045		0-360-0046		0-360-0051		0-360-0052		0-360-0053	
Sample Location	4-WS-7 - FILLET		4-WS-8 - FILLET		5-WS-1 - FILLET		5-WS-2 - FILLET		5-WS-3 - FILLET	
Percent Solids	23		20		20		20		20	
Percent Lipids (Wet Weight)	1.5		0.56		0.95		0.48		1.1	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	3060	U	5000	U	1770	U	1640	U	5700
Aroclor 1221	U	3060	U	5000	U	1770	U	1640	U	5700
Aroclor 1232	U	3060	U	5000	U	1770	U	1640	U	5700
Aroclor 1242	U	3060	U	5000	U	1770	U	1640	U	5700
Aroclor 1248	9430	3060	8800	5000	4530	1770	2750	1640	10100	5700
Aroclor 1254	14000	3060	14500	5000	7250	1770	5300	1640	15600	5700
Aroclor 1260	U	3060	U	5000	750 JN	1770	U	1640	U	5700
Total PCB	23400	3060	23300	5000	12600	1770	8050	1640	25700	5700

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0054		0-360-0055		0-360-0056		0-360-0057		0-360-0058	
Sample Location	5-WS-4 - FILLET		5-WS-5 - FILLET		5-WS-6 - FILLET		5-WS-7 - FILLET		5-WS-8 - FILLET	
Percent Solids	21		21		21		22		21	
Percent Lipids (Wet Weight)	0.96		1.9		1.6		1.9		1.7	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	2610	U	476	U	7140	U	4550	U J	4760
Aroclor 1221	U	2610	U	476	U	7140	U	4550	U J	4760
Aroclor 1232	U	2610	U	476	U	7140	U	4550	U J	4760
Aroclor 1242	U	2610	U	476	U	7140	U	4550	U J	4760
Aroclor 1248	7050	2610	690	476	15900	7140	7640	4550	8710 J	4760
Aroclor 1254	10900	2610	1690	476	26400	7140	11900	4550	11900 J	4760
Aroclor 1260	U	2610	286 JN	476	U	7140	U	4550	U J	4760
Total PCB	18000	2610	2660	476	42300	7140	19500	4550	20700 J	4760

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0064	
Sample Location	6-WS-1 - FILLET	
Percent Solids	20	
Percent Lipids (Wet Weight)	0.62	
Analyte	Result µg/kg	RL µg/kg
Aroclor 1016	U	5000
Aroclor 1221	U	5000
Aroclor 1232	U	5000
Aroclor 1242	U	5000
Aroclor 1248	5900	5000
Aroclor 1254	20100	5000
Aroclor 1260	2400 JN	5000
Total PCB	28400	5000

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	96720		0-360-0001		0-360-0002		0-360-0003		0-360-0004	
Sample Location	Method Blank		1-WS-1 - FILLET		1-WS-2 - FILLET		1-WS-3 - FILLET		1-WS-4 - FILLET	
Percent Solids	100		21		22		21		20	
Percent Lipids (Wet Weight)	-		0.50		1.4		0.94		0.56	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	50.0	U	2270	U	691	U	238	U	250
Aroclor 1221	U	50.0	U	2270	U	691	U	238	U	250
Aroclor 1232	U	50.0	U	2270	U	691	U	238	U	250
Aroclor 1242	U	50.0	U	2270	U	691	U	238	U	250
Aroclor 1248	U	50.0	3600	2270	U	691	136 J	238	105 J	250
Aroclor 1254	U	50.0	10200	2270	618 J	691	364	238	225 J	250
Aroclor 1260	U	50.0	1410 JN	2270	U	691	120 JN	238	U	250
Total PCB	U	50.0	15300	2270	618 J	691	619	238	330 J	250

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0005		0-360-0006		0-360-0007		0-360-0013		0-360-0014	
Sample Location	1-WS-5 - FILLET		1-WS-6 - FILLET		1-WS-7 - FILLET		2-WS-1 - FILLET		2-WS-2 - FILLET	
Percent Solids	20		20		21		20		22	
Percent Lipids (Wet Weight)	0.97		0.77		1.9		0.76		1.4	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	327	U	250	U	238	U	7500	U J	18000
Aroclor 1221	U	327	U	250	U	238	U	7500	U J	18000
Aroclor 1232	U	327	U	250	U	238	U	7500	U J	18000
Aroclor 1242	U	327	U	250	U	238	U	7500	U J	18000
Aroclor 1248	147 J	327	140 J	250	300	238	11600	7500	20600 J	18000
Aroclor 1254	393	327	448	250	848	238	35100	7500	71400 J	18000
Aroclor 1260	U	327	138 JN	250	230 JN	238	4580 JN	7500	U J	18000
Total PCB	540	327	725	250	1380	238	51000	7500	92300 J	18000

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0015		0-360-0016		0-360-0018		0-360-0019	
Sample Location	2-WS-3 - FILLET		2-WS-4 - FILLET		2-WS-6 - FILLET		2-WS-7 - FILLET	
Percent Solids	20		20		19		22	
Percent Lipids (Wet Weight)	0.56		0.94		0.83		0.51	
	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	9250	U	10700	U	8210	U	4210
Aroclor 1221	U	9250	U	10700	U	8210	U	4210
Aroclor 1232	U	9250	U	10700	U	8210	U	4210
Aroclor 1242	U	9250	U	10700	U	8210	U	4210
Aroclor 1248	10100	9250	17500	10700	7950 J	8210	5090	4210
Aroclor 1254	37300	9250	62000	10700	33800	8210	21800	4210
Aroclor 1260	4720 JN	9250	U	10700	3490 JN	8210	U	4210
Total PCB	52000	9250	79500	10700	45300	8210	26900	4210

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0026		0-360-0027		0-360-0028		0-360-0029		0-360-0030	
Sample Location	3-WS-1 - FILLET		3-WS-2 - FILLET		3-WS-3 - FILLET		3-WS-4 - FILLET		3-WS-5 - FILLET	
Percent Solids	20		24		21		21		20	
Percent Lipids (Wet Weight)	0.57		0.68		1.1		0.85		0.92	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	11400	U	4170	U J	7140	U J	23800	U J	12500
Aroclor 1221	U	11400	U	4170	U J	7140	U J	23800	U J	12500
Aroclor 1232	U	11400	U	4170	U J	7140	U J	23800	U J	12500
Aroclor 1242	U	11400	U	4170	U J	7140	U J	23800	U J	12500
Aroclor 1248	16700	11400	7710	4170	11900 J	7140	23000 J	23800	19500 J	12500
Aroclor 1254	60500	11400	14000	4170	35000 J	7140	94300 J	23800	56000 J	12500
Aroclor 1260	7050 JN	11400	2650 JN	4170	3410 JN	7140	11000 JN	23800	5400 JN	12500
Total PCB	84000	11400	24400	4170	50500 J	7140	129000 J	23800	81000 J	12500

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	96724		0-360-0047		0-360-0048		0-360-0049		0-360-0050	
Sample Location	Method Blank		4-P-1 - FILLET		4-P-2 - FILLET		4-P-3 - FILLET		4-P-4 - FILLET	
Percent Solids	100		24		27		22		22	
Percent Lipids (Wet Weight)	-		1.6		1.2		0.67		0.94	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	50.0	U	2080	U	1850	U	605	U	909
Aroclor 1221	U	50.0	U	2080	U	1850	U	605	U	909
Aroclor 1232	U	50.0	U	2080	U	1850	U	605	U	909
Aroclor 1242	U	50.0	U	2080	U	1850	U	605	U	909
Aroclor 1248	U	50.0	6580	2080	5410	1850	2260	605	2720	909
Aroclor 1254	U	50.0	9130	2080	8070	1850	3510	605	4020	909
Aroclor 1260	U	50.0	842 JN	2080	1140 JN	1850	324 JN	605	U	909
Total PCB	U	50.0	16600	2080	14700	1850	6090	605	6730	909

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0059		0-360-0060		0-360-0061		0-360-0062		0-360-0063	
Sample Location	5-P-1 - FILLET		5-P-2 - FILLET		5-BG-1 - FILLET		5-BG-2 - FILLET		5-BG-3 - FILLET	
Percent Solids	23		23		21		21		22	
Percent Lipids (Wet Weight)	0.74		0.86		0.72		0.70		0.83	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	1090	U	1090	U	714	U	714	U	909
Aroclor 1221	U	1090	U	1090	U	714	U	714	U	909
Aroclor 1232	U	1090	U	1090	U	714	U	714	U	909
Aroclor 1242	U	1090	U	1090	U	714	U	714	U	909
Aroclor 1248	3190	1090	2540	1090	2040	714	1970	714	2200	909
Aroclor 1254	6350	1090	5130	1090	3110	714	3260	714	3390	909
Aroclor 1260	687 JN	1090	U	1090	287 JN	714	U	714	U	909
Total PCB	10200	1090	7700	1090	5430	714	5240	714	5590	909

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0071		0-360-0072		0-360-0073		0-360-0074		0-360-0083	
Sample Location	6-C-5 - FILLET		6-C-6 - FILLET		6-C-7 - FILLET		6-C-8 - FILLET		7-C-1 - FILLET	
Percent Solids	26		24		24		23		22	
Percent Lipids (Wet Weight)	3.2		4.0		3.3		3.1		2.7	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U J	3850	U	2080	U	2080	U	2170	U	2270
Aroclor 1221	U J	3850	U	2080	U	2080	U	2170	U	2270
Aroclor 1232	U J	3850	U	2080	U	2080	U	2170	U	2270
Aroclor 1242	U J	3850	U	2080	U	2080	U	2170	U	2270
Aroclor 1248	8350 J	3850	7040	2080	5830	2080	5480	2170	5640	2270
Aroclor 1254	11500 J	3850	11700	2080	8880	2080	8220	2170	11500 J	2270
Aroclor 1260	U J	3850	871 JN	2080	U	2080	U	2170	U	2270
Total PCB	19800 J	3850	19600	2080	14700	2080	13700	2170	17100 J	2270

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Table 1.1a (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Dry Weight

Method : EPA 8082

Sample Number	0-360-0084		0-360-0085		0-360-0086		0-360-0087		0-360-0088	
Sample Location	7-C-2 - FILLET		7-C-3 - FILLET		7-C-4 - FILLET		7-C-5 - FILLET		7-C-6 - FILLET	
Percent Solids	24		24		28		23		23	
Percent Lipids (Wet Weight)	3.8		3.3		8.2		3.7		3.7	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	625	U	2080	U J	17900	U	435	U	870
Aroclor 1221	U	625	U	2080	U J	17900	U	435	U	870
Aroclor 1232	U	625	U	2080	U J	17900	U	435	U	870
Aroclor 1242	U	625	U	2080	U J	17900	U	435	U	870
Aroclor 1248	583 J	625	8210	2080	39600 J	17900	293 J	435	565 J	870
Aroclor 1254	1940	625	10300	2080	62100 J	17900	970	435	2470	870
Aroclor 1260	521 JN	625	U	2080	U J	17900	291 JN	435	578 JN	870
Total PCB	3040	625	18500	2080	102000 J	17900	1550	435	3610	870

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Table 1.1b Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	96824		0-360-0067		0-360-0068		0-360-0069		0-360-0070	
Sample Location	Method Blank		6-C-1 - FILLET		6-C-2 - FILLET		6-C-3 - FILLET		6-C-4 - FILLET	
Percent Solids	100		28		24		27		24	
Percent Lipids	-		9.0		4.1		4.2		3.8	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	50.0	U J	5000	U	1000	U J	2500	U J	5000
Aroclor 1221	U	50.0	U J	5000	U	1000	U J	2500	U J	5000
Aroclor 1232	U	50.0	U J	5000	U	1000	U J	2500	U J	5000
Aroclor 1242	U	50.0	U J	5000	U	1000	U J	2500	U J	5000
Aroclor 1248	U	50.0	8660 J	5000	2050	1000	4540 J	2500	5020 J	5000
Aroclor 1254	U	50.0	12900 J	5000	3040	1000	10200 J	2500	11800 J	5000
Aroclor 1260	U	50.0	U J	5000	U	1000	U J	2500	U J	5000
Total PCB	U	50.0	21600 J	5000	5080	1000	14700 J	2500	16800 J	5000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0075		0-360-0076		0-360-0077		0-360-0078		0-360-0089	
Sample Location	6-BG-1 - FILLET		6-BG-2 - FILLET		6-BG-3 - FILLET		6-BG-4 - FILLET		7-C-7 - FILLET	
Percent Solids	21		21		21		21		26	
Percent Lipids	0.64		0.72		0.68		0.42		3.8	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	150	U	150	U	154	U	100	U	100
Aroclor 1221	U	150	U	150	U	154	U	100	U	100
Aroclor 1232	U	150	U	150	U	154	U	100	U	100
Aroclor 1242	U	150	U	150	U	154	U	100	U	100
Aroclor 1248	277	150	332	150	359	154	195	100	59.9 J	100
Aroclor 1254	589	150	507	150	507	154	284	100	192	100
Aroclor 1260	U	150	U	150	U	154	U	100	45.7 JN	100
Total PCB	866	150	839	150	866	154	479	100	298	100

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0090		0-360-0091		0-360-0092		0-360-0093		0-360-0094	
Sample Location	7-C-8 - FILLET		7-BG-1 - FILLET		7-BG-2 - FILLET		7-BG-3 - FILLET		7-BG-4 - FILLET	
Percent Solids	25		21		20		22		21	
Percent Lipids	4.4		0.86		0.74		0.67		0.76	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	1000	U	150	U	58.8	U	50.0	U	50.0
Aroclor 1221	U	1000	U	150	U	58.8	U	50.0	U	50.0
Aroclor 1232	U	1000	U	150	U	58.8	U	50.0	U	50.0
Aroclor 1242	U	1000	U	150	U	58.8	U	50.0	U	50.0
Aroclor 1248	1090	1000	335	150	98.4	58.8	44.0 J	50.0	83.4	50.0
Aroclor 1254	2290	1000	486	150	220	58.8	65.5	50.0	161	50.0
Aroclor 1260	U	1000	U	150	U	58.8	U	50.0	U	50.0
Total PCB	3380	1000	821	150	318	58.8	109	50.0	245	50.0

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0095		100815		0-360-0079	
Sample Location	7-BG-5 - FILLET		Method Blank		6-BG-5 - FILLET	
Percent Solids	21		100		21	
Percent Lipids	0.49		-		0.18	
	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	50.0	U	50.0	U J	50.0
Aroclor 1221	U	50.0	U	50.0	U J	50.0
Aroclor 1232	U	50.0	U	50.0	U J	50.0
Aroclor 1242	U	50.0	U	50.0	U J	50.0
Aroclor 1248	98.4	50.0	U	50.0	59.4 J	50.0
Aroclor 1254	159	50.0	U	50.0	85.9 J	50.0
Aroclor 1260	U	50.0	U	50.0	U J	50.0
Total PCB	257	50.0	U	50.0	145 J	50.0

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	95595		0-360-0065		0-360-0066		0-360-0080		0-360-0081	
Sample Location	Method Blank		6-WS-2 - FILLET		6-WS-3 - FILLET		7-WS-1 - FILLET		7-WS-2 - FILLET	
Percent Solids	100		20		22		24		20	
Percent Lipids	-		1.1		1.1		3.1		1.3	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	50.0	U	667	U	267	U	500	U	333
Aroclor 1221	U	50.0	U	667	U	267	U	500	U	333
Aroclor 1232	U	50.0	U	667	U	267	U	500	U	333
Aroclor 1242	U	50.0	U	667	U	267	U	500	U	333
Aroclor 1248	U	50.0	1420	667	530	267	688	500	1020	333
Aroclor 1254	U	50.0	3300	667	817	267	1030	500	1410	333
Aroclor 1260	U	50.0	288 JN	667	U	267	U	500	130 JN	333
Total PCB	U	50.0	5010	667	1350	267	1720	500	2570	333

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0082		0-360-0008		0-360-0009		0-360-0010		0-360-0011	
Sample Location	7-WS-3 - FILLET		1-P-1 - FILLET		1-P-2 - FILLET		1-P-3 - FILLET		1-P-4 - FILLET	
Percent Solids	21		25		27		24		23	
Percent Lipids	1.9		1.4		2.4		1.2		1.4	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	500	U	50.0	U	100	U	100	U	76.9
Aroclor 1221	U	500	U	50.0	U	100	U	100	U	76.9
Aroclor 1232	U	500	U	50.0	U	100	U	100	U	76.9
Aroclor 1242	U	500	U	50.0	U	100	U	100	U	76.9
Aroclor 1248	1400	500	49.6 J	50.0	49.7 J	100	52.1 J	100	35.7 J	76.9
Aroclor 1254	1910	500	186	50.0	139	100	57.2 J	100	123	76.9
Aroclor 1260	U	500	59.9 JN	50.0	49.4 JN	100	U	100	34.7 JN	76.9
Total PCB	3320	500	296	50.0	238	100	109 J	100	194	76.9

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0012		0-360-0021		0-360-0022		0-360-0023		0-360-0024	
Sample Location	1-P-5 - FILLET		2-P-1 - FILLET		2-P-2 - FILLET		2-P-3 - FILLET		2-P-4 - FILLET	
Percent Solids	24		24		25		25		26	
Percent Lipids	2.7		0.87		1.1		0.78		0.80	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	66.7	U	267	U	500	U	200	U	250
Aroclor 1221	U	66.7	U	267	U	500	U	200	U	250
Aroclor 1232	U	66.7	U	267	U	500	U	200	U	250
Aroclor 1242	U	66.7	U	267	U	500	U	200	U	250
Aroclor 1248	43.5 J	66.7	409	267	848	500	377	200	493	250
Aroclor 1254	120	66.7	929	267	2080	500	599	200	1170	250
Aroclor 1260	51.1 JN	66.7	U	267	U	500	U	200	U	250
Total PCB	215	66.7	1340	267	2930	500	976	200	1660	250

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0025		0-360-0034		0-360-0035		0-360-0036		0-360-0037	
Sample Location	2-P-5 - FILLET		3-P-1 - FILLET		3-P-2 - FILLET		3-P-3 - FILLET		3-P-4 - FILLET	
Percent Solids	22		25		23		24		25	
Percent Lipids	0.78		1.2		1.1		0.84		0.81	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	250	U	1330	U	909	U	455	U	500
Aroclor 1221	U	250	U	1330	U	909	U	455	U	500
Aroclor 1232	U	250	U	1330	U	909	U	455	U	500
Aroclor 1242	U	250	U	1330	U	909	U	455	U	500
Aroclor 1248	482	250	2680	1330	1470	909	834	455	697	500
Aroclor 1254	1120	250	5330	1330	3990	909	2760	455	1960	500
Aroclor 1260	U	250	U	1330	519 JN	909	245 JN	455	240 JN	500
Total PCB	1600	250	8010	1330	5970	909	3830	455	2900	500

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0038	
Sample Location	3-P-5 - FILLET	
Percent Solids	23	
Percent Lipids	1.0	
	Result	RL
Analyte	µg/kg	µg/kg
Aroclor 1016	U	500
Aroclor 1221	U	500
Aroclor 1232	U	500
Aroclor 1242	U	500
Aroclor 1248	987	500
Aroclor 1254	2010	500
Aroclor 1260	U	500
Total PCB	2990	500

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	98173		0-360-0031		0-360-0032		0-360-0033		0-360-0039	
Sample Location	Method Blank		3-WS-6 - FILLET		3-WS-7 - FILLET		3-WS-8 - FILLET		4-WS-1 - FILLET	
Percent Solids	100		20		20		21		20	
Percent Lipids	-		1.2		1.1		0.90		0.78	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	50.0	U J	5000	U	1500	U	1500	U	678
Aroclor 1221	U	50.0	U J	5000	U	1500	U	1500	U	678
Aroclor 1232	U	50.0	U J	5000	U	1500	U	1500	U	678
Aroclor 1242	U	50.0	U J	5000	U	1500	U	1500	U	678
Aroclor 1248	U	50.0	6320 J	5000	2850	1500	3330	1500	1230	678
Aroclor 1254	U	50.0	25400 J	5000	6950	1500	9190	1500	2190	678
Aroclor 1260	U	50.0	2230 JN	5000	579 JN	1500	726 JN	1500	U	678
Total PCB	U	50.0	34000 J	5000	10400	1500	13200	1500	3420	678

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0040		0-360-0041		0-360-0042		0-360-0043		0-360-0044	
Sample Location	4-WS-2 - FILLET		4-WS-3 - FILLET		4-WS-4 - FILLET		4-WS-5 - FILLET		4-WS-6 - FILLET	
Percent Solids	20		22		23		24		20	
Percent Lipids	0.50		0.78		0.30		0.53		1.2	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	200	U	408	U	225	U	339	U	1000
Aroclor 1221	U	200	U	408	U	225	U	339	U	1000
Aroclor 1232	U	200	U	408	U	225	U	339	U	1000
Aroclor 1242	U	200	U	408	U	225	U	339	U	1000
Aroclor 1248	333	200	1050	408	484	225	770	339	2010	1000
Aroclor 1254	770	200	1850	408	964	225	1390	339	2990	1000
Aroclor 1260	129 JN	200	165 JN	408	89.1 JN	225	142 JN	339	U	1000
Total PCB	1230	200	3070	408	1540	225	2300	339	5010	1000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0045		0-360-0046		0-360-0051		0-360-0052		0-360-0053	
Sample Location	4-WS-7 - FILLET		4-WS-8 - FILLET		5-WS-1 - FILLET		5-WS-2 - FILLET		5-WS-3 - FILLET	
Percent Solids	23		20		20		20		20	
Percent Lipids	1.5		0.56		0.95		0.48		1.1	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	704	U	1000	U	354	U	328	U	1140
Aroclor 1221	U	704	U	1000	U	354	U	328	U	1140
Aroclor 1232	U	704	U	1000	U	354	U	328	U	1140
Aroclor 1242	U	704	U	1000	U	354	U	328	U	1140
Aroclor 1248	2170	704	1760	1000	906	354	550	328	2020	1140
Aroclor 1254	3220	704	2900	1000	1450	354	1060	328	3110	1140
Aroclor 1260	U	704	U	1000	150 JN	354	U	328	U	1140
Total PCB	5390	704	4660	1000	2510	354	1610	328	5140	1140

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0054		0-360-0055		0-360-0056		0-360-0057		0-360-0058	
Sample Location	5-WS-4 - FILLET		5-WS-5 - FILLET		5-WS-6 - FILLET		5-WS-7 - FILLET		5-WS-8 - FILLET	
Percent Solids	21		21		21		22		21	
Percent Lipids	0.96		1.9		1.6		1.9		1.7	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	549	U	100	U	1500	U	1000	U J	1000
Aroclor 1221	U	549	U	100	U	1500	U	1000	U J	1000
Aroclor 1232	U	549	U	100	U	1500	U	1000	U J	1000
Aroclor 1242	U	549	U	100	U	1500	U	1000	U J	1000
Aroclor 1248	1480	549	145	100	3340	1500	1680	1000	1830 J	1000
Aroclor 1254	2290	549	354	100	5550	1500	2610	1000	2500 J	1000
Aroclor 1260	U	549	60.0 JN	100	U	1500	U	1000	U J	1000
Total PCB	3770	549	559	100	8890	1500	4290	1000	4340 J	1000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0064	
Sample Location	6-WS-1 - FILLET	
Percent Solids	20	
Percent Lipids	0.62	
Analyte	Result µg/kg	RL µg/kg
Aroclor 1016	U	1000
Aroclor 1221	U	1000
Aroclor 1232	U	1000
Aroclor 1242	U	1000
Aroclor 1248	1180	1000
Aroclor 1254	4010	1000
Aroclor 1260	480 JN	1000
Total PCB	5680	1000

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	96720		0-360-0001		0-360-0002		0-360-0003		0-360-0004	
Sample Location	Method Blank		1-WS-1 - FILLET		1-WS-2 - FILLET		1-WS-3 - FILLET		1-WS-4 - FILLET	
Percent Solids	100		21		22		21		20	
Percent Lipids	-		0.50		1.4		0.94		0.56	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	50.0	U	476	U	152	U	50	U	50
Aroclor 1221	U	50.0	U	476	U	152	U	50	U	50
Aroclor 1232	U	50.0	U	476	U	152	U	50	U	50
Aroclor 1242	U	50.0	U	476	U	152	U	50	U	50
Aroclor 1248	U	50.0	757	476	U	152	28.6 J	50	21.0 J	50
Aroclor 1254	U	50.0	2150	476	136 J	152	76.4	50	44.9 J	50
Aroclor 1260	U	50.0	297 JN	476	U	152	25.1 JN	50	U	50
Total PCB	U	50.0	3210	476	136 J	152	130	50	65.9 J	50

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0005		0-360-0006		0-360-0007		0-360-0013		0-360-0014	
Sample Location	1-WS-5 - FILLET		1-WS-6 - FILLET		1-WS-7 - FILLET		2-WS-1 - FILLET		2-WS-2 - FILLET	
Percent Solids	20		20		21		20		22	
Percent Lipids	0.97		0.77		1.9		0.76		1.4	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	65.4	U	50.0	U	50.0	U	1500	U J	3970
Aroclor 1221	U	65.4	U	50.0	U	50.0	U	1500	U J	3970
Aroclor 1232	U	65.4	U	50.0	U	50.0	U	1500	U J	3970
Aroclor 1242	U	65.4	U	50.0	U	50.0	U	1500	U J	3970
Aroclor 1248	29.3 J	65.4	27.9 J	50.0	62.9	50.0	2320	1500	4540 J	3970
Aroclor 1254	78.6	65.4	89.5	50.0	178	50.0	7010	1500	15700 J	3970
Aroclor 1260	U	65.4	27.5 JN	50.0	48.3 JN	50.0	915 JN	1500	U J	3970
Total PCB	108	65.4	145	50.0	289	50.0	10200	1500	20300 J	3970

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0015		0-360-0016		0-360-0018		0-360-0019	
Sample Location	2-WS-3 - FILLET		2-WS-4 - FILLET		2-WS-6 - FILLET		2-WS-7 - FILLET	
Percent Solids	20		20		19		22	
Percent Lipids	0.56		0.94		0.83		0.51	
	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	1850	U	2140	U	1560	U	926
Aroclor 1221	U	1850	U	2140	U	1560	U	926
Aroclor 1232	U	1850	U	2140	U	1560	U	926
Aroclor 1242	U	1850	U	2140	U	1560	U	926
Aroclor 1248	2010	1850	3490	2140	1510 J	1560	1120	926
Aroclor 1254	7450	1850	12400	2140	6430	1560	4800	926
Aroclor 1260	943 JN	1850	U	2140	663 JN	1560	U	926
Total PCB	10400	1850	15900	2140	8600	1560	5920	926

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0026		0-360-0027		0-360-0028		0-360-0029		0-360-0030	
Sample Location	3-WS-1 - FILLET		3-WS-2 - FILLET		3-WS-3 - FILLET		3-WS-4 - FILLET		3-WS-5 - FILLET	
Percent Solids	20		24		21		21		20	
Percent Lipids	0.57		0.68		1.1		0.85		0.92	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	2270	U	1000	U J	1500	U J	5000	U J	2500
Aroclor 1221	U	2270	U	1000	U J	1500	U J	5000	U J	2500
Aroclor 1232	U	2270	U	1000	U J	1500	U J	5000	U J	2500
Aroclor 1242	U	2270	U	1000	U J	1500	U J	5000	U J	2500
Aroclor 1248	3340	2270	1850	1000	2490 J	1500	4820 J	5000	3900 J	2500
Aroclor 1254	12100	2270	3370	1000	7350 J	1500	19800 J	5000	11200 J	2500
Aroclor 1260	1410 JN	2270	636 JN	1000	716 JN	1500	2310 JN	5000	1080 JN	2500
Total PCB	16800	2270	5850	1000	10600 J	1500	27000 J	5000	16200 J	2500

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	96724		0-360-0047		0-360-0048		0-360-0049		0-360-0050	
Sample Location	Method Blank		4-P-1 - FILLET		4-P-2 - FILLET		4-P-3 - FILLET		4-P-4 - FILLET	
Percent Solids	100		24		27		22		22	
Percent Lipids	-		1.6		1.2		0.67		0.94	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	50.0	U	500	U	500	U	133	U	200
Aroclor 1221	U	50.0	U	500	U	500	U	133	U	200
Aroclor 1232	U	50.0	U	500	U	500	U	133	U	200
Aroclor 1242	U	50.0	U	500	U	500	U	133	U	200
Aroclor 1248	U	50.0	1580	500	1460	500	497	133	598	200
Aroclor 1254	U	50.0	2190	500	2180	500	772	133	884	200
Aroclor 1260	U	50.0	202 JN	500	309 JN	500	71.3 JN	133	U	200
Total PCB	U	50.0	3980	500	3960	500	1340	133	1480	200

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0059		0-360-0060		0-360-0061		0-360-0062		0-360-0063	
Sample Location	5-P-1 - FILLET		5-P-2 - FILLET		5-BG-1 - FILLET		5-BG-2 - FILLET		5-BG-3 - FILLET	
Percent Solids	23		23		21		21		22	
Percent Lipids	0.74		0.86		0.72		0.70		0.83	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U	250	U	250	U	150	U	150	U	200
Aroclor 1221	U	250	U	250	U	150	U	150	U	200
Aroclor 1232	U	250	U	250	U	150	U	150	U	200
Aroclor 1242	U	250	U	250	U	150	U	150	U	200
Aroclor 1248	733	250	585	250	429	150	414	150	484	200
Aroclor 1254	1460	250	1180	250	654	150	684	150	745	200
Aroclor 1260	158 JN	250	U	250	60.3 JN	150	U	150	U	200
Total PCB	2350	250	1770	250	1140	150	1100	150	1230	200

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0071		0-360-0072		0-360-0073		0-360-0074		0-360-0083	
Sample Location	6-C-5 - FILLET		6-C-6 - FILLET		6-C-7 - FILLET		6-C-8 - FILLET		7-C-1 - FILLET	
Percent Solids	26		24		24		23		22	
Percent Lipids	3.2		4.0		3.3		3.1		2.7	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Aroclor 1016	U J	1000	U	500	U	500	U	500	U	500
Aroclor 1221	U J	1000	U	500	U	500	U	500	U	500
Aroclor 1232	U J	1000	U	500	U	500	U	500	U	500
Aroclor 1242	U J	1000	U	500	U	500	U	500	U	500
Aroclor 1248	2170 J	1000	1690	500	1400	500	1260	500	1240	500
Aroclor 1254	2980 J	1000	2810	500	2130	500	1890	500	2520 J	500
Aroclor 1260	U J	1000	209 JN	500	U	500	U	500	U	500
Total PCB	5150 J	1000	4710	500	3530	500	3150	500	3760 J	500

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Table 1.1b (cont) Results of the Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : EPA 8082

Sample Number	0-360-0084		0-360-0085		0-360-0086		0-360-0087		0-360-0088	
Sample Location	7-C-2 - FILLET		7-C-3 - FILLET		7-C-4 - FILLET		7-C-5 - FILLET		7-C-6 - FILLET	
Percent Solids	24		24		28		23		23	
Percent Lipids	3.8		3.3		8.2		3.7		3.7	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Aroclor 1016	U	150	U	500	U J	5000	U	100	U	200
Aroclor 1221	U	150	U	500	U J	5000	U	100	U	200
Aroclor 1232	U	150	U	500	U J	5000	U	100	U	200
Aroclor 1242	U	150	U	500	U J	5000	U	100	U	200
Aroclor 1248	140 J	150	1970	500	11100 J	5000	67.4 J	100	130 J	200
Aroclor 1254	465	150	2470	500	17400 J	5000	223	100	568	200
Aroclor 1260	125 JN	150	U	500	U J	5000	67.0 JN	100	133 JN	200
Total PCB	730	150	4440	500	28500 J	5000	357	100	830	200

0360-10/16/08-0006

Table 2.1 Results of the MS/MSD Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Sample Number: 0-360-0067 (6-C-1 - FILLET) 100X

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery	MSD Result ug/kg	MSD % Recovery	RPD	QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	12900	1000	13400	NC	16100	NC	18	43 - 130	56

T-366

Sample Number: 0-360-0080 (7-WS-1 - FILLET) 10X

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery	MSD Result ug/kg	MSD % Recovery	RPD	QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	1030	1000	1500	47	1850	81	21	43 - 130	56

T-367

Sample Number: 0-360-0058 (5-WS-8 - FILLET) 20X

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery	MSD Result ug/kg	MSD % Recovery	RPD	QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	2500	1000	3450	95	2850	35*	19	43 - 130	56

T-368

Sample Number: 0-360-0007 (1-WS-7 FILLET) 4X

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery	MSD Result ug/kg	MSD % Recovery	RPD	QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	178	1000	1190	101	1270	109	6	43 - 130	56

T-369

Sample Number: 0-360-0083 (7-C-1-FILLET) 20X

Analyte	Sample Result ug/kg	MS/MSD Spike Added ug/kg	MS Result ug/kg	MS % Recovery	MSD Result ug/kg	MSD % Recovery	RPD	QC limits % Recovery	QC limits RPD
PCB-1254 (Aroclor 1254)	2520	1000	4080	156*	4590	208*	12	43 - 130	56

T-374

Table 2.2 Results of the LCS Analysis for PCB in Tissue
WA # 0-360 Cornell Dubilier Biological Sampling

Sample Number: 11/07/08

Analyte	LCS Sspike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	224	90	40 - 128
				T-366

Sample Number: 11/14/08

Analyte	LCS Sspike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	237	95	40 - 128
				T-366

Sample Number: 11/04/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	236	94	40 - 128
				T-367

Sample Number: 11/11/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	232	93	40 - 128
				T-368

Sample Number: 11/06/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	233	93	40 - 128
				T-369

Sample Number: 11/06/08

Analyte	LCS Spike Added ug/kg	LCS Recovered ug/kg	LCS % Recovery	QC Limits % Recovery
PCB-1254 (Aroclor 1254)	250	231	92	40 - 128
				T-374

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Pace WI
1241 Bellevue Street
Suite 9
Greenbay, WI 54302

Attn: Todd Noltemeyer

October 30, 2008

As per Lockheed Martin Purchase Order 7100045713 for Project 0360, please analyze for the following parameters:

Analysis/Method	Matrix	# of samples
PBC Congeners/ SW-846-1668A(209 Congeners)	Asiatic Clams Sunfish Carp White Suckers	5 16 4 14
PCB/SW-846-8082	Asiatic Clams Sunfish Carp White Suckers	15 78 32 58
% Lipids/ PACE SOP S-GB-L-003 Rev. 1	Tissue	110
% Solids	Tissue	110
Data package: Package with Diskette Deliverable		

The samples arrived at your laboratory between October 17-24, 2008. The lab will follow the attached instructions for each matrix. **All applicable QA/QC**(eg: MS/MSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix.** Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to REAC 20 business days after receipt of the samples. The complete data package is due 30 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable(See attached checklist for format).

All results should be reported on dry weight basis and wet weight basis.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**. Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Joseph M Lowe for VK

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
L. Lyons
0360\non\mem\0810\sub\0360Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
M. Sprenger

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

4010390

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
001	0-360-0001	1-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	1-2ip
002	0-360-0002	1-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
003	0-360-0003	1-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
004	0-360-0004	1-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
005	0-360-0005	1-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
006	0-360-0006	1-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
007	0-360-0007	1-WS-7	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
008	0-360-0013	2-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
009	0-360-0014	2-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
010	0-360-0015	2-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
011	0-360-0016	2-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
012	0-360-0017	2-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
013	0-360-0018	2-WS-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
014	0-360-0019	2-WS-7	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
015	0-360-0020	2-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
016	0-360-0026	3-WS-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
017	0-360-0027	3-WS-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
018	0-360-0028	3-WS-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
019	0-360-0029	3-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
LAB Analysis ~~Analysis~~	L. A. Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

4010393

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0030	3-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	1-7
001	0-360-0031	3-WS-6	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
002	0-360-0032	3-WS-7	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
003	0-360-0033	3-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
004	0-360-0039	4-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
005	0-360-0040	4-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
006	0-360-0041	4-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
007	0-360-0042	4-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
008	0-360-0043	4-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
009	0-360-0044	4-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
010	0-360-0045	4-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
011	0-360-0046	4-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
012	0-360-0051	5-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
013	0-360-0052	5-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
014	0-360-0053	5-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
015	0-360-0054	5-WS-4	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
016	0-360-0055	5-WS-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
017	0-360-0056	5-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
018	0-360-0057	5-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									
	fedex	10/17/08		10/17/08	1000						

2

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

4010393

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
019	0-360-0058	5-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	1-20
020	0-360-0064	6-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	↓
	0-360-0065	6-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0066	6-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0080	7-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0081	7-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0082	7-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

end

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analyses	L A Lyons	10/14/08									
	Fedex	10/17/08		10/17/08	1000						

3

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

4010394

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
006	0-360-0008	1-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	1-2 P
007	0-360-0009	1-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
008	0-360-0010	1-P-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
009	0-360-0011	1-P-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
010	0-360-0012	1-P-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
011	0-360-0021	2-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
012	0-360-0022	2-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
013	0-360-0023	2-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
014	0-360-0024	2-P-4	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
015	0-360-0025	2-P-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
016	0-360-0034	3-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
017	0-360-0035	3-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
018	0-360-0036	3-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
019	0-360-0037	3-P-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
020	0-360-0038	3-P-5	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0047	4-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0048	4-P-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0049	4-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0050	4-P-4	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analyses	L Lyons	10/16/08									
	FedEx	10/17/08		10/17/08	1200						

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

LW10396

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
005	0-360-0059	5-P-1	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	1-2:0
006	0-360-0060	5-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
007	0-360-0061	5-BG-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
008	0-360-0062	5-BG-2	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
009	0-360-0063	5-BG-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									
	fedex	10/17/08	[illegible]	10/17/08	1000						

5

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0003

Lab: Pace Analytical

4010402

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
005	0-360-0075	6-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
006	0-360-0076	6-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
007	0-360-0077	6-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
008	0-360-0078	6-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
009	0-360-0079	6-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
010	0-360-0089	7-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
011	0-360-0090	7-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
012	0-360-0091	7-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
013	0-360-0092	7-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
014	0-360-0093	7-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
015	0-360-0094	7-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
016	0-360-0095	7-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

ev

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0004

Lab: Pace Analytical

4010396

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
010	0-360-0071	6-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	1-zip
011	0-360-0072	6-C-6	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
012	0-360-0073	6-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
013	0-360-0074	6-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
014	0-360-0083	7-C-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
015	0-360-0084	7-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									
	fedex	10/17/08		10/17/08	1000						

6

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0005

Lab: Pace Analytical

4010402

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
001	0-360-0067	6-C-1	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
002	0-360-0068	6-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
003	0-360-0069	6-C-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
004	0-360-0070	6-C-4	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

EW

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. Lyons	10/16/08	[illegible]	10/17/08	1000						
Fedex		10/17/08	↓								

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0006

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
016	0-360-0085	7-C-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
017	0-360-0086	7-C-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
018	0-360-0087	7-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
019	0-360-0088	7-C-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

END

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. A Lyons	10/16/08									

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Cornell Dubilier Biological Sampling
South Plainfield, New Jersey

April 2009

EPA Work Assignment No. 0-360
LOCKHEED MARTIN Work Order EAC00360
EPA Contract No. EP-C-04-032

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Introduction

REAC personnel, in response to WA# 0-360, provided analytical support for environmental samples collected from the Cornell Dubilier Biological Sampling Site in South Plainfield, NJ as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-360-10/16/08-0001	3	09/30/08	10/17/08	Fillet	PCB Congeners/ SW846 Method 1668A	PACE Analytical[1]	T 398
	2	10/01/08					
	3	10/02/08					
0-360-10/16/08-0002	4	09/30/08					
	2	10/02/08					
0-360-10/16/08-0003	2	10/01/08					
0-360-10/16/08-0005	1						
0-360-10/16/08-0006	1						

[1] PACE Analytical Services is NELAC certified for PCBs in tissue

Case Narrative

This report details the results for the FILLET samples submitted to the lab. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables.

The laboratory performed a method detection limit (MDL) study and reported results greater than the MDL. Results greater than the MDL and less than the reporting limit are qualified estimated (J); the MDLs are not reported in the attached tables. The laboratory did not provide percent solids data and these results could not be confirmed in the validation process.

Labeled internal standard 169L is not averaged for the hexa group congeners as per the laboratory. It is used only to quantitate the native congener 169. Congeners are referred by the IUPAC congener number.

<u>PCB Congeners in Tissue Package T 398</u>

Method blank MBLK-18146 contained congener 11. The concentration of congener 11 is qualified non-detect (U) for samples 0-360-0005 (1-WS-5-FILLET), 0-360-0018 (2-WS-6-FILLET), 0-360-0043 (4-WS-5-FILLET), 0-360-0009 (1-P-2-FILLET), 0-360-0023 (2-P-3-FILLET), 0-360-0036 (3-P-3-FILLET), 0-360-0049 (4-P-3-FILLET), 0-360-0060 (5-P-2-FILLET), 0-360-0063 (5-BG-3-FILLET), 0-360-0088 (7-C-6-FILLET), 0-360-0069 (6-C-3-FILLET), 0-360-0076 (6-BG-2-FILLET) and 0-360-0092 (7-BG-2-FILLET) because the sample results were less than five times the blank concentration.

Labeled internal standards Hepta-CB (188L), Octa-CB (202L) and Deca-CB (209L) did not meet the percent recovery limits for samples 0-360-0005 (1-WS-5-FILLET), 0-360-0028 (3-WS-3-FILLET), 0-360-0043 (4-WS-5-FILLET) and 0-360-0023 (2-P-3-FILLET). Congeners 170-188, 190-204 and 209 are qualified estimated (J) for these samples.

Labeled internal standards Hepta-CB (188L) and Octa-CB (202L) did not meet the percent recovery limits for sample 0-360-0014 (2-WS-2-FILLET). Congeners 170-188 and 190-204 are qualified estimated (J) for this sample.

Labeled internal standards Hexa-CB (169L), Hepta-CB (188L), Octa-CB (202L) and Deca-CB (209L) did not meet the percent recovery limits for samples 0-360-0054 (5-WS-4-FILLET), 0-360-0081 (7-WS-2-FILLET), 0-360-0009 (1-P-2-FILLET), 0-360-0036 (3-P-3-FILLET) and 0-360-0049 (4-P-3-FILLET). Congeners 169-188, 190-204 and 209 are qualified estimated (J) for these samples.

Internal Standards Hexa-CB (169L), Hepta-CB (188L) and Octa-CB (202L) did not meet the percent recovery limits for sample 0-360-0065 (6-WS-2-FILLET). Congeners 169-188 and 190-204 are qualified estimated (J) for these samples.

The results for congeners (129/138/163) for sample 0-360-0014 (2-WS-2-FILLET) were reported with peaks saturating at the 20x dilution. These congeners are qualified estimated (J) for this sample.

During sample analysis, the following lock mass ions exhibited a significant shift indicating loss of sensitivity at the retention times used for the monitoring of the PCB congeners in the homologue series. The impacted congeners are qualified as follows:

For sample 0-360-0014 (2-WS-2-FILLET), lock mass ion 380.976 exhibited significant shifts. Congeners 19, 132, 170, 190, 191and (198/199) for this sample are qualified estimated (J).

For sample 0-360-0005 (1-WS-5-FILLET), lock mass ions 380.976 and 442.978 exhibited significant shifts. Congeners 169, 170, 190, (198/199) and 205 for this sample are qualified estimated (J).

For sample 0-360-0018 (2-WS-6-FILLET), lock mass ion 380.976 exhibited significant shifts. Congeners 191, 196 and 203 for this sample are qualified estimated (J).

For sample 0-360-0028 (3-WS-3-FILLET), lock mass ions 230.9856, 280.9824, 330.9792 and 380.976 exhibited significant shifts. Congeners 43, 123, 127, 131, 132, 137, 141, 155, 170, 176, 184, 186 and 191 for this sample are qualified estimated (J).

For sample 0-360-0043 (4-WS-5-FILLET), lock mass ion 380.976 exhibited significant shifts. Congener 191 for this sample is qualified estimated (J).

For sample 0-360-0054 (5-WS-4-FILLET), lock mass ions 230.9856 and 380.976 exhibited significant shifts. Congeners 123, 132, 201, 191, 196, 203, and (198/199) for this sample are qualified estimated (J).

For sample 0-360-0065 (6-WS-2-FILLET), lock mass ions 230.9856 and 380.976 exhibited significant shifts. Congeners 5, 6, 19, 169, 170, 190, 196, 172, 191, (198/199), 201 and 203 for this sample are qualified estimated (J).

For sample 0-360-0081 (7-WS-2-FILLET), lock mass ions 280.9824 and 380.976 exhibited significant shifts. Congeners (49/69), (44/47/65), 169, 170, 172, 190, 192, (180/193), 196, (198/199), 201 and 203 for this sample are qualified estimated (J).

For sample 0-360-0009 (1-P-2-FILLET), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 172, 170, 169, (180/193), 191, 192, 196, (198/199), (197/200), 201, 203 and 208 for this sample are qualified estimated (J).

For sample 0-360-0023 (2-P-3-FILLET), lock mass ion 380.976 exhibited significant shifts. Congeners 169, 170, (156/157), 191, 190, 196, (198/199), 201 and 203 for this sample are qualified estimated (J).

For sample 0-360-0036 (3-P-3-FILLET), lock mass ion 380.976 exhibited significant shifts. Congeners 159, 162, 167, 169, 170, (171/173), 174, (156/157), (183/185), 177, 181, 190, 191, (180/193), 196, (197/200), (198/199), 201, 203 and 204 for this sample are qualified estimated (J).

For sample 0-360-0049 (4-P-3-FILLET), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 126, (128/166), (156/157), 169, 170, 172, 177, (180/193), 196, (197/200), 190, 191, (198/199), 201, 202, 203 and 208 for this sample are qualified estimated (J).

For sample 0-360-0060 (5-P-2-FILLET), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169, 190, 196, (198/199) and 208 for this sample are qualified estimated (J).

For sample 0-360-0063 (5-BG-3-FILLET, lock mass ions 380.976 and 442.9728 exhibited significant shifts Congeners 170, 190 and 208 for this sample are qualified estimated (J).

For sample 0-360-0088 (7-C-6-FILLET), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 170, 190 and 208 for this sample are qualified estimated (J).

For sample 0-360-0069 (6-C-3-FILLET, lock mass ions 230.9856, 380.976 and 442.9728 exhibited significant shifts. Congeners 19, 169, 190, 196 and 203 and 208 for this sample are qualified estimated (J).

For sample 0-360-0076 (6-BG-2-FILLET), lock mass ions 380.976 and 442.9728 exhibited significant shifts. Congeners 169,190 and 208 for this sample are qualified estimated (J).

For sample 0-360-0092 (7-BG-2-FILLET), lock mass ions 380.976 and 442.9728 exhibited significant shift s. Congeners 190, (198/199) and 208 for this sample are qualified estimated (J).

Congeners 77, 114, 123, 126, 189, 202, 205, 208, 206 and 209 did not meet percent recovery criteria for MS/MSD of sample 0-360-0005 (1-WS-5-FILLET). These congeners are qualified estimated (J) in sample 0-360-0005 (1-WS-5-FILLET).

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
PAL	Performance Acceptance Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated
N	Presumptively present		

Rev. 1/14/09

Table 1.1 Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008			0-360-0005	
Sample Location		Method Blank			1-WS-5-FILLET	
Percent Solids		100			22.1	
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	U		1.97	4.7		2.44
3-MoCB	2	U		1.97	U		2.44
4-MoCB	3	U		1.97	U		2.44
2,2'-DiCB	4	U		1.97	70.3		2.44
2,6-DiCB	10	U		1.97	6.57		2.44
2,5-DiCB	9	U		1.97	3.95	EMPC	2.44
2,4-DiCB	7	U		1.97	2.53	EMPC	2.44
2,3'-DiCB	6	U		1.97	16.3		2.44
2,3-DiCB	5	U		1.97	U		2.44
2,4'-DiCB	8	7.58		1.97	41.1		2.44
3,5-DiCB	14	U		1.97	U		2.44
3,3'-DiCB	11	48.4		1.97	U		65.2
(12/13)	12/13	U		3.93	U		4.88
4,4'-DiCB	15	3.41	EMPC	1.97	7.93	EMPC	2.44
2,2',6-TrCB	19	3.05		1.97	86.5		2.44
(18/30)	18/30	17.4		3.93	217		4.88
2,2',4-TrCB	17	10.4		1.97	187		2.44
2,3',6-TrCB	27	3.81		1.97	83.3		2.44
2,3,6-TrCB	24	U		1.97	U		2.44
2,2',3-TrCB	16	9.19		1.97	90		2.44
2,4',6-TrCB	32	6.78		1.97	219		2.44
2,3',5'-TrCB	34	U		1.97	3.43		2.44
2,3,5-TrCB	23	U		1.97	U		2.44
(26/29)	26/29	5.26		3.93	195		4.88
2,3',4-TrCB	25	U		1.97	67.5		2.44
2,4',5-TrCB	31	21.6		1.97	234		2.44
(20/28)	20/28	27		3.93	616		4.88
(21/33)	21/33	14.1		3.93	79.3		4.88
2,3,4'-TrCB	22	9.9		1.97	107		2.44
3,3',5-TrCB	36	U		1.97	U		2.44
3,4',5-TrCB	39	U		1.97	3.21		2.44
3,4,5-TrCB	38	U		1.97	U		2.44
3,3',4-TrCB	35	U		1.97	U		2.44
3,4,4'-TrCB	37	7.55		1.97	U		33.8
2,2',6,6'-TeCB	54	U		1.97	8.89		2.44
(50/53)	50/53	7.94		3.93	499		4.88
(45/51)	45/51	8.72		3.93	514		4.88
2,2',3,6'-TeCB	46	2.59		1.97	148		2.44
2,2',5,5'-TeCB	52	49.2		1.97	2130		2.44
2,3',5',6-TeCB	73	U		1.97	U		2.44
2,2',3,5-TeCB	43	U		1.97	45.5		2.44
(49/69)	49/69	26.5		3.93	1980		4.88
2,2',4,5-TeCB	48	4.59		1.97	164		2.44
(44/47/65)	44/47/65	36.5		5.9	2600		7.32
(59/62/75)	59/62/75	U		5.9	208		7.32
2,2',3,4'-TeCB	42	8.38		1.97	559		2.44
(40/41/71)	40/41/71	17.3		5.9	1010		7.32
2,3,4',6-TeCB	64	12.7		1.97	909		2.44
2,3',5,5'-TeCB	72	U		1.97	51.2		2.44
2,3',4,5'-TeCB	68	U		1.97	36.5		2.44
2,3,3',5-TeCB	57	U		1.97	13.6		2.44
2,3,3',5'-TeCB	58	U		1.97	13.4		2.44
2,3',4,5-TeCB	67	U		1.97	18.7		2.44
2,3,4',5-TeCB	63	U		1.97	66		2.44
(61/70/74/76)	61/70/74/76	31.9		7.87	2000		9.76
2,3',4,4'-TeCB	66	20.3		1.97	1410		2.44

Table 1.1 Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008		0-360-0005		
Sample Location		Method Blank		1-WS-5-FILLET		
Percent Solids		100		22.1		
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',4-TeCB	55	U	1.97	U		2.44
2,3,3',4'-TeCB	56	8.15	1.97	349		2.44
2,3,4,4'-TeCB	60	5.73	1.97	231		2.44
3,3',5,5'-TeCB	80	U	1.97	U		2.44
3,3',4,5'-TeCB	79	U	1.97	95		2.44
3,3',4,5-TeCB	78	U	1.97	30.2		2.44
3,4,4',5-TeCB	81	U	1.97	20.8		2.44
3,3',4,4'-TeCB	77	2.31	1.97	81.9	J	2.44
2,2',4,6,6'-PeCB	104	U	1.97	U		2.44
2,2',3,6,6'-PeCB	96	U	1.97	44.8		2.44
2,2',4,5',6-PeCB	103	U	1.97	64.3		2.44
2,2',3,5,6'-PeCB	94	U	1.97	40.1		2.44
2,2',3,5',6-PeCB	95	27.3	1.97	5070		2.44
(93/98/100/102)	93/98/100/102	U	7.87	305		9.76
(88/91)	88/91	5.93	3.93	1340		4.88
2,2',3,3',6-PeCB	84	8.03	1.97	1500		2.44
2,2',3,4,6'-PeCB	89	U	1.97	68.6		2.44
2,3',4,5',6-PeCB	121	U	1.97	U		2.44
2,2',3,5,5'-PeCB	92	7	1.97	1340		2.44
(90/101/113)	90/101/113	32.8	5.9	6580		7.32
2,2',3,3',5-PeCB	83	U	1.97	251		2.44
2,2',4,4',5-PeCB	99	20	1.97	4080		2.44
2,3,3',5,6-PeCB	112	U	1.97	U		2.44
(86/87/97/108/119/125)	86/87/97/108/119/125	23.9	11.8	4150		14.6
(85/117/116)	85/116/117	U	5.9	1290		7.32
(110/115)	110/115	36.2	3.93	9570		4.88
2,2',3,3',4-PeCB	82	2.86	1.97	653		2.44
2,3,3',5,5'-PeCB	111	U	1.97	3.7		2.44
2,3',4,5,5'-PeCB	120	U	1.97	21.5		2.44
(107/124)	107/124	U	3.93	200		4.88
2,3,3',4,6-PeCB	109	U	1.97	368		2.44
2,3',4,4',5'-PeCB	123	U	1.97	134	J	2.44
2,3,3',4,5-PeCB	106	U	1.97	U		2.44
2,3',4,4',5-PeCB	118	21.2	1.97	4800		2.44
2,3,3',4',5'-PeCB	122	U	1.97	58.9		2.44
2,3,4,4',5-PeCB	114	U	1.97	97.2	J	2.44
2,3,3',4,4'-PeCB	105	6.65	1.97	1710		2.44
3,3',4,5,5'-PeCB	127	U	1.97	11.6		2.44
3,3',4,4',5-PeCB	126	U	1.97	77.5	J	2.44
2,2',4,4',6,6'-HxCB	155	U	1.97	U		2.44
2,2',3,5,6,6'-HxCB	152	U	1.97	6.37		2.44
2,2',3,4',6,6'-HxCB	150	U	1.97	8.56		2.44
2,2',3,3',6,6'-HxCB	136	4.28	1.97	749		2.44
2,2',3,4,6,6'-HxCB	145	U	1.97	3.38		2.44
2,2',3,4',5,6'-HxCB	148	U	1.97	9.16		2.44
(135/151)	135/151	10.4	3.93	2910		4.88
2,2',4,4',5,6'-HxCB	154	U	1.97	80.2		2.44
2,2',3,4,5',6-HxCB	144	U	1.97	441		2.44
(147/149)	147/149	23.1	3.93	7350		4.88
(134/143)	134/143	U	3.93	333		4.88
(139/140)	139/140	U	3.93	172		4.88
2,2',3,3',4,6-HxCB	131	U	1.97	120		2.44
2,2',3,4,5,6-HxCB	142	U	1.97	U		2.44
2,2',3,3',4,6'-HxCB	132	10.2	1.97	2660		2.44
2,2',3,3',5,5'-HxCB	133	U	1.97	143		2.44
2,3,3',5,5',6-HxCB	165	U	1.97	3.12	EMPC	2.44

Table 1.1 Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008			0-360-0005		
Sample Location		Method Blank			1-WS-5-FILLET		
Percent Solids		100			22.1		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,2',3,4',5,5'-HxCB	146	3.48		1.97	1650		2.44
2,3,3',4,5',6-HxCB	161	U		1.97	U		2.44
(153/168)	153/168	22.4		3.93	8620		4.88
2,2',3,4,5,5'-HxCB	141	5.25		1.97	1300		2.44
2,2',3,3',4,5'-HxCB	130	U		1.97	531		2.44
2,2',3,4,4',5-HxCB	137	U		1.97	507		2.44
2,3,3',4',5',6-HxCB	164	U		1.97	718		2.44
(129/138/163)	129/138/163	27.4		5.9	11300		7.32
2,3,3',4,5,6-HxCB	160	U		1.97	U		2.44
2,3,3',4,4',6-HxCB	158	2.72		1.97	1010		2.44
(128/166)	128/166	U		3.93	1600		4.88
2,3,3',4,5,5'-HxCB	159	U		1.97	47.4		2.44
2,3,3',4',5,5'-HxCB	162	U		1.97	71.6		2.44
2,3',4,4',5,5'-HxCB	167	U		1.97	326		2.44
(156/157)	156/157	U		3.93	761		4.88
3,3',4,4',5,5'-HxCB	169	U		1.97	3.58	EMPC	2.44
2,2',3,4',5,6,6'-HpCB	188	U		1.97	3.12	J	2.44
2,2',3,3',5,6,6'-HpCB	179	2.41		1.97	675	J	2.44
2,2',3,4,4',6,6'-HpCB	184	U		1.97	U	J	2.44
2,2',3,3',4,6,6'-HpCB	176	U		1.97	230	J	2.44
2,2',3,4,5,6,6'-HpCB	186	U		1.97	U	J	2.44
2,2',3,3',5,5',6-HpCB	178	U		1.97	483	J	2.44
2,2',3,3',4,5',6-HpCB	175	U		1.97	82.4	J	2.44
2,2',3,4',5,5',6-HpCB	187	6.37		1.97	4700	J	2.44
2,2',3,4,4',5,6'-HpCB	182	U		1.97	U	J	2.44
(183/185)	183/185	4.34	EMPC	3.93	1460	J	4.88
2,2',3,3',4,5,6'-HpCB	174	5.35		1.97	1390	J	2.44
2,2',3,3',4,5',6'-HpCB	177	3.27		1.97	1060	J	2.44
2,2',3,4,4',5,6-HpCB	181	U		1.97	21.8	J	2.44
(171/173)	171/173	U		3.93	537	J	4.88
2,2',3,3',4,5,5'-HpCB	172	U		1.97	301	J	2.44
2,3,3',4,5,5',6-HpCB	192	U		1.97	U	J	2.44
(180/193)	180/193	9.31		3.93	3070	J	4.88
2,3,3',4,4',5',6-HpCB	191	U		1.97	61.3	J	2.44
2,2',3,3',4,4',5-HpCB	170	4.34		1.97	1220	J	2.44
2,3,3',4,4',5,6-HpCB	190	U		1.97	180	J	2.44
2,3,3',4,4',5,5'-HpCB	189	U		1.97	46.8	J	2.44
2,2',3,3',5,5',6,6'-OcCB	202	U		1.97	142	J	2.44
2,2',3,3',4,5',6,6'-OcCB	201	U		1.97	106	J	2.44
2,2',3,4,4',5,6,6'-OcCB	204	U		1.97	U	J	2.44
(197/200)	197/200	U		3.93	102	J	4.88
(198/199)	198/199	U		3.93	489	J	4.88
2,2',3,3',4,4',5,6'-OcCB	196	U		1.97	225	J	2.44
2,2',3,4,4',5,5',6-OcCB	203	U		1.97	425	J	2.44
2,2',3,3',4,4',5,6-OcCB	195	U		1.97	157	J	2.44
2,2',3,3',4,4',5,5'-OcCB	194	U		1.97	232	J	2.44
2,3,3',4,4',5,5',6-OcCB	205	U		1.97	23.8	J	2.44
2,2',3,3',4,5,5',6,6'-NoCB	208	U		1.97	69.2	J	2.44
2,2',3,3',4,4',5,6,6'-NoCB	207	U		1.97	22.4		2.44
2,2',3,3',4,4',5,5',6-NoCB	206	U		1.97	183	J	2.44
Decachlorobiphenyl	209	U		1.97	105	J	2.44

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Table 1.1 Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		11/11/2008		0-360-0005	
Sample Location		Method Blank		1-WS-5-FILLET	
Percent Solids		100		22.1	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		U		4.70	
Total Dichloro Biphenyls		56.0		200	
Total Trichloro Biphenyls		136		2220	
Total Tetrachloro Biphenyls		243		15200	
Total Pentachloro Biphenyls		192		43800	
Total Hexachloro Biphenyls		109		43400	
Total Heptachloro Biphenyls		31.1		15500	
Total Octachloro Biphenyls		U		1900	
Total Nonachloro Biphenyls		U		275	
Decachloro Biphenyls		U		105	
Total PCBS		767		123000	

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014			0-360-0018		
Sample Location		2-WS-2			2-WS-6		
Percent Solids		21.9			19.4		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	1570		2.97	567		4.12
3-MoCB	2	4.61		2.97	U		4.12
4-MoCB	3	41.6		2.97	28.5		4.12
2,2'-DiCB	4	26300		2.97	8320		4.12
2,6-DiCB	10	2520		2.97	844		4.12
2,5-DiCB	9	1030		2.97	246		4.12
2,4-DiCB	7	571		2.97	177		4.12
2,3'-DiCB	6	3750		2.97	946		4.12
2,3-DiCB	5	122		2.97	25.1		4.12
2,4'-DiCB	8	15400		2.97	4180		4.12
3,5-DiCB	14	U		2.97	U		4.12
3,3'-DiCB	11	971		2.97	U		89.3
(12/13)	12/13	384		5.93	164		8.23
4,4'-DiCB	15	658		2.97	414		4.12
2,2',6-TrCB	19	31900	J	2.97	9690		4.12
(18/30)	18/30	22200		5.93	5220		8.23
2,2',4-TrCB	17	54400		2.97	14200		4.12
2,3',6-TrCB	27	46700		2.97	13800		4.12
2,3,6-TrCB	24	U		2.97	U		4.12
2,2',3-TrCB	16	9190		2.97	2380		4.12
2,4',6-TrCB	32	30000		2.97	9260		4.12
2,3',5'-TrCB	34	701		2.97	221		4.12
2,3,5-TrCB	23	U		2.97	U		4.12
(26/29)	26/29	16800		5.93	4840		8.23
2,3',4-TrCB	25	9790		2.97	3490		4.12
2,4',5-TrCB	31	13700		2.97	5740		4.12
(20/28)	20/28	51400		5.93	16200		8.23
(21/33)	21/33	3550		5.93	1610		8.23
2,3,4'-TrCB	22	4310		2.97	1670		4.12
3,3',5-TrCB	36	U		2.97	U		4.12
3,4',5-TrCB	39	193		2.97	111		4.12
3,4,5-TrCB	38	110		2.97	50.2		4.12
3,3',4-TrCB	35	U		2.97	22.9	EMPC	4.12
3,4,4'-TrCB	37	1660		2.97	841		4.12
2,2',6,6'-TeCB	54	3940		2.97	1120		4.12
(50/53)	50/53	70800		5.93	21500		8.23
(45/51)	45/51	72100		5.93	23200		8.23
2,2',3,6'-TeCB	46	13500		2.97	4340		4.12
2,2',5,5'-TeCB	52	255000		59.3	171000		4.12
2,3',5',6-TeCB	73	U		2.97	U		4.12
2,2',3,5-TeCB	43	3350		2.97	1190		4.12
(49/69)	49/69	352000		119	122000		8.23
2,2',4,5-TeCB	48	10700		2.97	5070		4.12
(44/47/65)	44/47/65	461000		178	186000		12.3
(59/62/75)	59/62/75	12800		8.9	4280		12.3
2,2',3,4'-TeCB	42	57500		2.97	20600		4.12
(40/41/71)	40/41/71	99700		8.9	41400		12.3
2,3,4',6-TeCB	64	67500		2.97	34400		4.12
2,3',5,5'-TeCB	72	9080		2.97	3420		4.12
2,3',4,5'-TeCB	68	12100		2.97	5020		4.12
2,3,3',5-TeCB	57	2860		2.97	1880		4.12
2,3,3',5'-TeCB	58	1270	EMPC	2.97	781		4.12
2,3',4,5-TeCB	67	1800		2.97	737		4.12
2,3,4',5-TeCB	63	10200		2.97	4550		4.12
(61/70/74/76)	61/70/74/76	293000		11.9	226000		16.5

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014			0-360-0018		
Sample Location		2-WS-2			2-WS-6		
Percent Solids		21.9			19.4		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	184000		2.97	101000		4.12
2,3,3',4-TeCB	55	U		2.97	U		4.12
2,3,3',4'-TeCB	56	27600		2.97	18500		4.12
2,3,4,4'-TeCB	60	15700		2.97	8900		4.12
3,3',5,5'-TeCB	80	U		2.97	U		4.12
3,3',4,5'-TeCB	79	3550		2.97	5010		4.12
3,3',4,5-TeCB	78	187	EMPC	2.97	185	EMPC	4.12
3,4,4',5-TeCB	81	423	EMPC	2.97	409	EMPC	4.12
3,3',4,4'-TeCB	77	3370		2.97	1460		4.12
2,2',4,6,6'-PeCB	104	408		2.97	140		4.12
2,2',3,6,6'-PeCB	96	5680		2.97	2360		4.12
2,2',4,5',6-PeCB	103	10200		2.97	3850		4.12
2,2',3,5,6'-PeCB	94	10400		2.97	3910		4.12
2,2',3,5',6-PeCB	95	510000		59.3	332000		4.12
(93/98/100/102)	93/98/100/102	49700		11.9	25300		16.5
(88/91)	88/91	151000		5.93	92700		8.23
2,2',3,3',6-PeCB	84	199000		2.97	133000		4.12
2,2',3,4,6'-PeCB	89	5150		2.97	3440		4.12
2,3',4,5',6-PeCB	121	349		2.97	141		4.12
2,2',3,5,5'-PeCB	92	180000		2.97	113000		4.12
(90/101/113)	90/101/113	1010000		178	797000		246
2,2',3,3',5-PeCB	83	37700		2.97	26900		4.12
2,2',4,4',5-PeCB	99	702000		59.3	478000		82.4
2,3,3',5,6-PeCB	112	U		2.97	U		4.12
(86/87/97/108/119/125)	86/87/97/108/119/125	778000		356	564000		494
(85/117/116)	85/116/117	200000		8.9	140000		12.3
(110/115)	110/115	1240000		1350	961000		164.4
2,2',3,3',4-PeCB	82	110000		2.97	81400		4.12
2,3,3',5,5'-PeCB	111	539	EMPC	2.97	402		4.12
2,3',4,5,5'-PeCB	120	1950		2.97	1250		4.12
(107/124)	107/124	39900		5.93	34800		8.23
2,3,3',4,6-PeCB	109	75400		2.97	54900		4.12
2,3',4,4',5'-PeCB	123	32600		2.97	25300		4.12
2,3,3',4,5-PeCB	106	U		2.97	U		4.12
2,3',4,4',5-PeCB	118	1130000		59.3	1020000		82.4
2,3,3',4',5'-PeCB	122	10200		2.97	8120		4.12
2,3,4,4',5-PeCB	114	29100		2.97	22700		4.12
2,3,3',4,4'-PeCB	105	391000		2.97	332000		4.12
3,3',4,5,5'-PeCB	127	1680		2.97	2610		4.12
3,3',4,4',5-PeCB	126	7650		2.97	4390		4.12
2,2',4,4',6,6'-HxCB	155	29.8		2.97	29.5		4.12
2,2',3,5,6,6'-HxCB	152	987		2.97	547		4.12
2,2',3,4',6,6'-HxCB	150	1110		2.97	731		4.12
2,2',3,3',6,6'-HxCB	136	71900		2.97	51300		4.12
2,2',3,4,6,6'-HxCB	145	411		2.97	307		4.12
2,2',3,4',5,6'-HxCB	148	1090		2.97	646		4.12
(135/151)	135/151	190000		5.93	130000		8.23
2,2',4,4',5,6'-HxCB	154	10100		2.97	6420		4.12
2,2',3,4,5',6-HxCB	144	37700		2.97	31200		4.12
(147/149)	147/149	603000		119	483000		164.6
(134/143)	134/143	40200		5.93	29000		8.23
(139/140)	139/140	27300		5.93	22700		8.23
2,2',3,3',4,6-HxCB	131	17300		2.97	16500		4.12
2,2',3,4,5,6-HxCB	142	U		2.97	U		4.12
2,2',3,3',4,6'-HxCB	132	102000	J	2.97	218000		4.12
2,2',3,3',5,5'-HxCB	133	14400		2.97	10700		4.12

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014			0-360-0018		
Sample Location		2-WS-2			2-WS-6		
Percent Solids		21.9			19.4		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	291		2.97	169		4.12
2,2',3,4',5,5'-HxCB	146	131000		2.97	119000		4.12
2,3,3',4,5',6-HxCB	161	U		2.97	U		4.12
(153/168)	153/168	830000		119	765000		164.6
2,2',3,4,5,5'-HxCB	141	118000		2.97	120000		4.12
2,2',3,3',4,5'-HxCB	130	76600		2.97	67900		4.12
2,2',3,4,4',5-HxCB	137	87600		2.97	75100		4.12
2,3,3',4',5',6-HxCB	164	68200		2.97	71500		4.12
(129/138/163)	129/138/163	1320000	J	178	1190000		12.3
2,3,3',4,5,6-HxCB	160	U		2.97	U		4.12
2,3,3',4,4',6-HxCB	158	137000		2.97	130000		4.12
(128/166)	128/166	226000		5.93	209000		8.23
2,3,3',4,5,5'-HxCB	159	126		2.97	148	EMPC	4.12
2,3,3',4',5,5'-HxCB	162	3110		2.97	5310		4.12
2,3',4,4',5,5'-HxCB	167	52500		2.97	51200		4.12
(156/157)	156/157	178000		5.93	162000		8.23
3,3',4,4',5,5'-HxCB	169	76	EMPC	2.97	54	EMPC	4.12
2,2',3,4',5,6,6'-HpCB	188	121	J	2.97	80.1		4.12
2,2',3,3',5,6,6'-HpCB	179	15600	J	2.97	9820		4.12
2,2',3,4,4',6,6'-HpCB	184	106	J	2.97	82.3		4.12
2,2',3,3',4,6,6'-HpCB	176	8160	J	2.97	6370		4.12
2,2',3,4,5,6,6'-HpCB	186	52.7	J	2.97	39.9		4.12
2,2',3,3',5,5',6-HpCB	178	11400	J	2.97	7160		4.12
2,2',3,3',4,5',6-HpCB	175	3460	J	2.97	2680		4.12
2,2',3,4',5,5',6-HpCB	187	77500	J	2.97	50300		4.12
2,2',3,4,4',5,6'-HpCB	182	U	J	2.97	766		4.12
(183/185)	183/185	48400	J	5.93	40100		8.23
2,2',3,3',4,5,6'-HpCB	174	39700	J	2.97	34000		4.12
2,2',3,3',4,5',6'-HpCB	177	39400	J	2.97	28800		4.12
2,2',3,4,4',5,6-HpCB	181	3010	J	2.97	2450		4.12
(171/173)	171/173	31900	J	5.93	27400		8.23
2,2',3,3',4,5,5'-HpCB	172	13200	J	2.97	11300		4.12
2,3,3',4,5,5',6-HpCB	192	U	J	2.97	U		4.12
(180/193)	180/193	116000	J	5.93	98600		8.23
2,3,3',4,4',5',6-HpCB	191	3540	J	2.97	3310	J	4.12
2,2',3,3',4,4',5-HpCB	170	88400	J	2.97	80200		4.12
2,3,3',4,4',5,6-HpCB	190	11100	J	2.97	7840		4.12
2,3,3',4,4',5,5'-HpCB	189	4240		2.97	4060		4.12
2,2',3,3',5,5',6,6'-OcCB	202	1810	J	2.97	1120		4.12
2,2',3,3',4,5',6,6'-OcCB	201	1440	J	2.97	968		4.12
2,2',3,4,4',5,6,6'-OcCB	204	10.6	J	2.97	6.83	EMPC	4.12
(197/200)	197/200	1430	J	5.93	929		8.23
(198/199)	198/199	8300	J	5.93	5990		8.23
2,2',3,3',4,4',5,6'-OcCB	196	4870	J	2.97	4040	J	4.12
2,2',3,4,4',5,5',6-OcCB	203	7930	J	2.97	6330	J	4.12
2,2',3,3',4,4',5,6-OcCB	195	3760	J	2.97	3300		4.12
2,2',3,3',4,4',5,5'-OcCB	194	6520	J	2.97	7300		4.12
2,3,3',4,4',5,5',6-OcCB	205	514		2.97	414		4.12
2,2',3,3',4,5,5',6,6'-NoCB	208	807		2.97	558		4.12
2,2',3,3',4,4',5,6,6'-NoCB	207	381		2.97	325		4.12
2,2',3,3',4,4',5,5',6-NoCB	206	2990		2.97	2380		4.12
Decachlorobiphenyl	209	701		2.97	330		4.12

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0014		0-360-0018	
Sample Location		2-WS-2		2-WS-6	
Percent Solids		21.9		19.4	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		1620		596	
Total Dichloro Biphenyls		51700		15400	
Total Trichloro Biphenyls		297000		89300	
Total Tetrachloro Biphenyls		2040000		1010000	
Total Pentachloro Biphenyls		6910000		5260000	
Total Hexachloro Biphenyls		4940000		3970000	
Total Heptachloro Biphenyls		516000		415000	
Total Octachloro Biphenyls		36600		30400	
Total Nonachloro Biphenyls		4180		3270	
Decachloro Biphenyls		701		330	
Total PCBS		14200000		10800000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028			0-360-0043	
Sample Location		3-WS-3			4-WS-5	
Percent Solids		20.8			24.2	
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	1540		0.853	157	2.48
3-MoCB	2	4.4		0.853	U	2.48
4-MoCB	3	48.6		0.853	5.88	2.48
2,2'-DiCB	4	28600		0.853	3280	2.48
2,6-DiCB	10	3000		0.853	351	2.48
2,5-DiCB	9	1020		0.853	82.4	2.48
2,4-DiCB	7	583		0.853	55.8	2.48
2,3'-DiCB	6	4260		0.853	398	2.48
2,3-DiCB	5	99.2		0.853	U	2.48
2,4'-DiCB	8	11700		0.853	801	2.48
3,5-DiCB	14	U		0.853	119	2.48
3,3'-DiCB	11	912		0.853	U	230
(12/13)	12/13	362		1.71	92.1	4.97
4,4'-DiCB	15	1140		0.853	92	2.48
2,2',6-TrCB	19	30700		0.853	4380	2.48
(18/30)	18/30	28600		1.71	4450	4.97
2,2',4-TrCB	17	46700		0.853	10100	2.48
2,3',6-TrCB	27	38900		0.853	11900	2.48
2,3,6-TrCB	24	U		0.853	U	2.48
2,2',3-TrCB	16	10800		0.853	1340	2.48
2,4',6-TrCB	32	38500		0.853	7650	2.48
2,3',5'-TrCB	34	660		0.853	163	2.48
2,3,5-TrCB	23	77.3		0.853	10.2	2.48
(26/29)	26/29	23000		1.71	7740	4.97
2,3',4-TrCB	25	10400		0.853	2240	2.48
2,4',5-TrCB	31	28400		0.853	2390	2.48
(20/28)	20/28	76400		1.71	12500	4.97
(21/33)	21/33	7690		1.71	839	4.97
2,3,4'-TrCB	22	13200		0.853	1370	2.48
3,3',5-TrCB	36	U		0.853	U	2.48
3,4',5-TrCB	39	213		0.853	38	2.48
3,4,5-TrCB	38	U		0.853	68.7	2.48
3,3',4-TrCB	35	U		0.853	U	2.48
3,4,4'-TrCB	37	3220		0.853	391	2.48
2,2',6,6'-TeCB	54	2270		0.853	614	2.48
(50/53)	50/53	49900		1.71	24000	4.97
(45/51)	45/51	47000		1.71	17600	4.97
2,2',3,6'-TeCB	46	10800		0.853	4090	2.48
2,2',5,5'-TeCB	52	172000		17.1	54300	2.48
2,3',5',6-TeCB	73	U		0.853	U	2.48
2,2',3,5-TeCB	43	3070	J	0.853	1270	2.48
(49/69)	49/69	234000		34.1	111000	4.97
2,2',4,5-TeCB	48	10600		0.853	1790	2.48
(44/47/65)	44/47/65	266000		51.2	99000	7.45
(59/62/75)	59/62/75	14900		2.56	8470	7.45
2,2',3,4'-TeCB	42	49100		0.853	15300	2.48
(40/41/71)	40/41/71	71600		2.56	31500	7.45
2,3,4',6-TeCB	64	75200		0.853	18900	2.48
2,3',5,5'-TeCB	72	8090		0.853	5360	2.48
2,3',4,5'-TeCB	68	7860		0.853	4490	2.48
2,3,3',5-TeCB	57	2120		0.853	1570	2.48
2,3,3',5'-TeCB	58	1470		0.853	623	2.48
2,3',4,5-TeCB	67	2070		0.853	496	2.48
2,3,4',5-TeCB	63	8140		0.853	2270	2.48
(61/70/74/76)	61/70/74/76	184000		3.41	30200	9.94

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028			0-360-0043		
Sample Location		3-WS-3			4-WS-5		
Percent Solids		20.8			24.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	151000		0.853	41700		2.48
2,3,3',4-TeCB	55	U		0.853	U		2.48
2,3,3',4'-TeCB	56	24300		0.853	3960		2.48
2,3,4,4'-TeCB	60	15100		0.853	2440		2.48
3,3',5,5'-TeCB	80	U		0.853	U		2.48
3,3',4,5'-TeCB	79	6760		0.853	1530		2.48
3,3',4,5-TeCB	78	2210		0.853	U		2.48
3,4,4',5-TeCB	81	302	EMPC	0.853	123	EMPC	2.48
3,3',4,4'-TeCB	77	3700		0.853	746		2.48
2,2',4,6,6'-PeCB	104	146		0.853	83.9		2.48
2,2',3,6,6'-PeCB	96	3250		0.853	1470		2.48
2,2',4,5',6-PeCB	103	6920		0.853	2860		2.48
2,2',3,5,6'-PeCB	94	5660		0.853	1650		2.48
2,2',3,5',6-PeCB	95	242000		85.3	95000		2.48
(93/98/100/102)	93/98/100/102	30900		3.41	8700		9.94
(88/91)	88/91	116000		1.71	32200		4.97
2,2',3,3',6-PeCB	84	108000		0.853	28000		2.48
2,2',3,4,6'-PeCB	89	3170		0.853	705		2.48
2,3',4,5',6-PeCB	121	235		0.853	162		2.48
2,2',3,5,5'-PeCB	92	133000		0.853	36900		2.48
(90/101/113)	90/101/113	599000		256	156000		7.45
2,2',3,3',5-PeCB	83	28400		0.853	7550		2.48
2,2',4,4',5-PeCB	99	373000		85.3	128000		2.48
2,3,3',5,6-PeCB	112	U		0.853	U		2.48
(86/87/97/108/119/125)	86/87/97/108/119/125	388000		512	108000		14.9
(85/117/116)	85/116/117	121000		2.56	29900		7.45
(110/115)	110/115	707000		171	215000		4.97
2,2',3,3',4-PeCB	82	59600		0.853	11200		2.48
2,3,3',5,5'-PeCB	111	517		0.853	415		2.48
2,3',4,5,5'-PeCB	120	2270		0.853	1460		2.48
(107/124)	107/124	21800		1.71	3320		4.97
2,3,3',4,6-PeCB	109	45800		0.853	13400		2.48
2,3',4,4',5'-PeCB	123	28300	J	0.853	3340		2.48
2,3,3',4,5-PeCB	106	U		0.853	U		2.48
2,3',4,4',5-PeCB	118	576000		85.3	132000		2.48
2,3,3',4',5'-PeCB	122	4860		0.853	828		2.48
2,3,4,4',5-PeCB	114	16500		0.853	2100		2.48
2,3,3',4,4'-PeCB	105	215000		0.853	35400		2.48
3,3',4,5,5'-PeCB	127	1410	J	0.853	342		2.48
3,3',4,4',5-PeCB	126	1620		0.853	575		2.48
2,2',4,4',6,6'-HxCB	155	23	J	0.853	11		2.48
2,2',3,5,6,6'-HxCB	152	533		0.853	172		2.48
2,2',3,4',6,6'-HxCB	150	793		0.853	265		2.48
2,2',3,3',6,6'-HxCB	136	52900		0.853	14000		2.48
2,2',3,4,6,6'-HxCB	145	257		0.853	63.8		2.48
2,2',3,4',5,6'-HxCB	148	808		0.853	240		2.48
(135/151)	135/151	172000		1.71	38700		4.97
2,2',4,4',5,6'-HxCB	154	7240		0.853	1870		2.48
2,2',3,4,5',6-HxCB	144	29300		0.853	5350		2.48
(147/149)	147/149	413000		171	95700		4.97
(134/143)	134/143	24300		1.71	5140		4.97
(139/140)	139/140	20200		1.71	3840		4.97
2,2',3,3',4,6-HxCB	131	11400	J	0.853	2080		2.48
2,2',3,4,5,6-HxCB	142	U		0.853	U		2.48
2,2',3,3',4,6'-HxCB	132	134000	J	0.853	39700		2.48
2,2',3,3',5,5'-HxCB	133	10400		0.853	3020		2.48

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028			0-360-0043		
Sample Location		3-WS-3			4-WS-5		
Percent Solids		20.8			24.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	U		0.853	220		2.48
2,2',3,4',5,5'-HxCB	146	109000		0.853	25800		2.48
2,3,3',4,5',6-HxCB	161	U		0.853	U		2.48
(153/168)	153/168	623000		171	134000		4.97
2,2',3,4,5,5'-HxCB	141	84200	J	0.853	14900		2.48
2,2',3,3',4,5'-HxCB	130	48300		0.853	9030		2.48
2,2',3,4,4',5-HxCB	137	61400	J	0.853	10300		2.48
2,3,3',4',5',6-HxCB	164	47800		0.853	9230		2.48
(129/138/163)	129/138/163	884000		256	175000		7.45
2,3,3',4,5,6-HxCB	160	U		0.853	U		2.48
2,3,3',4,4',6-HxCB	158	92700		0.853	17700		2.48
(128/166)	128/166	126000		1.71	25700		4.97
2,3,3',4,5,5'-HxCB	159	1190		0.853	26	EMPC	2.48
2,3,3',4',5,5'-HxCB	162	3810		0.853	377		2.48
2,3',4,4',5,5'-HxCB	167	31800		0.853	5780		2.48
(156/157)	156/157	112000		1.71	17400		4.97
3,3',4,4',5,5'-HxCB	169	79.9	EMPC	0.853	27.9	EMPC	2.48
2,2',3,4',5,6,6'-HpCB	188	69.9	J	0.853	19.1	J	2.48
2,2',3,3',5,6,6'-HpCB	179	15200	J	0.853	3600	J	2.48
2,2',3,4,4',6,6'-HpCB	184	68.2	J	0.853	17.1	J	2.48
2,2',3,3',4,6,6'-HpCB	176	7520	J	0.853	1620	J	2.48
2,2',3,4,5,6,6'-HpCB	186	28.3	J	0.853	6.93	EMPC	2.48
2,2',3,3',5,5',6-HpCB	178	9950	J	0.853	2590	J	2.48
2,2',3,3',4,5',6-HpCB	175	2780	J	0.853	558	J	2.48
2,2',3,4',5,5',6-HpCB	187	103000	J	0.853	21400	J	2.48
2,2',3,4,4',5,6'-HpCB	182	U	J	0.853	U	J	2.48
(183/185)	183/185	44900	J	1.71	9460	J	4.97
2,2',3,3',4,5,6'-HpCB	174	33700	J	0.853	6180	J	2.48
2,2',3,3',4,5',6'-HpCB	177	30000	J	0.853	5850	J	2.48
2,2',3,4,4',5,6-HpCB	181	1720	J	0.853	331	J	2.48
(171/173)	171/173	23100	J	1.71	4630	J	4.97
2,2',3,3',4,5,5'-HpCB	172	9930	J	0.853	1880	J	2.48
2,3,3',4,5,5',6-HpCB	192	U	J	0.853	U	J	2.48
(180/193)	180/193	89700	J	1.71	20300	J	4.97
2,3,3',4,4',5',6-HpCB	191	2580	J	0.853	480	J	2.48
2,2',3,3',4,4',5-HpCB	170	56800	J	0.853	10800	J	2.48
2,3,3',4,4',5,6-HpCB	190	6860	J	0.853	1400	J	2.48
2,3,3',4,4',5,5'-HpCB	189	3220		0.853	604		2.48
2,2',3,3',5,5',6,6'-OcCB	202	1510	J	0.853	400	J	2.48
2,2',3,3',4,5',6,6'-OcCB	201	1570	J	0.853	385	J	2.48
2,2',3,4,4',5,6,6'-OcCB	204	8.04	J	0.853	U	J	2.48
(197/200)	197/200	1630	J	1.71	424	J	4.97
(198/199)	198/199	8180	J	1.71	2030	J	4.97
2,2',3,3',4,4',5,6'-OcCB	196	5160	J	0.853	1160	J	2.48
2,2',3,4,4',5,5',6-OcCB	203	9020	J	0.853	1890	J	2.48
2,2',3,3',4,4',5,6-OcCB	195	4100	J	0.853	817	J	2.48
2,2',3,3',4,4',5,5'-OcCB	194	6900	J	0.853	1360	J	2.48
2,3,3',4,4',5,5',6-OcCB	205	611		0.853	122		2.48
2,2',3,3',4,5,5',6,6'-NoCB	208	524		0.853	135		2.48
2,2',3,3',4,4',5,6,6'-NoCB	207	281		0.853	68.4		2.48
2,2',3,3',4,4',5,5',6-NoCB	206	2290		0.853	516		2.48
Decachlorobiphenyl	209	391	J	0.853	120	J	2.48

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0028		0-360-0043	
Sample Location		3-WS-3		4-WS-5	
Percent Solids		20.8		24.2	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		1590		162	
Total Dichloro Biphenyls		51700		5500	
Total Trichloro Biphenyls		358000		67600	
Total Tetrachloro Biphenyls		1420000		483000	
Total Pentachloro Biphenyls		3840000		1060000	
Total Hexachloro Biphenyls		3100000		855000	
Total Heptachloro Biphenyls		442000		91700	
Total Octachloro Biphenyls		38700		8580	
Total Nonachloro Biphenyls		3090		719	
Decachloro Biphenyls		391		120	
Total PCBS		9260000		2370000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054			0-360-0065		
Sample Location		5-WS-4			6-WS-2		
Percent Solids		20.7			20		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	269		0.892	269		2.06
3-MoCB	2	1.95		0.892	U		2.06
4-MoCB	3	9.91		0.892	6.96		2.06
2,2'-DiCB	4	6590		0.892	7680		2.06
2,6-DiCB	10	748		0.892	810		2.06
2,5-DiCB	9	175		0.892	318		2.06
2,4-DiCB	7	105		0.892	154		2.06
2,3'-DiCB	6	853		0.892	1220	J	2.06
2,3-DiCB	5	16.6		0.892	12.2	EMPC	2.06
2,4'-DiCB	8	1630		0.892	2740		2.06
3,5-DiCB	14	279		0.892	U		2.06
3,3'-DiCB	11	345		0.892	623		2.06
(12/13)	12/13	179		1.78	210		4.11
4,4'-DiCB	15	220		0.892	131		2.06
2,2',6-TrCB	19	9200		0.892	14200	J	2.06
(18/30)	18/30	11300		1.78	8190		4.11
2,2',4-TrCB	17	18800		0.892	24900		2.06
2,3',6-TrCB	27	26300		0.892	24600		2.06
2,3,6-TrCB	24	U		0.892	U		2.06
2,2',3-TrCB	16	3180		0.892	3110		2.06
2,4',6-TrCB	32	14100		0.892	18200		2.06
2,3',5'-TrCB	34	275		0.892	370		2.06
2,3,5-TrCB	23	21.6		0.892	19.1		2.06
(26/29)	26/29	16000		1.78	13600		4.11
2,3',4-TrCB	25	5030		0.892	4190		2.06
2,4',5-TrCB	31	10200		0.892	7970		2.06
(20/28)	20/28	23700		1.78	27500		4.11
(21/33)	21/33	1920		1.78	2170		4.11
2,3,4'-TrCB	22	3360		0.892	3140		2.06
3,3',5-TrCB	36	U		0.892	U		2.06
3,4',5-TrCB	39	51.3	EMPC	0.892	74.3	EMPC	2.06
3,4,5-TrCB	38	90.6	EMPC	0.892	76.6		2.06
3,3',4-TrCB	35	U		0.892	32.1	EMPC	2.06
3,4,4'-TrCB	37	744		0.892	475		2.06
2,2',6,6'-TeCB	54	1340		0.892	1670		2.06
(50/53)	50/53	48500		1.78	34800		4.11
(45/51)	45/51	30300		1.78	30800		4.11
2,2',3,6'-TeCB	46	8540		0.892	6630		2.06
2,2',5,5'-TeCB	52	104000		17.8	66600		2.06
2,3',5',6-TeCB	73	U		0.892	U		2.06
2,2',3,5-TeCB	43	4730		0.892	1750		2.06
(49/69)	49/69	182000		35.7	137000		82.2
2,2',4,5-TeCB	48	3850		0.892	3280		2.06
(44/47/65)	44/47/65	159000		53.5	147000		6.17
(59/62/75)	59/62/75	17400		2.68	9130		6.17
2,2',3,4'-TeCB	42	27400		0.892	20800		2.06
(40/41/71)	40/41/71	45100		2.68	41500		6.17
2,3,4',6-TeCB	64	34200		0.892	27100		2.06
2,3',5,5'-TeCB	72	7140		0.892	5910		2.06
2,3',4,5'-TeCB	68	5470		0.892	5470		2.06
2,3,3',5-TeCB	57	1270	EMPC	0.892	1410		2.06
2,3,3',5'-TeCB	58	1020		0.892	829		2.06
2,3',4,5-TeCB	67	1290		0.892	921		2.06
2,3,4',5-TeCB	63	3270		0.892	3540		2.06
(61/70/74/76)	61/70/74/76	65400		3.57	82300		8.22

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054			0-360-0065		
Sample Location		5-WS-4			6-WS-2		
Percent Solids		20.7			20		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	57000		0.892	65600		2.06
2,3,3',4-TeCB	55	U		0.892	U		2.06
2,3,3',4'-TeCB	56	8550		0.892	8730		2.06
2,3,4,4'-TeCB	60	3960		0.892	4710		2.06
3,3',5,5'-TeCB	80	U		0.892	U		2.06
3,3',4,5'-TeCB	79	934		0.892	1790		2.06
3,3',4,5-TeCB	78	41.4	EMPC	0.892	53.6	EMPC	2.06
3,4,4',5-TeCB	81	118	EMPC	0.892	202	EMPC	2.06
3,3',4,4'-TeCB	77	1390		0.892	1120		2.06
2,2',4,6,6'-PeCB	104	118		0.892	143		2.06
2,2',3,6,6'-PeCB	96	2710		0.892	1900		2.06
2,2',4,5',6-PeCB	103	4420		0.892	3790		2.06
2,2',3,5,6'-PeCB	94	3240		0.892	3050		2.06
2,2',3,5',6-PeCB	95	145000		17.8	141000		2.06
(93/98/100/102)	93/98/100/102	14100		3.57	13800		8.22
(88/91)	88/91	46500		1.78	46300		4.11
2,2',3,3',6-PeCB	84	53000		0.892	47100		2.06
2,2',3,4,6'-PeCB	89	1100		0.892	1210		2.06
2,3',4,5',6-PeCB	121	169		0.892	141		2.06
2,2',3,5,5'-PeCB	92	54000		0.892	49700		2.06
(90/101/113)	90/101/113	200000		53.5	221000		123
2,2',3,3',5-PeCB	83	15900		0.892	11000		2.06
2,2',4,4',5-PeCB	99	137000		17.8	147000		164
2,3,3',5,6-PeCB	112	U		0.892	U		2.06
(86/87/97/108/119/125)	86/87/97/108/119/125	134000		107	164000		247
(85/117/116)	85/116/117	34700		2.68	46200		6.17
(110/115)	110/115	291000		89.2	315000		82.2
2,2',3,3',4-PeCB	82	16100		0.892	22400		2.06
2,3,3',5,5'-PeCB	111	332		0.892	308		2.06
2,3',4,5,5'-PeCB	120	1230		0.892	1190		2.06
(107/124)	107/124	4850		1.78	7950		4.11
2,3,3',4,6-PeCB	109	15700		0.892	17800		2.06
2,3',4,4',5'-PeCB	123	3060	J	0.892	8810		2.06
2,3,3',4,5-PeCB	106	U		0.892	U		2.06
2,3',4,4',5-PeCB	118	154000		0.892	278000		41.1
2,3,3',4',5'-PeCB	122	1560		0.892	2110		2.06
2,3,4,4',5-PeCB	114	3130		0.892	5290		2.06
2,3,3',4,4'-PeCB	105	51500		0.892	81600		2.06
3,3',4,5,5'-PeCB	127	244		0.892	624		2.06
3,3',4,4',5-PeCB	126	679		0.892	727		2.06
2,2',4,4',6,6'-HxCB	155	13.2		0.892	11.4		2.06
2,2',3,5,6,6'-HxCB	152	262		0.892	282		2.06
2,2',3,4',6,6'-HxCB	150	345		0.892	335		2.06
2,2',3,3',6,6'-HxCB	136	22800		0.892	21600		2.06
2,2',3,4,6,6'-HxCB	145	89		0.892	107		2.06
2,2',3,4',5,6'-HxCB	148	320		0.892	321		2.06
(135/151)	135/151	57600		1.78	57500		4.11
2,2',4,4',5,6'-HxCB	154	2360		0.892	2780		2.06
2,2',3,4,5',6-HxCB	144	7340		0.892	9090		2.06
(147/149)	147/149	108000		1.78	139000		82.2
(134/143)	134/143	9870		1.78	10900		4.11
(139/140)	139/140	4330		1.78	7120		4.11
2,2',3,3',4,6-HxCB	131	2430		0.892	4270		2.06
2,2',3,4,5,6-HxCB	142	U		0.892	U		2.06
2,2',3,3',4,6'-HxCB	132	48700	J	0.892	67600		2.06
2,2',3,3',5,5'-HxCB	133	3480		0.892	4370		2.06

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054			0-360-0065		
Sample Location		5-WS-4			6-WS-2		
Percent Solids		20.7			20		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	U		0.892	155		2.06
2,2',3,4',5,5'-HxCB	146	26600		0.892	41100		2.06
2,3,3',4,5',6-HxCB	161	U		0.892	U		2.06
(153/168)	153/168	141000		35.7	209000		82.2
2,2',3,4,5,5'-HxCB	141	16600		0.892	30600		2.06
2,2',3,3',4,5'-HxCB	130	12300		0.892	17800		2.06
2,2',3,4,4',5-HxCB	137	13400		0.892	19100		2.06
2,3,3',4',5',6-HxCB	164	11200		0.892	18000		2.06
(129/138/163)	129/138/163	211000		53.5	301000		123
2,3,3',4,5,6-HxCB	160	U		0.892	U		2.06
2,3,3',4,4',6-HxCB	158	22000		0.892	33700		2.06
(128/166)	128/166	30500		1.78	52500		4.11
2,3,3',4,5,5'-HxCB	159	32.7		0.892	28.5	EMPC	2.06
2,3,3',4',5,5'-HxCB	162	810		0.892	519		2.06
2,3',4,4',5,5'-HxCB	167	5520		0.892	9990		2.06
(156/157)	156/157	19700		1.78	34700		4.11
3,3',4,4',5,5'-HxCB	169	18.9	EMPC	0.892	47	EMPC	2.06
2,2',3,4',5,6,6'-HpCB	188	21.1	J	0.892	28.3	J	2.06
2,2',3,3',5,6,6'-HpCB	179	5010	J	0.892	6230	J	2.06
2,2',3,4,4',6,6'-HpCB	184	18.9	J	0.892	23.5	J	2.06
2,2',3,3',4,6,6'-HpCB	176	2070	J	0.892	2830	J	2.06
2,2',3,4,5,6,6'-HpCB	186	9.19	J	0.892	13.6	J	2.06
2,2',3,3',5,5',6-HpCB	178	3030	J	0.892	3940	J	2.06
2,2',3,3',4,5',6-HpCB	175	656	J	0.892	1030	J	2.06
2,2',3,4',5,5',6-HpCB	187	19300	J	0.892	27600	J	2.06
2,2',3,4,4',5,6'-HpCB	182	U	J	0.892	U	J	2.06
(183/185)	183/185	10200	J	1.78	17900	J	4.11
2,2',3,3',4,5,6'-HpCB	174	8640	J	0.892	12200	J	2.06
2,2',3,3',4,5',6'-HpCB	177	7640	J	0.892	10800	J	2.06
2,2',3,4,4',5,6-HpCB	181	313	J	0.892	586	J	2.06
(171/173)	171/173	4970	J	1.78	8930	J	4.11
2,2',3,3',4,5,5'-HpCB	172	1480	J	0.892	3160	J	2.06
2,3,3',4,5,5',6-HpCB	192	U	J	0.892	U	J	2.06
(180/193)	180/193	12500	J	1.78	30500	J	4.11
2,3,3',4,4',5',6-HpCB	191	432	J	0.892	899	J	2.06
2,2',3,3',4,4',5-HpCB	170	7840	J	0.892	19400	J	2.06
2,3,3',4,4',5,6-HpCB	190	733	J	0.892	1850	J	2.06
2,3,3',4,4',5,5'-HpCB	189	516		0.892	999		2.06
2,2',3,3',5,5',6,6'-OcCB	202	393	J	0.892	590	J	2.06
2,2',3,3',4,5',6,6'-OcCB	201	405	J	0.892	631	J	2.06
2,2',3,4,4',5,6,6'-OcCB	204	2.32	J	0.892	3.82	J	2.06
(197/200)	197/200	389	J	1.78	614	J	4.11
(198/199)	198/199	987	J	1.78	2330	J	4.11
2,2',3,3',4,4',5,6'-OcCB	196	722	J	0.892	1740	J	2.06
2,2',3,4,4',5,5',6-OcCB	203	1250	J	0.892	2570	J	2.06
2,2',3,3',4,4',5,6-OcCB	195	620	J	0.892	1450	J	2.06
2,2',3,3',4,4',5,5'-OcCB	194	810	J	0.892	2480	J	2.06
2,3,3',4,4',5,5',6-OcCB	205	100		0.892	198		2.06
2,2',3,3',4,5,5',6,6'-NoCB	208	107		0.892	190		2.06
2,2',3,3',4,4',5,6,6'-NoCB	207	57.8		0.892	106		2.06
2,2',3,3',4,4',5,5',6-NoCB	206	401		0.892	757		2.06
Decachlorobiphenyl	209	85	J	0.892	173		2.06

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0054		0-360-0065	
Sample Location		5-WS-4		6-WS-2	
Percent Solids		20.7		20	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		281		276	
Total Dichloro Biphenyls		11100		13900	
Total Trichloro Biphenyls		144000		153000	
Total Tetrachloro Biphenyls		821000		710000	
Total Pentachloro Biphenyls		1390000		1640000	
Total Hexachloro Biphenyls		778000		1090000	
Total Heptachloro Biphenyls		85500		149000	
Total Octachloro Biphenyls		5880		12600	
Total Nonachloro Biphenyls		566		1050	
Decachloro Biphenyls		85		173	
Total PCBS		3240000		3770000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081			0-360-0009		
Sample Location		7-WS-2			1-P-2		
Percent Solids		21.7			26.6		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2-MoCB	1	85.9		0.863	5.54		2.28
3-MoCB	2	0.893	EMPC	0.863	U		2.28
4-MoCB	3	1.64		0.863	2.91		2.28
2,2'-DiCB	4	5680		0.863	66.4		2.28
2,6-DiCB	10	641		0.863	5.42		2.28
2,5-DiCB	9	191		0.863	4.6	EMPC	2.28
2,4-DiCB	7	103		0.863	4.37		2.28
2,3'-DiCB	6	808		0.863	15.5		2.28
2,3-DiCB	5	U		0.863	U		2.28
2,4'-DiCB	8	1410		0.863	50.8		2.28
3,5-DiCB	14	U		0.863	U		2.28
3,3'-DiCB	11	442		0.863	U		101
(12/13)	12/13	171		1.73	U		4.55
4,4'-DiCB	15	160		0.863	19.3		2.28
2,2',6-TrCB	19	10300		0.863	44		2.28
(18/30)	18/30	11600		1.73	222		4.55
2,2',4-TrCB	17	20300		0.863	157		2.28
2,3',6-TrCB	27	24600		0.863	32.7		2.28
2,3,6-TrCB	24	U		0.863	8.42		2.28
2,2',3-TrCB	16	2800		0.863	49.5		2.28
2,4',6-TrCB	32	15200		0.863	227		2.28
2,3',5'-TrCB	34	277		0.863	U		2.28
2,3,5-TrCB	23	27.1		0.863	U		2.28
(26/29)	26/29	16400		1.73	349		4.55
2,3',4-TrCB	25	3910		0.863	152		2.28
2,4',5-TrCB	31	7220		0.863	425		2.28
(20/28)	20/28	20200		1.73	782		4.55
(21/33)	21/33	1870		1.73	75.7		4.55
2,3,4'-TrCB	22	2730		0.863	163		2.28
3,3',5-TrCB	36	U		0.863	U		2.28
3,4',5-TrCB	39	40.5		0.863	2.81		2.28
3,4,5-TrCB	38	57.8		0.863	U		2.28
3,3',4-TrCB	35	U		0.863	U		2.28
3,4,4'-TrCB	37	472		0.863	75.3		2.28
2,2',6,6'-TeCB	54	1530		0.863	5.15		2.28
(50/53)	50/53	43100		1.73	191		4.55
(45/51)	45/51	28900		1.73	374		4.55
2,2',3,6'-TeCB	46	8150		0.863	29.6		2.28
2,2',5,5'-TeCB	52	100000		17.3	4190		2.28
2,3',5',6-TeCB	73	U		0.863	U		2.28
2,2',3,5-TeCB	43	U		0.863	42.2		2.28
(49/69)	49/69	138000	J	34.5	1830		4.55
2,2',4,5-TeCB	48	3080		0.863	101		2.28
(44/47/65)	44/47/65	119000	J	51.8	1790		6.83
(59/62/75)	59/62/75	12300		2.59	204		6.83
2,2',3,4'-TeCB	42	19800		0.863	483		2.28
(40/41/71)	40/41/71	37100		2.59	577		6.83
2,3,4',6-TeCB	64	24800		0.863	840		2.28
2,3',5,5'-TeCB	72	5400		0.863	52		2.28
2,3',4,5'-TeCB	68	3790		0.863	30.3		2.28
2,3,3',5-TeCB	57	1080		0.863	17.5		2.28
2,3,3',5'-TeCB	58	732		0.863	11		2.28
2,3',4,5-TeCB	67	710		0.863	49.9		2.28
2,3,4',5-TeCB	63	2100		0.863	64.1		2.28
(61/70/74/76)	61/70/74/76	41700		3.45	2590		9.1

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081			0-360-0009		
Sample Location		7-WS-2			1-P-2		
Percent Solids		21.7			26.6		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	35400		0.863	1640		2.28
2,3,3',4-TeCB	55	U		0.863	14.1		2.28
2,3,3',4'-TeCB	56	4670		0.863	474		2.28
2,3,4,4'-TeCB	60	2620		0.863	282		2.28
3,3',5,5'-TeCB	80	U		0.863	U		2.28
3,3',4,5'-TeCB	79	639		0.863	34.5		2.28
3,3',4,5-TeCB	78	348		0.863	U		2.28
3,4,4',5-TeCB	81	50.8	EMPC	0.863	8.65	EMPC	2.28
3,3',4,4'-TeCB	77	865		0.863	122		2.28
2,2',4,6,6'-PeCB	104	99.6		0.863	U		2.28
2,2',3,6,6'-PeCB	96	2100		0.863	19.2		2.28
2,2',4,5',6-PeCB	103	3030		0.863	65.6		2.28
2,2',3,5,6'-PeCB	94	2130		0.863	12.1		2.28
2,2',3,5',6-PeCB	95	109000		17.3	5210		2.28
(93/98/100/102)	93/98/100/102	8930		3.45	206		9.1
(88/91)	88/91	31000		1.73	1290		4.55
2,2',3,3',6-PeCB	84	34800		0.863	822		2.28
2,2',3,4,6'-PeCB	89	699		0.863	28.4		2.28
2,3',4,5',6-PeCB	121	106		0.863	U		2.28
2,2',3,5,5'-PeCB	92	37100		0.863	1760		2.28
(90/101/113)	90/101/113	140000		51.8	6970		6.83
2,2',3,3',5-PeCB	83	8870		0.863	145		2.28
2,2',4,4',5-PeCB	99	88300		17.3	3560		2.28
2,3,3',5,6-PeCB	112	U		0.863	U		2.28
(86/87/97/108/119/125)	86/87/97/108/119/125	88200		104	3380		13.7
(85/117/116)	85/116/117	17100		2.59	1290		6.83
(110/115)	110/115	176000		86.2	9580		4.55
2,2',3,3',4-PeCB	82	10200		0.863	540		2.28
2,3,3',5,5'-PeCB	111	222		0.863	5.5	EMPC	2.28
2,3',4,5,5'-PeCB	120	897		0.863	23.2		2.28
(107/124)	107/124	2840		1.73	257		4.55
2,3,3',4,6-PeCB	109	6600		0.863	384		2.28
2,3',4,4',5'-PeCB	123	3670		0.863	105		2.28
2,3,3',4,5-PeCB	106	U		0.863	U		2.28
2,3',4,4',5-PeCB	118	112000		17.3	4470		2.28
2,3,3',4',5'-PeCB	122	845		0.863	71.8		2.28
2,3,4,4',5-PeCB	114	1710		0.863	77.5		2.28
2,3,3',4,4'-PeCB	105	29700		0.863	1610		2.28
3,3',4,5,5'-PeCB	127	220		0.863	13.4		2.28
3,3',4,4',5-PeCB	126	387		0.863	23.9		2.28
2,2',4,4',6,6'-HxCB	155	4.78		0.863	U		2.28
2,2',3,5,6,6'-HxCB	152	144		0.863	5.88		2.28
2,2',3,4',6,6'-HxCB	150	173		0.863	8.76		2.28
2,2',3,3',6,6'-HxCB	136	12400		0.863	958		2.28
2,2',3,4,6,6'-HxCB	145	42.2		0.863	2.56		2.28
2,2',3,4',5,6'-HxCB	148	154		0.863	11.4		2.28
(135/151)	135/151	33500		1.73	5840		4.55
2,2',4,4',5,6'-HxCB	154	1360		0.863	109		2.28
2,2',3,4,5',6-HxCB	144	976		0.863	510		2.28
(147/149)	147/149	83900		34.5	14800		4.55
(134/143)	134/143	6160		1.73	535		4.55
(139/140)	139/140	2460		1.73	225		4.55
2,2',3,3',4,6-HxCB	131	1480		0.863	91		2.28
2,2',3,4,5,6-HxCB	142	U		0.863	U		2.28
2,2',3,3',4,6'-HxCB	132	28200		0.863	2890		2.28
2,2',3,3',5,5'-HxCB	133	2130		0.863	215		2.28

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081			0-360-0009		
Sample Location		7-WS-2			1-P-2		
Percent Solids		21.7			26.6		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	120		0.863	6.6		2.28
2,2',3,4',5,5'-HxCB	146	17600		0.863	2950		2.28
2,3,3',4,5',6-HxCB	161	U		0.863	U		2.28
(153/168)	153/168	96400		34.5	12700		4.55
2,2',3,4,5,5'-HxCB	141	11100		0.863	2270		2.28
2,2',3,3',4,5'-HxCB	130	8080		0.863	737		2.28
2,2',3,4,4',5-HxCB	137	7260		0.863	591		2.28
2,3,3',4',5',6-HxCB	164	6820		0.863	1150		2.28
(129/138/163)	129/138/163	134000		51.8	17500		6.83
2,3,3',4,5,6-HxCB	160	U		0.863	U		2.28
2,3,3',4,4',6-HxCB	158	12700		0.863	1240		2.28
(128/166)	128/166	19800		1.73	1890		4.55
2,3,3',4,5,5'-HxCB	159	13.9	EMPC	0.863	3.5	EMPC	2.28
2,3,3',4',5,5'-HxCB	162	542		0.863	44.4		2.28
2,3',4,4',5,5'-HxCB	167	3790		0.863	439		2.28
(156/157)	156/157	11900		1.73	807		4.55
3,3',4,4',5,5'-HxCB	169	22.6	EMPC	0.863	8.96	EMPC	2.28
2,2',3,4',5,6,6'-HpCB	188	14.5	J	0.863	3.43	J	2.28
2,2',3,3',5,6,6'-HpCB	179	3420	J	0.863	987	J	2.28
2,2',3,4,4',6,6'-HpCB	184	12.9	J	0.863	2.81	J	2.28
2,2',3,3',4,6,6'-HpCB	176	1380	J	0.863	237	J	2.28
2,2',3,4,5,6,6'-HpCB	186	6.23	J	0.863	U	J	2.28
2,2',3,3',5,5',6-HpCB	178	2200	J	0.863	752	J	2.28
2,2',3,3',4,5',6-HpCB	175	466	J	0.863	116	J	2.28
2,2',3,4',5,5',6-HpCB	187	15000	J	0.863	13900	J	2.28
2,2',3,4,4',5,6'-HpCB	182	U	J	0.863	18.2	J	2.28
(183/185)	183/185	8090	J	1.73	2130	J	4.55
2,2',3,3',4,5,6'-HpCB	174	6980	J	0.863	2650	J	2.28
2,2',3,3',4,5',6'-HpCB	177	5910	J	0.863	1620	J	2.28
2,2',3,4,4',5,6-HpCB	181	231	J	0.863	24.1	J	2.28
(171/173)	171/173	3930	J	1.73	786	J	4.55
2,2',3,3',4,5,5'-HpCB	172	147	J	0.863	443	J	2.28
2,3,3',4,5,5',6-HpCB	192	11900	J	0.863	U	J	2.28
(180/193)	180/193	403	J	1.73	3540	J	4.55
2,3,3',4,4',5',6-HpCB	191	U	J	0.863	86.3	J	2.28
2,2',3,3',4,4',5-HpCB	170	6650	J	0.863	1400	J	2.28
2,3,3',4,4',5,6-HpCB	190	639	J	0.863	159	J	2.28
2,3,3',4,4',5,5'-HpCB	189	393		0.863	68.6		2.28
2,2',3,3',5,5',6,6'-OcCB	202	370	J	0.863	223	J	2.28
2,2',3,3',4,5',6,6'-OcCB	201	348	J	0.863	168	J	2.28
2,2',3,4,4',5,6,6'-OcCB	204	2.06	J	0.863	U	J	2.28
(197/200)	197/200	322	J	1.73	115	J	4.55
(198/199)	198/199	971	J	1.73	727	J	4.55
2,2',3,3',4,4',5,6'-OcCB	196	619	J	0.863	279	J	2.28
2,2',3,4,4',5,5',6-OcCB	203	1050	J	0.863	514	J	2.28
2,2',3,3',4,4',5,6-OcCB	195	539	J	0.863	223	J	2.28
2,2',3,3',4,4',5,5'-OcCB	194	894	J	0.863	390	J	2.28
2,3,3',4,4',5,5',6-OcCB	205	97.2		0.863	39.1		2.28
2,2',3,3',4,5,5',6,6'-NoCB	208	252		0.863	107	J	2.28
2,2',3,3',4,4',5,6,6'-NoCB	207	86.3		0.863	37		2.28
2,2',3,3',4,4',5,5',6-NoCB	206	718		0.863	315		2.28
Decachlorobiphenyl	209	385	J	0.863	219	J	2.28

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0081		0-360-0009	
Sample Location		7-WS-2		1-P-2	
Percent Solids		21.7		26.6	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		87.6		8.45	
Total Dichloro Biphenyls		9610		263	
Total Trichloro Biphenyls		13800		2770	
Total Tetrachloro Biphenyls		636000		16000	
Total Pentachloro Biphenyls		916000		41900	
Total Hexachloro Biphenyls		503000		68500	
Total Heptachloro Biphenyls		67800		28900	
Total Octachloro Biphenyls		5210		2680	
Total Nonachloro Biphenyls		1060		459	
Decachloro Biphenyls		305		219	
Total PCBS		2280000		162000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023		0-360-0036	
Sample Location		2-P-3		3-P-3	
Percent Solids		24.6		23.9	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	366	1.92	455	2.21
3-MoCB	2	3.79	1.92	4.07	2.21
4-MoCB	3	37.9	1.92	53.5	2.21
2,2'-DiCB	4	3840	1.92	6000	2.21
2,6-DiCB	10	416	1.92	652	2.21
2,5-DiCB	9	112	1.92	212	2.21
2,4-DiCB	7	82.6	1.92	155	2.21
2,3'-DiCB	6	372	1.92	640	2.21
2,3-DiCB	5	9.78	1.92	27.1	2.21
2,4'-DiCB	8	1380	1.92	3130	2.21
3,5-DiCB	14	U	1.92	U	2.21
3,3'-DiCB	11	U	61.6	U	85.7
(12/13)	12/13	94.6	3.83	191	4.42
4,4'-DiCB	15	346	1.92	763	2.21
2,2',6-TrCB	19	1960	1.92	3090	2.21
(18/30)	18/30	3550	3.83	5430	4.42
2,2',4-TrCB	17	5360	1.92	9310	2.21
2,3',6-TrCB	27	3020	1.92	3740	2.21
2,3,6-TrCB	24	U	1.92	U	2.21
2,2',3-TrCB	16	406	1.92	670	2.21
2,4',6-TrCB	32	4600	1.92	8020	2.21
2,3',5'-TrCB	34	64.2	1.92	98.9	2.21
2,3,5-TrCB	23	5.45	1.92	11.3	2.21
(26/29)	26/29	8380	3.83	9030	4.42
2,3',4-TrCB	25	3450	1.92	5290	2.21
2,4',5-TrCB	31	4940	1.92	9870	2.21
(20/28)	20/28	8080	3.83	17800	4.42
(21/33)	21/33	568	3.83	1220	4.42
2,3,4'-TrCB	22	1460	1.92	3190	2.21
3,3',5-TrCB	36	U	1.92	U	2.21
3,4',5-TrCB	39	30.7	1.92	67.8	2.21
3,4,5-TrCB	38	29.3 EMPC	1.92	40.2	2.21
3,3',4-TrCB	35	U	1.92	U	2.21
3,4,4'-TrCB	37	675	1.92	1640	2.21
2,2',6,6'-TeCB	54	351	1.92	554	2.21
(50/53)	50/53	4840	3.83	6630	4.42
(45/51)	45/51	6210	3.83	12800	4.42
2,2',3,6'-TeCB	46	294	1.92	409	2.21
2,2',5,5'-TeCB	52	78300	1.92	151000	2.21
2,3',5',6-TeCB	73	U	1.92	U	2.21
2,2',3,5-TeCB	43	U	1.92	U	2.21
(49/69)	49/69	48600	3.83	91900	4.42
2,2',4,5-TeCB	48	758	1.92	1770	2.21
(44/47/65)	44/47/65	33800	5.75	83100	6.64
(59/62/75)	59/62/75	3460	5.75	4300	6.64
2,2',3,4'-TeCB	42	6030	1.92	13600	2.21
(40/41/71)	40/41/71	7420	5.75	16400	6.64
2,3,4',6-TeCB	64	8350	1.92	19400	2.21
2,3',5,5'-TeCB	72	2340	1.92	3500	2.21
2,3',4,5'-TeCB	68	1550	1.92	3250	2.21
2,3,3',5-TeCB	57	987	1.92	1160	2.21
2,3,3',5'-TeCB	58	410	1.92	463	2.21
2,3',4,5-TeCB	67	1200	1.92	1790	2.21
2,3,4',5-TeCB	63	903	1.92	2480	2.21
(61/70/74/76)	61/70/74/76	27400	7.66	91100	8.85

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023			0-360-0036		
Sample Location		2-P-3			3-P-3		
Percent Solids		24.6			23.9		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	18500		1.92	61200		2.21
2,3,3',4-TeCB	55	U		1.92	U		2.21
2,3,3',4'-TeCB	56	3280		1.92	9760		2.21
2,3,4,4'-TeCB	60	1240		1.92	4480		2.21
3,3',5,5'-TeCB	80	U		1.92	U		2.21
3,3',4,5'-TeCB	79	654		1.92	2270		2.21
3,3',4,5-TeCB	78	40.3		1.92	39.9		2.21
3,4,4',5-TeCB	81	46.7	EMPC	1.92	192	EMPC	2.21
3,3',4,4'-TeCB	77	564		1.92	1450		2.21
2,2',4,6,6'-PeCB	104	37.2		1.92	104		2.21
2,2',3,6,6'-PeCB	96	226		1.92	398		2.21
2,2',4,5',6-PeCB	103	1260		1.92	3310		2.21
2,2',3,5,6'-PeCB	94	190		1.92	490		2.21
2,2',3,5',6-PeCB	95	46300		1.92	134000		2.21
(93/98/100/102)	93/98/100/102	2700		7.66	8980		8.85
(88/91)	88/91	12000		3.83	38900		4.42
2,2',3,3',6-PeCB	84	7520		1.92	17100		2.21
2,2',3,4,6'-PeCB	89	139		1.92	346		2.21
2,3',4,5',6-PeCB	121	41		1.92	89.4		2.21
2,2',3,5,5'-PeCB	92	21300		1.92	71100		2.21
(90/101/113)	90/101/113	81900		5.75	342000		133
2,2',3,3',5-PeCB	83	1470		1.92	5650		2.21
2,2',4,4',5-PeCB	99	43000		1.92	187000		2.21
2,3,3',5,6-PeCB	112	U		1.92	U		2.21
(86/87/97/108/119/125)	6/87/97/108/119/12	42900		11.5	177000		13.3
(85/117/116)	85/116/117	11000		5.75	56400		6.64
(110/115)	110/115	91600		3.83	315000		88.5
2,2',3,3',4-PeCB	82	4530		1.92	16800		2.21
2,3,3',5,5'-PeCB	111	79		1.92	201	EMPC	2.21
2,3',4,5,5'-PeCB	120	495		1.92	917		2.21
(107/124)	107/124	2470		3.83	13000		4.42
2,3,3',4,6-PeCB	109	5140		1.92	23200		2.21
2,3',4,4',5'-PeCB	123	1140		1.92	5780		2.21
2,3,3',4,5-PeCB	106	U		1.92	U		2.21
2,3',4,4',5-PeCB	118	57600		1.92	296000		2.21
2,3,3',4',5'-PeCB	122	606		1.92	2860		2.21
2,3,4,4',5-PeCB	114	908		1.92	6110		2.21
2,3,3',4,4'-PeCB	105	15800		1.92	97500		2.21
3,3',4,5,5'-PeCB	127	105		1.92	674		2.21
3,3',4,4',5-PeCB	126	183		1.92	1180		2.21
2,2',4,4',6,6'-HxCB	155	2.99		1.92	8.56		2.21
2,2',3,5,6,6'-HxCB	152	45		1.92	168		2.21
2,2',3,4',6,6'-HxCB	150	70.5		1.92	258		2.21
2,2',3,3',6,6'-HxCB	136	4650		1.92	19200		2.21
2,2',3,4,6,6'-HxCB	145	17.2		1.92	60.9		2.21
2,2',3,4',5,6'-HxCB	148	86.6		1.92	345		2.21
(135/151)	135/151	18600		3.83	94700		4.42
2,2',4,4',5,6'-HxCB	154	851		1.92	3790		2.21
2,2',3,4,5',6-HxCB	144	1960		1.92	11600		2.21
(147/149)	147/149	56800		3.83	265000		4.42
(134/143)	134/143	3080		3.83	13400		4.42
(139/140)	139/140	1820		3.83	9850		4.42
2,2',3,3',4,6-HxCB	131	575		1.92	2510		2.21
2,2',3,4,5,6-HxCB	142	U		1.92	U		2.21
2,2',3,3',4,6'-HxCB	132	15700		1.92	65300		2.21
2,2',3,3',5,5'-HxCB	133	1370		1.92	5440		2.21

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023			0-360-0036		
Sample Location		2-P-3			3-P-3		
Percent Solids		24.6			23.9		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	78.4		1.92	143		2.21
2,2',3,4',5,5'-HxCB	146	13900		1.92	64100		2.21
2,3,3',4,5',6-HxCB	161	U		1.92	U		2.21
(153/168)	153/168	60400		3.83	U		88.5
2,2',3,4,5,5'-HxCB	141	9710		1.92	45100		2.21
2,2',3,3',4,5'-HxCB	130	4190		1.92	20000		2.21
2,2',3,4,4',5-HxCB	137	6230		1.92	29100		2.21
2,3,3',4',5',6-HxCB	164	3880		1.92	23000		2.21
(129/138/163)	129/138/163	91500		5.75	448000		133
2,3,3',4,5,6-HxCB	160	U		1.92	U		2.21
2,3,3',4,4',6-HxCB	158	7540		1.92	42000		2.21
(128/166)	128/166	12100		3.83	71100		4.42
2,3,3',4,5,5'-HxCB	159	37.5		1.92	122	J	2.21
2,3,3',4',5,5'-HxCB	162	155		1.92	1270	J	2.21
2,3',4,4',5,5'-HxCB	167	2480		1.92	13900	J	2.21
(156/157)	156/157	6660	J	3.83	43800	J	4.42
3,3',4,4',5,5'-HxCB	169	12.1	EMPC	1.92	45.9	EMPC	2.21
2,2',3,4',5,6,6'-HpCB	188	7.86	J	1.92	33.1	J	2.21
2,2',3,3',5,6,6'-HpCB	179	1250	J	1.92	7470	J	2.21
2,2',3,4,4',6,6'-HpCB	184	6.9	J	1.92	34.4	J	2.21
2,2',3,3',4,6,6'-HpCB	176	395	J	1.92	2390	J	2.21
2,2',3,4,5,6,6'-HpCB	186	2.53	J	1.92	12	J	2.21
2,2',3,3',5,5',6-HpCB	178	1090	J	1.92	5670	J	2.21
2,2',3,3',4,5',6-HpCB	175	188	J	1.92	1030	J	2.21
2,2',3,4',5,5',6-HpCB	187	13000	J	1.92	73900	J	2.21
2,2',3,4,4',5,6'-HpCB	182	U	J	1.92	U	J	2.21
(183/185)	183/185	3690	J	3.83	21000	J	4.42
2,2',3,3',4,5,6'-HpCB	174	3350	J	1.92	19900	J	2.21
2,2',3,3',4,5',6'-HpCB	177	2390	J	1.92	13800	J	2.21
2,2',3,4,4',5,6-HpCB	181	142	J	1.92	819	J	2.21
(171/173)	171/173	1900	J	3.83	11300	J	4.42
2,2',3,3',4,5,5'-HpCB	172	685	J	1.92	3820	J	2.21
2,3,3',4,5,5',6-HpCB	192	U	J	1.92	U	J	2.21
(180/193)	180/193	6120	J	3.83	37000	J	4.42
2,3,3',4,4',5',6-HpCB	191	176	J	1.92	1040	J	2.21
2,2',3,3',4,4',5-HpCB	170	3850	J	1.92	23600	J	2.21
2,3,3',4,4',5,6-HpCB	190	346	J	1.92	1810	J	2.21
2,3,3',4,4',5,5'-HpCB	189	209		1.92	1280		2.21
2,2',3,3',5,5',6,6'-OcCB	202	170	J	1.92	729	J	2.21
2,2',3,3',4,5',6,6'-OcCB	201	126	J	1.92	573	J	2.21
2,2',3,4,4',5,6,6'-OcCB	204	U	J	1.92	2.92	J	2.21
(197/200)	197/200	100	J	3.83	581	J	4.42
(198/199)	198/199	746	J	3.83	3980	J	4.42
2,2',3,3',4,4',5,6'-OcCB	196	319	J	1.92	1570	J	2.21
2,2',3,4,4',5,5',6-OcCB	203	575	J	1.92	2630	J	2.21
2,2',3,3',4,4',5,6-OcCB	195	310	J	1.92	1600	J	2.21
2,2',3,3',4,4',5,5'-OcCB	194	536	J	1.92	2840	J	2.21
2,3,3',4,4',5,5',6-OcCB	205	46.2		1.92	232		2.21
2,2',3,3',4,5,5',6,6'-NoCB	208	61		1.92	201		2.21
2,2',3,3',4,4',5,6,6'-NoCB	207	30.2		1.92	119		2.21
2,2',3,3',4,4',5,5',6-NoCB	206	235		1.92	912		2.21
Decachlorobiphenyl	209	103	J	1.92	193	J	2.21

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0023		0-360-0036	
Sample Location		2-P-3		3-P-3	
Percent Solids		24.6		23.9	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		408		512	
Total Dichloro Biphenyls		6710		11900	
Total Trichloro Biphenyls		46600		78500	
Total Tetrachloro Biphenyls		257000		585000	
Total Pentachloro Biphenyls		453000		1820000	
Total Hexachloro Biphenyls		324000		1290000	
Total Heptachloro Biphenyls		38800		226000	
Total Octachloro Biphenyls		2930		14700	
Total Nonachloro Biphenyls		326		1230	
Decachloro Biphenyls		103		193	
Total PCBS		1130000		4030000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049		0-360-0060	
Sample Location		4-P-3		5-P-2	
Percent Solids		22.5		22.5	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	160	1.65	266	17.5
3-MoCB	2	U	1.65	3.22	17.5
4-MoCB	3	15.4	1.65	23.4	17.5
2,2'-DiCB	4	3050	1.65	5360	17.5
2,6-DiCB	10	314	1.65	419	17.5
2,5-DiCB	9	112	1.65	144	17.5
2,4-DiCB	7	80.4	1.65	106	17.5
2,3'-DiCB	6	406	1.65	551	17.5
2,3-DiCB	5	12.2	1.65	19.1	17.5
2,4'-DiCB	8	1450	1.65	1630	17.5
3,5-DiCB	14	U	1.65	U	17.5
3,3'-DiCB	11	U	50.0	U	59.9
(12/13)	12/13	84	3.3	122	35.0
4,4'-DiCB	15	242	1.65	399	17.5
2,2',6-TrCB	19	1670	1.65	3180	17.5
(18/30)	18/30	3280	3.3	4910	35.0
2,2',4-TrCB	17	4840	1.65	6970	17.5
2,3',6-TrCB	27	3720	1.65	4420	17.5
2,3,6-TrCB	24	U	1.65	151	17.5
2,2',3-TrCB	16	369	1.65	681	17.5
2,4',6-TrCB	32	4990	1.65	6780	17.5
2,3',5'-TrCB	34	63.2	1.65	82	17.5
2,3,5-TrCB	23	8.59	1.65	9.53	17.5
(26/29)	26/29	8810	3.3	12700	35.0
2,3',4-TrCB	25	3910	1.65	5240	17.5
2,4',5-TrCB	31	5820	1.65	7340	17.5
(20/28)	20/28	10300	3.3	11900	35.0
(21/33)	21/33	604	3.3	952	35.0
2,3,4'-TrCB	22	1800	1.65	2100	17.5
3,3',5-TrCB	36	U	1.65	U	17.5
3,4',5-TrCB	39	29.1	1.65	31.3	17.5
3,4,5-TrCB	38	37.9	1.65	30.8	17.5
3,3',4-TrCB	35	U	1.65	U	17.5
3,4,4'-TrCB	37	570	1.65	697	17.5
2,2',6,6'-TeCB	54	300	1.65	600	17.5
(50/53)	50/53	5120	3.3	7310	35.0
(45/51)	45/51	5830	3.3	8740	35.0
2,2',3,6'-TeCB	46	347	1.65	642	17.5
2,2',5,5'-TeCB	52	80800	1.65	112000	17.5
2,3',5',6-TeCB	73	U	1.65	U	17.5
2,2',3,5-TeCB	43	U	1.65	U	17.5
(49/69)	49/69	52400	3.3	73300	35.0
2,2',4,5-TeCB	48	459	1.65	915	17.5
(44/47/65)	44/47/65	40500	4.95	51900	52.6
(59/62/75)	59/62/75	4160	4.95	5010	52.6
2,2',3,4'-TeCB	42	6720	1.65	8640	17.5
(40/41/71)	40/41/71	8480	4.95	10800	52.6
2,3,4',6-TeCB	64	8980	1.65	11300	17.5
2,3',5,5'-TeCB	72	2690	1.65	3700	17.5
2,3',4,5'-TeCB	68	1940	1.65	2470	17.5
2,3,3',5-TeCB	57	914	1.65	1150	17.5
2,3,3',5'-TeCB	58	409	1.65	431	17.5
2,3',4,5-TeCB	67	1070	1.65	1460	17.5
2,3,4',5-TeCB	63	1100	1.65	1270	17.5
(61/70/74/76)	61/70/74/76	28500	6.6	39700	70.0

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049			0-360-0060		
Sample Location		4-P-3			5-P-2		
Percent Solids		22.5			22.5		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	22300		1.65	26700		17.5
2,3,3',4-TeCB	55	U		1.65	181		17.5
2,3,3',4'-TeCB	56	3510		1.65	4200		17.5
2,3,4,4'-TeCB	60	1490		1.65	1660		17.5
3,3',5,5'-TeCB	80	U		1.65	U		17.5
3,3',4,5'-TeCB	79	437		1.65	575		17.5
3,3',4,5-TeCB	78	34.4		1.65	U		17.5
3,4,4',5-TeCB	81	46.8	EMPC	1.65	47.4	EMPC	17.5
3,3',4,4'-TeCB	77	568		1.65	703		17.5
2,2',4,6,6'-PeCB	104	47.8		1.65	51.7		17.5
2,2',3,6,6'-PeCB	96	198		1.65	291		17.5
2,2',4,5',6-PeCB	103	1450		1.65	1840		17.5
2,2',3,5,6'-PeCB	94	297		1.65	270		17.5
2,2',3,5',6-PeCB	95	49100		1.65	63600		17.5
(93/98/100/102)	93/98/100/102	3440		6.6	3670		70.0
(88/91)	88/91	13100		3.3	16600		35.0
2,2',3,3',6-PeCB	84	7190		1.65	9160		17.5
2,2',3,4,6'-PeCB	89	133		1.65	162		17.5
2,3',4,5',6-PeCB	121	53.6		1.65	69.2		17.5
2,2',3,5,5'-PeCB	92	24400		1.65	32200		17.5
(90/101/113)	90/101/113	84700		4.95	128000		52.6
2,2',3,3',5-PeCB	83	2380		1.65	1740		17.5
2,2',4,4',5-PeCB	99	47000		1.65	74600		17.5
2,3,3',5,6-PeCB	112	U		1.65	U		17.5
(86/87/97/108/119/125)	86/87/97/108/119/125	44500		9.9	58700		105
(85/117/116)	85/116/117	12400		4.95	19300		52.6
(110/115)	110/115	90800		3.3	132000		35.0
2,2',3,3',4-PeCB	82	4050		1.65	5260		17.5
2,3,3',5,5'-PeCB	111	129		1.65	211		17.5
2,3',4,5,5'-PeCB	120	528		1.65	755		17.5
(107/124)	107/124	2590		3.3	3900		35.0
2,3,3',4,6-PeCB	109	5310		1.65	9170		17.5
2,3',4,4',5'-PeCB	123	1570		1.65	1400		17.5
2,3,3',4,5-PeCB	106	U		1.65	U		17.5
2,3',4,4',5-PeCB	118	61100		1.65	105000		17.5
2,3,3',4',5'-PeCB	122	606		1.65	850		17.5
2,3,4,4',5-PeCB	114	972		1.65	1600		17.5
2,3,3',4,4'-PeCB	105	16900		1.65	28800		17.5
3,3',4,5,5'-PeCB	127	106		1.65	188		17.5
3,3',4,4',5-PeCB	126	238	J	1.65	194	EMPC	17.5
2,2',4,4',6,6'-HxCB	155	5.41		1.65	5.8		17.5
2,2',3,5,6,6'-HxCB	152	57.5		1.65	58.2		17.5
2,2',3,4',6,6'-HxCB	150	88.2		1.65	82.1		17.5
2,2',3,3',6,6'-HxCB	136	5750		1.65	5250		17.5
2,2',3,4,6,6'-HxCB	145	21.3		1.65	14.5		17.5
2,2',3,4',5,6'-HxCB	148	110		1.65	122		17.5
(135/151)	135/151	25800		3.3	26300		35.0
2,2',4,4',5,6'-HxCB	154	1040		1.65	1210		17.5
2,2',3,4,5',6-HxCB	144	2540		1.65	2790		17.5
(147/149)	147/149	65200		3.3	76100		35.0
(134/143)	134/143	4440		3.3	3890		35.0
(139/140)	139/140	2040		3.3	2720		35.0
2,2',3,3',4,6-HxCB	131	663		1.65	613		17.5
2,2',3,4,5,6-HxCB	142	U		1.65	U		17.5
2,2',3,3',4,6'-HxCB	132	17500		1.65	20000		17.5
2,2',3,3',5,5'-HxCB	133	1620		1.65	1940		17.5

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049			0-360-0060		
Sample Location		4-P-3			5-P-2		
Percent Solids		22.5			22.5		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	94.7		1.65	U		17.5
2,2',3,4',5,5'-HxCB	146	15700		1.65	U		17.5
2,3,3',4,5',6-HxCB	161	U		1.65	15000		17.5
(153/168)	153/168	69000		3.3	101000		35.0
2,2',3,4,5,5'-HxCB	141	9190		1.65	13600		17.5
2,2',3,3',4,5'-HxCB	130	4800		1.65	5560		17.5
2,2',3,4,4',5-HxCB	137	6000		1.65	8430		17.5
2,3,3',4',5',6-HxCB	164	5100		1.65	6630		17.5
(129/138/163)	129/138/163	102000		4.95	152000		52.6
2,3,3',4,5,6-HxCB	160	U		1.65	U		17.5
2,3,3',4,4',6-HxCB	158	8620		1.65	12300		17.5
(128/166)	128/166	13100	J	3.3	20300		35.0
2,3,3',4,5,5'-HxCB	159	14.9	EMPC	1.65	7.87	EMPC	17.5
2,3,3',4',5,5'-HxCB	162	199		1.65	293		17.5
2,3',4,4',5,5'-HxCB	167	2490		1.65	4880		17.5
(156/157)	156/157	7330	J	3.3	13000		35.0
3,3',4,4',5,5'-HxCB	169	13.9	EMPC	1.65	15.6	EMPC	17.5
2,2',3,4',5,6,6'-HpCB	188	9.89	J	1.65	14.5		17.5
2,2',3,3',5,6,6'-HpCB	179	2080	J	1.65	1740		17.5
2,2',3,4,4',6,6'-HpCB	184	9.52	J	1.65	12.4		17.5
2,2',3,3',4,6,6'-HpCB	176	636	J	1.65	514		17.5
2,2',3,4,5,6,6'-HpCB	186	3.05	J	1.65	2.99		17.5
2,2',3,3',5,5',6-HpCB	178	1590	J	1.65	1650		17.5
2,2',3,3',4,5',6-HpCB	175	241	J	1.65	310		17.5
2,2',3,4',5,5',6-HpCB	187	18900	J	1.65	20700		17.5
2,2',3,4,4',5,6'-HpCB	182	U	J	1.65	86		17.5
(183/185)	183/185	5100	J	3.3	6970		35.0
2,2',3,3',4,5,6'-HpCB	174	4860	J	1.65	5970		17.5
2,2',3,3',4,5',6'-HpCB	177	3590	J	1.65	4210		17.5
2,2',3,4,4',5,6-HpCB	181	146	J	1.65	315		17.5
(171/173)	171/173	2350	J	3.3	3890		35.0
2,2',3,3',4,5,5'-HpCB	172	764	J	1.65	1590		17.5
2,3,3',4,5,5',6-HpCB	192	U	J	1.65	U		17.5
(180/193)	180/193	8390	J	3.3	18000		35.0
2,3,3',4,4',5',6-HpCB	191	187	J	1.65	391		17.5
2,2',3,3',4,4',5-HpCB	170	4010	J	1.65	10500		17.5
2,3,3',4,4',5,6-HpCB	190	291	J	1.65	859	J	17.5
2,3,3',4,4',5,5'-HpCB	189	259		1.65	400		17.5
2,2',3,3',5,5',6,6'-OcCB	202	235	J	1.65	294		17.5
2,2',3,3',4,5',6,6'-OcCB	201	185	J	1.65	189		17.5
2,2',3,4,4',5,6,6'-OcCB	204	U	J	1.65	U		17.5
(197/200)	197/200	170	J	3.3	181		35.0
(198/199)	198/199	940	J	3.3	1710	J	35.0
2,2',3,3',4,4',5,6'-OcCB	196	348	J	1.65	623	J	17.5
2,2',3,4,4',5,5',6-OcCB	203	658	J	1.65	1150		17.5
2,2',3,3',4,4',5,6-OcCB	195	342	J	1.65	660		17.5
2,2',3,3',4,4',5,5'-OcCB	194	608	J	1.65	1110		17.5
2,3,3',4,4',5,5',6-OcCB	205	58.4		1.65	76.8		17.5
2,2',3,3',4,5,5',6,6'-NoCB	208	85.4	J	1.65	119	J	17.5
2,2',3,3',4,4',5,6,6'-NoCB	207	47.2		1.65	62.9		17.5
2,2',3,3',4,4',5,5',6-NoCB	206	281		1.65	416		17.5
Decachlorobiphenyl	209	109	J	1.65	183		17.5

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0049		0-360-0060	
Sample Location		4-P-3		5-P-2	
Percent Solids		22.5		22.5	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		175		293	
Total Dichloro Biphenyls		5800		6810	
Total Trichloro Biphenyls		50800		68100	
Total Tetrachloro Biphenyls		279000		375000	
Total Pentachloro Biphenyls		475000		699000	
Total Hexachloro Biphenyls		371000		494000	
Total Heptachloro Biphenyls		53400		78100	
Total Octachloro Biphenyls		3550		5990	
Total Nonachloro Biphenyls		414		598	
Decachloro Biphenyls		109		183	
Total PCBS		1240000		1730000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063		0-360-0088	
Sample Location		5-BG-3		7-C-6	
Percent Solids		22.3		23.2	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	194	4.30	5.42 EMPC	6.27
3-MoCB	2	U	4.30	U	6.27
4-MoCB	3	19.6	4.30	U	6.27
2,2'-DiCB	4	2860	4.30	107	6.27
2,6-DiCB	10	203	4.30	11.4	6.27
2,5-DiCB	9	90.3	4.30	10.7	6.27
2,4-DiCB	7	59.2	4.30	U	6.27
2,3'-DiCB	6	429	4.30	24.9	6.27
2,3-DiCB	5	7.68	4.30	U	6.27
2,4'-DiCB	8	1110	4.30	80.1	6.27
3,5-DiCB	14	U	4.30	U	6.27
3,3'-DiCB	11	U	49.6	U	145
(12/13)	12/13	153	8.60	U	12.5
4,4'-DiCB	15	386	4.30	21.1	6.27
2,2',6-TrCB	19	1790	4.30	120	6.27
(18/30)	18/30	3130	8.60	641	12.5
2,2',4-TrCB	17	4120	4.30	264	6.27
2,3',6-TrCB	27	6640	4.30	297	6.27
2,3,6-TrCB	24	U	4.30	15.3	6.27
2,2',3-TrCB	16	687	4.30	128	6.27
2,4',6-TrCB	32	6210	4.30	490	6.27
2,3',5'-TrCB	34	94	4.30	10.9	6.27
2,3,5-TrCB	23	9.19	4.30	U	6.27
(26/29)	26/29	12200	8.60	908	12.5
2,3',4-TrCB	25	5130	4.30	263	6.27
2,4',5-TrCB	31	7260	4.30	1350	6.27
(20/28)	20/28	12100	8.60	2420	12.5
(21/33)	21/33	884	8.60	204	12.5
2,3,4'-TrCB	22	2180	4.30	484	6.27
3,3',5-TrCB	36	U	4.30	U	6.27
3,4',5-TrCB	39	25.3	4.30	U	6.27
3,4,5-TrCB	38	42.2	4.30	U	6.27
3,3',4-TrCB	35	U	4.30	U	6.27
3,4,4'-TrCB	37	821	4.30	64.8	6.27
2,2',6,6'-TeCB	54	304	4.30	20.9	6.27
(50/53)	50/53	7170	8.60	638	12.5
(45/51)	45/51	4260	8.60	575	12.5
2,2',3,6'-TeCB	46	477	4.30	69.5	6.27
2,2',5,5'-TeCB	52	66800	4.30	16600	6.27
2,3',5',6-TeCB	73	U	4.30	U	6.27
2,2',3,5-TeCB	43	473	4.30	131	6.27
(49/69)	49/69	46900	8.60	12000	12.5
2,2',4,5-TeCB	48	758	4.30	261	6.27
(44/47/65)	44/47/65	42500	12.90	11200	18.8
(59/62/75)	59/62/75	4410	12.90	909	18.8
2,2',3,4'-TeCB	42	5760	4.30	1290	6.27
(40/41/71)	40/41/71	8900	12.90	1490	18.8
2,3,4',6-TeCB	64	7500	4.30	2450	6.27
2,3',5,5'-TeCB	72	3000	4.30	886	6.27
2,3',4,5'-TeCB	68	2060	4.30	611	6.27
2,3,3',5-TeCB	57	1040	4.30	156	6.27
2,3,3',5'-TeCB	58	361	4.30	79.4	6.27
2,3',4,5-TeCB	67	1140	4.30	133	6.27
2,3,4',5-TeCB	63	1110	4.30	465	6.27
(61/70/74/76)	61/70/74/76	29000	17.20	9590	25.1

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063			0-360-0088		
Sample Location		5-BG-3			7-C-6		
Percent Solids		22.3			23.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	22500		4.30	9090		6.27
2,3,3',4-TeCB	55	U		4.30	U		6.27
2,3,3',4'-TeCB	56	3030		4.30	918		6.27
2,3,4,4'-TeCB	60	1250		4.30	860		6.27
3,3',5,5'-TeCB	80	U		4.30	U		6.27
3,3',4,5'-TeCB	79	414		4.30	678		6.27
3,3',4,5-TeCB	78	U		4.30	12	EMPC	6.27
3,4,4',5-TeCB	81	29.1	EMPC	4.30	37.7	EMPC	6.27
3,3',4,4'-TeCB	77	674		4.30	167		6.27
2,2',4,6,6'-PeCB	104	45		4.30	6.71		6.27
2,2',3,6,6'-PeCB	96	231		4.30	53.2		6.27
2,2',4,5',6-PeCB	103	1410		4.30	470		6.27
2,2',3,5,6'-PeCB	94	381		4.30	66.9		6.27
2,2',3,5',6-PeCB	95	45300		4.30	17900		6.27
(93/98/100/102)	93/98/100/102	3470		17.20	1130		25.1
(88/91)	88/91	11700		8.60	6000		12.5
2,2',3,3',6-PeCB	84	7040		4.30	3240		6.27
2,2',3,4,6'-PeCB	89	125		4.30	67.9		6.27
2,3',4,5',6-PeCB	121	55.5		4.30	36.2		6.27
2,2',3,5,5'-PeCB	92	25000		4.30	11600		6.27
(90/101/113)	90/101/113	84900		12.90	58400		18.8
2,2',3,3',5-PeCB	83	1850		4.30	1560		6.27
2,2',4,4',5-PeCB	99	56200		4.30	41500		6.27
2,3,3',5,6-PeCB	112	U		4.30	U		6.27
(86/87/97/108/119/125)	86/87/97/108/119/125	48700		25.80	28600		37.6
(85/117/116)	85/116/117	16800		12.90	10800		18.8
(110/115)	110/115	103000		8.60	51200		12.5
2,2',3,3',4-PeCB	82	3430		4.30	1690		6.27
2,3,3',5,5'-PeCB	111	183		4.30	113		6.27
2,3',4,5,5'-PeCB	120	608		4.30	479		6.27
(107/124)	107/124	2720		8.60	1250		12.5
2,3,3',4,6-PeCB	109	5860		4.30	4160		6.27
2,3',4,4',5'-PeCB	123	1140		4.30	855		6.27
2,3,3',4,5-PeCB	106	U		4.30	U		6.27
2,3',4,4',5-PeCB	118	66600		4.30	55100		6.27
2,3,3',4',5'-PeCB	122	618		4.30	214		6.27
2,3,4,4',5-PeCB	114	937		4.30	887		6.27
2,3,3',4,4'-PeCB	105	17000		4.30	13100		6.27
3,3',4,5,5'-PeCB	127	107		4.30	156		6.27
3,3',4,4',5-PeCB	126	115	EMPC	4.30	132	EMPC	6.27
2,2',4,4',6,6'-HxCB	155	U		4.30	U		6.27
2,2',3,5,6,6'-HxCB	152	56.5		4.30	25.3		6.27
2,2',3,4',6,6'-HxCB	150	70.2		4.30	43.9		6.27
2,2',3,3',6,6'-HxCB	136	4750		4.30	2380		6.27
2,2',3,4,6,6'-HxCB	145	20.8		4.30	11.4		6.27
2,2',3,4',5,6'-HxCB	148	102		4.30	57		6.27
(135/151)	135/151	23800		8.60	11100		12.5
2,2',4,4',5,6'-HxCB	154	1030		4.30	629		6.27
2,2',3,4,5',6-HxCB	144	2190		4.30	1910		6.27
(147/149)	147/149	55200		8.60	36200		12.5
(134/143)	134/143	3830		8.60	1950		12.5
(139/140)	139/140	1900		8.60	1640		12.5
2,2',3,3',4,6-HxCB	131	563		4.30	583		6.27
2,2',3,4,5,6-HxCB	142	6.31	EMPC	4.30	U		6.27
2,2',3,3',4,6'-HxCB	132	15200		4.30	10800		6.27
2,2',3,3',5,5'-HxCB	133	1560		4.30	1230		6.27

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063			0-360-0088		
Sample Location		5-BG-3			7-C-6		
Percent Solids		22.3			23.2		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	108		4.30	58.2		6.27
2,2',3,4',5,5'-HxCB	146	12600		4.30	12400		6.27
2,3,3',4,5',6-HxCB	161	U		4.30	U		6.27
(153/168)	153/168	64300		8.60	72300		12.5
2,2',3,4,5,5'-HxCB	141	8390		4.30	9150		6.27
2,2',3,3',4,5'-HxCB	130	4540		4.30	4400		6.27
2,2',3,4,4',5-HxCB	137	4360		4.30	5560		6.27
2,3,3',4',5',6-HxCB	164	4570		4.30	2930		6.27
(129/138/163)	129/138/163	98200		12.90	90400		18.8
2,3,3',4,5,6-HxCB	160	U		4.30	U		6.27
2,3,3',4,4',6-HxCB	158	7810		4.30	8140		6.27
(128/166)	128/166	11700		8.60	11700		12.5
2,3,3',4,5,5'-HxCB	159	126		4.30	169		6.27
2,3,3',4',5,5'-HxCB	162	368		4.30	487		6.27
2,3',4,4',5,5'-HxCB	167	2630		4.30	3900		6.27
(156/157)	156/157	7720		8.60	8820		12.5
3,3',4,4',5,5'-HxCB	169	17.7	EMPC	4.30	38.5	EMPC	6.27
2,2',3,4',5,6,6'-HpCB	188	11		4.30	15.1		6.27
2,2',3,3',5,6,6'-HpCB	179	1600		4.30	1560		6.27
2,2',3,4,4',6,6'-HpCB	184	8.97		4.30	11.4		6.27
2,2',3,3',4,6,6'-HpCB	176	447		4.30	610		6.27
2,2',3,4,5,6,6'-HpCB	186	2.72		4.30	U		6.27
2,2',3,3',5,5',6-HpCB	178	1330		4.30	1680		6.27
2,2',3,3',4,5',6-HpCB	175	192		4.30	335		6.27
2,2',3,4',5,5',6-HpCB	187	14000		4.30	17200		6.27
2,2',3,4,4',5,6'-HpCB	182	52.7		4.30	78.3		6.27
(183/185)	183/185	3830		8.60	6690		12.5
2,2',3,3',4,5,6'-HpCB	174	3520		4.30	4780		6.27
2,2',3,3',4,5',6'-HpCB	177	3000		4.30	3940		6.27
2,2',3,4,4',5,6-HpCB	181	167		4.30	241		6.27
(171/173)	171/173	1940		8.60	3150		12.5
2,2',3,3',4,5,5'-HpCB	172	U		4.30	1940		6.27
2,3,3',4,5,5',6-HpCB	192	U		4.30	U		6.27
(180/193)	180/193	10600		8.60	23800		12.5
2,3,3',4,4',5',6-HpCB	191	219		4.30	381		6.27
2,2',3,3',4,4',5-HpCB	170	5930	J	4.30	10500	J	6.27
2,3,3',4,4',5,6-HpCB	190	588	J	4.30	1170	J	6.27
2,3,3',4,4',5,5'-HpCB	189	238		4.30	416		6.27
2,2',3,3',5,5',6,6'-OcCB	202	226		4.30	616		6.27
2,2',3,3',4,5',6,6'-OcCB	201	128		4.30	380		6.27
2,2',3,4,4',5,6,6'-OcCB	204	U		4.30	U		6.27
(197/200)	197/200	159		8.60	425		12.5
(198/199)	198/199	1510		8.60	4130		12.5
2,2',3,3',4,4',5,6'-OcCB	196	469		4.30	1600		6.27
2,2',3,4,4',5,5',6-OcCB	203	863		4.30	2750		6.27
2,2',3,3',4,4',5,6-OcCB	195	421		4.30	994		6.27
2,2',3,3',4,4',5,5'-OcCB	194	796		4.30	3090		6.27
2,3,3',4,4',5,5',6-OcCB	205	48.1		4.30	145		6.27
2,2',3,3',4,5,5',6,6'-NoCB	208	85.4	J	4.30	582	J	6.27
2,2',3,3',4,4',5,6,6'-NoCB	207	39.4		4.30	220		6.27
2,2',3,3',4,4',5,5',6-NoCB	206	282		4.30	1870		6.27
Decachlorobiphenyl	209	117		4.30	798		6.27

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0063		0-360-0088	
Sample Location		5-BG-3		7-C-6	
Percent Solids		22.3		23.2	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		2 13		ND	
Total Dichloro Biphenyls		5350		400	
Total Trichloro Biphenyls		63400		7660	
Total Tetrachloro Biphenyls		262000		71200	
Total Pentachloro Biphenyls		506000		311000	
Total Hexachloro Biphenyls		338000		299000	
Total Heptachloro Biphenyls		47600		78500	
Total Octachloro Biphenyls		4620		14100	
Total Nonachloro Biphenyls		407		2670	
Decachloro Biphenyls		117		798	
Total PCBS		1230000		785000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069			0-360-0076	
Sample Location		6-C-3			6-BG-2	
Percent Solids		27.1			21.3	
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg	RL ng/Kg
2-MoCB	1	529		7.85	124	5.6
3-MoCB	2	U		7.85	U	5.6
4-MoCB	3	15.3	EMPC	7.85	9.88	5.6
2,2'-DiCB	4	19600		7.85	2210	5.6
2,6-DiCB	10	2040		7.85	157	5.6
2,5-DiCB	9	663		7.85	48.4	5.6
2,4-DiCB	7	201		7.85	29.8	5.6
2,3'-DiCB	6	2550		7.85	196	5.6
2,3-DiCB	5	67.1		7.85	U	5.6
2,4'-DiCB	8	4260		7.85	555	5.6
3,5-DiCB	14	U		7.85	U	5.6
3,3'-DiCB	11	U		55.8	U	57.8
(12/13)	12/13	503		15.7	75.9	11.2
4,4'-DiCB	15	185		7.85	161	5.6
2,2',6-TrCB	19	28100	J	7.85	1640	5.6
(18/30)	18/30	51400		15.7	3050	11.2
2,2',4-TrCB	17	42400		7.85	4150	5.6
2,3',6-TrCB	27	62100		7.85	3740	5.6
2,3,6-TrCB	24	U		7.85	203	5.6
2,2',3-TrCB	16	10600		7.85	537	5.6
2,4',6-TrCB	32	46900		7.85	3740	5.6
2,3',5'-TrCB	34	1170		7.85	59.3	5.6
2,3,5-TrCB	23	61.5		7.85	U	5.6
(26/29)	26/29	97500		15.7	8090	11.2
2,3',4-TrCB	25	23500		7.85	2940	5.6
2,4',5-TrCB	31	34500		7.85	3670	5.6
(20/28)	20/28	69500		15.7	6320	11.2
(21/33)	21/33	7570		15.7	551	11.2
2,3,4'-TrCB	22	11200		7.85	1610	5.6
3,3',5-TrCB	36	U		7.85	U	5.6
3,4',5-TrCB	39	229		7.85	23.1	5.6
3,4,5-TrCB	38	465		7.85	30.2	5.6
3,3',4-TrCB	35	U		7.85	U	5.6
3,4,4'-TrCB	37	1150		7.85	347	5.6
2,2',6,6'-TeCB	54	5210		7.85	258	5.6
(50/53)	50/53	124000		15.7	4550	11.2
(45/51)	45/51	81600		15.7	3440	11.2
2,2',3,6'-TeCB	46	15700		7.85	379	5.6
2,2',5,5'-TeCB	52	969000		7.85	54000	5.6
2,3',5',6-TeCB	73	U		7.85	U	5.6
2,2',3,5-TeCB	43	5730		7.85	272	5.6
(49/69)	49/69	685000		15.7	35700	11.2
2,2',4,5-TeCB	48	11200		7.85	522	5.6
(44/47/65)	44/47/65	566000		23.6	27200	16.8
(59/62/75)	59/62/75	45300		23.6	2430	16.8
2,2',3,4'-TeCB	42	81300		7.85	3770	5.6
(40/41/71)	40/41/71	129000		23.6	5480	16.8
2,3,4',6-TeCB	64	105000		7.85	4730	5.6
2,3',5,5'-TeCB	72	34700		7.85	1870	5.6
2,3',4,5'-TeCB	68	22400		7.85	1290	5.6
2,3,3',5-TeCB	57	8690		7.85	654	5.6
2,3,3',5'-TeCB	58	4870		7.85	245	5.6
2,3',4,5-TeCB	67	6060		7.85	864	5.6
2,3,4',5-TeCB	63	14900		7.85	719	5.6
(61/70/74/76)	61/70/74/76	257000		31.4	18600	22.4

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069			0-360-0076		
Sample Location		6-C-3			6-BG-2		
Percent Solids		27.1			21.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	265000		7.85	14500		5.6
2,3,3',4-TeCB	55	U		7.85	U		5.6
2,3,3',4'-TeCB	56	24500		7.85	2010		5.6
2,3,4,4'-TeCB	60	13100		7.85	868		5.6
3,3',5,5'-TeCB	80	U		7.85	U		5.6
3,3',4,5'-TeCB	79	7670		7.85	727		5.6
3,3',4,5-TeCB	78	U		7.85	U		5.6
3,4,4',5-TeCB	81	293	EMPC	7.85	37.2	EMPC	5.6
3,3',4,4'-TeCB	77	1620		7.85	342		5.6
2,2',4,6,6'-PeCB	104	498		7.85	26.6		5.6
2,2',3,6,6'-PeCB	96	6120		7.85	209		5.6
2,2',4,5',6-PeCB	103	17100		7.85	996		5.6
2,2',3,5,6'-PeCB	94	6480		7.85	230		5.6
2,2',3,5',6-PeCB	95	701000		7.85	30700		5.6
(93/98/100/102)	93/98/100/102	43100		31.4	2200		22.4
(88/91)	88/91	197000		15.7	8410		11.2
2,2',3,3',6-PeCB	84	188000		7.85	5830		5.6
2,2',3,4,6'-PeCB	89	3700		7.85	110		5.6
2,3',4,5',6-PeCB	121	712		7.85	36.6		5.6
2,2',3,5,5'-PeCB	92	301000		7.85	16600		5.6
(90/101/113)	90/101/113	969000		118	58900		16.8
2,2',3,3',5-PeCB	83	68600		7.85	1520		5.6
2,2',4,4',5-PeCB	99	801000		7.85	37200		5.6
2,3,3',5,6-PeCB	112	U		7.85	U		5.6
(86/87/97/108/119/125)	86/87/97/108/119/125	696000		47.1	32200		33.6
(85/117/116)	85/116/117	213000		23.6	9510		16.8
(110/115)	110/115	1040000		78.4	75700		11.2
2,2',3,3',4-PeCB	82	62000		7.85	2910		5.6
2,3,3',5,5'-PeCB	111	2490		7.85	111		5.6
2,3',4,5,5'-PeCB	120	10600		7.85	383		5.6
(107/124)	107/124	22900		15.7	1350		11.2
2,3,3',4,6-PeCB	109	84800		7.85	3240		5.6
2,3',4,4',5'-PeCB	123	14000		7.85	722		5.6
2,3,3',4,5-PeCB	106	U		7.85	U		5.6
2,3',4,4',5-PeCB	118	690000		7.85	42000		5.6
2,3,3',4',5'-PeCB	122	4610		7.85	385		5.6
2,3,4,4',5-PeCB	114	14300		7.85	574		5.6
2,3,3',4,4'-PeCB	105	218000		7.85	11200		5.6
3,3',4,5,5'-PeCB	127	1570		7.85	72		5.6
3,3',4,4',5-PeCB	126	1710	EMPC	7.85	64.3	EMPC	5.6
2,2',4,4',6,6'-HxCB	155	44.6		7.85	U		5.6
2,2',3,5,6,6'-HxCB	152	986		7.85	41.3		5.6
2,2',3,4',6,6'-HxCB	150	1400		7.85	48.6		5.6
2,2',3,3',6,6'-HxCB	136	82900		7.85	3080		5.6
2,2',3,4,6,6'-HxCB	145	383		7.85	11.4		5.6
2,2',3,4',5,6'-HxCB	148	1190		7.85	52.8		5.6
(135/151)	135/151	238000		15.7	9860		11.2
2,2',4,4',5,6'-HxCB	154	12300		7.85	534		5.6
2,2',3,4,5',6-HxCB	144	31300		7.85	1250		5.6
(147/149)	147/149	647000		15.7	23800		11.2
(134/143)	134/143	56100		15.7	1950		11.2
(139/140)	139/140	29400		15.7	910		11.2
2,2',3,3',4,6-HxCB	131	15000		7.85	323		5.6
2,2',3,4,5,6-HxCB	142	U		7.85	U		5.6
2,2',3,3',4,6'-HxCB	132	260000		7.85	7810		5.6
2,2',3,3',5,5'-HxCB	133	21300		7.85	794		5.6

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069			0-360-0076		
Sample Location		6-C-3			6-BG-2		
Percent Solids		27.1			21.3		
Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	1260		7.85	48.1		5.6
2,2',3,4',5,5'-HxCB	146	181000		7.85	5870		5.6
2,3,3',4,5',6-HxCB	161	U		7.85	U		5.6
(153/168)	153/168	952000		78.4	33100		11.2
2,2',3,4,5,5'-HxCB	141	119000		7.85	4700		5.6
2,2',3,3',4,5'-HxCB	130	78000		7.85	2450		5.6
2,2',3,4,4',5-HxCB	137	83300		7.85	2880		5.6
2,3,3',4',5',6-HxCB	164	41600		7.85	2180		5.6
(129/138/163)	129/138/163	1200000		118	50400		16.8
2,3,3',4,5,6-HxCB	160	U		7.85	U		5.6
2,3,3',4,4',6-HxCB	158	123000		7.85	4390		5.6
(128/166)	128/166	180000		15.7	7030		11.2
2,3,3',4,5,5'-HxCB	159	1510		7.85	U		5.6
2,3,3',4',5,5'-HxCB	162	5410		7.85	109		5.6
2,3',4,4',5,5'-HxCB	167	53500		7.85	1390		5.6
(156/157)	156/157	126000		15.7	3970		11.2
3,3',4,4',5,5'-HxCB	169	144	EMPC	7.85	6.51	EMPC	5.6
2,2',3,4',5,6,6'-HpCB	188	137		7.85	U		5.6
2,2',3,3',5,6,6'-HpCB	179	18800		7.85	772		5.6
2,2',3,4,4',6,6'-HpCB	184	124		7.85	U		5.6
2,2',3,3',4,6,6'-HpCB	176	8350		7.85	250		5.6
2,2',3,4,5,6,6'-HpCB	186	59.8		7.85	U		5.6
2,2',3,3',5,5',6-HpCB	178	14500		7.85	575		5.6
2,2',3,3',4,5',6-HpCB	175	3120		7.85	106		5.6
2,2',3,4',5,5',6-HpCB	187	106000		7.85	3710		5.6
2,2',3,4,4',5,6'-HpCB	182	768		7.85	27.1		5.6
(183/185)	183/185	53300		15.7	1910		11.2
2,2',3,3',4,5,6'-HpCB	174	41700		7.85	1710		5.6
2,2',3,3',4,5',6'-HpCB	177	37400		7.85	1350		5.6
2,2',3,4,4',5,6-HpCB	181	2960		7.85	84.1		5.6
(171/173)	171/173	31700		15.7	987		11.2
2,2',3,3',4,5,5'-HpCB	172	13000		7.85	370		5.6
2,3,3',4,5,5',6-HpCB	192	17.8		7.85	U		5.6
(180/193)	180/193	166000		15.7	4540		11.2
2,3,3',4,4',5',6-HpCB	191	3570		7.85	96.8		5.6
2,2',3,3',4,4',5-HpCB	170	97200		7.85	2560		5.6
2,3,3',4,4',5,6-HpCB	190	11900	J	7.85	288	J	5.6
2,3,3',4,4',5,5'-HpCB	189	4730		7.85	99.6		5.6
2,2',3,3',5,5',6,6'-OcCB	202	2910		7.85	98.5		5.6
2,2',3,3',4,5',6,6'-OcCB	201	1940		7.85	62.6		5.6
2,2',3,4,4',5,6,6'-OcCB	204	16.7		7.85	U		5.6
(197/200)	197/200	2270		15.7	66.3		11.2
(198/199)	198/199	17900		15.7	446		11.2
2,2',3,3',4,4',5,6'-OcCB	196	7690	J	7.85	182		5.6
2,2',3,4,4',5,5',6-OcCB	203	13500	J	7.85	321		5.6
2,2',3,3',4,4',5,6-OcCB	195	5910		7.85	176		5.6
2,2',3,3',4,4',5,5'-OcCB	194	14900		7.85	267		5.6
2,3,3',4,4',5,5',6-OcCB	205	744		7.85	19.9		5.6
2,2',3,3',4,5,5',6,6'-NoCB	208	1870	J	7.85	44.1	J	5.6
2,2',3,3',4,4',5,6,6'-NoCB	207	790		7.85	21.1		5.6
2,2',3,3',4,4',5,5',6-NoCB	206	5740		7.85	121		5.6
Decachlorobiphenyl	209	2710		7.85	67.2		5.6

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number		0-360-0069		0-360-0076	
Sample Location		6-C-3		6-BG-2	
Percent Solids		27.1		21.3	
Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg	Result ng/Kg	RL ng/Kg
Congener Group					
Total Monochloro Biphenyls		529		134	
Total Dichloro Biphenyls		30200		3490	
Total Trichloro Biphenyls		488000		40700	
Total Tetrachloro Biphenyls		3490000		185000	
Total Pentachloro Biphenyls		6370000		343000	
Total Hexachloro Biphenyls		4540000		169000	
Total Heptachloro Biphenyls		615000		19400	
Total Octachloro Biphenyls		67800		1640	
Total Nonachloro Biphenyls		8410		186	
Decachloro Biphenyls		2710		67.2	
Total PCBS		156000000		763000	

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Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2
Percent Solids	20.4

Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg
2-MoCB	1	18.6		5.84
3-MoCB	2	U		5.84
4-MoCB	3	U		5.84
2,2'-DiCB	4	95.5		5.84
2,6-DiCB	10	5.92	EMPC	5.84
2,5-DiCB	9	10.8		5.84
2,4-DiCB	7	6.34		5.84
2,3'-DiCB	6	55.1		5.84
2,3-DiCB	5	U		5.84
2,4'-DiCB	8	214		5.84
3,5-DiCB	14	U		5.84
3,3'-DiCB	11	U		81.2
(12/13)	12/13	18.6	EMPC	11.7
4,4'-DiCB	15	62.1		5.84
2,2',6-TrCB	19	29.1		5.84
(18/30)	18/30	166		11.7
2,2',4-TrCB	17	219		5.84
2,3',6-TrCB	27	515		5.84
2,3,6-TrCB	24	U		5.84
2,2',3-TrCB	16	65.2		5.84
2,4',6-TrCB	32	493		5.84
2,3',5'-TrCB	34	13.2		5.84
2,3,5-TrCB	23	U		5.84
(26/29)	26/29	1250		11.7
2,3',4-TrCB	25	474		5.84
2,4',5-TrCB	31	824		5.84
(20/28)	20/28	1410		11.7
(21/33)	21/33	119		11.7
2,3,4'-TrCB	22	308		5.84
3,3',5-TrCB	36	U		5.84
3,4',5-TrCB	39	U		5.84
3,4,5-TrCB	38	U		5.84
3,3',4-TrCB	35	U		5.84
3,4,4'-TrCB	37	105		5.84
2,2',6,6'-TeCB	54	U		5.84
(50/53)	50/53	362		11.7
(45/51)	45/51	162		11.7
2,2',3,6'-TeCB	46	24.9		5.84
2,2',5,5'-TeCB	52	5560		5.84
2,3',5',6-TeCB	73	U		5.84
2,2',3,5-TeCB	43	80.4		5.84
(49/69)	49/69	4250		11.7
2,2',4,5-TeCB	48	91.2		5.84
(44/47/65)	44/47/65	5000		17.5
(59/62/75)	59/62/75	401		17.5
2,2',3,4'-TeCB	42	431		5.84
(40/41/71)	40/41/71	702		17.5
2,3,4',6-TeCB	64	500		5.84
2,3',5,5'-TeCB	72	394		5.84
2,3',4,5'-TeCB	68	283		5.84
2,3,3',5-TeCB	57	141		5.84
2,3,3',5'-TeCB	58	49.4		5.84
2,3',4,5-TeCB	67	155		5.84
2,3,4',5-TeCB	63	166		5.84
(61/70/74/76)	61/70/74/76	3670		23.4

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2
Percent Solids	20.4

Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg
2,3',4,4'-TeCB	66	3190		5.84
2,3,3',4-TeCB	55	U		5.84
2,3,3',4'-TeCB	56	332		5.84
2,3,4,4'-TeCB	60	204		5.84
3,3',5,5'-TeCB	80	U		5.84
3,3',4,5'-TeCB	79	73.1		5.84
3,3',4,5-TeCB	78	U		5.84
3,4,4',5-TeCB	81	U		5.84
3,3',4,4'-TeCB	77	106		5.84
2,2',4,6,6'-PeCB	104	U		5.84
2,2',3,6,6'-PeCB	96	9.21		5.84
2,2',4,5',6-PeCB	103	115		5.84
2,2',3,5,6'-PeCB	94	46.5		5.84
2,2',3,5',6-PeCB	95	3700		5.84
(93/98/100/102)	93/98/100/102	405		23.4
(88/91)	88/91	1110		11.7
2,2',3,3',6-PeCB	84	512		5.84
2,2',3,4,6'-PeCB	89	12.4		5.84
2,3',4,5',6-PeCB	121	9.42		5.84
2,2',3,5,5'-PeCB	92	3450		5.84
(90/101/113)	90/101/113	12600		17.5
2,2',3,3',5-PeCB	83	278		5.84
2,2',4,4',5-PeCB	99	9380		5.84
2,3,3',5,6-PeCB	112	U		5.84
(86/87/97/108/119/125)	86/87/97/108/119/125	5490		35
(85/117/116)	85/116/117	2660		17.5
(110/115)	110/115	7280		11.7
2,2',3,3',4-PeCB	82	266		5.84
2,3,3',5,5'-PeCB	111	31.6		5.84
2,3',4,5,5'-PeCB	120	111		5.84
(107/124)	107/124	428		11.7
2,3,3',4,6-PeCB	109	987		5.84
2,3',4,4',5'-PeCB	123	235		5.84
2,3,3',4,5-PeCB	106	U		5.84
2,3',4,4',5-PeCB	118	12400		5.84
2,3,3',4',5'-PeCB	122	111		5.84
2,3,4,4',5-PeCB	114	182		5.84
2,3,3',4,4'-PeCB	105	3290		5.84
3,3',4,5,5'-PeCB	127	22.2		5.84
3,3',4,4',5-PeCB	126	11.3	EMPC	5.84
2,2',4,4',6,6'-HxCB	155	U		5.84
2,2',3,5,6,6'-HxCB	152	6.67		5.84
2,2',3,4',6,6'-HxCB	150	6.07	EMPC	5.84
2,2',3,3',6,6'-HxCB	136	425		5.84
2,2',3,4,6,6'-HxCB	145	U		5.84
2,2',3,4',5,6'-HxCB	148	17.4		5.84
(135/151)	135/151	2910		11.7
2,2',4,4',5,6'-HxCB	154	176		5.84
2,2',3,4,5',6-HxCB	144	336		5.84
(147/149)	147/149	5770		11.7
(134/143)	134/143	582		11.7
(139/140)	139/140	329		11.7
2,2',3,3',4,6-HxCB	131	86.1		5.84
2,2',3,4,5,6-HxCB	142	U		5.84
2,2',3,3',4,6'-HxCB	132	2120		5.84
2,2',3,3',5,5'-HxCB	133	290		5.84

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2
Percent Solids	20.4

Analyte	IUPAC Number	Result ng/Kg		RL ng/Kg
2,3,3',5,5',6-HxCB	165	17.8		5.84
2,2',3,4',5,5'-HxCB	146	2190		5.84
2,3,3',4,5',6-HxCB	161	U		5.84
(153/168)	153/168	12100		11.7
2,2',3,4,5,5'-HxCB	141	1700		5.84
2,2',3,3',4,5'-HxCB	130	897		5.84
2,2',3,4,4',5-HxCB	137	947		5.84
2,3,3',4',5',6-HxCB	164	663		5.84
(129/138/163)	129/138/163	16200		17.5
2,3,3',4,5,6-HxCB	160	U		5.84
2,3,3',4,4',6-HxCB	158	1470		5.84
(128/166)	128/166	2220		11.7
2,3,3',4,5,5'-HxCB	159	U		5.84
2,3,3',4',5,5'-HxCB	162	45.6		5.84
2,3',4,4',5,5'-HxCB	167	475		5.84
(156/157)	156/157	1400		11.7
3,3',4,4',5,5'-HxCB	169	U		5.84
2,2',3,4',5,6,6'-HpCB	188	U		5.84
2,2',3,3',5,6,6'-HpCB	179	205		5.84
2,2',3,4,4',6,6'-HpCB	184	U		5.84
2,2',3,3',4,6,6'-HpCB	176	63.5		5.84
2,2',3,4,5,6,6'-HpCB	186	U		5.84
2,2',3,3',5,5',6-HpCB	178	236		5.84
2,2',3,3',4,5',6-HpCB	175	43.2		5.84
2,2',3,4',5,5',6-HpCB	187	1770		5.84
2,2',3,4,4',5,6'-HpCB	182	9.31		5.84
(183/185)	183/185	724		11.7
2,2',3,3',4,5,6'-HpCB	174	478		5.84
2,2',3,3',4,5',6'-HpCB	177	497		5.84
2,2',3,4,4',5,6-HpCB	181	28.3		5.84
(171/173)	171/173	332		11.7
2,2',3,3',4,5,5'-HpCB	172	173		5.84
2,3,3',4,5,5',6-HpCB	192	U		5.84
(180/193)	180/193	1890		11.7
2,3,3',4,4',5',6-HpCB	191	36.4		5.84
2,2',3,3',4,4',5-HpCB	170	1040		5.84
2,3,3',4,4',5,6-HpCB	190	123	J	5.84
2,3,3',4,4',5,5'-HpCB	189	45.9		5.84
2,2',3,3',5,5',6,6'-OcCB	202	53.7		5.84
2,2',3,3',4,5',6,6'-OcCB	201	37.1		5.84
2,2',3,4,4',5,6,6'-OcCB	204	U		5.84
(197/200)	197/200	31.9		11.7
(198/199)	198/199	303	J	11.7
2,2',3,3',4,4',5,6'-OcCB	196	117		5.84
2,2',3,4,4',5,5',6-OcCB	203	190		5.84
2,2',3,3',4,4',5,6-OcCB	195	88.2		5.84
2,2',3,3',4,4',5,5'-OcCB	194	181		5.84
2,3,3',4,4',5,5',6-OcCB	205	9.52		5.84
2,2',3,3',4,5,5',6,6'-NoCB	208	24.7	J	5.84
2,2',3,3',4,4',5,6,6'-NoCB	207	11.4		5.84
2,2',3,3',4,4',5,5',6-NoCB	206	73		5.84
Decachlorobiphenyl	209	36.2		5.84

Table 1.1 (cont) Results of the Analysis for PCB Congeners in Fillet Tissue
WA # 0-360 Cornell Dubilier Biological Sampling
Results Based on Wet Weight

Method : 1668A

Sample Number	0-360-0092
Sample Location	7-BG-2
Percent Solids	20.4

Analyte	IUPAC Number	Result ng/Kg	RL ng/Kg
Congener Group			
Total Monochloro Biphenyls		18.6	
Total Dichloro Biphenyls		525	
Total Trichloro Biphenyls		6000	
Total Tetrachloro Biphenyls		26300	
Total Pentachloro Biphenyls		65200	
Total Hexachloro Biphenyls		53400	
Total Heptachloro Biphenyls		7700	
Total Octachloro Biphenyls		1010	
Total Nonachloro Biphenyls		108	
Decachloro Biphenyls		36.2	
Total PCBS		160000	

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Table 2.1 Results of the MS/MSD Analysis for PCB Congeners in Fillet Tissue
WA # 360 Cornell Dublier Biological Sampling
Results Based on Wet Weight

Sample Number 1-WS-5-FILLET

Analyte	IUPAC	Sample Result	MS Spike Amount mg/Kg	MS Result ng/Kg	Background Subtracted % Recovery		MSD Spike Amount mg/Kg	MSD Result ng/Kg	Background Subtracted % Recovery		RPD		QC Limits % Recovery	QC Limits RPD
2-MoCB	1	4.7	62.2	65.6	98		61.6	67.3	102		4		50-150	20
4-MoCB	3	0	62.2	63.8	103		61.6	63.5	103		0		50-150	20
2,2'-DiCB	4	70.3	62.2	174	167		61.6	169	160		4		50-150	20
4,4'-DiCB	15	0	62.2	79.6	128		61.6	77.5	126		2		50-150	20
2,2',6-TrCB	19	86.5	62.2	179	149		61.6	172	139		7		50-150	20
3,4,4'-TrCB	37	33.8	62.2	122	142		61.6	124	147		3		50-150	20
2,2',6,6'-TeCB	54	8.89	62.2	78.5	112		61.6	78.6	113		1		50-150	20
3,4,4',5-TeCB	81	20.8	62.2	85.8	105		61.6	102	133		24	*	50-150	20
3,3',4,4'-TeCB	77	81.9	62.2	202	193	*	61.6	199	190	*	1		50-150	20
2,2',4,6,6'-PeCB	104	0	62.2	68.5	110		61.6	69.7	113		3		50-150	20
2,3',4,4',5'-PeCB	123	134	62.2	1140	1623	*	61.6	970	1357	*	18		50-150	20
2,3',4,4',5-PeCB	118	4800	62.2	51100	NC		61.6	47000	NC		NC		50-150	20
2,3,4,4',5-PeCB	114	97.2	62.2	888	1272	*	61.6	821	1176	*	8		50-150	20
2,3,3',4,4'-PeCB	105	1710	62.2	12100	NC		61.6	10900	NC		NC		50-150	20
3,3',4,4',5-PeCB	126	77.5	62.2	567	787	*	61.6	518	715	*	10		50-150	20
2,2',4,4',6,6'-HxCB	155	0	62.2	64.1	103		61.6	73.8	120		15		50-150	20
2,3',4,4',5,5'-HxCB	167	326	62.2	3640	NC		61.6	3170	NC		NC		50-150	20
(156/157)	156/157	761	124	8300	NC		123	7520	NC		NC		50-150	20
3,3',4,4',5,5'-HxCB	169	0	62.2	83	133		61.6	78.2	127		5		50-150	20
2,2',3,4',5,6,6'-HpCB	188	3.12	62.2	74.7	115		61.6	77.5	121		5		50-150	20
2,3,3',4,4',5,5'-HpCB	189	46.8	62.2	455	656	*	61.6	417	601	*	9		50-150	20
2,2',3,3',5,5',6,6'-OcCB	202	142	62.2	647	812	*	61.6	589	726	*	11		50-150	20
2,3,3',4,4',5,5',6-OcCB	205	23.8	62.2	195	275	*	61.6	188	267	*	3		50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	208	69.2	62.2	612	873	*	61.6	565	805	*	8		50-150	20
2,2',3,3',4,4',5,5',6-NoCB	206	183	62.2	1860	2692	*	61.6	1660	2405	*	11		50-150	20
Decachlorobiphenyl	209	105	62.2	840	1182	*	61.6	742	1035	*	13		50-150	20

Table 2.2 Results of the LCS/LCSD Analysis for PCB Congeners in Filet Tissue
WA # 360 Cornell Dublier Biological Sampling
Results Based on Wet Weight

Sample Number LCS 18147

Analyte	IUPAC	LCS Spike Added ng	LCS Recovered ng	% Recovery	QC Limits % Recovery	QC Limits RPD
2-MoCB	1	1.00	1.12	112	50-150	20
4-MoCB	3	1.00	1.13	113	50-150	20
2,2'-DiCB	4	1.00	1.06	106	50-150	20
4,4'-DiCB	15	1.00	1.04	104	50-150	20
2,2',6-TrCB	19	1.00	1.11	111	50-150	20
3,4,4'-TrCB	37	1.00	1.08	108	50-150	20
2,2',6,6'-TeCB	54	1.00	1.05	105	50-150	20
3,4,4',5-TeCB	81	1.00	0.992	99	50-150	20
3,3',4,4'-TeCB	77	1.00	1.01	101	50-150	20
2,2',4,6,6'-PeCB	104	1.00	1.01	101	50-150	20
2,3',4,4',5'-PeCB	123	1.00	0.980	98	50-150	20
2,3',4,4',5-PeCB	118	1.00	1.27	127	50-150	20
2,3,4,4',5-PeCB	114	1.00	1.03	103	50-150	20
2,3,3',4,4'-PeCB	105	1.00	1.08	108	50-150	20
3,3',4,4',5-PeCB	126	1.00	0.979	98	50-150	20
2,2',4,4',6,6'-HxCB	155	1.00	1.04	104	50-150	20
2,3',4,4',5,5'-HxCB	167	1.00	1.03	103	50-150	20
(156/157)	156/157	2.00	2.03	102	50-150	20
3,3',4,4',5,5'-HxCB	169	1.00	1.00	100	50-150	20
2,2',3,4',5,6,6'-HpCB	188	1.00	1.01	101	50-150	20
2,3,3',4,4',5,5'-HpCB	189	1.00	0.973	97	50-150	20
2,2',3,3',5,5',6,6'-OcCB	202	1.00	1.04	104	50-150	20
2,3,3',4,4',5,5',6-OcCB	205	1.00	0.998	100	50-150	20
2,2',3,3',4,5,5',6,6'-NoCB	208	1.00	1.02	102	50-150	20
2,2',3,3',4,4',5,5',6-NoCB	206	1.00	1.01	101	50-150	20
Decachlorobiphenyl	209	1.00	1.01	101	50-150	20

Table 3: Table of PCB Congeners by Name, IUPAC Number, and Type

BZ Congener Number	Acronym	IUPAC Name	CASRN	Descriptors
0		Biphenyl	92-52-4	
1	2-MoCB	2-Chlorobiphenyl	2051-60-7	CP1
2	3-MoCB	3-Chlorobiphenyl	2051-61-8	CP0
3	4-MoCB	4-Chlorobiphenyl	2051-62-9	CP0
4	2,2'-DiCB	2,2'-Dichlorobiphenyl	13029-08-8	
5	2,3-DiCB	2,3-Dichlorobiphenyl	16605-91-7	CP1
6	2,3'-DiCB	2,3'-Dichlorobiphenyl	25569-80-6	CP1
7	2,4-DiCB	2,4-Dichlorobiphenyl	33284-50-3	CP1
8	2,4'-DiCB1	2,4'-Dichlorobiphenyl	34883-43-7	CP1
9	2,5-DiCB	2,5-Dichlorobiphenyl	34883-39-1	CP1
10	2,6-DiCB	2,6-Dichlorobiphenyl	33146-45-1	
11	3,3'-DiCB	3,3'-Dichlorobiphenyl	2050-67-1	CP0, 2M
12	3,4-DiCB	3,4-Dichlorobiphenyl	2974-92-7	CP0
13	3,4'-DiCB	3,4'-Dichlorobiphenyl	2974-90-5	CP0
14	3,5-DiCB	3,5-Dichlorobiphenyl	34883-41-5	CP0, 2M
15	4,4'-DiCB	4,4'-Dichlorobiphenyl	2050-68-2	CP0, PP
16	2,2',3-TrCB	2,2',3-Trichlorobiphenyl	38444-78-9	
17	2,2',4-TrCB	2,2',4-Trichlorobiphenyl	37680-66-3	
18	2,2',5-TrCB1	2,2',5-Trichlorobiphenyl	37680-65-2	
19	2,2',6-TrCB	2,2',6-Trichlorobiphenyl	38444-73-4	
20	2,3,3'-TrCB	2,3,3'-Trichlorobiphenyl	38444-84-7	CP1, 2M
21	2,3,4-TrCB	2,3,4-Trichlorobiphenyl	55702-46-0	CP1
22	2,3,4'-TrCB	2,3,4'-Trichlorobiphenyl	38444-85-8	CP1
23	2,3,5-TrCB	2,3,5-Trichlorobiphenyl	55720-44-0	CP1, 2M
24	2,3,6-TrCB	2,3,6-Trichlorobiphenyl	55702-45-9	
25	2,3',4-TrCB	2,3',4-Trichlorobiphenyl	55712-37-3	CP1
26	2,3',5-TrCB	2,3',5-Trichlorobiphenyl	38444-81-4	CP1, 2M
27	2,3',6-TrCB	2,3',6-Trichlorobiphenyl	38444-76-7	
28	2,4,4'-TrCB1	2,4,4'-Trichlorobiphenyl	7012-37-5	CP1, PP
29	2,4,5-TrCB	2,4,5-Trichlorobiphenyl	15862-07-4	CP1
30	2,4,6-TrCB	2,4,6-Trichlorobiphenyl	35693-92-6	
31	2,4',5-TrCB	2,4',5-Trichlorobiphenyl	16606-02-3	CP1
32	2,4',6-TrCB	2,4',6-Trichlorobiphenyl	38444-77-8	
33	2',3,4-TrCB	2,3',4'-Trichlorobiphenyl	38444-86-9	CP1
34	2',3,5-TrCB	2,3',5'-Trichlorobiphenyl	37680-68-5	CP1, 2M
35	3,3',4-TrCB	3,3',4-Trichlorobiphenyl	37680-69-6	CP0, 2M
36	3,3',5-TrCB	3,3',5-Trichlorobiphenyl	38444-87-0	CP0, 2M
37	3,4,4'-TrCB	3,4,4'-Trichlorobiphenyl	38444-90-5	CP0, PP
38	3,4,5-TrCB	3,4,5-Tricholobiphenyl	53555-66-1	CP0, 2M
39	3,4',5-TrCB	3,4',5-Trichlorobiphenyl	38444-88-1	CP0, 2M
40	2,2',3,3'-TeCB	2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	4CL, 2M
41	2,2',3,4-TeCB	2,2',3,4-Tetrachlorobiphenyl	52663-59-9	4CL
42	2,2',3,4'-TeCB	2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	4CL
43	2,2',3,5-TeCB	2,2',3,5-Tetrachlorobiphenyl	70362-46-8	4CL, 2M
44	2,2',3,5'-TeCB1	2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	4CL, 2M
45	2,2',3,6-TeCB	2,2',3,6-Tetrachlorobiphenyl	70362-45-7	4CL
46	2,2',3,6'-TeCB	2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	4CL
47	2,2',3,4'-TeCB	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	4CL, PP
48	2,2',4,5-TeCB	2,2',4,5-Tetrachlorobiphenyl	70362-47-9	4CL
49	2,2',4,5'-TeCB	2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	4CL
50	2,2',4,6-TeCB	2,2',4,6-Tetrachlorobiphenyl	62796-65-0	4CL
51	2,2',4,6'-TeCB	2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	4CL
52	2,2',5,5'-TeCB1	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	4CL, 2M
53	2,2',5,6'-TeCB	2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	4CL
54	2,2',6,6'-TeCB	2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	4CL

Table 3: Table of PCB Congeners by Name, IUPAC Number, and Type

BZ Congener Number	Acronym	IUPAC Name	CASRN	Descriptors
55	2,3,3',4'-TeCB	2,3,3',4-Tetrachlorobiphenyl	74338-24-2	CP1, 4CL, 2M
56	2,3,3',4'-TeCB	2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	CP1, 4CL, 2M
57	2,3,3',5-TeCB	2,3,3',5-Tetrachlorobiphenyl	70424-67-8	CP1, 4CL, 2M
58	2,3,3',5'-TeCB	2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	CP1, 4CL, 2M
59	2,3,3',6-TeCB	2,3,3',6-Tetrachlorobiphenyl	74472-33-6	4CL, 2M
60	2,3,4,4'-TeCB	2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	CP1, 4CL, PP
61	2,3,4,5-TeCB	2,3,4,5-Tetrachlorobiphenyl	33284-53-6	CP1, 4CL, 2M
62	2,3,4,6-TeCB	2,3,4,6-Tetrachlorobiphenyl	54230-22-7	4CL
63	2,3,4',5-TeCB	2,3,4',5-Tetrachlorobiphenyl	74472-34-7	CP1, 4CL, 2M
64	2,3,4',6-TeCB	2,3,4',6-Tetrachlorobiphenyl	52663-58-8	4CL
65	2,3,5,6-TeCB	2,3,5,6-Tetrachlorobiphenyl	33284-54-7	4CL, 2M
66	2,3',4,4'-TeCB1	2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	CP1, 4CL, PP
67	2,3',4,5-TeCB	2,3',4,5-Tetrachlorobiphenyl	73575-53-8	CP1, 4CL, 2M
68	2,3',4,5'-TeCB	2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	CP1, 4CL, 2M
69	2,3',4,6-TeCB	2,3',4,6-Tetrachlorobiphenyl	60233-24-1	4CL
70	2,3',4',5-TeCB	2,3',4',5-Tetrachlorobiphenyl	32598-11-1	CP1, 4CL, 2M
71	2,3',4',6-TeCB	2,3',4',6-Tetrachlorobiphenyl	41464-46-4	4CL
72	2,3',5,5'-TeCB	2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	CP1, 4CL, 2M
73	2,3',5',6-TeCB	2,3',5',6-Tetrachlorobiphenyl	74338-23-1	4CL, 2M
74	2,4,4',5-TeCB	2,4,4',5-Tetrachlorobiphenyl	32690-93-0	CP1, 4CL, PP
75	2,4,4',6-TeCB	2,4,4',6-Tetrachlorobiphenyl	32598-12-2	4CL, PP
76	2',3,4',5-TeCB	2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	CP1, 4CL, 2M
77	3,3',4,4'-TeCB1,2	3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	CP0, 4CL, PP, 2M
78	3,3',4,5-TeCB	3,3',4,5-Tetrachlorobiphenyl	70362-49-1	CP0, 4CL, 2M
79	3,3',4,5'-TeCB	3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	CP0, 4CL, 2M
80	3,3',5,5'-TeCB	3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	CP0, 4CL, 2M
81	3,4,4',5-TeCB2	3,4,4',5-Tetrachlorobiphenyl	70362-50-4	CP0, 4CL, PP, 2M
82	2,2',3,3',4-PeCB	2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	4CL, 2M
83	2,2',3,3',5-PeCB	2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	4CL, 2M
84	2,2',3,3',6-PeCB	2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	4CL, 2M
85	2,2',3,4,4'-PeCB	2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	4CL, PP
86	2,2',3,4,5-PeCB	2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	4CL, 2M
87	2,2',3,4,5'-PeCB	2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	4CL, 2M
88	2,2',3,4,6-PeCB	2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	4CL
89	2,2',3,4,6'-PeCB	2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	4CL
90	2,2',3,4',5-PeCB	2,2',3,4',5-Pentachlorobiphenyl	68194-07-0	4CL, 2M
91	2,2',3,4',6-PeCB	2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	4CL
92	2,2',3,5,5'-PeCB	2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	4CL, 2M
93	2,2',3,5,6-PeCB	2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	4CL, 2M
94	2,2',3,5,6'-PeCB	2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	4CL, 2M
95	2,2',3,5',6-PeCB	2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	4CL, 2M
96	2,2',3,6,6'-PeCB	2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	4CL
97	2,2',3',4,5-PeCB	2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	4CL, 2M
98	2,2',3',4,6-PeCB	2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	4CL
99	2,2',4,4',5-PeCB	2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	4CL, PP
100	2,2',4,4',6-PeCB	2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	4CL, PP
101	2,2',4,5,5'-PeCB1	2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	4CL, 2M
102	2,2',4,5,6'-PeCB	2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	4CL
103	2,2',4,5,6'-PeCB	2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	4CL
104	2,2',4,6,6'-PeCB	2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	4CL
105	2,3,3'4,4'-PeCB1,2	2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	CP1, 4CL, PP, 2M
106	2,3,3',4,5-PeCB	2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	CP1, 4CL, 2M
107	2,3,3',4',5-PeCB	2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	CP1, 4CL, 2M

Table 3: Table of PCB Congeners by Name, IUPAC Number, and Type

BZ Congener Number	Acronym	IUPAC Name	CASRN	Descriptors
108	2,3,3',4,5'-PeCB	2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	CP1, 4CL, 2M
109	2,3,3',4,6-PeCB	2,3,3',4,6-Pentachlorobiphenyl	74472-35-8	4CL, 2M
110	2,3,3',4',6-PeCB	2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	4CL, 2M
111	2,3,3',5,5'-PeCB	2,3,3',5,5'-Pentachlorobiphenyl	39635-32-0	CP1, 4CL, 2M
112	2,3,3',5,6-PeCB	2,3,3',5,6-Pentachlorobiphenyl	74472-36-9	4CL, 2M
113	2,3,3',5',6-PeCB	2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	4CL, 2M
114	2,3,4,4',5-PeCB1,2	2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	CP1, 4CL, PP, 2M
115	2,3,4,4',6-PeCB	2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	4CL, PP
116	2,3,4,5,6-PeCB	2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	4CL, 2M
117	2,3,4',5,6-PeCB	2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	4CL, 2M
118	2,3',4,4',5-PeCB1,2	2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	CP1, 4CL, PP, 2M
119	2,3',4,4',6-PeCB	2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	4CL, PP
120	2,3',4,5,5'-PeCB	2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	CP1, 4CL, 2M
121	2,3',4,5,6-PeCB	2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	4CL, 2M
122	2',3,3',4,5-PeCB	2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	CP1, 4CL, 2M
123	2',3,4,4',5-PeCB2	2,3',4,4',5'-Pentachlorobiphenyl	65510-44-3	CP1, 4CL, PP, 2M
124	2',3,4,5,5'-PeCB	2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	CP1, 4CL, 2M
125	2',3,4,5,6'-PeCB	2,3',4',5',6-Pentachlorobiphenyl	74472-39-2	4CL, 2M
126	3,3',4,4',5-PeCB1,2	3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	CP0, 4CL, PP, 2M
127	3,3',4,5,5'-PeCB	3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	CP0, 4CL, 2M
128	2,2',3,3',4,4'-HxCB1	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	4CL, PP, 2M
129	2,2',3,3',4,5-HxCB	2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	4CL, 2M
130	2,2',3,3',4,5'-HxCB	2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	4CL, 2M
131	2,2',3,3',4,6-HxCB	2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	4CL, 2M
132	2,2',3,3',4,6'-HxCB	2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	4CL, 2M
133	2,2',3,3',5,5'-HxCB	2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	4CL, 2M
134	2,2',3,3',5,6-HxCB	2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	4CL, 2M
135	2,2',3,3',5,6'-HxCB	2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	4CL, 2M
136	2,2',3,3',6,6'-HxCB	2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	4CL, 2M
137	2,2',3,4,4',5-HxCB	2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	4CL, PP, 2M
138	2,2',3,4,4',5'-HxCB1	2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	4CL, PP, 2M
139	2,2',3,4,4',6-HxCB	2,2',3,4,4',6-Hexachlorobiphenyl	56030-56-9	4CL, PP
140	2,2',3,4,4',6'-HxCB	2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	4CL, PP
141	2,2',3,4,5,5'-HxCB	2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	4CL, 2M
142	2,2',3,4,5,6-HxCB	2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	4CL, 2M
143	2,2',3,4,5,6'-HxCB	2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	4CL, 2M
144	2,2',3,4,5',6-HxCB	2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	4CL, 2M
145	2,2',3,4,6,6'-HxCB	2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	4CL
146	2,2',3,4',5,5'-HxCB	2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	4CL, 2M
147	2,2',3,4',5,6-HxCB	2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	4CL, 2M
148	2,2',3,4',5,6'-HxCB	2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	4CL, 2M
149	2,2',3,4',5',6-HxCB	2,2',3,4',5',6-Hexachlorobiphenyl	38380-04-0	4CL, 2M
150	2,2',3,4',6,6'-HxCB	2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	4CL
151	2,2',3,5,5',6-HxCB	2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	4CL, 2M
152	2,2',3,5,6,6'-HxCB	2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	4CL, 2M
153	2,2',4,4',5,5'-HxCB1	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	4CL, PP, 2M
154	2,2',4,4',5',6-HxCB	2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	4CL, PP
155	2,2',4,4',6,6'-HxCB	2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	4CL, PP
156	2,3,3',4,4',5-HxCB2	2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	CP1, 4CL, PP, 2M
157	2,3,3',4,4',5'-HxCB2	2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	CP1, 4CL, PP, 2M
158	2,3,3',4,4',6-HxCB	2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	4CL, PP, 2M

Table 3: Table of PCB Congeners by Name, IUPAC Number, and Type

BZ Congener Number	Acronym	IUPAC Name	CASRN	Descriptors
159	2,3,3',4,5,5'-HxCB	2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	CP1, 4CL, 2M
160	2,3,3',4,5,6-HxCB	2,3,3',4,5,6-Hexachlorobiphenyl	41411-62-5	4CL, 2M
161	2,3,3',4,5',6-HxCB	2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	4CL, 2M
162	2,3,3',4',5,5'-HxCB	2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	CP1, 4CL, 2M
163	2,3,3',4',5,6-HxCB	2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	4CL, 2M
164	2,3,3',4',5',6-HxCB	2,3,3',4',5',6-Hexachlorobiphenyl	74472-45-0	4CL, 2M
165	2,3,3',5,5',6-HxCB	2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	4CL, 2M
166	2,3,4,4',5,6-HxCB	2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	4CL, PP, 2M
167	2,3,4,4',5,5'-HxCB2	2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	CP1, 4CL, PP, 2M
168	2,3',4,4',5',6-HxCB	2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	4CL, PP, 2M
169	3,3',4,4',5,5'-HxCB1,2	3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	CP0, 4CL, PP, 2M
170	2,2',3,3',4,4',5-HpCB1	2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	4CL, PP, 2M
171	2,2',3,3',4,4',6-HpCB	2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	4CL, PP, 2M
172	2,2',3,3',4,5,5'-HpCB	2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	4CL, 2M
173	2,2',3,3',4,5,6-HpCB	2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	4CL, 2M
174	2,2',3,3',4,5,6'-HpCB	2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	4CL, 2M
175	2,2',3,3',4,5',6-HpCB	2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	4CL, 2M
176	2,2',3,3',4,6,6'-HpCB	2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	4CL, 2M
177	2,2',3,3',4',5,6-HpCB	2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	4CL, 2M
178	2,2',3,3',5,5',6-HpCB	2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	4CL, 2M
179	2,2',3,3',5,6,6'-HpCB	2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	4CL, 2M
180	2,2',3,4,4',5,5'-HpCB1	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	4CL, PP, 2M
181	2,2',3,4,4',5,6-HpCB	2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	4CL, PP, 2M
182	2,2',3,4,4',5,6'-HpCB	2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	4CL, PP, 2M
183	2,2',3,4,4',5',6-HpCB	2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	4CL, PP, 2M
184	2,2',3,4,4',6,6'-HpCB	2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	4CL, PP
185	2,2',3,4,5,5',6-HpCB	2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	4CL, 2M
186	2,2',3,4,5,6,6'-HpCB	2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	4CL, 2M
187	2,2',3,4,5,5',6-HpCB1	2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	4CL, 2M
188	2,2',3,4',5,6,6'-HpCB	2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	4CL, 2M
189	2,3,3',4,4',5,5'-HpCB2	2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	CP1, 4CL, PP, 2M
190	2,3,3',4,4',5,6-HpCB	2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	4CL, PP, 2M
191	2,3,3',4,4',5',6-HpCB	2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	4CL, PP, 2M

Table 3: Table of PCB Congeners by Name, IUPAC Number, and Type

BZ Congener Number	Acronym	IUPAC Name	CASRN	Descriptors
192	2,3,3',4,5,5',6-HpCB	2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	4CL, 2M
193	2,3,3',4',5,5',6-HpCB	2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	4CL, 2M
194	2,2',3,3',4,4',5,5'-OcCB	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	4CL, PP, 2M
195	2,2',3,3',4,4',5,6-OcCB1	2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	4CL, PP, 2M
196	2,2',3,3',4,4',5,6'-OcCB	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	4CL, PP, 2M
197	2,2',3,3',4,4',6,6'-OcCB	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	4CL, PP, 2M
198	2,2',3,3',4,5,5',6-OcCB	2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	4CL, 2M
199	2,2',3,3',4,5,5',6'-OcCB	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	4CL, 2M
200	2,2',3,3',4,5,6,6'-OcCB	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	4CL, 2M
201	2,2',3,3',4,5',6,6'-OcCB	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	4CL, 2M
202	2,2',3,3',5,5',6,6'-OcCB	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	4CL, 2M
203	2,2',3,4,4',5,5',6-OcCB	2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	4CL, PP, 2M
204	2,2',3,4,4',5,6,6'-OcCB	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	4CL, PP, 2M
205	2,3,3',4,4',5,5',6-OcCB	2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	4CL, PP, 2M
206	NoCB1	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	4CL, PP, 2M
207	2,2',3,3',4,4',5,6,6'-NoCB	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	4CL, PP, 2M
208	2,2',3,3',4,5,5',6,6'-NoCB	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	4CL, 2M
209	DeCB1	Decachlorobiphenyl	2051-24-3	4CL, PP, 2M

Congener descriptors give a shorthand notation for geometry and substituent positions.

The twelve congeners that display all four of the descriptors are referred to as being "dioxin-like", referring both to their toxicity and structural features which make them similar to 2,3,7,8-tetrachlorodibenzo-p-dioxin (2378-TCDD)[1].

CP0 / CP1: These 68 coplanar congeners fall into one of two groups.
The first group of 20 congeners consists of those with chlorine substitution at none of the ortho positions on the biphenyl backbone and are referred to as CP0 or non-ortho congeners.
The second group of 48 congeners includes those with chlorine substitution at only one of the ortho positions and are referred to as CP1 or mono-ortho congeners.

4CL: These 169 congeners have a total of four or more chlorine substituents, regardless of position.

PP: These 54 congeners have both para positions chlorinated.

2M: These 140 congeners have two or more of the meta positions chlorinated.

Typical Co-eluters	
PCBs # 12 & 13	PCBs # 88 & 91
PCBs # 18 & 30	PCBs # 90, 101 & 113
PCBs # 26 & 29	PCBs # 86, 87, 97, 108, 119 & 125
PCBs # 20 & 28	PCBs # 85 & 116
PCBs # 21 & 33	PCBs # 107 & 124
PCBs # 50 & 53	PCBs # 135 & 151
PCBs # 45 & 51	PCBs # 147 & 149
PCBs # 43 & 73	PCBs # 139 & 140
PCBs # 49 & 69	PCBs # 153 & 168
PCBs # 44, 47 & 65	PCBs # 129, 138 & 163
PCBs # 59, 62 & 75	PCBs # 128 & 166
PCBs # 41, 71 & 40	PCBs # 156 & 157
PCBs # 70, 61, 74 & 76	PCBs # 171 & 173
PCBs # 93 & 100	PCBs # 180 & 193
PCBs # 98 & 102	PCBs # 198 & 199

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Pace WI
1241 Bellevue Street
Suite 9
Greenbay, WI 54302

Attn: Todd Noltemeyer

October 30, 2008

As per Lockheed Martin Purchase Order 7100045713 for Project 0360, please analyze for the following parameters:

Analysis/Method	Matrix	# of samples
PBC Congeners/ SW-846-1668A(209 Congeners)	Asiatic Clams Sunfish Carp White Suckers	5 16 4 14
PCB/SW-846-8082	Asiatic Clams Sunfish Carp White Suckers	15 78 32 58
% Lipids/ PACE SOP S-GB-L-003 Rev. 1	Tissue	110
% Solids	Tissue	110
Data package: Package with Diskette Deliverable		

The samples arrived at your laboratory between October 17-24, 2008. The lab will follow the attached instructions for each matrix. **All applicable QA/QC(**eg: MS/MSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix.** Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to REAC 20 business days after receipt of the samples. The complete data package is due 30 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable(See attached checklist for format).

All results should be reported on dry weight basis and wet weight basis.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**. Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Joseph M. Lowe for VK

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
L. Lyons
0360\non\mem\0810\sub\0360Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
M. Sprenger

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0001	1-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0002	1-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0003	1-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0004	1-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0005	1-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0006	1-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0007	1-WS-7	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0013	2-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0014	2-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0015	2-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0016	2-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0017	2-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0018	2-WS-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0019	2-WS-7	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0020	2-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0026	3-WS-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0027	3-WS-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0028	3-WS-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0029	3-WS-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
LBC Analysis	L. H. Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0030	3-WS-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0031	3-WS-6	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0032	3-WS-7	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0033	3-WS-8	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0039	4-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0040	4-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0041	4-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0042	4-WS-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0043	4-WS-5	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0044	4-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0045	4-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0046	4-WS-8	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0051	5-WS-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0052	5-WS-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0053	5-WS-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0054	5-WS-4	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0055	5-WS-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0056	5-WS-6	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0057	5-WS-7	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0001

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0058	5-WS-6	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0064	6-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0065	6-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0066	6-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0080	7-WS-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0081	7-WS-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0082	7-WS-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

end

Special Instructions: 2-WS-6 and 2-WS-7 are composite samples, all remaining samples are individual fish

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/14/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0008	1-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0009	1-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0010	1-P-3	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0011	1-P-4	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0012	1-P-5	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0021	2-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0022	2-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0023	2-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0024	2-P-4	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0025	2-P-5	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0034	3-P-1	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0035	3-P-2	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0036	3-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0037	3-P-4	Aroclor, % Lipids, % Solids	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0038	3-P-5	Aroclor, % Lipids, % Solids,	Tissue	10/2/2008	1	Foil, plastic bag	-20 C	
	0-360-0047	4-P-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0048	4-P-2	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0049	4-P-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0050	4-P-4	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analyses	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0002

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0059	5-P-1	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0060	5-P-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0061	5-BG-1	Aroclor, % Lipids, % Solids	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0062	5-BG-2	Aroclor, % Lipids, % Solids,	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	
	0-360-0063	5-BG-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	9/30/2008	1	Foil, plastic bag	-20 C	

end

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360
Contact Name: Larry Lyons
Contact Phone: (732)494-4075

No: 0-360-10/16/08-0003

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0075	6-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0076	6-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0077	6-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0078	6-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0079	6-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0089	7-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0090	7-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0091	7-BG-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0092	7-BG-2	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0093	7-BG-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0094	7-BG-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0095	7-BG-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0004

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0071	8-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0072	8-C-6	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0073	6-C-7	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0074	8-C-8	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0083	7-C-1	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0084	7-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L A Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0005

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0067	6-C-1	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0068	6-C-2	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0069	6-C-3	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0070	6-C-4	Aroclor, % Lipids, % Solids,	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. Lyons	10/16/08									

REAC, Edison, NJ

CHAIN OF CUSTODY RECORD

Site #: 0-360

Contact Name: Larry Lyons

Contact Phone: (732)494-4075

No: 0-360-10/16/08-0006

Lab: Pace Analytical

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	0-360-0085	7-C-3	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0086	7-C-4	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0087	7-C-5	Aroclor, % Lipids, % Solids	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	
	0-360-0088	7-C-6	Aroclor, % Lipids, % Solids, PCB Congeners	Tissue	10/1/2008	1	Foil, plastic bag	-20 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Analysis	L. A Lyons	10/16/08									

1083848

Chain of Custody

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Workorder: 4010390 Workorder Name: BIOTA

Results Requested 11/21/2008

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Green Bay, WI 54302
Phone (920)469-2436
Fax (920)469-8827

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Pace Analytical Minnesota
1700 Elm Street SE
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis	LAB USE ONLY
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4	3-WS-3 - FILLET ✓	10/2/2008 00:00	4010390018	Tissue	1	X	
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4				
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Comments

Friday, October 24, 2008 3:16:58 PM

Page 1 of 1

Report No.....1083848_1668A
0360Fil-DAR-042809

T398-07

Page 7 of 3054

1083848

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Results Requested 11/21/2008

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Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis	LAB USE ONLY
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Comments

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1083848

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Suite 200
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Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Requested Analysis	LAB USE ONLY
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Comments

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T398-09

Page 9 of 3054

1083848

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Workorder: 4010396 Workorder Name: BIOTA

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Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis	LAB USE ONLY
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Comments

Friday, October 24, 2008 3:20:51 PM

Page 1 of 1

Report No.....1083848_1668A

0360Fil-DAR-042809

T398-010

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1083848

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Workorder: 4010402 Workorder Name: BIOTA

Results Requested 11/21/2008

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Subcontract To

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Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis	LAB USE ONLY
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Comments

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APPENDIX B

Statistical Report
Cornell-Dubilier Site
Plainfield, NJ

Statistical Output for Polytopic Vector Analyses

Wildlife Species Investigation of the Bound Brook Ecosystem, South Plainfield, New Jersey

December 2008 **FINAL REPORT**

Prepared for:

Lockheed Martin\REAC
2890 Woodbridge Avenue
Building 209 Annex
Edison, New Jersey 08837

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, Maine 04086

Stantec

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FIGURES

Figure 1 – Site Location Map

APPENDICES

Appendix A – Bird and mammal species detected at and likely to utilize the Study Area of Bound Brook, South Plainfield, New Jersey.
Appendix B – Representative Study Area Photographs

1.0 INTRODUCTION

A wildlife species investigation was conducted on several reaches of Bound Brook in South Plainfield, New Jersey. On December 3, 2008, a Certified Wildlife Biologist from Stantec Consulting Services Inc. (Stantec) conducted a reconnaissance-level habitat assessment and wildlife species search to identify potential species occurrence in the Bound Brook Ecosystem. The survey investigated sites along Bound Brook from the Dismal Swamp through South Plainfield to New Market Pond (Figure 1).

2.0 STUDY AREA

Bound Brook is a moderately sized perennial stream; its headwaters are located in the Dismal Swamp, the largest contiguous wetland in Middlesex County. The Dismal Swamp is approximately 650 acres and stretches across the townships of Edison, Metuchen, and South Plainfield. The Dismal Swamp is an environmentally sensitive forested wetland, and the US Environmental Protection Agency (USEPA) has designated it to be a Federal Priority Wetland[1]. The Dismal Swamp provides natural flood control, is a major aquifer recharge zone, and influences a downstream fishery.

From the Dismal Swamp, Bound Brook traverses through South Plainfield to New Market Pond (Figure 1). At the western end of New Market Pond, Bound Brook continues west for approximately four miles before joining with the Green Brook. The Green Brook continues southwest for three miles before discharging into the lower Raritan River.

As Bound Brook flows away from Dismal Swamp, large forest fragments and wetland complexes give way to narrowly wooded corridors as it flows toward New Market Pond. Flowing through South Plainfield, the setting for Bound Brook is largely urban, and various industrial complexes and railroad operations abut the stream corridor. Native habitats adjacent to the brook consist of small woodlots and fields. Woods are dominated by hardwood species, including red maple (*Acer rubrum*), silver maple (*Acer saccharinum*), green ash (*Fraxinus pennsylvanica*), and various oak (*Quercus*) species. The fields are dominated by tall grasses and brambles (*Rosa* spp. and *Rubus* spp.).

Bound Brook has been contaminated by polychlorinated biphenyls (PCBs) and other hazardous materials associated with a Cornell Dubilier Electronics, Inc. facility operating from 1936 to 1962. The New Jersey Department of Environmental Protection has since issued a Fish Advisory and posted signs warning people not to eat fish taken from Bound Brook and its impoundment, New Market Pond.

[1] The USEPA Priority Wetland list recognizes those areas considered to be the most important and vulnerable wetlands in a State. Priority wetlands are identified by various Federal, state and private contributors. The Priority Wetland list is not a comprehensive inventory, but rather a listing of areas currently known to the USEPA to be important and/or under particular threat. Reference: US Environmental Protection Agency. 1994. Priority Wetlands for the State of New Jersey. US Environmental Protection Agency, Region 2, Marine and Wetlands Protection Branch. March.

3.0 METHODS

On December 3, 2008, a Stantec wildlife biologist surveyed five stream reaches along Bound Brook to investigate wildlife species presence. The five survey areas are indicated on Figure 1. Survey Area 1 was located in the Dismal Swamp. Survey Areas 2 and 3 are adjacent to the Hamilton Industrial Park (formerly known as the Cornell-Dubilier Electronics, Inc. property). Survey Area 4 is situated downstream of Bound Brook confluence with Cedar Brook. Survey Area 5 is located approximately one-half mile downstream of Area 4.

The reconnaissance-level survey targeted mammal species that could potentially be utilizing or inhabiting Bound Brook. With the help of two other observers, the wildlife biologist walked and/or waded the riparian zone to inspect each Survey Area. At each Survey Area, mudflats were carefully inspected for tracks. Observed tracks were photographed and measured. Logs and rocks were also inspected for scat. Any detected scat was collected and examined to determine its origin.

4.0 RESULTS

On December 3, 2008, at the time of the survey, brook flows were moderate, and depths in the middle of the channel were 2 to 3 feet. Overall, wildlife tracking conditions along Bound Brook were excellent. Three days prior to the wildlife survey, a heavy rain occurred, and brook shores were still quite soft and experiencing daily track impressions. In the three days since the rain, the brook had receded enough to expose mudflats to adequately allow animal visitation. Most mudflats at all stations were heavily tracked by several mammal and bird species. One drawback of the Bound Brook system itself is that even minor rainfall events tend to result in flooding that would likely remove most scatological evidence. Hence, scat detections were extremely low during the wildlife survey.

Animal detections and potential animal occurrences are summarized in Appendix A.

4.1 Survey Area 1

Survey Area 1 is situated at the edge of the Dismal Swamp. This reach is relatively rural in character. The Triple C Ranch and Nature Center is located only a few meters from the east bank of the brook. Otherwise, the immediate habitat is dominated by forest, forested wetlands, and emergent wetlands. Dense residential areas occur to the west and south of the Dismal Swamp.

The banks of the brook at Survey Area 1 are shallowly sloped, and the natural floodplain remains intact. Hardwood trees dominate the canopy, and multiflora rose (*Rosa multiflora*) grows in thick patches in the understory. Mink tracks were found in several places on the shores of Bound Brook at Survey Area 1 (Photo 1). Other furbearers detected included striped skunk (*Mephitis mephitis*) (Photo 2) and raccoon (*Procyon lotor*). Beyond the immediate floodplain, small mammal burrows were found in the grassy field (Photo 3) associated with the Triple C Ranch. Other species detected

include white-tailed deer (*Odocoileus virginianus*) and wild turkey (*Meleagris gallopavo*). Upon arrival at Survey Area 1, several mallards (*Anas platyrhynchos*) were flushed from the brook immediately downstream.

Beaver (*Castor canadensis*) gnawings and woodcuts occur throughout this reach of Bound Brook. None of these signs appeared recent, and no lodges or dams were observed in the wetlands immediately adjacent to this reach of the brook. However, based on communications with Middlesex County maintenance workers, the workers periodically remove beaver dams in this reach of Bound Brook in order to prevent flooding on roads.

4.2 Survey Areas 2 and 3

Natural habitat at Survey Areas 2 and 3 is confined to the brook proper. Banks are generally well vegetated with trees and shrubs (Photo 4), but beyond the brook corridor, the setting is immediately dominated by industrial development (Figure 1). Much of the ground surface is paved with the exception of a landfill that borders the brook directly west of Survey Area 2.

Survey Areas 2 and 3 were surveyed by wading this entire reach of Bound Brook. The banks at these two areas are relatively tall (greater than 6 ft) with steep inclines (greater than 30 degrees). Tracking locales were frequent but quite small, generally less than a few square yards. However, the density of tracks was surprisingly high. Mammal tracks detected include gray squirrel (*Sciurus carolinensis*) (Photos 7), raccoon, striped skunk, mice, and white-tailed deer. Several songbird tracks were observed on the mudflats. Additionally, an adult red-tailed hawk (*Buteo jamaicensis*) was perched over the brook immediately upstream of Survey Area 2.

Tracks belonging to a large mustelid (*i.e*., a member of the weasel family) were detected at Survey Area 2 (Photos 5 and 6). These tracks are suspected of belonging to a fisher (*Martes pennanti*). Several tracks were found but only two impressions could be utilized for identification. Unfortunately, the mudflat where these tracks were observed was too small for the animal to leave stride or gait evidence, which would have enhanced further verification. The New Jersey Division of Fish and Wildlife Furbearer Biologist reviewed the photographs of the mustelid tracks and indicated that the tracks most likely belonged to a fisher. Additionally, within a few yards of these tracks lay a scat pile that possessed characteristics belonging to that of a large mustelid (Photo 7). The presence of both the tracks and scat pile provide convincing evidence that an individual fisher visited this reach of Bound Brook.

4.3 Survey Area 4

Survey Area 4 is located downstream of the Bound Brook confluence with Cedar Brook (Figure 1). The setting is a relatively large and undeveloped open space (Photos 8 and 9). A railroad track dissects this tract of land; otherwise woods and fields dominate the immediate surroundings. At Survey Area 4, brook banks are short and steep, and mudflats occur infrequently.

Notable tracks include mouse, squirrel, and white-tailed deer. Of particular record, tracks from a muskrat (*Ondatra zibethicus*) were found on the edge of the brook (Photo 10). Muskrats would be attracted to this reach particularly with its open grassy habitat.

4.4 Survey Area 5

Survey Area 5 is well connected to the open space found at Survey Area 4 (Figure 1), but it is also bordered by industrial and residential development. The area is characterized by a hardwood overstory dominated by silver maple, and shallow banks covered with multiflora rose and other thick shrubby vegetation.

Exposed mudflats occurred infrequently at Survey Area 5, and few animal tracks were observed. Raccoon tracks were observed along the brook on one of the few exposed mudflats.

5.0 DISCUSSION

The reaches of Bound Brook that were investigated during the wildlife survey had been frequented by several species of animals. Recorded animals that have a high dependence on aquatic habitats include mink, muskrat, and mallard. It is also important to note that Survey Areas 2 and 3, which are adjacent to the Hamilton Industrial Park, appeared to experience a relatively high level of animal visitation in the days before the wildlife survey. The heavy incidence of traffic may be due to animals venturing from the Dismal Swamp and possibly traveling between the Swamp and the more expanded habitat downstream at Survey Area 4.

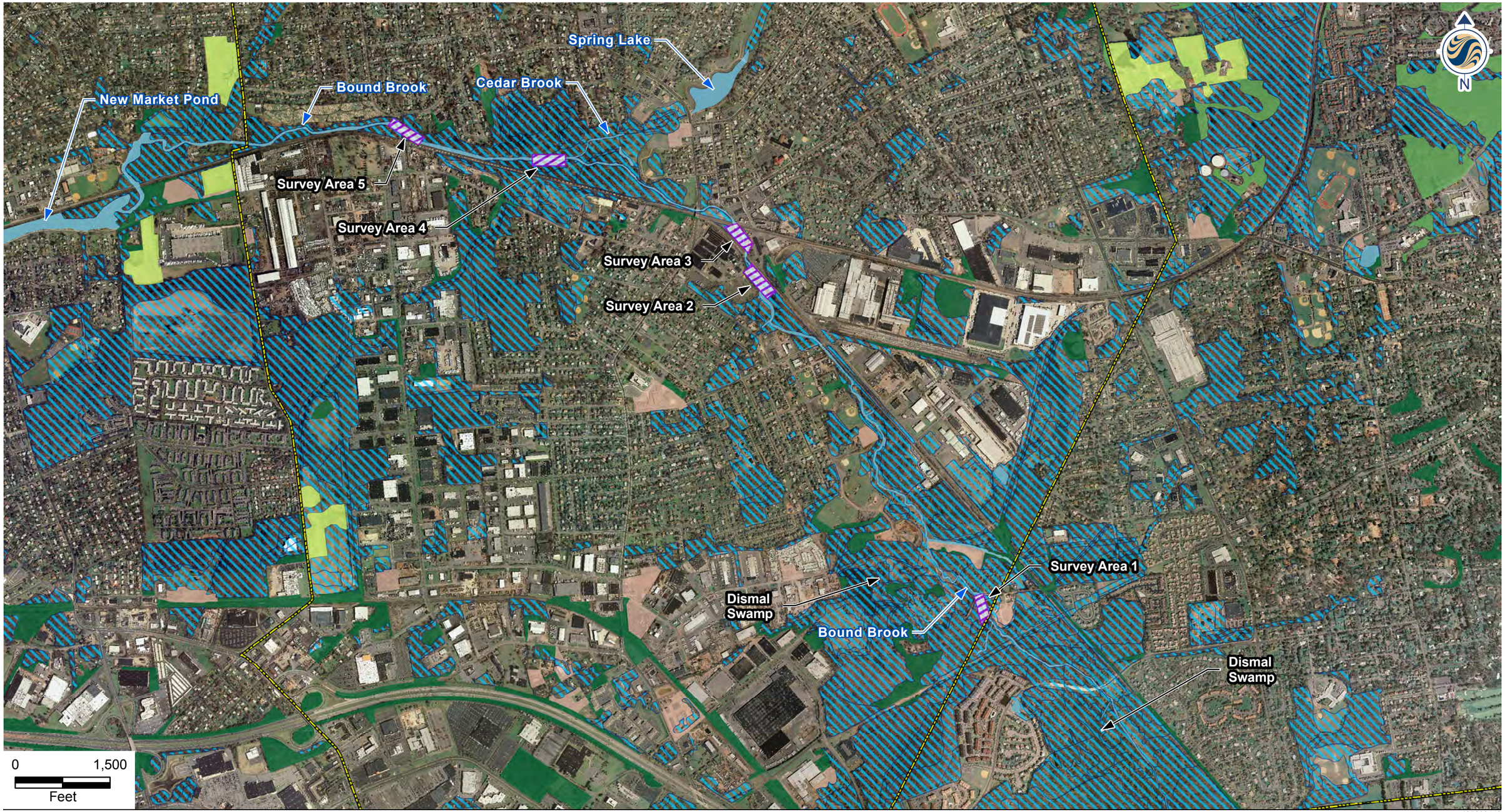
The mink detected at Survey Area 1 is probably part of a viable population centered in the wetland complex situated in the Dismal Swamp. Optimal habitat for mink includes a setting possessing a variety of wetland habitats, woods with hollow trees or down logs, and dependable food sources, particularly fish. This reach of Bound Brook and the Dismal Swamp contain all of these elements.

Conversely, the probable fisher that visited Survey Area 2 is likely to be a transient individual. Reports of fisher signs and sightings in New Jersey do occur, but they are still considered rare statewide. The origin of recently observed fishers in New Jersey may be linked to an established population in southeastern New York (pers. comm.., A. Burnett, State Furbearer Biologist, NJ Division of Fish and Wildlife). Fishers reintroduced in the Catskills in the late 1970s eventually resulted in an established population by the mid-1980s.

Although fishers are documented in all kinds of habitats, the study area is not in a part of New Jersey likely to support a breeding population. The density of development in South Plainfield and the vicinity do not provide adequate cover and traveling corridors necessary for them to carry out much of their lifetime requirements.

5.1 Research Considerations

The presence of mink at Study Area 1 warrants additional investigation of the overall Bound Brook Ecosystem. The reach of Bound Brook between Survey Areas 1 and 2, which was not surveyed, could potentially provide suitable habitat for mink. Also, the habitat at Survey Area 4 deserves to be more carefully explored for its potential to support mink. Mink can be expected to range over several miles along a stream or river. Because a viable mink population presumably resides at Bound Brook at or near Survey Area 1, it is not unreasonable to conjecture that mink may occur downstream of Survey Area 1 in the Bound Brook reaches that flow through South Plainfield. Particularly, this may be an appropriate assumption in the case of dispersing juveniles.



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Legend

- Survey Areas
- Municipal Boundaries
- Agriculture
- Barren Land
- Forest
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- Wetlands

195600440

Client/Project

Bound Brook Ecosystem
South Plainfield, New Jersey

Figure No.
1 of 1

Title
Bound Brook Ecosystem Wildlife Survey
12/18/2008

195600440_F01_Bound_Brook_Ecosystem_Wildlife_Survey.mxd

Appendix A
Animal Detections and Potential Animal Occurrences

Appendix A. Bird and mammal species detected at and likely to utilize the Study Area of Bound Brook, South Plainfield, New Jersey.

Species	Survey Area Detected	Type of Sign Detected	Suitable Habitat in Study Area[1]
Birds			
Canada goose *Branta canadensis*	-[2]	-	Resting habitat on New Market Pond
Wood duck *Aix sponsa*	-	-	Potential breeding habitat in wooded portions of brook
Green-winged teal *Anas crecca*	-	-	Potential habitat present throughout
Mallard *Anas platyrhynchos*	6, downstream of 1	Direct – visual and acoustic	Potential habitat present throughout
Hooded merganser *Lophodytes cucullatus*	-	-	Potential breeding habitat in wooded portions of brook
Red-tailed hawk *Buteo jamaicensis*	2	Direct – visual [Adult perched over brook]	Breeding habitat at Survey Area 1
Eastern wild turkey *Meleagris gallopavo*	1	Indirect – tracks	Breeding and wintering habitat upstream of Survey Area 2
Spotted sandpiper *Actitis macularia*	-	-	Potential breeding habitat present throughout
Mourning dove *Zenaida macroura*	4	Direct – visual and acoustic	Breeding and wintering habitat in fields and shrubs adjacent to brook
Belted kingfisher *Ceryle alcyon*	-	-	Feeding habitat throughout; breeding habitat possibly in taller, steep banks of brook
Red-bellied woodpecker *Melanerpes carolinus*	-	-	Breeding and wintering habitat in forest patches
Downy woodpecker *Picoides pubescens*	1	Direct – visual	Breeding and wintering habitat in forest patches
Hairy woodpecker *Picoides villosus*	-	-	Breeding and wintering habitat in forest patches
Northern flicker *Colaptes auratus*	-	-	Breeding and wintering habitat in forest patches
Least flycatcher *Empidonax minimus*	-	-	Breeding habitat in forest patches
Eastern phoebe *Sayornis phoebe*	-	-	Breeding habitat throughout
Blue jay *Cyanocitta cristata*	1, 2, 3, 5	Direct – visual and acoustic	Breeding and wintering habitat throughout
American crow *Corvus brachyrhynchos*	2, 3	Direct – visual and acoustic	Breeding and wintering habitat throughout
Fish crow *Corvus ossifragus*	2, 3	Direct – visual and acoustic	Breeding and wintering habitat throughout
Black-capped chickadee *Poecile atricapillus*	1	Direct – visual and acoustic	Breeding and wintering habitat throughout
Carolina chickadee *Poecile carolinensis*	1	Direct – visual and acoustic	Breeding and wintering habitat throughout
Tufted titmouse *Baeolophus bicolor*	-	-	Breeding and wintering habitat throughout
White-breasted nuthatch *Sitta carolinensis*	-	-	Breeding and wintering habitat in forest patches
Carolina wren *Thryothorus ludovicianus*	-	-	Breeding habitat in forest patches
American robin *Turdus migratorius*	1, 2, 3, 4, 5	Direct – visual and acoustic	Breeding and wintering habitat throughout
Gray catbird *Dumetella carolinensis*	-	-	Breeding habitat in shrub patches

Species	Survey Area Detected	Type of Sign Detected	Suitable Habitat in Study Area[1]
Northern mockingbird *Mimus polyglottos*	-	-	Breeding habitat in shrub patches
Brown thrasher *Toxostoma rufum*	-	-	Breeding habitat in shrub patches
European starling *Sturnus vulgaris*	2, 3		Breeding and wintering habitat throughout
Warbling vireo *Vireo gilvus*	-	-	Breeding habitat on the edges of forest patches
Northern cardinal *Cardinalis cardinalis*	1		Breeding and wintering habitat in shrub patches
Song sparrow *Melospiza melodia*	4	Direct – visual	Breeding and wintering habitat in shrub patches in openings
Red-winged blackbird *Agelaius phoeniceus*	-	-	Breeding habitat in tall marshy vegetation on or near brook
Common grackle *Quiscalus quiscula*	-	-	Breeding and wintering habitat in scrub-shrub wetlands near brook
Orchard oriole *Icterus spurius*	Survey Area 2	Indirect – Old oriole nest	Breeding habitat in forested patches
Baltimore oriole *Icterus galbula*	Survey Area 2	Indirect – Old oriole nest	Breeding habitat in forested patches
Mammals			
Opossum *Didelphis marsupialis*	-	-	Habitat throughout
Masked shrew *Sorex cinereus*	-	-	Habitat upstream of Survey Area 2
Water shrew *Sorex palustris*	-	-	Habitat upstream of Survey Area 2
Short-tailed shrew *Blarina brevicauda*	-	-	Habitat in grassy areas of Survey Area 4
Star-nosed mole *Condylura cristata*	-	-	Habitat upstream of Survey Area 2 and at Survey Area 4
Little brown myotis Myotis lucifugus	-	-	Foraging habitat throughout
Northern myotis *Myotis septentrionalis*	-	-	Foraging and roosting habitat upstream of Survey Area 2
Tri-colored bat (= eastern pipistrelle) *Perimyotis subflavus*	-	-	Foraging habitat throughout
Big brown bat *Eptesicus fuscus*	-	-	Foraging habitat throughout
Eastern chipmunk *Tamias striatus*	1, 2, 3	Direct – acoustic Indirect - tracks	Habitat throughout
Gray squirrel *Sciurus carolinensis*	1, 2, 3	Direct – visual Indirect – tracks	Habitat throughout
Beaver *Castor canadensis*	1	Indirect – gnawed and cut trees	Habitat upstream of Survey Area 2
White-footed mouse *Peromyscus leucopus*	1, 2, 3, 4	Indirect – tracks	Habitat throughout
Meadow vole *Microtus pennsylvanicus*	1	Indirect – burrows	Habitat upstream of Survey Area 2
Muskrat *Ondatra zibethicus*	4	Indirect – tracks	Habitat upstream of Survey Area 2 and at Survey Area 4
Black rat *Rattus rattus*	-	-	Habitat throughout
House mouse *Mus musculus*	-	-	Habitat throughout
Red fox *Vulpes vulpes*	-	-	Habitat upstream of Survey Area 2

Species	Survey Area Detected	Type of Sign Detected	Suitable Habitat in Study Area[1]
Raccoon *Procyon lotor*	1, 2, 3, 4, 5	Indirect – tracks	Habitat throughout
Long-tailed weasel *Mustela frenata*	-	-	Habitat upstream of Survey Area 2
Mink *Mustela vison*	1	Indirect – tracks	Habitat upstream of Survey Area 2
Striped skunk *Mephitis mephitis*	1, 2, 3	Indirect – tracks	Habitat throughout
Fisher (*Martes pennanti*)	2	Indirect – tracks and scat	Marginal habitat is present upstream of Survey Area 2[3]
White-tailed deer *Odocoileus virginianus*	1, 2, 3, 4	Direct – visual Indirect – tracks	Habitat throughout

[1] Study area refers to the segment of Bound Brook that includes all sampling areas. The Study Area includes the immediate riparian zone.
[2] A dash (-) indicates species was not detected during the wildlife survey.
[3] Although fisher signs were detected during the wildlife survey, this was considered to be a rare occurrence of a transient individual.

Appendix B
Representative Study Area Photographs

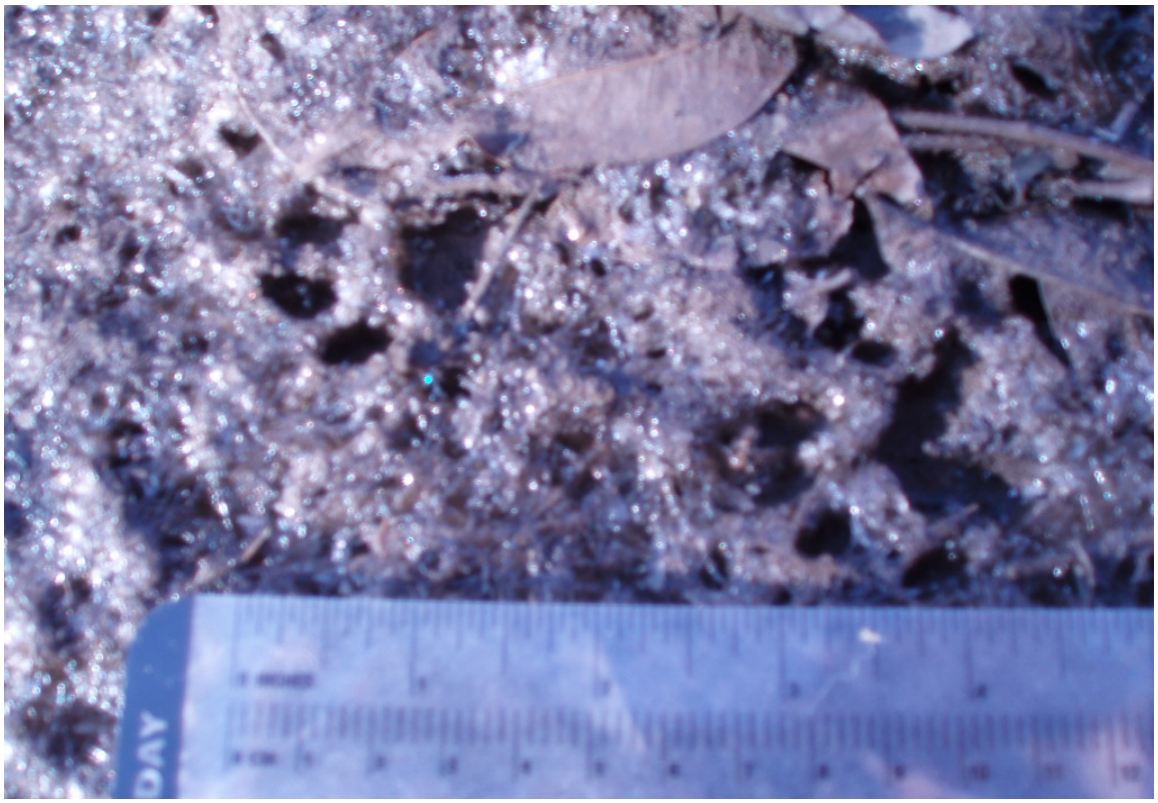

Photo 1. Mink (*Mustela vison*) tracks were detected on icy, muddy banks bordering Survey Area 1 of Bound Brook. Survey Area 1 is approximately 1.3 miles upstream from the Hamilton Industrial Park, South Plainfield, New Jersey. (Stantec – December 3, 2008)

Photo 2. Striped skunk (*Mephitis mephitis*) tracks (pair of hind feet) were detected on muddy banks at Survey Area 1 of Bound Brook. (Stantec – December 3, 2008)

Photo 3. Active burrows belonging to small mammals, such as meadow vole (*Microtus pennsylvanicus*) and white-footed mouse (*Peromyscus leucopus*), were found on the edge of the riparian zone at Survey Area 1. (Stantec – December 3, 2008)

Photo 4. Survey Area 2 is immediately upstream of the Hamilton Industrial Park. Bound Brook is bordered by relatively steep banks, but banks are well vegetated. This reach of the brook is a narrow habitat corridor bordered by industrial development. (Stantec – December 3, 2008)

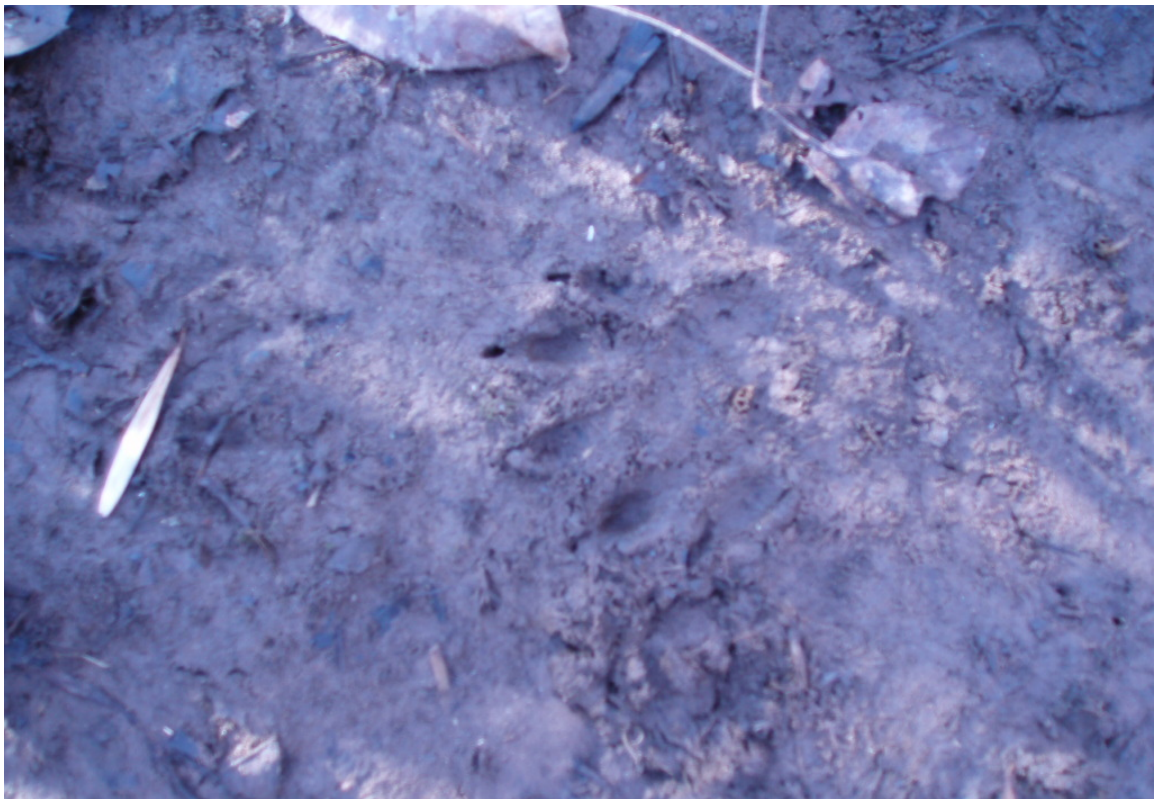

Photo 5. Large mustelid tracks were found in one spot on a short, steep, muddy bank at Survey Area 2. Depicted here is a good quality impression of what is suspected to be a fisher (*Martes pennanti*) forepaw. (Stantec – December 3, 2008)

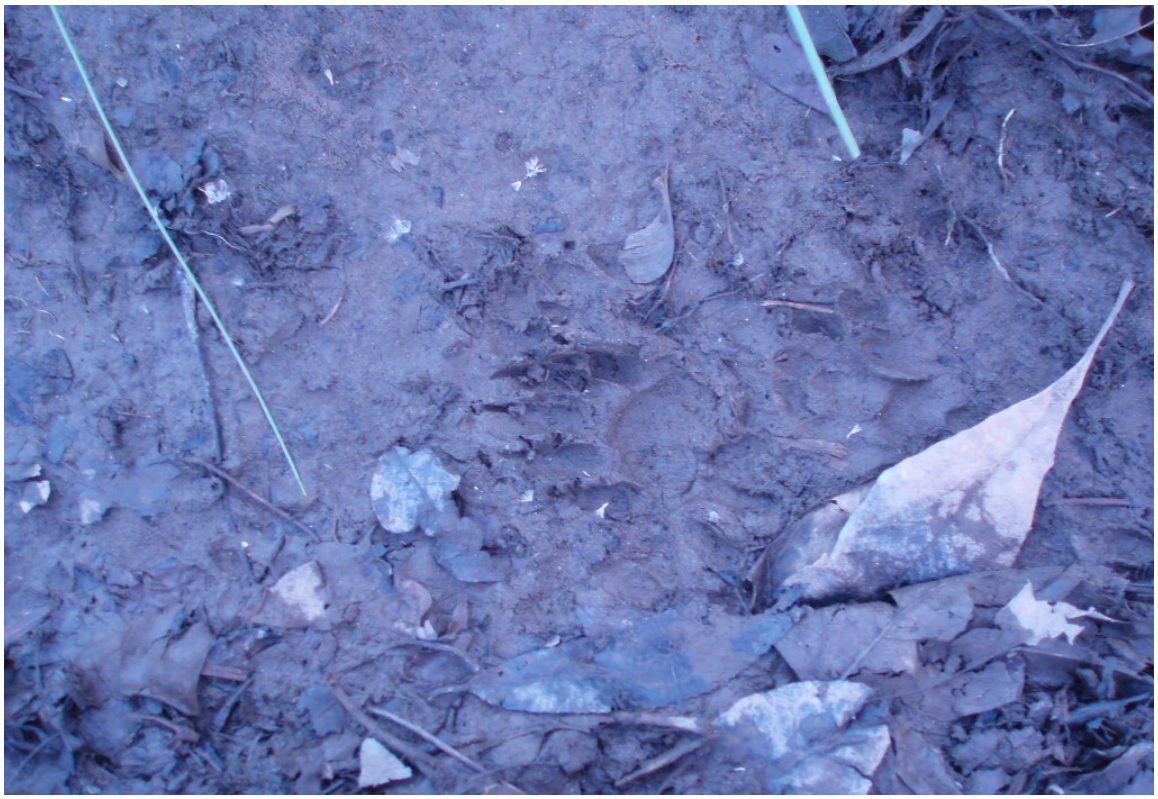

Photo 6. The fore and hind tracks of a large mustelid, suspected to be that of a fisher (*Martes pennanti*), are depicted above. These tracks were detected at Survey Area 2. (Stantec – December 3, 2008)

Photo 7. A scat pile found at Station 2 exhibits characteristics typical of a large mustelid, such as a fisher (*Martes pennanti*). (Stantec – December 3, 2008)

Photo 8. Rodent tracks were found at Survey Areas 1 through 5. Species included mouse (*Peromyscus leucopus, Mus musculus*), eastern chipmunk (*Tamias striatus*), vole (*Microtus* spp.), and eastern gray squirrel (*Sciurus carolinensis*). Gray squirrel tracks are depicted here on a small mudflat at Survey Area 2. (Stantec – December 3, 2008)

Photo 9. Survey Area 4 is located at the confluence of Cedar Brook and Bound Brook. This reach is located within undeveloped land. (Stantec – December 3, 2008)

Photo 10. Survey Area 4 is set in a relatively large tract of open space. The habitat corridor is comprised of woods, scrub-shrub patches, and small, weedy fields. Freight train tracks intersect this habitat patch. (Stantec – December 3, 2008)

Photo 11. Muskrat (*Ondatra zibethicus*) tracks were detected on muddy shores of Survey Area 4. At Survey Area 4, Bound Brook is bordered by small fields covered with tall grass. (Stantec – December 3, 2008)

Photo 12. Survey Area 5 is a reach of Bound Brook that is characterized by a narrow, wooded corridor bordered by residential development on both sides. (Stantec – December 3, 2008)

Photo 13. Raccoon (*Procyon lotor*) tracks were detected at several areas along Bound Brook. Above raccoon tracks were detected along a muddy bank at Survey Area 5. (Stantec – December 3, 2008)

APPENDIX C

Statistical Report
Cornell-Dubilier Site
Plainfield, NJ

Statistical Output for Comparisons of 1997 and 2008 Aroclor Measurements in Fish Tissue

NCEA-C-1315
ERASC-002F
March 2005

MEMORANDUM: RESPONSE TO ECOLOGICAL RISK ASSESSMENT FORUM REQUEST FOR INFORMATION ON THE BENEFITS OF PCB CONGENER-SPECIFIC ANALYSES

by

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This document has been both internally and externally scientifically peer reviewed in accordance with Agency guidance.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
National Center for Environmental Assessment
Washington, DC 20460

NCEA Washington Office (8623D)

January 6, 2003[1]

MEMORANDUM

SUBJECT: Response to the ERAF Request for Information on the Benefits of PCB Congener-Specific Analyses

FROM: David H. Cleverly, Environmental Scientist
Exposure Analysis and Risk Characterization Group (8623D)

TO: Michael Kravitz, Director
Ecological Risk Assessment Support Center
NCEA-Cin

In August, 2001, the Ecological Risk Assessment Forum (ERAF) submitted a formal question to the Ecological Risk Assessment Support Center (ERASC) on the benefits of evaluating PCB congeners in environmental samples. This question was developed by ERAF members Bruce Duncan and Clarence Callahan. ERASC contacted NCEA's Exposure Analysis and Risk Characterization Group for assistance in responding to the request. The purpose of this memorandum is to formalize the response.

Central question being asked: *What information is provided by performing PCB congener analysis as compared with Aroclor or total PCB reporting of the results of environmental sampling?*

The production of PCBs ceased in the late 1970's. Monsanto produced commercial mixtures known as Aroclors that differed by the total amount of chlorine present as well as the PCB congener composition. In the environment, various biotic and abiotic processes shift the PCB congener composition from the original commercial products such that environmental samples no longer resemble PCB Aroclors. Hence using Aroclor technical standards to qualitatively determine PCB levels present in the environment may provide an inaccurate depiction of the current PCB congener mixtures present in environmental media and biota. This technical response is divided as follows:

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[1] Revised March, and August 2004 in accordance with internal and external peer review comments

I A review of the historical production and use of PCBs
II A brief review of the PCB congener composition of Aroclors
III Alterations of PCB congener profiles as a result of environmental weathering
IV Alterations of PCB congener profiles as a result of bioaccumulation and biomagnification in ecological food chains
V Utility of PCB congener-specific analyses - two examples
VI PCB congeners common to environmental matrices
VII Conclusions regarding PCB congener-specific analyses for environmental samples

I. Historical Production and Use of PCBs

As a prelude to the discussion of the benefits of congener-specific analysis, it is useful to briefly review the history of the domestic and global production and use of PCBs. PCBs were once perceived as highly valuable manmade chemicals. Their high boiling points and resistance to thermolytic breakdown made them useful in a broad array of industrial applications. Furthermore, since PCBs do not conduct electric current, they were useful for commercial purposes as insulating material and dielectric fluid. Global production of commercial PCB mixtures from 1929 to 1980 has been estimated to be greater than 1.1 million metric tons (Erickson, 1997). U.S. production has been estimated to be approximately 568,000 metric tons (U.S. EPA, 1976). Maximum U.S. production occurred in 1970 with a volume of 38,500 metric tons (IARC, 1978). In 1972, Monsanto Corporation, the major U.S. producer, voluntarily restricted the sale of PCBs to uses as dielectric fluids in "closed electrical systems." This restriction was prompted by growing evidence of PCBs' persistence in the environment, tendency to bioaccumulate in animal tissues and toxic effects. Annual production fell to 18,000 metric tons in 1974. Monsanto ceased PCB manufacture in mid-1977 and shipped the last inventory in October 1977 (Erickson, 1997). Regulations issued by EPA beginning in 1977, principally under the Toxic Substances Control Act (TSCA) (40 CFR 761), have strictly limited the production, import, use, and disposal of PCBs.

Monsanto Corporation marketed technical grade mixtures of PCBs primarily under the patented trade name Aroclor. The Aroclors are identified by a four-digit numbering code in which the last two digits indicate the approximate chlorine content of the formulation by weight percent. The exception to this coding scheme is Aroclor 1016, which contains only mono- through hexa-chlorinated congeners with an average chlorine content of 40 percent. The uses of Aroclors containing mixtures of PCB congeners can be classified into three categories (Erickson, 1997; U.S. EPA, 1976):

1. Completely closed electrical systems such as electrical capacitors and transformers. In these cases, PCB dielectric fluids are self-contained within the electrical apparatus in sealed steel vessels.

2. Semi-closed applications. In these cases, PCBs are used as lubricants in high temperature environments. Examples include hydraulic and heat transfer systems and vacuum pumps.

3. Open-ended applications. These uses are varied but refer to coatings, dyes, paints, inks, adhesives, pesticide extenders, plasticizers, synthetic rubber, carbonless copy paper, cutting oils, lubricating oils, and casting waxes.

Estimates of PCB usage in the United States by usage category during the period 1930-1975 are presented in Table 1. Prior to voluntary restrictions by Monsanto Corporation in 1972 on sales for uses other than "closed electrical systems," approximately 13 percent of the PCBs were used in "semi-closed applications," and 26 percent were used in "open-end applications." Most of this usage of PCBs for "semi-closed" and "open-end" applications occurred between 1960 and 1972 (U.S. EPA, 1976). Table 2 shows the percentage of total Aroclor production contributed by specific Aroclors during the years 1957-1977. EPA has estimated that approximately 5 percent of the PCBs used in closed electrical systems were released into the open environment; 60 percent of the PCBs used in semi-closed applications were released; 25 percent of the PCBs used for plasticizers were released; and 90 percent of PCBs used for miscellaneous industrial uses had escaped into the environment (U.S. EPA, 1976). The reliability of these release estimates was assumed to be ±30 percent (U.S. EPA, 1976). Prior to the enactment of legislation, approximately 132,000 metric tons of PCBs were buried in unsecured sanitary landfills (U.S. EPA, 1976). This total was comprised of 50,000 metric tons from capacitor and transformer production wastes, 36,000 metric tons from disposal of obsolete electrical equipment, and 46,000 metric tons from disposal of material from open-end applications. An additional 14,000 metric tons of PCBs, although still in service in various semi-closed and open-end applications in 1976 were estimated to ultimately be destined for disposal in landfills.

Table 1. Estimated U.S. Usage of PCBs by Use Category (1930-1975)

Category	Type of Product	Total Use
Completely closed electrical systems	Transformers, capacitors, electrical insulating and cooling applications	61% before 1971 100% after 1971
Semi-closed applications	Hydraulic fluids, heat transfer fluids, lubricants	13% before 1971 0% after 1971
Open-end applications	Plasticizers, surface coatings, ink and dye carriers, adhesives, pesticide extenders, carbonless copy paper, dyes	26% before 1971 0% after 1971

Source: NRC (2000)

Table 2. Percentage of Total Aroclor Production Contributed by Specific Aroclors During the Years 1957 - 1977

Aroclor	1957-1977 U.S. Production (%)
1016	12.88
1221	00.96
1232	00.24
1242	51.76
1248	06.76
1254	15.73
1260	10.61
1262	00.83
1268	00.33

Source: Brown (1994)

II. PCB Congener Composition of Aroclors

Frame et al. (1996) has reported on the detailed analyses of the PCB congener distributions present in Aroclors 1016, 1242, 1248, and 1254. Because of variation to the chlorination process during chemical synthesis, no two batches of the same Aroclor had identical PCB congener distributions. In fact, substantial differences in congener profiles between batches of the same Aroclor could lead to significant differences in biological effects (Kodavanti et al., 2001). Nevertheless the work by Frame et al. (1996) has yielded typical congener patterns present in the PCB formulations. The typical percent distribution of congeners by PCB homologue groupings is depicted in Table 3. Note that the most abundant homologue groups are the di- and tri-chlorinated biphenyls for the low chlorinated Aroclors (1016 and 1242) while penta-chlorinated biphenyls were more abundant in the higher chlorinated Aroclors (1248, 1254 and 1260). Tetra-chlorinated biphenyls were abundant in both low chlorinated and higher chlorinated Aroclors.

Table 3. Typical PCB Homologue Composition (% wt) of Five PCB Aroclors

PCB Homologue	Aroclor 1016 (%)	Aroclor 1242 (%)	Aroclor 1248 (%)	Aroclor 1254 (%)	Aroclor 1260 (%)
Mono-CB	0.7	0.8	0	0	0
Di-CB	17.5	15.0	0.4	0.2	0.1
Tri-CB	54.7	44.9	22.0	1.3	0.2
Tetra-CB	26.6	32.6	56.6	16.4	0.5
Penta-CB	0.5	6.4	18.6	53.0	8.6
Hexa-CB	0	0.3	2.0	26.8	43.4
Hepta-CB	0	0	0.6	2.7	38.5
Octa-CB	0	0	0	0	8.3
Nona-CB	0	0	0	0	0.7
Deca-CB	0	0	0	0	0

Source: Frame et al. (1996)

III. Alterations of PCB Congener Profiles as a Result of Environmental Weathering

In the environment PCBs occur as mixtures of congeners, but their composition will differ from the commercial Aroclors. The chemical and physical properties largely affects the environmental distribution of PCBs. The National Research Council (2000) recently reviewed the fate processes that tend to change the environmental mixtures of PCBs from what was initially released into the environment. The term 'weathering' refers to the sum effect of these fate processes. When released into the environment, PCBs tend to partition to the organic component of soil, water and sediment. Within an aquatic system, PCBs can exist in three abiotic phases: freely dissolved in water; associated with dissolved organic carbon in the water column; and sorbed to particles (NRC, 2000). Freely dissolved light molecular weight PCB congeners may volatilize from the water and into the atmosphere. PCB congeners sorbed to organic carbon in the water column can cross the sediment-water interface and can move below the surficial sediments through the process of diffusion (NRC, 2000). Particle-bound PCB congeners eventually settle to become incorporated into the sediments. The NRC (2000) has noted the following generalizations with respect to the environmental distribution of PCB congeners:

1. The less chlorinated PCB congeners are more water soluble, more volatile and more susceptible to biodegradation. This tends to cause lower concentrations of these PCB congeners in sediments as compared with their distribution in the Aroclor that was discharged into the environment.

2. Higher chlorinated PCB congeners are less soluble, sorb more readily to organic substrates, are less volatile and less susceptible to biodegradation. These PCB congeners are persistent in sediments and tend to bioaccumulate in ecological food webs.

3. At the interface of surface water and the atmosphere, the lower chlorinated PCB congeners have higher vapor pressures and tend to volatilize from the water body into the atmosphere. By this process the atmosphere tends to become enriched in the lower chlorinated congeners relative to the water column, leaving the water body depleted of low molecular weight PCB congeners.

4. As a result of weathering, the PCB congener mixtures that occur in the environment differ substantially from the PCB congener composition of the original industrial release (Bazzanti et al., 1997).

IV. Alterations of PCB Congener Profiles as a Result of Bioaccumulation and Biomagnification in Ecological Food Chains

Measures of Aroclor mixtures or total PCB concentrations may not provide adequate data on PCB exposure and health risks to wildlife. Although there are 209 possible congeners, only about half are prevalent in the environment and, of those, only a limited number both accumulate in animal tissues and exhibit significant toxic effects (McFarland and Clarke, 1989; Chiu et al., 2000; Letcher et al., 2000). Furthermore, differences in uptake, metabolism and bioaccumulation

of PCB congeners can lead to significant differences between congener profiles in predators feeding high on aquatic and terrestrial food webs, and congener profiles in contaminated sediments and soils in the same ecosystems or in the original Aroclor mixtures (NRC, 2000; Chiu et al., 2000; Wagman et al., 2001).

Toxicity of different congener groups

Accurate information on specific congener body burdens is important as toxicological effects vary greatly. PCB congener-specific toxic effects in mammals are believed to include developmental and reproductive toxicity, dermal toxicity, endocrine effects, hepatotoxicity and carcinogenesis (Safe, 1993; ATSDR, 2000). Coplanar congeners, those having two para-, two or more meta- and no ortho- chlorine substituents, and their mono-ortho analogs may be responsible for much of the observed toxicity of PCB mixtures present in the environment (Safe, 1994; van den Berg et al., 1998). Coplanar PCBs have similar chemical structures to dioxins, have a common mechanism of toxicity, and invoke a similar battery of toxic responses as 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD). Because of a shared mechanism of toxicity with certain dioxins and dibenzofurans, the concept of toxicity equivalence has been applied for translating complex mixtures of chlorodibenzo-*p*-dioxins, chlorodibenzofurans and coplanar PCBs present in tissues or diet into 2,3,7,8-TCDD toxicity equivalent concentrations (TEC) using a toxicity equivalence factor (TEF) (Safe, 1994). A TEF is an estimate of the potency, relative to 2,3,7,8-TCDD, of an individual polychlorinated dibenzo-*p*-dioxin, dibenzofuran or biphenyl congener, using careful scientific judgment after considering all available relative potency data. Coplanar PCBs behave like TCDD by binding to the aryl hydrocarbon (Ah) receptor, a common pathway for dioxin-like toxicity. The dioxin/PCB-receptor complex then enters the cell nucleus and induces a variety of toxicologically-relevant changes, including enzyme induction (e.g., aryl hydrocarbon hydroxylase, AHH) and possibly competition for other nuclear proteins that regulate cell differentiation. Thus the PCB congeners that also induce AHH activity are referred to as dioxin-like. Several different methods for calculating TEFs have been developed using particular animal species and toxic endpoints (Leonards et al., 1995). In conducting human health and wildlife risk assessments, EPA generally recommends the use of the TEF procedure developed by the World Health Organization (WHO) as reviewed by van den Berg et al. (1998). Table 4 displays the WHO-TEFs developed for mammals, birds and fish. The toxicity equivalence concept is applied by multiplying the TEF of each congener present in a mixture by the respective mass concentration and the products are summed to represent the 2,3,7,8-TCDD TEC of the mixture, as in the following equation:

$$TEC \cong \sum_{i-n} \left(Congener_i \times TEF_i\right) + \left(Congener_j \times TEF_j\right) + \ldots\ldots \left(Congener_n \times TEF_n\right)$$

The assumption of additivity is inherent to the TEF approach. There are limitations to the predictive value of the TEF approach for PCB mixtures as the biological activity of some congeners may change in the presence of other congeners (Safe, 1994, 1998; van den Berg et al., 1998). Nonetheless, considerable experimental data for ecologically relevant exposures and toxicity endpoints, such as early life stage mortality, support the additivity assumption with no evidence of antagonism or synergism (Walker and Peterson, 1991; Walker et al., 1996; Zabel et al., 1995; Tillet et al., 1996). In general, the four congeners considered most toxic, based on

dioxin-like activity, are the non-ortho (coplanar) PCBs with the IUPAC numbers 77 (chlorinated on carbons 3,3',4,4'), 81 (3,4,4',5), 126 (3,3',4,4',5) and 169 (3,3',4,4',5,5') (van den Berg et al., 1998). Some congeners may cause toxic effects indirectly through a variety of mechanisms involving the cytochrome P450 (CYP) mixed-function oxidase system (Letcher et al., 2000). While induction of CYP may help to remove contaminants, it may also harm the organism by turning otherwise nontoxic contaminants into cytotoxic or genotoxic metabolites (McFarland and Clarke, 1989). In addition, ortho-substituted congeners may have neurotoxic effects (Kodavanti et al., 2001).

Table 4. World Health Organization Toxicity Equivalence Factors (TEF) for Mammals, Birds and Fish

Congener	TEF Mammals	TEF Birds	TEF Fish
2378-TCDD	1	1	1
12378-PeCDD	1	1	1
123478-HxCDD	0.1	0.05	0.5
123678-HxCDD	0.1	0.01	0.01
123789-HxCDD	0.1	0.1	0.01
1234678-HpCDD	0.01	0.001	0.001
OCDD	0.0001	0.0001	0.0001
2378-TCDF	0.1	1	0.0001
12378-PeCDF	0.05	0.1	0.05
23478-PeCDF	0.5	1	0.5
123478-HxCDF	0.1	0.1	0.1
123678-HxCDF	0.1	0.1	0.1
123789-HxCDF	0.1	0.1	0.1
234678-HxCDF	0.1	0.1	0.1
1234678-HpCDF	0.01	0.01	0.01
1234789-HpCDF	0.01	0.01	0.01
OCDF	0.0001	0.0001	0.0001
IUPAC PCB-81	0.0001	0.1	0.0005
IUPAC PCB-77	0.0001	0.05	0.0001
IUPAC PCB-126	0.1	0.1	0.005
IUPAC PCB-169	0.01	0.001	0.00005
IUPAC PCB-105	0.0001	0.0001	0.000005
IUPAC PCB-114	0.0005	0.0001	0.000005
IUPAC PCB-118	0.0001	0.00001	0.000005
IUPAC PCB-123	0.0001	0.00001	0.000005
IUPAC PCB-156	0.0005	0.0001	0.000005
IUPAC PCB-157	0.0005	0.0001	0.000005
IUPAC PCB-167	0.00001	0.00001	0.000005
IUPAC PCB-189	0.0001	0.00001	0.000005

Source: van den Berg et al. (1998)

Persistence and bioaccumulation of different congeners

PCB mixtures change as these contaminants move through abiotic media into food chains (Chiu et al., 2000; NRC, 2000). Some congeners exhibit preferential uptake, metabolism or bioaccumulation by different organisms (Goerke and Weber, 2001; Jackson et al., 1998, 2001; Traas et al., 2001; Willman et al., 1997). Organisms acquire PCBs either through contact with or ingestion of contaminated sediments, water or soil, or through their food. Once the PCBs enter an organism, individual congeners are either cleared through metabolism and/or excretion or are sequestered, usually in lipid tissues. The rate of clearance of a PCB congener through non-metabolic processes is usually inversely proportional to its preferential solubility in lipids, measured as the octanol-water partition coefficient K_{ow} (Thomann, 1989). Metabolic clearance also depends on chemical structure of the congener and the induction of appropriate enzyme pathways in the organism.

Several factors tend to influence the bioaccumulation tendency of different congeners, including the number of chlorine (Cl) substituents and their positions on the two phenyl rings. In general, the more chlorinated congeners exhibit a higher level of persistence in vertebrates and will concentrate to higher levels in tissues of predators than in the surrounding environmental media or prey organisms. This phenomenon has been observed in field populations of fish (salmon - Jackson et al., 2001), birds (cormorants - Guruge and Tanabe, 1997; seabirds - Braune et al., 2001) and mammals (seals - Bernt et al., 1999) and corroborated in controlled laboratory studies (rats - Kodavanti et al., 1998). Wagman et al. (2001) observed similar congener specificity for persistence and elimination in invertebrates (earthworms) exposed to PCB mixtures. In earthworms, elimination was observed to be enhanced for lower chlorinated PCB compounds (e.g., PCB-45) and slowest for nonpolar PCB congeners having 6 or 7 chlorine substituents (e.g., PCB-169). The position of Cl substituents on the ortho, meta or para positions also affects bioaccumulation (Boon et al., 1994). Congeners can be classified as either persistent or readily cleared based on the absence or presence, respectively, of neighboring meta-para hydrogen substituents (m,p-H) on at least one phenyl ring (kestrels - Drouillard et al., 2001; weasel/otters - Leonards et al., 1998; cormorants - Guruge and Tanabe, 1997; crustaceans and fish - Porte and Albaiges, 1994). At the bottom of the food chain, phytoplankton were observed to preferentially take up coplanar congeners rather than those with ortho- chlorine substituents (Swackhamer and Skoglund, 1991). The effect of degree of chlorination at ortho positions on bioaccumulation is more complex and variable in vertebrates (Bruhn et al., 1995; Boon et al., 1994). In general, bioaccumulation in both vertebrates and invertebrates changes the congener profile relative to the surrounding environment.

It should be stressed that patterns of persistence of certain congeners do not hold across species. For example, the highly toxic non-ortho PCB congeners IUPAC 77, 126 and 169 are metabolized and not abundant in body tissues of some predators experiencing high levels of PCB exposure (seal - Nakata et al., 1997; salmon - Willman et al., 1997; porpoise - Bruhn et al., 1995) but congeners 126 and 169 do appear to preferentially bioaccumulate in other predator species (weasel/otters - Leonards et al., 1998; cormorants - Guruge and Tanabe, 1997). Some general patterns may, however, exist. In their review of the occurrence and abundance of PCB congeners across species, including humans, McFarland and Clarke (1989) observed that tetra-, penta- and

hexa-chlorinated congeners seemed to predominate in biological tissues. In addition, accumulated PCBs are further bioconcentrated at each succeeding trophic level in a food web, causing high-order predators to experience the highest overall environmental exposure to PCBs. The frequency and severity of adverse effects, however, depend not just on the level of exposure but also on the particular species' sensitivity to PCBs.

Biomagnification of different congeners in aquatic food chains

More highly chlorinated congeners tend to bioaccumulate most readily, and PCBs tend to biomagnify in the food chain, reaching relatively high, toxic concentrations at higher trophic levels, such as in piscivorus birds (e.g., gulls, terns, and cormorants) and mammals (e.g., minks, otters, seals, and sea lions) (ATSDR, 2000). As PCBs are passed through a food chain, certain congeners are more likely to biomagnify than others (Jackson et al., 1998; Trowbridge and Swackhamer, 2002). How congener patterns change depends upon the number of trophic levels in a food web and the varying capacities of the different species to metabolize the contaminants. In an aquatic food web that included plankton, macro invertebrates, alewife and salmon in Lake Michigan, Jackson et al. (1998, 2001) found that the degree of biomagnification generally increased with the degree of congener chlorination. More specifically, the largest components of the total PCB mixture in plankton, the base of the pelagic food web, were tetra- and pentachlorobiphenyls, but in the macro invertebrates *Mysis* and *Diporeia* and in salmon, the PCB mixture was predominantly hexachlorobiphenyls. A similar pattern was observed in earlier research in Lake Michigan by Willman et al. (1997), in which penta-, hexa- and heptachloro congeners were more concentrated while trichloro congeners were depleted as the PCB mixtures moved from sediments to plankton to fish. Within groups of congeners with the same degree of chlorination (homologues), congeners with no or few ortho- chlorine substituents have shown a tendency to bioaccumulate in lower trophic levels in a study by Swackhamer and Skoglund (1991) but not in a study by Willman et al. (1997). In a follow-up study, Trowbridge and Swackhamer (2002) confirmed that dioxin-like PCB congeners preferentially bioaccumulate in the trophic transfer from the dissolved phase to phytoplankton and from phytoplankton to zooplankton of freshwater lakes. Trowbridge and Swackhamer (2002) found that the biomagnification of dioxin-like PCB congeners are twice the rate of other PCBs for each of the trophic transfer steps. This observation is consistent with the hypothesis that the environmental distribution and trophodynamics of mono- and non-ortho substituted PCB congeners differs from other PCB congeners, with the result that dioxin-like PCBs preferentially bioaccumulate in lower trophic levels. In a Lake Ontario study focusing on mono- and non-ortho congeners, Metcalfe and Metcalfe (1997) found that these more toxic congeners were a larger percentage of the PCB profiles in plankton than in higher organisms in the food web. These congeners did preferentially bioaccumulate at certain trophic transfer points, specifically between invertebrates and fish, and between fish and herring gulls.

V. Utility of PCB Congener-specific Analyses - Two Examples

Example 1. Reproductive toxicity of PCBs in mink

The limitations of wildlife risk assessments based only on total PCBs is illustrated in the case of mink (*Mustela vison*). Mink are fish-eating mammals and may be exposed through their diet to high levels of PCBs in contaminated ecosystems (Giesy et al., 1994). Mink are highly

sensitive to PCBs and experience adverse reproductive effects including reduced litter size and high (up to 100%) kit mortality even when exposed to fairly low levels of PCB contamination in their diet (Heaton et al., 1995; Restum et al., 1998; Brunstrom et al., 2001). PCB concentrations in the food sources of wild populations of mink have been assessed in the Great Lakes region, while the practice of mink farming has allowed controlled laboratory experiments to determine the effects of PCBs on mink directly. Estimates of reproductive risks from PCB congeners can be based on analyses of diet or on mink body burdens. The reproductive effects appear to be caused by the dioxin-like congeners (Brunstrom et al., 2001). Ortho-congeners such as IUPAC 153 (2,2',4,4',5,5') and IUPAC 136 (2,2',3,3',6,6') may exhibit neurological effects (Aulerich et al., 1985).

In their review of recent literature, Giesy and Kannan (1998) observed that laboratory mink feeding studies using commercial Aroclor mixtures calculated higher low/no observable effect levels (LOEL/NOEL) and EC_{50} than did studies using weathered PCB mixtures as found in wild food sources (fish). In other words, weathered PCB mixtures were more toxic than the commercial mixtures, indicating that the congener profile changed as the contaminants moved through abiotic media and into the aquatic food web (e.g., Giesy et al., 1994). In an earlier review of experimental data, Leonards et al. (1995) found it difficult to determine a dose-response curve or reference dose for reproductive effects such as litter size or kit survival based on total PCB in the mink diet. However, a dose-response curve that matched laboratory observations could be calculated based on mink whole-body concentration of dioxin-like PCB congeners estimated using TEF calculations developed by Safe (1993). Further laboratory work by Brunstrom et al. (2001) confirmed that reproductive effects in mink are correlated with high levels of non- and mono-ortho-substituted-biphenyls (dioxin-like congeners) in their food, while no reproductive effects are observed among mink exposed to high concentrations of 2-4-ortho-substituted-biphenyls only. These studies clearly indicate the importance of using more refined measurements than total PCB concentrations to assess risks to sensitive wildlife.

Example 2. A study of the effects of PCB on the hormonal system of polar bears

Braathen et al. (2004) studied the relationship between the uptake of PCB congeners and thyroid hormones (THs) and retinal within male and female polar bears. This provides a second example of the use of PCB congener-specific analysis to understand the toxicity of PCBs on mammals. The authors noted that alterations of THs can have observable effects on behavior and on the neurological system. In addition, hypothyroidism is associated with menstrual dysfunction, anaovulation and miscarriages.

The polar bear (*Ursus maritimus*) is at the top of the Arctic food web and preys on marine mammals, e.g., ringed and harp seals. PCB exposures to the polar bear are through their diet in that marine mammals have a tendency for accumulating PCBs present in the environment through the process of biomagnification up trophic systems. This study examined the relationship of the body burden of twenty-eight PCB congeners in polar bears (PCB-99, 105, 118, 138, 153, 156, 157, 170, 180, 194, 206 and 209 were listed by the authors) to alterations in their hormonal system. Six congeners were analyzed to represent the twenty-eight since many of the PCB congeners were found to be correlated to one another, that is, when one is present the other is also present in polar bear tissues (i.e., PCB-99 correlated with 138; 118 with 105; 156 with

157; 180 with 170; and 194 with 206+209). Blood samples were collected (17 female and 29 male mature bears) for PCB, TH and retinal analysis. When evaluating a possible cause and effect relationship between PCBs and the alteration of TH, these six PCB congeners were summed to represent all twenty-eight congeners. The investigators observed a statistically significant negative correlation between plasma PCB-levels and the plasma levels of five and two TH variables in female and male polar bears, respectively, i.e., decreases in plasma levels of specific thyroid hormones. Females were found to be more susceptible to TH suppression by PCBs than males, and the TH hormone, T_3, was decreased to the greatest extent. The authors noted a need for research to relate the apparent TH imbalance in females caused by PCBs to adverse functional effects on the endocrine system. No statistically significant effect was observed between plasma PCB-levels and retinal in either male or female bears. In this study, the utility of PCB congener specific analysis was to identify PCB congeners that should be further studied for their propensity for endocrine disruption.

VI. PCB Congeners Common to Environmental Matrices

Hansen (2001) identified a series of PCB congeners that are most commonly detected in environmental matrices, including sediments, soils and biota. Hansen based his list of congeners, summarized in Table 5, on a review of numerous data sets published in the scientific literature. Together, the congeners in Table 5 account for >60% of all PCBs measured. This table may serve as a basis for agreement on PCB congeners in need of analytical delineation.

Table 5. Hansen's List of Major PCB Congeners Detected and Characteristic of Steady State PCB Residues

IUPAC No.	Ring Chlorination	IUPAC No.	Ring Chlorination
153	245-245	201	2345-2356
138	234-245	56 + 60	23-34 + 234-4
180	2345-245	66 + 95	24-34 + 236-25
118	245-34	163	2356-34
74	245-4	128 + 167	234-234 + 245-345
146	235-245	194	2345-2345
170	2345-234	196 + 203	2345-2346 + 23456-245
99	245-24	70 + 76	25-34 + 345-2
187	2356-245	77	34-34
28 +31	24-4 + 25-4	81	345-4
156	2345-34	126	345-34
105 + 132	234-34	169	345-345
183	2346-245		

Notes: Two congeners separated by a + sign indicates that they are seldom resolved and coelute.
Source: Hansen (2001)

VII. Utility of PCB Congener Patterns Analysis in Environmental Samples.

PCB congener-specific analysis can provide information necessary to resolve likely sources of environmental contamination. Termed "fingerprinting," congener patterns present in

aquatic sediments or other environmental media can be matched against a database of PCB congener profiles of source releases to link sources with receptors.

For example, Ikonomou et al. (2004) compared the PCB congener distribution in Dungeness crab (*Cancer magister)* to the PCB congener distributions measured in sediments at various locations in Victoria Harbor, British Columbia. The crab was used as a biomonitor with the intent of identifying sources of PCB contamination. Statistical analysis (factor analysis and principal component analysis) was applied to the PCB congener patterns discerned in crab and sediment. A remarkable similarity in the PCB congener patterns was found between crab and sediment close to the outfall of a former bleached chlorine pulp and paper mill. In both matrices the congener pattern resembled a 45:55 mixture of Aroclors 1254 and 1260. Ikonomou et al. (2004) applied a direct mixing model to the PCBs associated with the mill operations, and, considering the weathering of PCBs in sediments with the passage of time, they predicted the PCB congener distributions in the sediments. From this procedure, the investigators found a good fit between the PCB congener profile measured in the sediments at the outfall to the wastewater discharge at the mill with the predicted congener profile resulting from the mixing model. With these two lines of evidence, i.e., a PCB fingerprint match between crab and sediment, and a PCB fingerprint match between measured and predicted sediment PCB distribution, Environment Canada concluded that the likely source of PCB contamination in Victoria Harbor was the past operation of the paper mill.

A study of the Lower Fox River in Wisconsin (Stratus Consulting, 1999) provides a second example of the utility of PCB congener pattern analysis. In an effort to identify the source of PCB contamination in the river sediments, the investigators relied on the comparison of PCB congener patterns in relation to four locations within the watershed area: Lower Fox River (LFR), Inner Green Bay, Outer Green Bay, and Lake Michigan. A suspected source of contamination was the congregation of several paper mills along the LFR reach. These mills were the center of the production of carbonless copy paper in which PCBs were used as a coating. Based on reviews of historical facility records, industrial processes and waste disposal practices, and PCB concentrations in paper products and waste, it was estimated that paper mills along the LFR had released a total of 300,000 kg of PCBs into the Lower Fox River. Sediment concentrations were lowest upstream of the location of the mills and reached maxima near the cluster of the mills on the LFR. The spatial and temporal pattern of PCB contamination in LFR sediments was found to be consistent with the transport and weathering of PCBs discharged from the paper mills. PCB congeners 028+031 (coeluted), 056+060, 066+095, and 070+076 were common to all sampling areas. However, the LFR was found to be more enriched in the lower chlorinated congeners (those with low congener numbers) than the other three sampling areas. Lake Michigan samples appeared to be relatively enriched in the higher chlorinated congeners (those with high congener numbers). Analysis of PCB congener patterns indicated that PCBs in Green Bay were derived from those in the LFR (and ultimately the paper mills), and Lake Michigan PCBs probably originated from outer Green Bay.

VIII. Conclusions

- PCB congener-specific data provide the best and most scientifically defensible basis for evaluating the ecological hazards that may be associated with PCB contamination in the environment. Information and examples presented in this memorandum give scientific support to this premise.

- The weathering of PCBs, coupled with PCB bioaccumulation in ecosystems, considerably alters the mixture of PCB congeners present in the environment. This means that, with the passage of time, the PCB congener patterns that initially comprised commercial PCB formulations are less likely to resemble the PCB congener patterns currently observed in the environment.

- Specifying the PCB congener profiles in environmental samples adds important information to the risk assessment process that otherwise would be obscured by only reporting Aroclor equivalents or total PCBs in the samples. PCBs exhibit a wide spectrum of toxicologic effects in various species, including humans (ATSDR, 2000). This has created two major groups of PCB congeners: 1) the dioxin-like (co-planar) PCBs, and (2) the non-dioxin-like PCBs. In specifying the PCB congener profiles for purposes of human health and ecological risk assessments, such groupings are useful.

- PCB congener fingerprinting techniques can lead to the identification of likely sources of PCB contamination. This involves the matching of the PCB congener patterns present in the environment to the PCB congener profiles associated with the use of specific PCB Aroclors by local point sources, and accounting for the weathering of PCBs. The application of statistical pattern recognition techniques to the data (e.g., principal component analysis) may greatly assist this effort.

- A central question for this analysis is whether PCB congener distributions can be estimated for historical environmental measurements in which the data is reported in Aroclor equivalents or the sum of PCBs present in the sample. The work of Ikonomou et al. (2004) has demonstrated that it is theoretically possible to predict PCB congener patterns based on an assumption of the weathering of specific Aroclors that may have been used by specific sources. This can be achieved through the application of sophisticated environmental mixing models. It may be possible to run these models backwards from the current measurement of the PCB congener patterns present in the environment to a prediction of the distribution of PCB congeners that may be present in environmental matrices in cases where environmental measurements are represented only as Aroclor equivalents. However, such analysis would be highly uncertain and results would be difficult to verify. Until research has reached a point where one can readily identify clear and unambiguous PCB congener patterns in all environmental matrices, and the physical/chemical processes of weathering are more accurately defined, it is not possible to reach a firm conclusion as to the scientific validity of retrospectively reconstructing the likely PCB congener distributions in these historical environmental studies.

- It is recommended that the results of analyses for PCB contamination in environmental matrices be expressed in terms of PCB congener-specific, total PCB, and Aroclor equivalent concentrations. This will provide useful information on the proportion of specific PCB congeners relative to the sum of all congeners that is needed in order to scientifically address the use of historical data. A second benefit of this approach is that ecological risk assessment metrics have, in many cases, been developed around exposures to total PCBs and Aroclor equivalents in the environment, and not on a single congener. The reporting of total PCBs and Aroclor equivalents in environmental studies will provide continuity in terms of the utilization of available bioaccumulation factors and ecotoxicity benchmarks in site-specific ecological risk assessments.

- Current state-of-the-art laboratory methods makes it possible to analytically identify and quantify the presence or absence of all 209 PCB congeners in environmental samples (e.g., EPA Method 1668A; U.S. EPA, 1999). The PCBs that can be determined by this Method are the 12 polychlorinated biphenyls (PCBs) designated as having dioxin-like activity and the remaining 197 PCBs. Approximately 125 of the PCB congeners are resolved adequately on an SPB-octyl gas chromatographic column to be determined as individual congeners. The remaining 70 congeners are determined as mixtures, e.g., they coelute with other congeners. The overarching question then shifts away from analytical chemistry capabilities to one of defining a subset of 209 PCB congeners that should be routinely identified as PCB congener mixtures in specific environmental media and biota. Hansen (2001; Table 5 of this document) has provided an interim list of major (commonly reported) congeners characteristic of steady state PCB residues.

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NON-DIOXIN-LIKE PCBs: EFFECTS AND CONSIDERATION IN ECOLOGICAL RISK ASSESSMENT

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1. Introduction

1.1 Issue

An estimated one million metric tons of commercial mixtures of polychlorinated biphenyls (PCBs), such as Aroclors (USA), Kanechlors (Japan) and Clophens (Germany), were manufactured (WHO, 1993) and used worldwide as dielectric fluids in capacitors and transformers, heat transfer fluids, hydraulic fluids, lubricating oils, and as additives in pesticides, paints, copy paper, adhesives and plastics during the 1930s through the mid-1970s. PCBs have entered the environment during both use and disposal and have been shown to be ubiquitous contaminants, occurring in most environmental media as well as biota.

Historically, analyses of environmental media and associated risk assessments have been conducted using approaches that consider the PCB mixtures as a whole, i.e., "Total PCBs" or Aroclors. Subsequently, it has been shown that the fate of various congeners in the environment varies, such that the PCB congener profiles in environmental media may change significantly from the original commercial mixtures. Likewise, individual PCB congeners have been found to vary significantly in their uptake, distribution, metabolism, and elimination within biological systems such that the congener profile in biological tissues can be quite different from both the original commercial PCB mixture and environmental media. Toxicological effects and dose-response relationships within biological systems can also vary among the different PCB congeners.

As a result, the consensus within the scientific community is that "Total PCB"- and/or Aroclor-based risk analyses may not adequately characterize risks posed by PCB mixtures (WHO, 2001). Those PCB congeners that elicit dioxin-like toxicity have been defined and a toxicity equivalence approach for use in both human health and ecological risk assessment has been developed (U.S. EPA, 2000, 2001, 2003). However, the dioxin-like PCB congeners represent only 12 of the 209 possible congeners. To assess risks posed by the remaining 197 congeners, information on the fate and effects of the non-dioxin-like congeners is required.

1.2 Purpose of this Report

- To provide ecological risk assessors with a concise summary of the state-of-the-science regarding the biological effects of non-dioxin-like PCBs.
- To provide ecological risk assessors with a compilation of references describing the biological effects of non-dioxin-like PCBs. The list of references is comprised primarily of books, reports, and review articles to provide risk assessors with sources from which they may acquire a thorough overview of the topics at hand. These materials should be used as a source for primary literature references.

1.3 ERASC Request & Response

The issues addressed in this report are those specifically requested in the Ecological Risk Assessment Support Center Request Form (Appendix 2). These issues are listed below along with the section(s) of the report where the information addressing each issue can be located.

- Describe the mode of action of non-dioxin-like compounds and types of effects in receptors (i.e., those congeners that "travel" with the listed dioxins, furans, and PCBs but just don't act via the Ah receptor)
  Addressed in Section 4.
- Discuss n-d-l toxicity relative to congener characteristics (something like a QSAR discussion of planes and rings and big chlorines)
  Addressed in Sections 2 & 4.
- Discuss which congeners are of greatest concern (potency) for n-d-l toxicity (dose/response type information in the narcotic range of effects)
  Addressed in Sections 3 & 4.
- Recommend how this scientific info on action, effects, and toxicity should be used in eco risk assessment where PCBs are present (preferred use of the data, considerations for site-specific application, etc.)
  Addressed in Section 5.
- Discuss whether a general narcosis model can or should be used to evaluate n-d-l effects (as a function of range of contaminant concentration typically seen at low, medium, and highly contaminated sites)
  Addressed in Sections 4 & 5.
- Provide an interactive video-conference on this topic and the one related to congener analytical methodology
  This portion of the request requires another process.

2. Chemical Characterization

A brief overview of PCB nomenclature and chemical properties is provided in this section. Several detailed compilations of PCB chemistry and nomenclature have been compiled previously for all PCBs (Erickson, 1997, 2001; ATSDR, 2000) and for non-dioxin-like PCBs (Hansen, 1999).

2.1 Chemical Structure

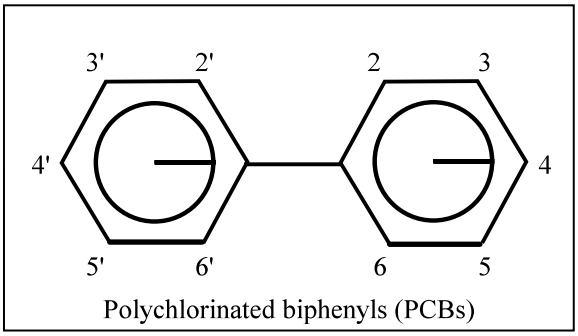

Figure 1. Structure PCBs.

2.2 Nomenclature

Polychlorinated biphenyls (PCBs) are a class of chemicals characterized by a common biphenyl molecular framework to which 2 to 10 chlorine atoms may be attached (Figure 1). Although technically not *poly*chlorinated, mono-chlorinated biphenyls are generally included when referring to PCBs collectively.

Congener **-** one of 209 possible PCB structures having the formula, $C_{12}H_{10-n}Cl_n$, where n = 1-10. Each of the 209 PCB congeners can be specifically defined by standard chemical nomenclature rules in which the number and position of chlorines on the biphenyl ring(s) are designated. Each PCB congener has also been assigned a number, between 1 and 209, by the International Union of Pure and Applied Chemists (IUPAC). The IUPAC numbers provide a convenient shorthand system, but do not provide information as to the specific chemical identity of the congener. A list of all 209 PCB congeners, including IUPAC name, IUPAC # and CAS # are provided in Appendix 1.

Homolog **-** a subset of PCB congeners defined by the degree of chlorination, i.e., monochlorobiphenyls through decachlorobiphenyls (Table 1). PCBs within a homolog group have the same molecular weight and number of chlorines attached to the biphenyl ring, but the pattern of chlorination varies among the individual **isomers** within the homolog group. A list of all PCB homolog groups, including IUPAC name and CAS # are provided in Appendix 1.

Table 1. Chemical Groupings of Polychlorinated Biphenyls

Number of Chlorines	Homolog Group	Molecular Formula	Molecular Weight	Number of Isomers
0	biphenyl	$C_{12}H_{10}$	154.1	1
1	mono-CB	$C_{12}H_9Cl$	188.0	3
2	di-CB	$C_{12}H_8Cl_2$	222.0	12
3	tri-CB	$C_{12}H_7Cl_3$	256.0	24
4	tetra-CB	$C_{12}H_6Cl_4$	289.9	42
5	penta-CB	$C_{12}H_5Cl_5$	323.9	46
6	hexa-CB	$C_{12}H_4Cl_6$	357.8	42
7	hepta-CB	$C_{12}H_3Cl_7$	391.8	24
8	octa-CB	$C_{12}H_2Cl_8$	425.8	12
9	nona-CB	$C_{12}HCl_9$	459.7	3
10	deca-CB	$C_{12}Cl_{10}$	493.7	1

***Isomer* -** biphenyls within the same homolog group (i.e., same molecular weight and molecular formula) with different substitution patterns. Specific isomers are defined by the position(s) of the chlorine atoms on the biphenyl rings (e.g., 3,3',4,4',5-pentachlorobiphenyl).

2.3 Physical-Chemical Characteristics

Most pure PCB congeners are colorless, odorless crystals under ambient conditions (Erickson, 2001). Commercial PCB mixtures (e.g. Aroclors) are clear, viscous liquids, with viscosity increasing with degree of chlorination. Generally, PCBs have high boiling points (>200°C), low vapor pressures, low water solubilities (ppm to ppt), moderate to high log K_{ow}s (~4 to 8), high bioconcentration factors (BCFs) and do not degrade readily, which all contribute to their persistence in the environment. These physical-chemical properties may vary widely between the individual congeners. A summary of these properties, presented as averages for homolog group (Erickson, 2001) and for individual congeners (Hansen, 1999), have been compiled. High quality Log K_{ow} values for all 209 PCB congeners, as determined by Hawker and Connell (1988), are provided in Appendix 1 for reference. Primary sources of information on specific congener properties are referenced within these summaries.

2.4 Dioxin-Like PCB Congeners

The 12 PCBs listed in Table 2 act through the aryl hydrocarbon receptor (AHR) to cause the full range of toxic responses elicited by 2,3,7,8-tetrachlorodibenzo-*p*-dioxin. Hence, these PCB congeners are referred to as the dioxin-like PCBs. The structure-activity relationships underlying the distinction of dioxin-like PCBs from the other PCBs have been characterized. The dioxin-like PCBs have chlorines in a minimum of four of the lateral positions (i.e., 3, 3', 4, 4', 5, 5') and none (non-) or only one (mono-) of the *ortho* positions (i.e., 2, 2', 6, or 6') of the biphenyl. The PCBs without *ortho* substituted chlorines are often referred to as *co-planar* PCBs, but this terminology is not technically appropriate since these PCBs do not easily assume a planar conformation similar to that of the dioxins and furans (WHO, 2001). The *non-ortho* dioxin-like PCBs (i.e., PCBs 77, 81, 126 & 169) bind the AHR and cause dioxin-like toxicity in fish, birds and mammals. The mono-ortho chlorinated dioxin-like PCBs are also able to bind the AHR and cause dioxin-like toxicity in birds and mammals, but generally do not cause dioxin-like responses in fish. The toxicological effects which may occur, as a result of exposure to dioxin-like PCBs in fish, birds and mammals, have been well characterized relative to the other PCBs. Dioxin-like toxicity in ecological receptors has been summarized in the scientific literature and in numerous EPA reports (Peterson et al., 1993; Walker and Peterson, 1994; Niimi, 1996; Hoffman et al., 1996; Rice et al., 2002; ATSDR, 2000; U.S. EPA, 1993, 1995a,b, 2001) and will not be discussed in detail further in this report.

Table 2. Dioxin-Like PCBs

IUPAC #	Homolog Group	Substitution Group	IUPAC Name
non-*ortho* substituted PCBs			
77	tetra-CB	non-ortho	3,3',4,4'-tetra-CB
81	tetra-CB	non-ortho	3,4,4',5-tetra-CB
126	penta-CB	non-ortho	3,3',4,4',5-penta-CB
169	hexa-CB	non-ortho	3,3',4,4',5,5'-hexa-CB
mono-*ortho* substituted PCBs			
105	penta-CB	mono-ortho	2,3,3',4,4'-penta-CB
114	penta-CB	mono-ortho	2,3,4,4',5-penta-CB
118	penta-CB	mono-ortho	2,3',4,4',5-penta-CB
123	penta-CB	mono-ortho	2,3',4,4',5-penta-CB
156	hexa-CB	mono-ortho	2,3,3',4,4',5-hexa-CB
157	hexa-CB	mono-ortho	2,3,3',4,4',5'-hexa-CB
167	hexa-CB	mono-ortho	2,3',4,4',5,5'-hexa-CB
189	hepta-CB	mono-ortho	2,3,3',4,4',5,5'-hepta-

In ecological risk assessments, the dioxin-like PCBs should be included in a cumulative assessment with all other chemicals that act via the same mechanism of action (i.e., AHR agonists such as polychlorinated dibenzo dioxins (PCDDs) and furans (PCDFs)). Presently, the most credible approach for assessing mixtures of dioxin-like chemicals is to apply a toxicity equivalence approach in which the concentrations of the individual dioxin-like congeners are converted to TCDD toxicity equivalence concentrations (TEC) using a toxicity equivalence factor (TEF) or a relative potency factor (RPF). Guidance for applying the toxicity equivalence approach in ecological risk assessment is currently being prepared by EPA's Risk Assessment Forum (U.S. EPA, 2003). For complementary information on applying the toxicity equivalence approach for assessment of PCDDs, PCDFs and dioxin-like PCBs, see van den Berg et al. (1998) and U.S. EPA (2000, 2001).

Certain dioxin-like PCBs may act via multiple toxicity pathways. Hence, while the 12 dioxin-like PCBs are known to cause dioxin-like toxicity via the AHR, the 8 mono-ortho dioxin-like congeners may also act via non-AHR mechanisms to cause additional effects. As other toxic pathways for PCBs are elucidated, it is possible that dioxin-like PCBs may be found to cause adverse effects on additional ecologically-relevant endpoints. At this time, information about the mechanisms of action and dose-response relationships in ecological receptors is insufficient to allow assessment of dioxin-like PCBs on the basis of non-AHR mediated pathways. However, a number of studies of effects of PCB mixtures in wildlife species (including both laboratory and field exposure scenarios) have shown that most, if not all, toxicity caused by the mixtures (e.g. Aroclors) can be attributed to the TCDD equivalence concentration (TEC) of the mixture (Walker et al., 1996; Tillitt et al., 1996; Tillitt and Wright, 1997; Giesy and Kannan, 1998).

2.5 Non-Dioxin-Like Congeners

The 197 PCB congeners which were not discussed in the previous section are currently referred to collectively as "non-dioxin-like" congeners. These congeners are also often referred to as the "non-coplanar" or "*ortho*-substituted" congeners. However, experts attending an international World Health Organization Consultation in 2001 established preference for the biologically-based term "non-dioxin-like" for several reasons, the most compelling being that even the non-ortho substituted PCBs are not strictly planar in configuration and some *ortho*-substituted PCB congeners have both dioxin-like and non-dioxin-like activity (WHO, 2001). As more research is conducted on these congeners it is likely that they will be classified more specifically into additional subsets based on toxicological effects endpoints (e.g., endocrine active PCBs; neurotoxic PCBs, immunotoxic PCBs; etc.) and/or mechanisms of action (estrogen receptor agonists/antagonists; serotonin biosynthesis inhibitors; etc.). Current knowledge of non-AHR-mediated effects of PCBs are the subject of Part 4 of this report.

3. Detection, Transport and Disposition of PCBs in the Environment

3.1 Analytical Methods for Detection of PCBs

The various congener-specific analytical methods have been reviewed in detail elsewhere; several recent reviews are summarized here. The second edition of a book dedicated to this topic, *Analytical Chemistry of PCBs*, was published in 1997 (Erickson, 1997). Analytical methods are reviewed more briefly in a recent compilation of papers presented at a PCB workshop held in 2000 (Robertsen and Hansen, 2001). Frame (2001) presents a concise overview of various analytical methods for quantifying PCBs, dedicating most of the text to "the *ultimate* PCB mixture analytical procedure" he refers to as Comprehensive, Quantitative, Congener-Specific (CQCS) PCB Analysis. EPA's Method 1668A is highlighted and is predicted to become the "gold standard" of CQCS PCB analysis. A more pragmatic presentation of congener-specific methods is provided by Beliveau (2001) of EPA's Region 1. Beliveau also provides an examination of Aroclor and partial congener analyses as well as full references for the various EPA methods for analysis of PCBs in various environmental matrices. Hansen (1999) has compiled important details to consider in interpreting and presenting congener-specific data. U.S. EPA Region 9's Biological Technical Assistance Group has also reviewed various analytical methods for routine congener-specific analysis and report that methods currently available are adequate and cost-effective (Valoppi et al., 1999). This report also presents a phased approach for PCB congener-specific analysis specifically for use within the context of performing site-specific ecological risk assessments.

As European and U.S. regulatory agencies move away from "Total PCB" and Aroclor analyses, it has been recognized that analysis of all possible PCB congeners may not be necessary, possible or practical on a routine basis (WHO, 2001). The analysis of subsets of PCB "indicator-congeners", selected based on abundance, prevalence and distribution in the environment, has been proposed as an approach for hazard identification, estimating exposure, and prioritizing risk assessment activities (WHO, 2001). It should be noted that the WHO expert panel did not support the use of "indicator congeners" for measures of *toxicity* however, due to the limited data available on the effects of non-dioxin-like congeners (WHO, 2001). Hence, while it has been recognized that a full 209 congener-specific analysis may not be necessary for all phases or tiers of risk assessment and efforts are underway to identify subsets of congeners to measure for particular applications (e.g. hazard identification, screening, remedial monitoring, etc.), characterization of the relative contribution of non-dioxin-like PCB congeners to PCB mixture toxicity remains a significant data gap. Several different lists of potential indicator congeners have emerged from various sources (WHO, 2001; Frame, 2001; Valoppi et al., 1999; NOAA, 1993; McFarland and Clarke, 1989). To date, EPA has not established a definitive list of "indicator congeners", standardized an approach for analyzing PCBs nor has any of EPA's programs *promulgated* a congener-specific method (Beliveau, 2001).

3.2 Fate, Transport and Disposition in the Environment

Historically (1930s-1970s), commercial mixtures of PCBs were used worldwide as dielectric fluids in capacitors and transformers, heat transfer fluids, hydraulic fluids, lubricating oils, and additives in pesticides, paints, copy paper, adhesives and plastics (ATSDR, 2000; Hansen, 1999). PCBs have been released into the environment as a consequence of historical use and disposal; releases of newly manufactured PCBs having been stopped within the U.S. since banning of the manufacture and use of PCBs in commerce in the 1970s. Examples of primary sources include landfills, hazardous waste sites, incineration of PCB-containing wastes, leakage from old electrical equipment and improper disposal or spills (ATSDR, 2000).

The fate of individual PCB congeners is determined by both environmental processes and the physical-chemical properties of individual congeners. In general, PCB congeners that are more highly chlorinated and have fewer *ortho* substitutions are less volatile, less water soluble, bind more readily to organic particulate matter and are more amenable to anaerobic dechlorination processes (typically in buried sediments). Thus, these congeners are more prominent in soils and sediments, less prominent in water and in the atmosphere, and have higher bioaccumulation factors (BAFs). Congeners that are less chlorinated and have more ortho substitutions are more volatile, more water soluble and are much more readily metabolized in mammals. Consequently, these congeners are more prominent in the atmosphere, surface waters and in fish from temperate waters (Hansen, 1999). Hydrophobicity is the most important chemical property that controls bioavailability from water, sediment or soils. Hydrophobicity can be estimated by the octanol-water partition coefficient, K_{ow}. Generally, log K_{ow}s for PCBs increase from approximately 3 to 9 as degree of chlorination increases (Hansen, 1999). Hence, lower chlorinated PCBs having lower K_{ow}s are more bioavailable than higher chlorinated congeners having higher K_{ow}s. PCBs that are highly hydrophobic are difficult to measure in water because of the very small concentrations in solution. Conversely, concentrations in surficial sediments or soils are often measurable and can be used effectively to reference each PCB congener's distribution to abiotic and biotic components of the ecosystem. In aquatic ecosystems, concentrations measured in surficial sediments can be used to estimate average concentrations in water.

Specifics regarding non-dioxin-like PCB congener disposition in environmental compartments and transfers among them are detailed by Hansen (1999). A detailed discussion of the dynamics and interplay between these processes is beyond the scope of this document, but have been presented in detail elsewhere for PCBs generally (ATSDR, 2000; Robertson and Hansen, 2001) and for non-dioxin-like congeners specifically (Hansen, 1999).

3.3 Disposition in the Environment: Media

Due to historical releases and redistribution among environmental compartments, PCBs are widely distributed in environmental media and biota. Of the 209 possible congeners,

~113 are found in environmental media and/or biota (McFarland and Clarke, 1989). Reports of PCBs, either measured as total PCBs or Aroclors, in environmental media and biota are abundant in the literature. Fewer congener-specific characterizations are found, especially in the older literature. In the environment, PCBs are always found as mixtures of both dioxin-like and non-dioxin-like PCB congeners. Hansen (1999) provides a more recent summary of the disposition of PCBs in the environment, with special emphasis on the non-dioxin-like congeners. Hansen points out that global disposition may not be relevant to site-specific assessment, but there will always be an atmospherically derived background PCB concentration which will often be regionally similar. While it is possible to generalize about specific congener fate, transport and disposition based on physical-chemical properties of PCBs, ultimately the congener profile of interest for a site-specific ecological risk assessment will be dependent upon the specific congeners present in the source material (e.g., which Aroclors were used/disposed of) and the physical and/or chemical processes relevant for the location. For example, the congener profile present in media and biota at a site where only a single Aroclor mixture was ever used/disposed may be quite different from the profile found at a manufacturing plant which produced the full spectrum of PCB products. The literature is also replete with reports of PCBs in environmental media and organisms from numerous sites around the world. Physical, chemical and ecological similarities (e.g., sources, transport pathways, biological systems – lentic vs. lotic, etc.) between sites may serve as a basis for extrapolating congener profiles.

3.4 Disposition in the Environment: Biota

PCB toxicity cannot be determined simply by examining the environmental concentrations of the congeners. Differential rates of uptake, metabolism and elimination will influence the congener profile to which target tissues are ultimately exposed. Detailed discussions of the disposition of PCBs in various taxa and the role of various toxicokinetic factors that influence the bioaccumulation of PCB congeners is beyond the scope of this report, but have been summarized elsewhere (Hansen, 1999; Robertson and Hansen, 2001; ATSDR, 2000). Some generalizations can be made however. Aquatic invertebrates serve as a major source of PCBs in food chains and seem to retain polar metabolites of metabolizable PCBs, which then biomagnify in the food chain. Uptake of PCBs in fish and invertebrates occurs via contact with media (i.e., respiration of water; contact with sediment), but food chain transfer is a major contributor for predatory organisms. Uptake of PCBs in piscivorous mammals and birds is primarily from ingestion of fish. As a class of compounds, PCBs are relatively resistant to metabolism by animals and the resistence to metabolism increases with degree of chlorination. Most congeners are metabolized to some extent and differential or selective metabolism among species appears to have the greatest influence on net PCB accumulation (Hansen, 1999). PCB congener profiles in mammals are generally similar, but species-specific differences in absorption, disposition and metabolism certainly exist. The PCB congener profiles in fish differ considerably from birds and mammals and consistently include greater proportions of congeners that are more labile in mammals. For example, measurements

of biota-sediment accumulation factors (BSAFs) for fish clearly demonstrate that very few PCB congeners are significantly metabolized, but that PCB 77 is a notable exception (Endicott and Cook, 1994; U.S. EPA, 1995c).

Overviews of dose-, congener-, species- and time-dependent PCB profiles in aquatic and marine food chains is presented by Hansen (1999). McFarland and Clarke (1989) provide a congener-specific summary of the occurrence and abundance of all 209 PCBs found in several classes of animals from various trophic levels collected from several different sites world-wide. Although this paper presents only a "snapshot" of PCB profiles for organisms from specific sites, it provides a template of the sort of data one might desire to collect for an ecological risk assessment. The literature pertaining to bioaccumulation and biotransformation of PCBs in birds has been reviewed by Barron et al. (1995). Bioaccumulation and clearance of 42 individual PCB congeners following exposure of American kestrels to a mixture of Aroclors has been characterized by Drouillard et al. (2001). Congener-specific bioaccumulation of a number of individual PCB congeners in three trophic levels of an aquatic food web has been described and biotransfer factors for four water bird species determined (Zimmermann et al., 1997). Numerous reports document PCB profiles in higher trophic level birds collected from the field (e.g., Custer et al., 2002; Herzke et al., 2002; Elliot et al., 2001; van den Brink and Bosveld, 2001). Information on the PCB profiles present in aquatic and avian species will also serve as a basis for examining exposure of wildlife mammals via ingestion of such species.

4. Biological Effects of Non-Dioxin-Like PCBs

Some non-dioxin-like PCBs have been shown to elicit different types of responses than the dioxin-like PCBs, including neurological, neuroendocrine, endocrine, immunological and carcinogenic effects. These effects occur via multiple toxicity pathways, not involving the AHR. Currently, only a small number of individual non-dioxin-like PCBs have been linked to any one of these effects and it should be realized that a single congener may act through one or more pathways. Likewise, some weak dioxin-like congeners, or their metabolites (i.e., mono-ortho chlorinated congeners), may also initiate toxicity via these pathways, independent of the AHR. However, in order to assess risks posed via these toxicity pathways, the pathways must be demonstrated to be active in a particular organism or class of organisms. Furthermore, dose-response relationships for toxicity elicited via these other pathways must be characterized to determine whether effects of non-dioxin-like PCBs are occurring at concentrations less than those elicited by dioxin-like PCBs that are always found in the environment along with the non-dioxin-like PCBs.

While PCBs have been shown to affect various physiological system(s) in some classes of organisms, this is not necessarily the case for all taxa. Table 3 summarizes the toxicity pathways that have, to date, been shown to be affected by non-dioxin-like PCBs and those organisms in which PCBs have elicited effects attributable to those toxicity pathways.

The following sections summarize what is currently known regarding the toxicity pathways activated by non-dioxin-like PCBs in different biological systems. The congener-specific data provided represents the data that currently exists in the literature (i.e., only a very small number of individual congeners have been examined for activity through the various non-dioxin-like toxicity pathways). Lack of mention of a particular congener in association with a toxicity pathway does **not** imply that the congener does not act through this pathway, rather that the congener has not been tested for activity via the pathway. The data presented here should not be interpreted to be all-inclusive, as characterization of non-AHR-mediated effects of PCBs is an active area of research and new data appear in the literature daily.

Table 3. Toxicity Pathways Documented for Non-Dioxin-Like PCBs

	Organism Class			
Toxicity Pathway	Invertebrate	Fish	Birds	Mammals
Narcosis	X	X	X	X
Liver Effects	N/A	?	?	X
Neurochemical / behavioral	?	?	?	X
Endocrine / Neuroendocrine	?	hydroxy PCBs	?	X
Immunological	X	?	?	X

4.1 Toxicity Pathways

Narcosis is a non-specific mechanism of toxicity that may be elicited in any organism by any organic compound, including non-dioxin-like PCBs, at sufficiently high concentrations. Other potential toxicity pathways, such as endocrine/neuroendocrine disruption, neurotoxicity, and immunotoxicity, of non-dioxin-like PCBs are currently being studied in all classes of organisms and as they are elucidated, some toxic effects of non-dioxin-like PCBs observed in any of these classes of organisms may be attributable to them. Non-dioxin-like PCB toxicity occurring via other toxicity pathways has been established for mammals. Although evidence for non-dioxin-like PCB activity via other toxicity pathways in birds, fish and invertebrates is mounting, the majority of information on PCB toxicity has not focused on measures of effects associated with these toxicity pathways. Hence, most PCB toxicity data for birds characterize dioxin-like toxicity and those for fish characterize either narcosis (acute exposures; high concentrations) or dioxin-like toxicity (early life stage toxicity; low concentrations). The bulk of existing data for invertebrates describe their general insensitivity to PCBs, with toxicity observed at high concentrations, consistent with narcosis as the mode of action. It is assumed that non-dioxin-like PCB toxicity that occurs via any of the more specific toxicity pathways will occur at concentrations lower than those which induce narcosis (Carey et al., 1998).

4.1.1 Narcosis

Narcosis, also referred to as "baseline toxicity" or "anesthesia", is elicited by organic chemicals in all organisms given sufficient exposure and assuming a more potent toxicity pathway is not initiated at a lower dose. Narcosis is thought to be initiated through chemical-mediated perturbations of membrane-bound proteins, either through direct interactions or modification of the protein-membrane lipid interface or micro-environment. Narcotic effects are generally considered to be reversible until death occurs. For aquatic organisms, narcosis has been characterized in laboratory toxicity tests, and relationships between octanol/water partition coefficients, lethality and critical body residues are well established. The common toxicity pathway and established concentration-residue-response relationships allow mixtures of chemicals (including PCBs) to be assessed cumulatively using additivity approaches (DiToro and McGrath, 2000; DiToro et al., 2000; Van Leeuwen et al., 1992). Narcotic mode of action and toxicity are summarized concisely by Carey et al. (1998) and presented in detail in numerous reviews (DiToro and McGrath, 2000; DiToro et al., 2000; Bradbury et al., 1989).

Mammals & Birds - Examples of PCB-induced narcosis in laboratory studies for mammals and birds are generally not available because sufficiently high steady-state blood concentrations of PCBs can not be attained through oral exposures. Under chronic exposure scenarios with lower doses, effects of PCBs via AHR-mediated toxicity pathways have been well documented. Likewise, effects that may be found to occur via non-dioxin-like toxicity pathways as described in the following sections would also be expected to occur at concentrations below those which cause toxicity via narcosis (Carey et al., 1998). Therefore, for most ecological risk assessment scenarios, mammalian and avian assessment endpoints should be based on toxicity endpoints other than narcosis.

Fish - Lethality of PCB mixtures (e.g., Aroclors) and individual non-dioxin-like PCBs in fish following acute aqueous exposures are generally attributed to narcosis. For example, there are numerous reports of Aroclor-induced lethality in fish (see ECOTOX/AQUIRE database: www.epa.gov/ECOTOX). The symptomology observed in these tests shows responses characteristic of narcosis and the toxicity can be accurately described using related QSARs (Van Leeuwen et al., 1992; Veith et al., 1983). Other toxic effects of non-dioxin-like PCBs that occur at lower concentrations/doses and through longer exposures, which are elicited through other toxicity pathways (e.g. endocrine disruption), are beginning to be elucidated as described in the following sections. It is anticipated that effects occurring via these more specific toxicity pathways would occur at concentrations below those which cause toxicity via narcosis (Carey et al., 1998).

Invertebrates - Distinction between dioxin-like and non-dioxin-like PCBs in reference to invertebrate toxicity is obviated due to the apparent lack of an AHR-mediated toxicity pathway in this class of organisms. Although AHR homologs have been identified in a variety of invertebrate species (Hahn, 1998) they apparently lack the ability to bind the

prototypical AHR ligands, 2,3,7,8-TCDD and β-naphthoflavone (Butler et al., 2001). Hence, all toxicity elicited by PCB in invertebrates is considered to occur via non-dioxin-like toxicity pathways. Several studies are of particular interest in evaluating the toxicity of individual congeners to invertebrates. These studies include Borgmann et al. (1990; PCB 52 in *Hyalella azteca*), Dillon et al. (1990; PCBs 52, 101, 118, 138, 153, 180 in *Daphnia magna*), Dillon and Burton (1991; PCBs 18, 116, 128, 153, 171, 194 in *Daphnia magna*), Fisher et al. (1999; PCBs 1, 15, 47, 153 in *Lubriculus variegatus*), Smith and Johnston (1992; PCB 15 in shrimp, *Crangon crangon*) and Schweitzer et al. (1997; PCBs 47 and 153 in purple sea urchin, *Stongylocentrotus prupuratus*). The PCB concentrations used in these studies were very high (often exceeding water solubility) and the invertebrates were most often found to be unaffected by the PCBs. A report by Hwang et al. (2001; PCB 153 in *Chironomus riparius*) is a recent addition to the database of effects of PCBs on invertebrate fecundity and development. Comprehensive summaries of toxic effects caused by PCB mixtures and individual PCB congeners in a variety of invertebrates are provided by Niimi (1996) and Jarvinen and Ankley (1999). In those cases where toxicity was observed in these studies, it occurred at relatively high concentrations and was consistent with narcosis (West et al., 1997; Fisher et al., 1999). Many of these studies have been summarized and evaluated by the U.S. EPA for their potential utility for deriving wildlife criteria values (U.S. EPA, 2002).

4.1.2 Liver Effects

Hepatotoxicity of commercial mixtures of PCBs in mammals is well documented and includes a number of endpoints including increased liver weight, biochemical changes (e.g., enzyme induction, porphyrin accumulation), histopathology, and tumors as compiled recently by ATSDR (2000). However, congener-specific effects data, generally, and non-dioxin-like congener effects data, specifically, are quite limited. Furthermore, such endpoints are typically not used as measurement endpoints in ecological risk assessments because it is often difficult to clearly link these effects to adverse outcomes on either individuals or populations of ecological receptors. Although not necessarily useful for ecological risk assessment, a brief summary of reports of liver effects, particularly those that may be useful in distinguishing dioxin-like effects from non-dioxin-like effects, is provided.

A few studies utilizing various mammalian models have examined effects of specific congeners on liver endpoints. The general trend is for the endpoints examined to be responsive to dioxin-like PCBs, but not non-dioxin-like PCBs (reviewed in ATSDR, 2000). Structure-activity relationships for PCB-induced biochemical and histopathological responses are not well established, but have been reviewed previously (Safe, 1994; Marks, 1985). Liver effects in birds and fish have largely been described within the context of dioxin-like effects, or lack thereof. Hence, several non-dioxin-like congeners have been assessed for their ability to cause non-specific liver lesions (e.g., weight changes, protein concentration changes) and/or induce CYP1A, but effects

specific to non-dioxin-like congeners have not been established. These data for mammals, birds and fish are summarized below.

Mammals - Both dioxin-like and non-dioxin-like PCBs are hepatic tumor promoters in rodents. In two-year bioassays of Aroclors 1016, 1242, 1254 and 1260, all of these mixtures were considered carcinogenic, particularly in female rat livers. When the doses of these mixtures were expressed on a TEC basis (i.e., dioxin-like PCBs only), the dose-response relationship for Aroclor-induced tumors in female rat liver is similar to that observed for TCDD, except for the Aroclor 1016 mixture. The Aroclor 1016 mixture contains the lower chlorinated PCBs and has little dioxin-like activity and the carcinogenic effect of this mixture may be attributed to the non-dioxin-like PCBs present. Unlike TCDD, liver tumors were observed in the male rats receiving Aroclor 1260, suggesting that these effects are mediated through pathways other than the Ah receptor.

Other liver effects, including increased liver weight, biochemical changes (e.g., enzyme induction, porphyrin accumulation) were also observed in the aforementioned studies. Similar to the carcinogenic effects, the female rats were more sensitive than the males and Aroclor 1016 was much less potent than the other mixtures. These studies suggest that the hepatic toxicity of mixtures of PCBs are largely due to the dioxin-like congeners in these mixtures (ATSDR, 2000). In mammals, induction of liver enzymes distinct from cytochrome P4501A, namely cytochrome P450s 2A and 3B (CYP2A/3B), have been linked to non-dioxin-like PCBs (reviewed by Bandiera, 2001). Although the molecular mechanism(s) underlying CYP2B/3A induction has not been elucidated, this endpoint, in the absence of CYP1A induction, could be used as a biomarker of non-dioxin-like PCB exposure and/or effects (WHO, 2001; Bandiera, 2001).

Liver porphyrin accumulation in response to PCB exposure, both PCB mixtures and individual PCB congeners, has been studied in several mammalian species (see ATSDR, 2000 for review). Dioxin-like PCB congeners 105, 128 and 126, but not 77, cause porphyrin accumulation in rats (ATSDR, 2000; van Birgelen et al., 1996). In contrast, non-dioxin-like PCB congeners 28, 118, 153 and 156 reportedly are not porphyrinogenic in rats. While a strong association between AHR responsiveness and porphyrinogenic responses indicates that the porphyrinogenic response in mammals is largely AHR-mediated (ATSDR, 2000), non-dioxin-like PCBs have been reported to greatly enhance AHR-mediated porphyrin accumulation. It appears that both dioxin-like and non-dioxin-like PCBs may affect the heme biosynthetic pathway via different molecular mechanisms (van Birgelen et al., 1996; Marks, 1985).

Birds - While induction of cytochrome P450s isozymes other than 1A1 have been associated with exposure to non-dioxin-like PCBs in mammals, this relationship has not been established in birds. Kennedy et al. (1996) have reported induction of EROD activity in chicken embryo hepatocytes treated with the non-dioxin-like congeners #2, 12, 35, 37, 78, 79, 80, 66, 70, 110, 122, 128, 138, 139, 167, 170, 180, and 194. Lorenzen et

al. (1997) report that PCBs 52, 54, 101, 136 and 153 failed to induce EROD activity or CYP1A protein in chicken embryo hepatocytes, but were able to induce porphyrin accumulation at high concentrations. Quail exposed to PCB 153 displayed increased liver weights, but the occurrence of porphyria and CYP1A induction caused the authors to suspect that the PCB was contaminated with dioxin-like congeners, which was confirmed by chemical analysis (Elliot et al., 1997). *In ovo* exposure of chicken eggs to PCB 153 failed to cause liver lesions and other early life stage effects associated with exposure to dioxin-like congeners (Zhao et al., 1997).

Like the CYP1A induction response, the porphyrinogenic response to PCB exposure in birds is not clearly associated with only the dioxin-like PCB congeners. Several studies using chick embryo liver cells show that although dioxin-like PCB congeners are more potent porphyrinogenic agents, certain non-dioxin-like congeners (e.g., 66, 128, 153, 155, (non-dioxin-like) also possess porphyrinogenic activity, albeit much weaker (Goldstein et al., 1976; Kawanishi et al., 1978; Marks, 1985; Sassa et al., 1986). Similarly, Miranda et al. (1987) have reported porphyrinogenic responses in Japanese quail exposed to both PCB 77 (dioxin-like) and 47 (non-dioxin-like). Sassa et al. (1986) have used the chick embryo liver data to demonstrate that porphyrinogenic potency is correlated with chlorine substitution patterns that convey planarity of the PCB molecule. Hence, while the structural determinants for porphyrinogenic potency of dioxin-like PCBs are the same as those which determine AHR responsiveness, it remains to be determined whether non-dioxin-like PCBs may act on the heme biosynthetic pathway via other mechanisms as has been postulated to occur in mammals (van Birgelen et al., 1996).

Fish - While induction of cytochrome P450s isozymes other than 1A1 have been associated with exposure to non-dioxin-like PCBs in mammals, this relationship has not been established in fish. The ability of a few non-dioxin-like PCB congeners to induce CYP1A protein and/or EROD activity has been assessed. PCBs 128 and 138 were tested in scup (*Stenotomus chrysops*) *in vivo* (Gooch et al., 1989); PCBs 128, 138, 153 and 170 were tested in a zebrafish (*Danio rerio*) liver cell line (Henry et al., 2001) and PCB 153 was tested in a topminnow (*Poeciliopsis lucida*) hepatoma cell line (Bruschweiler et al., 1996). None of the non-dioxin-like congeners tested were effective at inducing fish CYP1A. These data do not provide evidence linking non-dioxin-like PCB exposure in fish tissues to an enzyme induction biomarker as has been established in mammals, but they do reinforce the association of CYP1A induction as an effect that is specific to dioxin-like congeners in fish.

4.1.3 Endocrine / Neuroendocrine Function

A broad range of xenobiotics, including PCBs, may have the potential to alter endocrine function. Endocrine disrupting activity is of concern for ecological risk assessment because most physiological, developmental and reproductive processes in both invertebrates and vertebrates are controlled by one or more endocrine systems. Endocrine disruptors may directly or indirectly mimic or inhibit the production or action of a variety

of steroids including estrogens, progestins, androgens, adrenal steroids and thyroid hormones. Individual PCB congeners may act through one or more endocrine pathways to cause effects and individual congeners in a mixture may have opposing activities (e.g., estrogenic and anti-estrogenic). These actions may occur via a variety of molecular or biochemical events in a number of cells, tissues or organs within a given endocrine system (e.g., hypothalamus, pituitary, gonad, thyroid, adrenal, steroid metabolism, etc.). Characterizing the effects of PCBs on the various endocrine systems is further complicated by the fact that the concentrations, actions and potencies of steroids and other endocrine active compounds can vary considerably during different life stages and reproductive cycles. Thus, the potential for PCBs to disrupt endocrine activity will need to be determined on a congener-specific basis to establish structure-activity relationships for specific endocrine effects and subsequently the means to assess cumulative effects of mixtures of environmental congeners.

It is well established that PCBs, including both dioxin-like and non-dioxin-like congeners and hydroxylated metabolites of some congeners (i.e., hydroxylated PCBs) may affect endocrine systems in vertebrates (Cooke et al., 2001). Issues related to the characterization of endocrine-related effects of PCBs have been reviewed in detail elsewhere (Brouwer et al., 1998; ATSDR, 2000; Cooke et al., 2001). PCB-induced endocrine effects are summarized below for mammals, birds fish and invertebrates. The summaries provided focus on effects that have been attributed specifically to non-dioxin-like PCB congeners, but Aroclor effects data are presented if they are the only data available that demonstrates the *potential* for PCB-induced endocrine effects for a class of organisms.

Mammals - Reports of the effects of PCBs on various endocrine systems in mammals following exposure to Aroclors are abundant and have been reviewed elsewhere (ATSDR, 2000; Brouwer et al., 1998). These reports provided the impetus for further investigating the mechanisms underlying such effects and for determining specific PCB congeners that elicit effects through a common pathway. The Aroclor studies will not be discussed further here. The remainder of this section will focus on describing endocrine/neuroendocrine effects for which causality has been unambiguously linked to non-dioxin-like PCB congeners.

Reproductive - Effects of non-dioxin-like PCBs in a variety of mammalian endocrine systems have been described (Cooke et al., 2001; Fischer et al., 1998). Much of the individual congener data has been collected from *in vitro* model systems in an attempt to elucidate the means by which disruption of endocrine pathways can be initiated. For example, several studies have demonstrated that hydroxylated PCBs bind to the estrogen receptor (Layton et al., 2002; Yoon et al., 2001; Matthews and Zacharewski, 2000; Kuiper et al., 1998). Other studies have demonstrated that hydroxylated PCBs inhibit estrogen sulfation that may result in increases in target tissue concentrations of estradiol (Kester et al., 2000). Congener specific data from *in vivo* studies are limited.

Uterotrophic effects of PCB 153 have been observed in immature female rats (Soontornchat et al., 1994). In addition, developmental exposures to a mixture of PCBs has induced feminization of male behavior in rats (Kaya et al., 2002). However, it is possible that these effects are mediated through the actions of dioxin-like PCBs present in these mixtures. While there are limited *in vivo* studies on individual non-dioxin-like PCBs, it is possible that alterations in the developing reproductive and neurological systems from *in utero* and lactational exposure to PCBs is due, in part, to these effects on estrogen catabolism and receptor interactions.

Initial studies indicated that PCB 138 has an antagonistic effect on androgen receptor activity in transiently co-transfected Chinese Hamster ovary cells (Bonefeld-Jorgensen et al., 2001). Portigal et al. (2002) demonstrated in an *in vitro* system that Aroclors 1260, 1254, 1248, and 1242 antagonize androgen receptor-mediated gene transcription induced by dihydrotestosterone. Three individual congeners lacking dioxin-like activity (congeners 42, 128 and 138) have been tested and were also anti-androgenic in this system (Portigal et al., 2002). A number of studies have demonstrated that either mixtures of PCBs or individual congeners inhibit rat testicular steroid biosynthesis and the authors of the studies suggest this effect is not mediated through the AHR (Kovačević et al., 1995; Andric et al., 2000a,b). However, the importance of these mechanisms in the reproductive and developmental effects of PCBs is uncertain.

Thyroid - A number of studies have demonstrated that both dioxin-like and non-dioxin-like PCBs decrease serum thyroid hormone concentrations. The non-dioxin-like PCBs, while much less potent than the dioxin-like PCBs, produce greater than a 90% decrease in serum thyroxine concentrations. In comparison, the dioxin-like PCBs are much more potent, but only produce a 40-50% decrease in serum thryoxine (Craft et al., 2002). Two different mechanisms have been proposed for the decreases in serum thyroid hormones by PCBs. A number of studies have demonstrated that PCB mixtures or individual congeners increase hepatic thyroxine glucuronidation by inducing UDPGT isoforms (Craft et al., 2002; Hood and Klaassen, 2000). The induction of thryoxine glucuronidation increases the biliary elimination of thyroid hormones (Vansell and Klaassen, 2002a,b). A second mechanism may be the interaction of PCBs with transthyretin (Chauhan et al., 2000). Transthyretin is a serum transport protein for thyroid hormones and certain non-dioxin-like PCBs can displace thyroid hormones from binding to this site and potentially increasing their hepatic uptake and elimination (Chauhan et al., 2000). However, while a number of non-dioxin-like congeners have this activity, so do some dioxin-like congeners (Chauhan et al., 2000). Other potential mechanisms may involve alterations in thyroid hormone sulfation pathways by PCBs (Kester et al., 2000).

Thyroid hormones are critical in the development of the central nervous system. Perinatal exposures to PCBs that result in decreases in thyroid hormones in neonatal rats is associated with decreases in ototoxicity (Goldey et al., 1995). The ototoxicity can be ameliorated by administration of exogenous thyroxine, suggesting the ototoxicity is due

to the hypothyroxinemia (Goldey and Crofton, 1998). In humans, background exposures to PCBs have been associated with decreases in serum thyroid hormones in infants (Koopman-Esseboom et al., 1994). While these changes are also associated with neurological developmental delays (Koopman-Esseboom et al., 1997), it is uncertain whether these associations are causal. Once again, few studies have examined individual non-dioxin-like PCBs for these developmental effects and the role of the dioxin-like chemicals present in these mixtures remains a confounder in ascribing these effects solely to the non-dioxin-like PCBs.

Birds - Effects of PCBs on endocrine endpoints in birds is actively being explored, but currently available studies are largely limited to Aroclor or field exposures. No studies describing endocrine effects attributable specifically by non-dioxin-like PCBs in birds have been reported.

***Reproductive* -** Plasma androgen and estrogen concentrations were unaffected in American kestrels (*Falco sparverius*) exposed to a mixture of Aroclors 1248, 1254 and 1260 although the altered courtship behaviors, reproduction and fertility was attributed to non-persistent, non-dioxin-like congeners, based on bioaccumulation and clearance rates measured for individual PCB congeners (Fisher et al., 2001; Fernie et al., 2001a,b; Drouillard et al., 2001). No correlations were found between steroid hormone concentrations and PCB concentrations in common tern eggs collected from the field (French et al., 2001; Nisbet et al., 1996). However, common tern embryos collected from a site contaminated with an unusual mixture of congeners comprised predominantly of less chlorinated congeners displayed ovarian morphology indicative of feminization. While correlations between feminization and individual PCB congeners measured in the embryos were not statistically significant, the authors noted that the strongest correlation was found between concentrations of PCB 29, which is structurally similar to PCBs 30 and 61. The hydroxylated metabolites of these two congeners are strongly estrogenic (Korach et al., 1988). The authors also report that extracts of these tern eggs were found to be estrogenic in an estrogen receptor binding assay (Hart et al., 1998).

Thyroid - The role of thyroid hormones in normal behavior and development in wildlife and the evidence supporting potential disruption of this pathway by xenobiotics have been reviewed recently (Colborn, 2002; Brucker-Davis, 1998). Abnormal thyroid gland development and aberrant thyroid hormone levels have been widely reported in birds; however, clear association between such endpoints and ecologically relevant adverse effects and specific environmental contaminants are lacking (Colborn, 2002). Association between thyroid effects and PCB exposure is further complicated by the fact that thyroid disruption may be mediated via both AHR- and non-AHR-mechanisms.

In ovo exposure of chicken embryos to Aroclors 1242 and 1254 decrease plasma thyroxine concentrations and reduce activity of hepatic type I monodeiodinase, an enzyme responsible for thyroid hormone homeostasis (Gould et al., 1999; Quinn et al., 2002).

Neither PCB 54 or PCB 80 (non-dioxin-like) caused similar effects; however, the authors propose that the effects are mediated via a non-dioxin-like mechanism because PCB 77 (dioxin-like) also did not produce the effects. Aroclor 1254 has also been reported to decrease plasma thyroid hormone (T3; triiodothyronine) and increase thyroid gland weight in adult mallards (Fowles et al., 1997).

The use of Aroclor mixtures in all the studies described above does not allow a clear causal relationship between exposure to non-dioxin-like PCB congeners and endocrine effects in birds to be established at this time. However, Janz and Bellward (1996a,b) have provided a body of evidence demonstrating that *in ovo* exposure of birds to TCDD had no effect on plasma thyroid hormone concentrations, plasma sex hormone concentrations or hepatic estrogen receptors in several species of birds (chicken, pigeon, great blue heron). Taken together, these data implicate non-dioxin-like congeners in the etiology of endocrine effects observed in birds exposed to Aroclors.

Fish - A variety of xenobiotics cause endocrine disruption in fish, but data regarding endocrine activity of PCBs are generally limited and the majority of existing data are for Aroclors.

Reproductive - In Atlantic salmon the non-dioxin-like PCB congeners 58, 104, 112 and 188 were not estrogenic as measured by induction of the egg yolk protein vitellogenin, a hallmark for estrogenic activity in oviparous animals. However, the authors note that the route of exposure that was used (intraperitoneal) may not have provided an accurate assessment (Norrgren et al., 1999). Hydroxylated metabolites of PCB 9, 15, 18 and 61 have been tested for their ability to bind to Atlantic croaker estrogen receptor, but only hydroxylated PCB 61 displayed affinity (Loomis and Thomas, 1999). Hydroxylated PCB 30 also has affinity for Atlantic croaker progestogen receptor (Thomas et al., 1998). Hydroxylated PCBs, OH-30, OH-50, OH-72 and OH-112 were found to induce vitellogenin in rainbow trout hepatocytes *in vitro* and OH-30 was more active than the other congeners (Andersson, et al., 1999). Hydroxylated metabolites of PCB 30 and PCB 61 were estrogenic *in vivo*, as measured by vitellogenin induction, in rainbow trout (*Oncorhynchus mykiss*) with OH-PCB 30 approximately 100-fold more potent than OH-PCB 61 (Carlson and Williams, 2001).

Thomas and co-workers have tested several Aroclor mixtures for their ability to bind progesterone, estrogen and androgen receptors from the marine fishes, spotted seatrout (*Cynoscion nebulosus*) and Atlantic croaker (*Micropogonias undulatus*) (Thomas, 2000; Sperry and Thomas, 1999; Loomis and Thomas, 1999; Pinter and Thomas, 1997). Overall, the Aroclors tested (1210 and 1254) either showed no or very low binding affinity toward these fish receptors (Thomas, 2000). Aroclor 1254 bound to a small degree to carp estrogen receptor, but the affinity was so low that incomplete binding curves were not obtainable (Kloas et al., 2000). Thomas and co-workers have also complemented these binding studies with *in vivo* studies that demonstrate that Aroclor

1254 interferes with the neuroendocrine system in fish at the level of the hypothalamus and results in effects throughout the brain-pituitary-gonadal axis of Atlantic croaker (Khan et al., 2001; Khan and Thomas, 2001, 2000, 1996). These studies with Aroclors serve well as screens for potential endocrine activity within the mixture of PCB congeners, but do not allow an assessment of the activity of specific non-dioxin-like congeners.

Thyroid - Abnormal thyroid gland development and aberrant thyroid hormone levels have been widely reported in fish; however, clear association between such endpoints and ecologically relevant adverse effects and specific environmental contaminants are lacking (Colborn, 2002). The role of thyroid hormones in normal behavior and development in wildlife and the evidence supporting potential disruption of this pathway by xenobiotics have been reviewed recently (Colborn, 2002; Brucker-Davis, 1998). While disruption of the thyroid hormone system in fish by PCB mixtures (Besselink et al., 1996) and dioxin-like PCBs (Palace et al., 2001; Adams et al., 2000) has been reported, effects of non-dioxin-like PCBs are essentially unexplored.

With the exception of a few hydroxylated metabolites, virtually all studies of potential effects of PCBs on fish endocrine systems have been conducted using Aroclors. The Aroclor data indicate that PCB mixtures do have endocrine activity in fish, but do not allow assignment of the activity to either dioxin-like or non-dioxin-like congeners, since both types of PCBs may act as endocrine disruptors (Cooke et al., 2001). The lack of congener-specific data on endocrine activity in fish also precludes making informed cross-species comparisons or extrapolations.

Invertebrates - The vertebrate steroid hormones (e.g., estrogens, androgens, etc.) are found in some invertebrate phyla. In echinoderms and deuterostomes they perform essentially the same functions (i.e., sex differentiation and reproduction) as in vertebrates, but their functions in other invertebrate phyla are not clear. In invertebrates, many processes and functions controlled by hormones are unique to this class of organisms. Therefore, any comprehensive assessment of xenobiotics to act as potential endocrine disruptors, must include studies in these systems. Given that invertebrates do not possess an AHR that binds prototypical dioxin-like compounds (Butler et al., 2001), it may be concluded that any endocrine effects observed in invertebrates do not occur via an AHR-mediated pathway.

Endocrine disruption by environmental contaminants in invertebrates has received less attention than for vertebrates, hence very little data are available regarding endocrine disruption in general, and data on the potential endocrine activity of PCBs and/or their metabolites are even more scarce. To date, studies on endocrine disruption in invertebrates have focused on disruption of growth and/or developmental processes (e.g., molting, metamorphosis and regeneration) and reproduction in insects and crustaceans which are known to be controlled by hormones. Aroclor 1242 and the non-dioxin-like

congener, PCB 29, has been reported to increase molting time, a process regulated by ecdysteroid hormones, in *Daphnia magna* (Zou and Fingerman, 1997a,b). The authors hypothesized that this effect occurred as a result of competitively blocking the endogenous ecdysteroids from binding to the ecdysteroid receptor (EcR). Oberdorster et al. (1999) tested the ability of Aroclor 1254 to interact with the *Drosophila* EcR and activate gene transcription *in vitro* and found no effect, neither agonistic nor antagonistic, on the reporter-gene. Aroclors 1242 and 1254 are mixtures of both dioxin-like and non-dioxin-like congeners, with PCB 29 present in 1242 but not in 1254. Hence both studies provide some information regarding what PCB congeners may be potential ecdysone pathway disruptors in invertebrates.

Summary - PCBs have been shown to have the *potential* to disrupt the endocrine systems of fish, birds and mammals. Conclusive evidence for PCB-induced endocrine effects in invertebrates is lacking. For fish and birds, endocrine activity cannot currently be assigned to specific PCB congeners, because virtually all studies of effects on endocrine endpoints have been conducted using Aroclors. However, hydroxylated metabolites of certain PCB congeners appear to be consistently estrogenic across animal classes. In mammals, more data on individual congeners are available and some structure-activity relationships are emerging, but the total number of congeners that have been assessed for effects on the various endocrine systems is quite small relative to the number of congeners present in the environment.

4.1.4 Neurochemical / Neurobehavioral Function

A number of studies have demonstrated associations between PCB exposure and developmental delays in humans. One of the difficulties in interpreting theses studies is the co-exposure to dioxins. In experimental animals, both dioxin and non-dioxin-like PCBs induce developmental neurotoxicity (reviewed in Seegal, 2001; Fischer et al., 1998). The present data, while suggesting that non-dioxin-like PCBs are developmental neurotoxicants, do not allow for a rigorous analysis of the role of the non-dioxin-like vs. dioxin-like PCBs in these effects.

Mammals - Both dioxin-like and non-dioxin-like PCBs have been shown to have biochemical effects on the central nervous system. A number of *in vitro* studies have demonstrated that some of the non-dioxin-like PCBs are neuroactive. Some PCBs decrease catecholamine concentrations, particularly dopamine, in the central nervous system (Seegal et al., 1986; Seegal, 2001; Fischer et al., 1998). Structure-activity relationship studies indicate that the non-dioxin-like PCBs are the more active congeners (Shain et al., 1991). Others have reported alterations in calcium, protein kinase C, and phorbol ester signaling in brain tissues by the non-dioxin-like PCBs (Kodavanti and Tilson, 1997; Fischer et al., 1998). These studies suggest potential mechanisms by which the non-dioxin-like PCBs could be neurotoxic. However, the available data on the developmental neurotoxicity of individual PCBs is limited. While qualitative descriptions of the developmental neurotoxicity of the non-dioxin-like PCBs is possible,

quantitatively describing these effects following exposure to complex mixtures of PCBs is currently not possible.

Birds - Neurotoxic effects of non-dioxin-like PCBs in birds have not been reported in the literature. Aroclor 1254 has been demonstrated to reduce neurotransmitter concentrations in brains of ring doves, and the author of this study suggests that these biochemical affects could result in abnormal behaviors (Heinz et al., 1980). Consistent with this hypothesis, Aroclor exposures have elicited behavioral effects in birds. Male kestrels exposed to a mixture of Aroclors 1248, 1254 and 1260, exhibited more sexual and flight behaviors than control animals (Fisher et al., 2001) and Aroclor 1254 affected courting and nesting behaviors in mourning doves (Tori and Peterle, 1983), but because PCB mixtures were used in these studies, it is impossible to attribute the effects to any specific congener(s).

Fish - As mentioned previously, Thomas and co-workers have demonstrated that Aroclor 1254 affects the neuroendocrine system in Atlantic croaker. Endocrine effects have been linked to specific actions on neural tissues (e.g. hypothalamus) and neurotransmitter synthesis pathways (Khan et al., 2001; Khan and Thomas, 2001, 2000, 1996). These studies demonstrate PCBs can affect neural tissues in fish and provide a mechanistic connection between the neurotoxicity and impaired gonadal growth observed in fish exposed to Aroclor 1254. However, because these studies were conducted with a PCB mixture, the neurological effects cannot be attributed specifically to non-dioxin-like PCB congeners.

Invertebrates - A recent study (Smith et al., 1999) demonstrated that exposure of the embryonic marine invertebrate, *Spisula*, to Aroclor 1254 resulted in decreased growth of serotonergic cells. The effect of Aroclor 1254 was dose-dependent, but it is unknown whether the effect is attributable to dioxin-like PCBs, non-dioxin-like PCBs, or both. However, the absence of a functional AHR in invertebrates (Butler et al., 2001) indicates the effects are likely mediated through non-dioxin-like pathway(s). Regardless of the PCB congener(s) involved, this biochemical effect has not been linked to adverse outcomes on either individuals (e.g. mortality) or populations (e.g. fecundity) of invertebrates, hence the toxicological significance of the effect for this class of organisms remains to be established.

Summary - Neurotoxic effects of PCB mixtures in mammals have provided much of the impetus for exploring effects of non-dioxin-like PCB congeners. Neurochemical effects of several non-dioxin-like congeners have been characterized in a number of mammalian cells/tissues (Fischer et al., 1998; Seegal, 2001). Neurotoxic effects of PCBs, dioxin-like or non-dioxin-like, have not been reported in birds. To date, reports of PCB-induced neurotoxicity in fish and invertebrates are limited to biochemical effects of PCB mixtures on specific neuroendocrine or neurological cells/tissues.

4.1.5 Immune Function

Of environmental contaminants studied thus far, PCBs are among the most potent immunotoxicants (Carey et al., 1998). They have been documented to affect the immune systems of multiple species of mammals, birds and fish (Tryphonas, 1995). These effects may include structural alterations of components (e.g., thymus, lymphocytes) or altered function (e.g., antibody production, hypersensitivity) of the immune system. The mechanism(s) by which PCBs are thought to cause immunotoxicity are described by Tryphonas and Feeley (2001). Effects of various Aroclors on several morphologic and functional endpoints of rodent, guinea pig, rabbit and chicken immune systems are summarized by Tryphonas and Feely (2001) and reviewed in detail elsewhere (Tryphonas, 1994).

Mammals - Immunotoxic effects of PCBs have been well studied in rodents and primates. The mammalian evidence indicates that PCBs may have a number of effects on the immune system and that the immune system is one of the most sensitive targets for PCB-induced toxicity (Tryphonas and Feely, 2001). Immunotoxicity data has been collected from studies with Aroclors as well as from individual congeners. In general, higher chlorinated Aroclors (i.e., 1248, 1254 and 1260) are more immunotoxic than lower chlorinated Aroclors (i.e., 1016, 1232 and 1248) (Carey et al., 1998). Much of the congener specific data focus on dioxin-like PCBs. These data are consistent with the Aroclor data, indicating that the dioxin-like congeners exert their immunotoxic effects via the AHR and are more potent immunotoxicants than the non-dioxin-like congeners.

While the data on the dioxin-like congeners include measures of functional effects on the immune system, the data for non-dioxin-like PCBs focus solely on changes in biochemical parameters of specific immune components and have been observed at high concentrations of PCBs. For example, Ganey and colleagues (Fischer et al., 1998) have demonstrated that PCBs alter neutrophil degranulation through a mechanism independent of the AHR. However, it is uncertain if these changes result in alterations in immune integrity. In addition, some of the non-dioxin-like congeners appear to antagonize the immunotoxic effects of dioxin-like congeners, but do so through non-AHR mediated mechanisms (Tryphonas and Feely, 2001). Smialowicz et al. (1997) demonstrated that PCB 153 can enhance the immune response to sheep red blood cells as determined in a plaque forming cell assay. PCB effects on the mammalian immune system have been reviewed in detail elsewhere (Tryphonas, 1994; Tryphonas and Feely, 2001).

Birds - Effects of PCBs on immunological endpoints in birds is largely unexplored and existing studies are limited to Aroclor or field exposures. No studies of immunological effects caused specifically by non-dioxin-like PCBs in birds have been reported. PCB concentrations in plasma and eggs of field exposed Caspian terns have been correlated with immunotoxicity measured by T lymphocyte function and antibody production; however, the changes in the specific endpoints measured also correlated with DDE concentrations in the terns (Grasman and Fox, 2001). Antibody production was affected

in kestrels exposed either via food or *in ovo*, to a mixture of Aroclors 1248, 1254 and 1260 (Smits and Bortolotti, 2001). In contrast, antibody production was not affected in progeny of chickens fed Aroclors 1232, 1242, 1248 and 1254, although spleen and bursa weights were found to be decreased by these Aroclors (Harris et al., 1976). Subchronic exposure of adult male mallards to Aroclor 1254 resulted in no immunotoxic effects, as measured by a battery of immune endpoints, several of which were the same as those measured in the tern and kestrel studies (Fowles et al., 1997). Hence, no clear causal relationship between PCB exposure and immunotoxicity in birds has so far emerged. Because dioxin and dioxin-like PCB congeners have also been reported to cause immune effects in birds (Powell et al., 1996a,b; Hoffman et al., 1996; Nikolaidis et al., 1988), future studies that aim to assess the potential impacts of PCBs on bird immune function should be designed to discern immunological effects caused by dioxin-like and non-dioxin-like congeners.

Fish - Effects of PCBs on immune function in fish have not been reported in the literature.

Invertebrates - Effects of non-dioxin-like PCB 15 on the immune system of the common shrimp (*Crangon crangon*) has been described (Smith and Johnston, 1992). In the same study, dioxin-like PCB 77 also caused the same effect, but this response was considered equivocal based on the magnitude of the response and dose-response relationship observed.

Summary - PCB mixtures have been demonstrated to cause immunological effects in mammals, but effects attributable specifically to non-dioxin-like congeners have not been clearly delineated. Reports of effects of PCB mixtures on immune endpoints in birds are mixed and no data are available which describe exposure and/or effects specifically for non-dioxin-like congeners. PCB-induced immune effects in fish are unstudied. A single study provides some evidence that non-dioxin-like congeners may have immune effects in invertebrates.

4.2 Relative Toxicity of Non-Dioxin-Like vs. Dioxin-Like PCBs

As evidenced by the data review provided in the previous section, most studies of the toxicity of PCBs have focused on either commercial mixtures, concentrated environmental samples or laboratory defined mixtures. All three of these approaches result in mixtures that contain both dioxin-like and non-dioxin-like PCBs. In these studies, it is often difficult to qualitatively determine the relative contribution of dioxin-like and non-dioxin-like PCBs to the toxic effects observed. Quantitative assessments of the role of these chemicals is simply not possible using these study designs. Although PCBs are frequently characterized as dioxin-like and non-dioxin-like, this characterization is an overly simplified description of a structurally diverse class of chemicals. The toxicity of a number of the dioxin-like PCBs have been fairly well characterized. However, these congeners represent just 12 of the 209 possible PCBs.

The remaining PCBs are structurally diverse and may act via one or more toxicity pathways; hence from a mode of action perspective, characterizing them as a single class is inappropriate. Most of the congener-specific toxicity data for these non-dioxin-like PCBs is focused on less than a dozen congeners. Hence, while a compilation of data comparing dioxin-like and non-dioxin-like effects levels (e.g., NOAELs, LOAELs, EC50s, etc.) would be helpful in assessing the relative toxicity of PCB congeners, the limited amount of congener-specific data currently available severely limits the utility of such an exercise.

Presently, it is unclear how to apply this limited congener-specific toxicity data to the assessment of complex mixtures found in environmental samples. In the following discussion, these limitations are described in greater detail for specific toxicity responses. One approach taken in these analyses is to examine the contribution of the dioxin-like effects to the toxic response and determine if the use of the toxicity equivalence methodology would be protective of wildlife species.

4.2.1 Mammals

Relatively few studies are available that characterize the toxicity of non-dioxin-like PCBs individually. Studies of the commercial mixtures indicate that the more sensitive effects described to date are mediated by the dioxin-like chemicals present in these mixtures. For example two different lots of Aroclor 1254 have been examined in a series of studies (Burgin et al., 2001; Kodavanti et al., 2001). These two lots differ in the concentrations of dioxin-like PCB congeners and PCDF contaminants. The toxicity equivalence methodology adequately predicted some responses that were clearly mediated by the Ah receptor. However, effects on thyroid hormones, oxidative stress, Ca^{2+} buffering and phosphokinase C translocation in brain preparations were not predicted by the toxicity equivalence methodology. It is uncertain whether these effects are due solely to the non-dioxin-like chemicals or due to interactions between dioxin-like and the non-dioxin-like chemicals. The data are presently insufficient to ascribe specific effects solely to the non-dioxin-like PCBs present in these mixtures.

Using the available data on neurotoxicological endpoints characterized in mammals, Giesy and Kannan (1998) performed an analysis of the relative toxicity of dioxin-like and non-dioxin-like PCBs to mink. They concluded that it is unlikely for the neurotoxic effects caused by non-dioxin-like PCBs to be critical based on 1) the high concentrations of di-ortho substituted PCB congeners needed to elicit neurotoxic responses; 2) the propensity for the most neurotoxic congeners to be those that are less chlorinated and therefore more easily metabolized and excreted and less bioaccumulative; and 3) field studies indicating that neuroactive congeners do no accumulate to sufficient levels in feral animals (Giesy and Kannan, 1998).

4.2.2 Birds

An evaluation of the relative importance of non-dioxin-like PCB congener toxicity in birds is hindered by lack of data. Evidence from both laboratory and field studies is sufficient to conclude that PCBs produce a wide spectrum of toxic effects in birds, including effects that have been associated with non-dioxin-like PCBs in mammals (e.g., endocrine disruption, neurotoxicity, immunotoxicity). However, the use of Aroclor or field exposures in virtually all studies of PCB effects in birds precludes characterizing the toxicity(ies) that are attributable specifically to non-dioxin-like congeners. Additional studies are needed to establish that non-dioxin-like congeners are toxic in birds and to characterize the type(s) of effects endpoints that are affected by these congeners. Furthermore, it is necessary to demonstrate that non-dioxin-like effects result in whole organism responses that are ecologically relevant (i.e., adverse effects on survival, growth or reproduction) and to evaluate the potential for significant ecological outcomes (e.g. population effects) due to such effects.

4.2.3 Fish

Very few studies are available that characterize toxicity of non-dioxin-like PCB congeners in a manner sufficient for use in ecological risk assessment. The only individual non-dioxin-like congeners studied *in vivo* in fish are PCBs 4, 52, 128, 138 and 170 (Gooch et al., 1989; Zabel et al., 1995). Each of these studies has been summarized (Jarvinen and Ankley, 1999; U.S. EPA, 2002) and evaluated by the U.S. EPA for their potential utility for deriving wildlife criteria values (U.S. EPA, 2002). It should be noted that endpoints evaluated in these studies were those associated with AHR-mediated (dioxin-like) toxicity (e.g. induction of CYP1A; early life stage edema/mortality syndrome) and typically these endpoints have been unresponsive to the non-dioxin-like congeners. So, while these studies can be used to establish no effects levels for dioxin-like endpoints and in establishing effects endpoints that may be used to distinguish among dioxin-like and non-dioxin-like congeners, they do not provide for characterizing non-dioxin-like effects. Available data indicate that non-dioxin-like PCBs and/or their hydroxylated metabolites have the *potential* to cause toxicity via disruption of neuroendocrine pathways, but further studies are needed to demonstrate that the effects endpoints described to date result in whole organism responses that are ecologically relevant (i.e., adverse effects on survival, growth or reproduction) and to evaluate the potential for significant ecological outcomes (e.g. population effects) due to such effects.

4.2.4 Invertebrates

It has been demonstrated that a wide variety of invertebrates including amphipods, cladocerans, midges, mosquito larvae, sandworms, oligochaete worms, snails, clams and grass shrimp are insensitive to dioxin and PCB-induced toxicity (West et al., 1997; Barber et al., 1998; Fisher et al., 1999; see U.S. EPA, 1993 and 2002 for summaries and references prior to 1998). Reported effects of PCBs in invertebrates include arrested development and decreased growth, depressed reproduction and decreased survival. In those cases where toxicity was observed in these studies, it occurred at high

concentrations and was attributed to narcosis (West et al., 1997; Fisher et al., 1999). Clear evidence that PCBs can cause endocrine disruption, neurotoxicity or immunotoxicity in invertebrates at sub-narcotic concentrations is generally lacking.

Acute effects occur at low mg/kg tissue concentrations and chronic effects generally occur at concentrations about an order of magnitude lower than those that cause acute toxicity (these effects concentrations are also consistent with narcosis as the mode of action) . For aquatic organisms, these tissue-residue concentrations are associated with µg/L water concentrations (Jarvinen and Ankley, 1999). While toxicity has been evaluated for a few individual PCBs congeners (Dillon et al., 1990; Dillon and Burton, 1991; Fisher et al., 1999), the majority of studies have been conducted with PCB mixtures (e.g., Aroclors; see Jarvinen and Ankley, 1999) which does not allow determination of the toxicity contributed by non-dioxin-like congeners.

5. Consideration of Non-Dioxin-Like PCBs in Ecological Risk Assessment

5.1 Non-Dioxin-Like Effects Endpoints

Collectively, data currently available from field studies and PCB mixture exposures provide evidence to indicate that wildlife species are susceptible to effects from non-dioxin-like PCBs. However, the existing data are inadequate for use in quantitative ecological risk assessments for several reasons. First, many of the non-dioxin-like PCB effects so far described are specific to particular cells/tissues and/or species (e.g., biochemical changes; neurotoxic effects) or could also be induced by dioxin-like PCBs (e.g., thyroid effects; immunotoxic effects). Furthermore, lack of well-defined dose-response relationships for most of the non-dioxin-like effects does not allow for assessment of the sensitivity of non-dioxin-like effects relative to dioxin-like effects. Finally, even for endpoints for which there may be well defined dose-response relationships (e.g. certain biochemical, cellular and tissue level effects), clear linkages between such effects and typical assessment endpoints in ecological risk assessments (e.g., growth, survival and reproduction) have not been demonstrated.

5.2 Relative Contribution of Dioxin-Like and Non-Dioxin-Like PCBs

5.2.1. Exposure

Environmental PCB congener profiles: 1) often deviate considerably from original commercial PCB mixtures; 2) always include both non-dioxin-like PCBs and dioxin-like PCBs; 3) are often predominately non-dioxin-like congeners on a mass basis. Acknowledging the fact that commercial PCB mixtures (e.g., Aroclors) do not represent environmental exposures, experts at a recent WHO consultation concluded that additional toxicological studies using such mixtures should not be considered relevant from an environmental risk assessment perspective (WHO, 2001). The consultation recommended that future studies aimed at determining exposure levels at which non-

dioxin-like effects occur be conducted using reconstituted mixtures resembling environmental exposures (WHO, 2001). Any evaluation of exposures to the non-dioxin-like PCBs must also include consideration of factors which may vary among the dioxin-like and non-dioxin-like congeners, such as: 1) appropriate dose metric, e.g. lighter chlorinated, relatively volatile, less persistent congeners may be more appropriately measured in air and water than sediments or soils; 2) temporal relationship between exposure and effects, e.g., exposures to some neurotoxic non-dioxin-like congeners during development appear to cause permanent effects; 3) sensitive organisms and/or life stages, e.g., disruption of thyroid system during developmental stages may affect neurological development. However, the modes of action and dose-response relationships by which non-dioxin-like effects are elicited must be better defined before many of these exposure considerations can be accommodated in risk assessments.

5.2.2. Effects

As documented in Section 4, the available data provide evidence that PCB mixtures are likely active via several potential modes of action in mammalian, avian and piscine wildlife. Due to exposure regimens (e.g. Aroclors) and/or effect endpoints, it is rarely possible, however, to attribute any effects specifically to non-dioxin-like PCB congeners. Several previous analyses have indicated that reproductive and/or developmental effects of Aroclors on fish, birds and mammals can be attributed to the TEC (TCDD equivalence concentration) concentration of the mixture, suggesting that the dioxin-like congeners were primarily responsible for the Aroclor toxicity. However, as documented in Section 4, to date non-dioxin-like effects have rarely been looked for (especially in non-mammalian species) and dose-response relationships that are necessary to evaluate relative thresholds among effects are non-existent. The WHO consultation (2001) acknowledged these data gaps and recommended that studies should be conducted with the goal of determining if adverse effects caused by non-dioxin-like PCBs occur at exposure levels less than those caused by dioxin-like PCBs. In summary, the data currently available are not sufficient to assess the relative contributions of dioxin-like and non-dioxin-like congeners to PCB mixture toxicity with any degree of certainty.

5.2.3. Risk

Although current evidence indicates that the greatest potential for effects on endpoints of most concern for ecological receptors (e.g., growth, survival, reproduction) from exposure to PCB mixtures is from the dioxin-like congeners (Giesy and Kannan, 1998; Rice et al., 2002), risk estimates based solely on the 12 dioxin-like PCBs may underestimate the total PCB risk. Given that non-dioxin-like PCBs always occur as mixtures with dioxin-like PCBs and the dioxin-like effects occur at extremely low concentrations, some have assumed that assessment based on the dioxin-like congeners will be protective against potential effects from the non-dioxin-like congeners (Giesy and Kannan, 1998). Others recommend a dual track assessment of both the dioxin-like PCBs and total PCBs (Rice et al., 2002), because so little is currently known regarding the potential effects of the non-dioxin-like congeners. A dual analysis of risks based on total

PCBs and on toxicity equivalence concentrations for dioxin-like PCBs is an approach that may be taken to assess PCB mixtures (Beltman et al., 1997; Brunstrom and Halldin, 2000; Finley et al., 1997; Giesy and Kannan, 1998; note, however, that these examples do not incorporate the 1998 taxa-specific WHO TEFs). EPA currently recommends this combined approach for assessing PCB cancer risks to humans (U.S. EPA, 1996). As more information becomes available about the toxicity mechanisms and relative potency of specific non-dioxin-like PCB congeners, alternative methods for assessing their risk will likely emerge.

Currently, the lack of data regarding the toxicity endpoints and dose-response relationships for non-dioxin-like PCBs precludes performing quantitative ecological risk assessments for these congeners, either individually or cumulatively. This problem is not unique to ecological risk assessment. A 2001 WHO consultation was convened to evaluate the toxicological properties of non-dioxin-like PCBs in the context of human health risk assessment (WHO, 2001). Experts at this workshop considered and evaluated the available exposure, toxicity and epidemiological data for non-dioxin-like PCBs. It was concluded that an in-depth evaluation of all scientific data on PCBs needs to be conducted before a decision can be made as to the necessity or possibility of conducting separate risk assessments for non-dioxin-like PCBs.

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APPENDIX 1: Nomenclature & Log K_{ow}s

PCB NOMENCLATURE: HOMOLOGS

IUPAC #	IUPAC Name	CASRN	IUPAC #	IUPAC Name	CASRN
	Monochlorobiphenyl	27323-18-8		Hexachlorobiphenyl	26601-64-9
	Dichlorobiphenyl	25512-42-9		Heptachlorobiphenyl	28655-71-2
	Trichlorobiphenyl	25323-68-6		Octachlorobiphenyl	55722-26-4
	Tetrachlorobiphenyl	26914-33-0		Nonachlorobiphenyl	53742-07-7
	Pentachlorobiphenyl	25429-29-2			

PCB NOMENCLATURE: MIXTURES

IUPAC #	IUPAC Name	CASRN	IUPAC #	IUPAC Name	CASRN
	Aroclor 1016	12674-11-2		Aroclor 1248	12672-29-6
	Aroclor 1210	147601-87-4		Aroclor 1250	165245-51-2
	Aroclor 1216	151820-27-8		Aroclor 1252	89577-78-6
	Aroclor 1221	11104-28-2		Aroclor 1254	11097-69-1
	Aroclor 1231	37234-40-5		Aroclor 1260	11096-82-5
	Aroclor 1232	11141-16-5		Aroclor 1262	37324-23-5
	Aroclor 1240	71328-89-7		Aroclor 1268	11100-14-4
	Aroclor 1242	53469-21-9		Aroclor (unspecified)	12767-79-2

PCB NOMENCLATURE: DIOXIN-LIKE PCBs

IUPAC #	IUPAC Name	CASRN	IUPAC #	IUPAC Name	CASRN
77	3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	118	2,3',4,4',5-Pentachlorobiphenyl	31508-00-6
81	3,4,4',5-Tetrachlorobiphenyl	70362-50-4	123	2,3',4,4',5'-Pentachlorobiphenyl	65510-44-3
126	3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	156	2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4
169	3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	157	2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7
105	2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	167	2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6
114	2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9

PCB NOMENCLATURE & log K_{ow}s: CONGENERS

IUPAC #	IUPAC Name	CASRN	log K_{OW}
Monochlorobiphenyls			
1	2-Chlorobiphenyl	2051-60-7	4.46
2	3-Chlorobiphenyl	2051-61-8	4.69
3	4-Chlorobiphenyl	2051-62-9	4.69
Dichlorobiphenyls			
4	2,2'-Dichlorobiphenyl	13029-08-8	4.65
5	2,3-Dichlorobiphenyl	16605-91-7	4.97
6	2,3'-Dichlorobiphenyl	25569-80-6	5.06
7	2,4-Dichlorobiphenyl	33284-50-3	5.07
8	2,4'-Dichlorobiphenyl	34883-43-7	5.07
9	2,5-Dichlorobiphenyl	34883-39-1	5.06
10	2,6-Dichlorobiphenyl	33146-45-1	4.84
11	3,3'-Dichlorobiphenyl	2050-67-1	5.28
12	3,4-Dichlorobiphenyl	2974-92-7	5.22
13	3,4'-Dichlorobiphenyl	2974-90-5	5.29
14	3,5-Dichlorobiphenyl	34883-41-5	5.28
15	4,4'-Dichlorobiphenyl	2050-68-2	5.30
Trichlorobiphenyls			
16	2,2',3-Trichlorobiphenyl	38444-78-9	5.16
17	2,2',4-Trichlorobiphenyl	37680-66-3	5.25
18	2,2',5-Trichlorobiphenyl	37680-65-2	5.24
19	2,2',6-Trichlorobiphenyl	38444-73-4	5.02
20	2,3,3'-Trichlorobiphenyl	38444-84-7	5.57
21	2,3,4-Trichlorobiphenyl	55702-46-0	5.51
22	2,3,4'-Trichlorobiphenyl	38444-85-8	5.58
23	2,3,5-Trichlorobiphenyl	55720-44-0	5.57
24	2,3,6-Trichlorobiphenyl	55702-45-9	5.35
25	2,3',4-Trichlorobiphenyl	55712-37-3	5.67
26	2,3',5-Trichlorobiphenyl	38444-81-4	5.66
27	2,3',6-Trichlorobiphenyl	38444-76-7	5.44
28	2,4,4'-Trichlorobiphenyl	7012-37-5	5.67
29	2,4,5-Trichlorobiphenyl	15862-07-4	5.60
30	2,4,6-Trichlorobiphenyl	35693-92-6	5.44
31	2,4',5,-Trichlorobiphenyl	16606-02-3	5.67
32	2,4',6-Trichlorobiphenyl	38444-77-8	5.44
33	2,3',4'-Trichlorobiphenyl	38444-86-9	5.60
34	2,3',5'-Trichlorobiphenyl	37680-68-5	5.66
35	3,3',4-Trichlorobiphenyl	37680-69-6	5.82
36	3,3',5-Trichlorobiphenyl	38444-87-0	5.88
37	3,4,4'-Trichlorobiphenyl	38444-90-5	5.83
38	3,4,5-Trichlorobiphenyl	53555-66-1	5.76
39	3,4',5-Trichlorobiphenyl	38444-88-1	5.89
Tetrachlorobiphenyls			
40	2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66
41	2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69
42	2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76
43	2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75
44	2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75
45	2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53
46	2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	5.53
47	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85
48	2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78
49	2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85
50	2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63
51	2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63
52	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84
53	2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62
54	2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21
55	2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11
56	2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11
57	2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17
58	2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	6.17
59	2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95
60	2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11
61	2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04
62	2,3,4,6-Tetrachlorobiphenyl	54230-22-7	5.89
63	2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17
64	2,3,4',6-Tetrachlorobiphenyl	52663-58-8	5.95
65	2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.86
66	2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.20
67	2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.20
68	2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.26
69	2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04
70	2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.20
71	2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98
72	2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26
107	2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.71
108	2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71

PCB NOMENCLATURE & log K_{ow}s: CONGENERS

IUPAC #	IUPAC Name	CASRN	log K_{OW}
73	2,3',5',6-Tetrachlorobiphenyl	74338-23-1	6.04
74	2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.20
75	2,4,4',6-Tetrachlorobiphenyl	32598-12-2	6.05
76	2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13
77	3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36
78	3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35
79	3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42
80	3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48
81	3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36
Pentachlorobiphenyls			
82	2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.20
83	2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.26
84	2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	6.04
85	2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.30
86	2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.23
87	2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.29
88	2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	6.07
89	2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.07
90	2,2',3,4',5-Pentachlorobiphenyl	68194-07-0	6.36
91	2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13
92	2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35
93	2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04
94	2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13
95	2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	6.13
96	2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71
97	2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29
98	2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13
99	2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39
100	2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23
101	2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.38
102	2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16
103	2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22
104	2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81
105	2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65
106	2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64
143	2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.60
144	2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67
145	2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25
109	2,3,3',4,6-Pentachlorobiphenyl	74472-35-8	6.48
110	2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48
111	2,3,3',5,5'-Pentachlorobiphenyl	39635-32-0	6.76
112	2,3,3',5,6-Pentachlorobiphenyl	74472-36-9	6.45
113	2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54
114	2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65
115	2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49
116	2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33
117	2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46
118	2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74
119	2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58
120	2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79
121	2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.64
122	2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64
123	2,3',4,4',5'-Pentachlorobiphenyl	65510-44-3	6.74
124	2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73
125	2,3',4',5',6-Pentachlorobiphenyl	74472-39-2	6.51
126	3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89
127	3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95
Hexachlorobiphenyls			
128	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74
129	2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.73
130	2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.80
131	2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58
132	2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58
133	2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86
134	2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55
135	2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64
136	2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22
137	2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83
138	2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83
139	2,2',3,4,4',6-Hexachlorobiphenyl	56030-56-9	6.67
140	2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67
141	2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82
142	2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51
179	2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36
181	2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11

PCB NOMENCLATURE & log K_{ow}s: CONGENERS

IUPAC #	IUPAC Name	CASRN	log K_{OW}
146	2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89
147	2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.64
148	2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73
149	2,2',3,4',5',6-Hexachlorobiphenyl	38380-04-0	6.67
150	2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32
151	2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64
152	2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22
153	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92
154	2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76
155	2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41
156	2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18
157	2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18
158	2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	7.02
159	2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24
160	2,3,3',4,5,6-Hexachlorobiphenyl	41411-62-5	6.93
161	2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08
162	2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24
163	2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.99
164	2,3,3',4',5',6-Hexachlorobiphenyl	74472-45-0	7.02
165	2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05
166	2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93
167	2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27
168	2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11
169	3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42
Heptachlorobiphenyls			
170	2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27
171	2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11
172	2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33
173	2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02
174	2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11
175	2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	7.17
176	2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76
177	2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08
178	2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14
182	2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.20
183	2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.20
184	2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85
185	2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11
186	2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69
187	2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17
188	2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82
189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71
190	2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46
191	2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55
192	2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52
193	2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52
Octachlorobiphenyls			
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.80
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56
196	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65
197	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.30
198	2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62
199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62
200	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	7.20
201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27
202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24
203	2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65
204	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.30
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8.00
Nonachlorobiphenyls			
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09
207	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71
Decachlorobiphenyls			
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18

Footnotes:

Dioxin-like congeners are indicated by shading.

log K_{ow} values are from Hawker and Connell, 1988.

APPENDIX 2: ERASC Request

ECOLOGICAL RISK ASSESSMENT SUPPORT CENTER REQUEST FORM

Request #0002: What are the non-dioxin-like effects of PCBs and how can they be evaluated in ecological risk assessments?

Requestor : Bruce Duncan (R10)

Background: EPA is developing a framework (using TEFs) to estimate the dioxin-like effects of PCB congeners. It is unclear whether the n-d-l effects can also be significant at the same time. The n-d-l effects will be from a different suite of congeners and via a different mechanism. The ERAF needs to move from evaluating PCBs as totals or aroclors (or even homologues) to evaluating congeners for the range of effects these congeners elicit.

Expected Outcome:
1. Describe the mode of action of non-dioxin-like compounds and types of effects in receptors (i.e., those congeners that "travel" with the listed dioxins, furans, and PCBs but just don't act via the Ah receptor).
2. Discuss n-d-l toxicity relative to congener characteristics (something like a QSAR discussion).
3. Discuss which congeners are of greatest concern (potency) for n-d-l toxicity (dose/response type information in the narcotic range of effects).
4. Recommend how this scientific information on action, effects, and toxicity should be used in ecological risk assessment where PCBs are present (preferred use of the data, considerations for site-specific application, etc.).
5. Discuss whether a general narcosis model can or should be used to evaluate n-d-l effects (as a function of range of contaminant concentration typically seen at low, medium, and highly contaminated sites) - see below as well.
6. Provide an interactive video-conference on this topic and the one related to congener analytical methodology.

Additional Comments :
Summarize and update from the recent review of n-d-l activity. Find an example or two of sites where TEF and n-d-l approaches were used or recommend how they would be used at an example site (example of application).

Method used to derive CBB	n	10th percentile
Data from all reviewed studies		
NOEC	10	0.13
LOEC	24	0.52
Data from all reviewed studies; data where it is uncertain whether reported results are wet or dry weight, field collected fish studies deleted; tissue results other than whole body deleted.		
NOEC	5	0.91
LOEC	12	1.44
Only data from studies that report both a NOEC and a LOEC, screened using criteria below		
NOEC	4	0.62
LOEC	4	1.72
Data screened using criteria below		
NOEC	3	0.56
LOEC	11	1.3
Data screened using criteria below; studies where it is not clear whether the reported residue is wet or dry weight deleted		
NOEC	2	1.15
LOEC	8	1.32
Tissue residue effect concentrations derived for salmonids, Meador et al 2002		
LOEC	15	0.14
Tissue residue effect concentrations derived for salmonids, Meador et al 2002. Results from injection studies, studies where measured effect is not ecologically relevant deleted		
LOEC	7	0.23

Hudson River TRVs: NOEC and LOEC from a single study, uncertainty factor of 10 appled to reported NOEC and LOEC

NOEC	0.19
LOEC	0.93

LCP TRVs: Hudson River TRVs revised based on comments from PRP contractors

NOEC	0.38
LOEC	1.86

Screening criteria: (from Steevens et al. 2005)
Laboratory studies with single chemical exposures
Clearly ecological significant endpoints (survival, growth, reproduction)
If multiple studies on a species, only the lowest reported LOEC

Common name	Scientific name	Lipid % ww	Lipid % dw	NOEC (mg/kg ww)	LOEC (mg/kg ww)	NOEC (mg/kg dw)	LOEC (mg/kg dw)	TRV, ug/g lipid	LC50 (mg/kg ww)	Route of exposure	Life stage	Duration of Exposure	Duration of experiment	Observed effect	Reference	Notes
Minnow	Phoxinus phoxinus			15	170					diet	adult	45 days	300 days	sign.decrease I hatchability of eggs	Bengtsson 1980	
Minnow	Phoxinus phoxinus			1.6	15					diet	adult	45 days	300 days	Sign. Reduction in time to hatch, death of fry within 1 week of hatching	Bengtsson 1980	
Atlantic salmon	Salmo salar			1.1	2.8					water	eyed embryos	48 hours	176 days post-exposure	Sign. Increase in vulnerability to predation	Fisher et al. 1994	PCB concentration measured in 91-day old fry (7-day embryo concentration in this group, 14.163 mg/kg)
Atlantic salmon	Salmo salar			0.139	0.516					water	yolk-sac larvae	3 weeks	1 year	reduction in preference for seawater during smolting	Lerner et al 2007	Dry versus wet not stated.
Atlantic salmon	Salmo salar			0.173	0.529					water	smolts	3 weeks	3 weeks	reduction in preference for seawater	Lerner et al 2007	Dry versus wet not stated.
	Fundulus heteroclitus			0.42	1.3					diet	adult exposed/2 generations observed	6 weeks	14 weeks	increased growth	Matta et al. 2001	Dry versus wet weight not stated
Zebrafish	Danio rerio			1.1	2.7					diet				Decrease in median larval survival time	Orn et al. 1998	liver and ovary removed before PCB conc. Measured (not whole-body)
Lake trout	Salvelinus namaycush			0.00052						oral gavag	adult	single dose	427	growth	Brown et al. 2004	muscle tissue. Data reported as TCDD-TEQs (2.6 ng/kg) for PCB 126
Coho salmon	Oncorhynchus kisutch			0.782						diet	juvenile		35 days	Growth in treated fish greater than in controls	Gruger et al. 1976	
Rainbow trout	Salmo gairdneri			80.1						diet		330 days		growth	Nestel and Budd 1975	Wet versus dry weight not stated
Rainbow trout	Salmo gairdneri			0.28						water	fry	30 days		increased sensitivity to rotenone and 2,4-D	Bills et al 1981	Dry versus wet weight not stated
Rainbow trout	Salmo gairdneri			0.46						water	fry	30 days		increased sensitivity to cyanide	Bills and Marking 1977	Dry versus wet weight not stated
Atlantic salmon	Salmo salar	4.2	21	1.1		5.5	26.2			water	eyed embryos	48 hours	176 days post-exposure	Sign. Decrease in growth	Fisher et al. 1994	PCB concentration measured in 7-day old embryos
Rainbow trout	Salmo gairdneri			1.42							sac fry	2 months	14 months	decreased growth	Hendricks et al 1981	Exposure was to adult via diet
Lake trout	Salvelinus namaycush			1.53						water	fry	176 days		mortality	Berlin et al. 1981	
Lake trout	Salvelinus namaycush			2.25		9				water	fry	52 days	52 days	Increased growth	Mac and Seelye 1981b	water only
Lake trout	Salvelinus namaycush			2.98		11.9				water	fry	52 days	52 days	Increased growth	Mac and Seelye 1981b	water + solvent
Rainbow trout	Salmo gairdneri			3.4						water	fry	30 days		increased sensitivity to chromium	Bills and Marking 1977	Dry versus wet weight not stated
Chinook salmon	Oncorhynchus tshawytscha			3.7						water	sac fry	15 days	31 days	mortality	Broyles and Noveck 1979	
Lake trout	Salvelinus namaycush			4.5						water and diet	fry	48 days		mortality	Mac and Seelye 1981a	
Arctic charr	Salvelinus alpinus			8.366						oral	adult	single dose	four months	decreased survival when exposed to diseased fish	Maule et al. 2005	Fish not fed during experimental period to mimic seasonal fasting period in arctic fish
Lake trout	Salvelinus namaycush			8.7						water	sac fry	15 days	24 days	mortality	Broyles and Noveck 1979	
Lake trout	Salvelinus namaycush			12.48							adult males			Sign. Higher fry mortality	Mac et al. 1985	Field collected fish--other COCs present

Channel catfish	Ictalurus punctatus		14.33		diet	fingerlings	20 weeks		decreased growth	Hansen et al. 1976	Dry versus wet weight not stated; Whole fish minus stomach and contents
Lake trout	Salvelinus namaycush		15.6			adult females			Sign. Higher fry mortality	Mac et al. 1985	Field collected fish--other COCs present
Guppy	Poecilla reticulata		55	220	diet	one-year old males	65 days		sign. Increase in mortality	Opperhuizen and Schrap 1988	Probably dry weight tissue concentration
Brook trout	Salvelinus fontinalis		8.2	32.8	water	adult	21 days	21 days	Decrease in percent of eggs hatched	Freeman and Idler1975	PROBABLY DRY WEIGHT TISSUE CONCENTRATION, muscle tissue only
		Geo mean	0.6	3.8							
		10th percentile	0.13	0.52							
		25th percentile	0.23	1.39							
		Median	0.941	3.19							
		n	10	24							

When not given in paper, dry weight to wet weight conversion done using 75% water value for bony fishes in U.S. EPA 1993

Bengtsson, B. E. 1980. Long-term effects of PCB (Clophen A50) on growth, reproduction and swimming performance in the minnow, Phoxinus phoxinus. Water Res. 14: 681-687.

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Common name	Scientific name	Lipid % ww	Lipid % dw	NOEC (mg/kg ww)	LOEC (mg/kg ww)	NOEC (mg/kg dw)	LOEC (mg/kg dw)	TRV, ug/g lipid	LC50 (mg/kg ww)	Route of exposure	Life stage	Duration of Exposure	Duration of experiment	Observed effect	Reference	Notes
Minnow	Phoxinus phoxinus			1.6	15					diet	adult	45 days	300 days	Sign. Reduction in time to hatch, death of fry within 1 week of hatching	Bengtsson 1980	
Minnow	Phoxinus phoxinus			15	170					diet	adult	45 days	300 days	sign.decrease I hatchability of eggs	Bengtsson 1980	
Atlantic salmon	Salmo salar			1.1	2.8					water	eyed embryos	48 hours	176 days post-exposure	Sign. Increase in vulnerability to predation	Fisher et al. 1994	PCB concentration measured in 91-day old fry (7-day embryo concentration in this group, 14.163 mg/kg)
Zebrafish	Danio rerio			1.1	2.7					diet				Decrease in median larval survival time	Orn et al. 1998	liver and ovary removed before PCB conc. Measured (not whole-body)
Coho salmon	Oncorhynchus kisutch			0.782						diet	juvenile		35 days	Growth in treated fish greater than in controls	Gruger et al. 1976	
Atlantic salmon	Salmo salar	4.2	21		1.1		5.5	26.2		water	eyed embryos	48 hours	176 days post-exposure	Sign. Decrease in growth	Fisher et al. 1994	PCB concentration measured in 7-day old embryos
Rainbow trout	Salmo gairdneri				1.42						sac fry	2 months	14 months	decreased growth	Hendricks et al 1981	Exposure was to adult via diet
Lake trout	Salvelinus namaycush				1.53					water	fry	176 days		mortality	Berlin et al. 1981	
Lake trout	Salvelinus namaycush				2.25		9			water	fry	52 days	52 days	Increased growth	Mac and Seelye 1981b	water only
Lake trout	Salvelinus namaycush				2.98		11.9			water	fry	52 days	52 days	Increased growth	Mac and Seelye 1981b	water + solvent
Chinook salmon	Oncorhynchus tshawytscha				3.7					water	sac fry	15 days	31 days	mortality	Broyles and Noveck 1979	
Lake trout	Salvelinus namaycush				4.5					water and diet	fry	48 days		mortality	Mac and Seelye 1981a	
Arctic charr	Salvelinus alpinus				8.366					oral	adult	single dose	four months	decreased survival when exposed to diseased fish	Maule et al. 2005	Fish not fed during experimental period to mimic seasonal fasting period in arctic fish
Lake trout	Salvelinus namaycush				8.7					water	sac fry	15 days	24 days	mortality	Broyles and Noveck 1979	

Geo mean	1.9	4.6
10th percentile	0.91	1.44
25th percentile	1.10	2.25
Median	1.1	2.98
n	5	13

When not given in paper, dry weight to wet weight conversion done using 75% water value for bony fishes in U.S. EPA 1993

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Common name	Scientific name	Lipid % ww	Lipid % dw	NOEC (mg/kg ww)	LOEC (mg/kg ww)	Geometric mean of NOEC and LOEC	Route of exposure	Life stage	Duration of Exposure	Duration of experiment	Observed effect	Reference	Notes
Minnow	Phoxinus phoxinus			1.6	15	4.9	diet	adult	45 days	300 days	Sign. Reduction in time to hatch, death of fry within 1 week of hatching	Bengtsson 1980	
Atlantic salmon	Salmo salar			1.1	2.8	1.8	water	eyed embryos	48 hours	176 days post-exposure	Sign. Increase in vulnerability to predation	Fisher et al. 1994	PCB concentration measured in 91-day old fry (7-day embryo concentration in this group, 14.163 mg/kg)
	Fundulus heteroclitus			0.42	1.3	0.7	diet	adult exposed/2 generations observed	6 weeks	14 weeks	increased growth	Matta et al. 2001	Dry versus wet weight not stated
Zebrafish	Danio rerio			1.1	2.7	1.7	diet				Decrease in median larval survival time	Orn et al. 1998	liver and ovary removed before PCB conc. Measured (not whole-body)
			Geo mean	0.9	3.5								
			10th percentile	0.62	1.72								
			25th percentile	0.93	2.35								
			Median	1.1	2.75								

When not given in paper, dry weight to wet weight conversion done using 75% water value for bony fishes in U.S. EPA 1993

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Arctic charr	Salvelinus alpinus				8.366					oral	adult	single dose	four months 176 days	decreased survival when exposed to diseased fish	Maule et al. 2005	Fish not fed during experimental period to mimic seasonal fasting period in arctic fish
Atlantic salmon	Salmo salar	4.2	21		1.1		5.5	26.2		water	eyed embryos	48 hours	post-exposure	Sign. Decrease in growth	Fisher et al. 1994	PCB concentration measured in 7-day old embryos
Brook trout	Salvelinus fontinalis				8.2		32.8			water	adult	21 days	21 days	Decrease in percent of eggs hatched	Freeman and Idler1975	PROBABLY DRY WEIGHT TISSUE CONCENTRATION, muscle tissue only
Channel catfish	Ictalurus punctatus				14.33					diet	fingerlings	20 weeks		decreased growth	Hansen et al. 1976	Dry versus wet weight not stated; ERED indicates is wet wt conc. Whole fish minus stomach and contents
Chinook salmon	Oncorhynchus tshawytscha				3.7					water	sac fry	15 days	31 days	mortality	Broyles and Noveck 1979	
Guppy	Poecilla reticulata				55		220			diet	one-year old males	65 days		sign. Increase in mortality	Opperhuizen and Schrap 1988	Probably dry weight tissue concentration
Lake trout	Salvelinus namaycush				1.53					water	fry	176 days		mortality	Berlin et al. 1981	
Minnow	Phoxinus phoxinus			1.6	15					diet	adult	45 days	300 days	Sign. Reduction in time to hatch, death of fry within 1 week of hatching	Bengtsson 1980	
Rainbow trout	Salmo gairdneri				1.42						sac fry	2 months	14 months	decreased growth	Hendricks et al 1981	Exposure was to adult via diet
Zebrafish	Danio rerio			1.1	2.7					diet				Decrease in median larval survival time	Orn et al. 1998	liver and ovary removed before PCB conc. Measured (not whole-body)
	Fundulus heteroclitus			0.42	1.3					diet	adult exposed/2 generations observed	6 weeks	14 weeks	increased growth	Matta et al. 2001	Dry versus wet weight not stated

Geo mean	0.9	4.7
10th percentile	0.56	1.30
25th percentile	0.76	1.48
Median	1.1	3.7
n	3	11

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Belted Kingfisher (C*eryle alcyon*), wet weight version

Life History

The belted kingfisher is a pigeon-sized, territorial bird that is the only kingfisher present throughout most of North America (Bull and Farrand 1977; NGS 1987). During the breeding season, kingfishers occur throughout much of the United States and Canada, excepting high elevation areas. Kingfishers overwinter throughout much of their breeding range, but will migrate if ice accumulation limits food availability. Migrating kingfishers may travel as far south as northern South America (Hamas 1994).

The kingfisher is characterized by a blue-gray back and head with a white collar and stout bill. The male can be identified from the female by a blue-gray band across its breast, whereas the female has a second, rust-colored band across her belly. Kingfishers grow to 11 to 14 inches long from head to tail for both males and females. Rattling calls identify and help the kingfisher aggressively defend its territory (Cassidy 1990).

Belted kingfishers utilize a variety of freshwater and coastal habitats, including ponds, lakes, rivers, streams, reservoirs, large vernal pools, estuaries, and harbors. Kingfishers prefer calm, clear waters free of floating debris and dense aquatic plants. They also require foraging perches along water bodies from which they can hunt (Hamas 1994).

Food items include primarily shallow water fish, although crayfish, frogs, small snakes, salamanders, insects, crabs, and even mice may be consumed (Hayward 1885; Bull and Farrand 1977; Landrum *et al.* 1993). Dives for fish are quick, vertical, and loud. Belted kingfishers are reported to consume fish ranging in size from 2.45 to 17.78 centimeters (cm) in length, with the average size of fish consumed being less than 7.6 cm total length (Salyer and Lagler 1946). Most fish are caught by kingfishers within 60 cm of the water surface (Hamas 1994). It is estimated that a pair of kingfishers with nearly fledged young require approximately 90 fish per day to feed their offspring and themselves (Landrum *et al.* 1993). Vessel (1978) determined that a nestling can consume 11.2 fish per day during its maximum growth stage.

This species is solitary with the exception of the nesting season. Breeding times for this species vary with locale. Unseasonably mild weather may initiate early nesting in the lower United States. The presence of herbaceous cover and good fishing habitat are the basis for the selection of breeding areas and nest sites. Nests consist of stream bank or shoreline burrows, and vary in length depending upon the soil texture. Burrows are typically three to seven feet long (White 1953). Although usually near water, nests have been found up to 1.6 kilometers (km) away from water. A clutch of five to eight eggs are usually laid between early April and mid-June. Incubation lasts for 25 days with nest occupation for an additional 23 days. Both parents incubate the eggs (Bent 1940; Cassidy 1990; Landrum *et al.* 1993). Chicks grow rapidly during the first ten days, reach a maximum weight near the end of the third week of the nestling period, but lose weight before fledging (Vessel 1978; Albano 2000). Young leave the nest after 33 to 38 days. Young are able to capture live prey about a week after fledging. Fledglings remain near the nest and juveniles disperse by mid-summer (Bent 1940; Cassidy 1990; Landrum *et al.* 1993).

Males generally do not readily leave their territories and will remain there throughout the winter as long as ice does not impede fishing. Females typically migrate southward and return to the same mate and nesting site every year. The likelihood of migration for both males and females appears to depend on the severity of the winter (Landrum *et al.* 1993; Hamas 1994; DeGraaf and Yamasaki 2001).

Predators include raptors, especially accipters and hawks. Belted kingfishers escape predators by diving into the water. Nest predators include mammals and snakes, typically skunks, raccoons, and mink (White

1953; Hamas 1994). Belted kingfishers are relatively short-lived compared to most piscivorous birds. Juvenile mortality is high. If a bird survives to breed in its first year, it might be expected to live to the age of 2 to 3 years. The oldest age recorded by U.S. Fish and Wildlife Service banding records is 3 years, 8 months (Albano 2000; Lane *et al.* 2004). Albano (2000) reported one female that lived to at least 4 years of age.

Exposure Profile

The belted kingfisher was selected as a surrogate to model the effects of contaminants on an upper trophic level aquatic bird species. The belted kingfisher is highly adaptable and the presence of man-induced disturbances would not minimize use of the site by this species. For this risk assessment, conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average or midpoint of the values located for this species.

Reported body weights for adult belted kingfishers range from 104.3 to188.8 grams (g) (Baldwin and Kendeigh 1938; Poole 1938; Salyer and Lagler 1946; Murray and Jehl 1964; Alexander 1977; Clench and Leberman 1978; Vessel 1978; Brooks and Davis 1987; Fry and Fry 1992; Hamas 1994; Albano 2000). Body weight varies seasonally. Males are heaviest prior to pair formation, and they lose weight during burrow excavation. Females are heaviest just prior to egg-laying. Both sexes lose weight during the period where they are providing food to nestlings; weight is lowest during the late nestling stage (Albano 2000). A conservative body weight of 104.3 g and a representative body weight of 149.3 g will be used in this risk assessment.

Belted kingfishers feed mainly on shallow water fish, although crayfish, frogs, small snakes, salamanders, insects, crabs, and even mice may also be consumed (Hayward 1885; White 1936; Salyer and Lagler 1946; White 1953; Eipper 1956; Alexander 1977). Crayfish have been reported as a substantial component of the kingfisher diet in several studies (Salyer and Lagler 1946; Eipper 1956; Alexander 1977; Steinmetz *et al.* 2003). For this risk assessment, it will be assumed that the diet of a belted kingfisher is comprised of 100 percent (%) fish.

Food ingestion rates reported for adult belted kingfishers range from 0.031 to 0.1009 kilograms per day (kg/day) wet weight (Alexander 1977; Vessel 1978; Kelly 1998). A higher food ingestion rate was reported for a nestling (0.1984 kg/day; White 1936), however only one bird was observed and there is no information on whether the bird was food limited prior to observation; therefore this study was not included. A conservative food ingestion rate of 0.1009 kg/day and a representative food ingestion rate of 0.0574 kg/day will be used for this risk assessment.

The allometric equation developed by (Calder and Braun 1983) was used to estimate the water ingestion rate using the equation: water ingestion (liters per day; L/day) = 0.059 $Wt^{0.67}$, where Wt. is BW in kg). Using the above body weights, conservative and representative water ingestion rates of 0.013 L/day and 0.0165 L/day were calculated, respectively.

An incidental sediment ingestion rate could not be identified for the belted kingfisher. To evaluate this exposure pathway, a model was developed that predicted the amount of sediment which may be entrained in the digestive system of a fish, the bluegill (*Lepomis machrochirus*). This was assumed to be the primary mechanism by which a piscivorous bird such as the belted kingfisher may incidentally ingest sediment.

Belted kingfishers are reported to consume fish ranging in size from 2.45 to 17.78 cm in length, with the average total length consumed less than 7.6 cm (Salyer and Lagler 1946). In keeping with the

conservative approach of this risk assessment, the amount of sediment entrained in fish 178 mm long was predicted. The standard weight of a 178 mm bluegill was calculated to be 122.6 g based on the following algorithm relating length to weight (Hillman 1982):

$$\log \text{Weight (g)} = -5.374 + 3.316 \log \text{Length (mm)}$$

A study evaluating the stomach contents of 153 bluegills reported an average content of detritus and sediment to be 9.6 % of the total diet. A daily food ingestion rate of 1.75 % of the body weight per day has been reported for the bluegill (Kolehmainen 1974). This provides a predicted intake rate of 2.15 g of food per day for a 122.6 g fish. If a conservative assumption is made that 9.6 percent of the food ingested is entirely sediment, it can be predicted that a fish of this size may contain 0.206 g of sediment in its digestive system.

For the purpose of this model, it was assumed that the level of sediment contained in the digestive system of a fish remains constant over time. This value (0.206 g) was divided by the predicted fish body weight (122.6 g) to express sediment entrained in fish digestive systems in units of grams of sediment per gram of fish body weight. This provided a value of 0.0017 g sediment/g body weight. When this value is multiplied by the conservative food ingestion rate of the belted kingfisher (100.9 g/day), the predicted sediment ingestion rate for the kingfisher is 0.17 g/day. When this value is multiplied by the representative food ingestion rate of the belted kingfisher (57.4 g/day), the predicted sediment ingestion rate for the kingfisher is 0.1 g/day.

Belted kingfishers defend two types of territories: the breeding territory and the foraging territory. The size of the breeding territory and fledging success appear to be related to the concentration of prey (Davis 1982). The home range of this species varies seasonally and is usually reported as meters of shoreline (Landrum *et al.* 1993). Home range sizes ranging from 389.3 to 8045 m of shoreline have been reported for this species (Salyer and Lagler 1946; Cornwell 1963; Davis 1982; Brooks and Davis 1987; Mazeika *et al.* 2006). A conservative home range size of 389.3 m and a representative home range size of 2485 m will be used in this risk assessment.

In summary, the food chain model parameters for the belted kingfisher are as follows:

Conservative Scenario:

BW:	0.1043 kg
[1]Total ingestion:	0.1009 kg/d wet weight
[1]Food ingestion:	0.10073 kg/d wet weight
Water ingestion:	0.013 L/d
Soil ingestion:	0.00017 kg/d wet weight
HR:	389.3 m shoreline

Representative Scenario:

BW:	0.1493 kg
[1]Total ingestion:	0.0574 kg/d wet weight
[1]Food ingestion:	0.0573 kg/d wet weight
Water ingestion:	0.0165 L/d
Soil ingestion:	0.0001 kg/d wet weight

[1]The total ingestion rate is the measured (laboratory or field) food ingestion rate cited in the paragraph in the exposure profile. Soil ingestion is generally measured as a percent of food ingestion. Therefore, the food ingestion rate used in the food chain models is considered to be equal to the total ingestion rate (listed above) minus the soil ingestion rate.

HR: 2485 m shoreline

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LIFE HISTORY OF THE GREAT BLUE HERON (*Ardea herodias*)

The great blue heron is the largest and most widely distributed American heron, inhabiting lakes, ponds, rivers, marshes and occasionally newly-plowed fields and meadows (Bull and Farrand 1977; Eckert 1987). The great blue heron is migratory in the northernmost portion of its range. Lingering birds usually fall prey to severe weather (Bull and Farrand 1977). Southward migration begins in early October; northward migration begins in March or early April (Eckert 1987). The great blue heron has a blue-grey back with blackish sides and a white and grey striped belly. The head has a white crown, cheeks and throat. A black stripe on the side of the crown merges into a long occipital crest. The bill is

yellow and legs are a greenish-brown . The sexes have similar plumage, but females are smaller. With the exception of its breeding season, this species is solitary in its habits (Hancock and Kushlan 1984).

Great blue herons are primarily diurnal, but nocturnal foraging is common in tidal habitats (Hancock and Kushlan 1984). They feed anywhere they can locate prey (terrestrial or aquatic), but they primarily forage in shallow water less than 50 centimeters (cm) deep (Bent 1926; Bayer 1978). The great blue heron typically feeds either by standing motionless in the water waiting for prey, or by searching stealthily with a slow and careful walk. Their primary food item is fish, although frogs, small turtles, crustaceans, mice, voles, shrews, snakes, and ground-nesting birds are also consumed. Great blue herons generally capture fish ranging from 5 to 40 cm in length, although larger fish are occasionally consumed (Kirkpatrick 1940; Willard 1977). Almost without exception, the great blue heron will shake its bill in the water immediately after swallowing prey, perhaps to wash off debris. Although the digestive fluids of the heron are acidic enough to dissolve bone rapidly, an occasional undigested pellet of feathers and fur is regurgitated (Eckert 1987; Butler 1992).

Courtship occurs soon after the spring migration, with copulation usually occurring on the ground. Great blue herons are mostly monogamous, with new mates selected each year (Butler 1992). Colonial nests are placed on the uppermost branches of trees or shrubs. Occasionally a ground nest will be built if a secluded area is available. Successful nesting areas are usually returned to year after year. Three to seven pale greenish-blue eggs are incubated equally by both sexes for about 28 days (Eckert 1987). The chicks fledge at about 2 months of age. Nesting success depends on food supplies, and most nestling loss is due to starvation (Quinney 1982). Heron chicks weigh approximately 50 grams (g) at hatching, and will attain about 86 percent (%) of their adult weight by 45 days of age (Quinney 1982). Fish fed to chicks range in size from 7.8 cm to 22.8 cm (Hoffman 1978). Great blue herons do not reach sexual maturity until 2 years of age (DeGraaf and Yamasaki 2001).

Very few birds or animals will attack an adult great blue heron. Adult mortality due to attempting to swallow large fish, starvation, or entanglement in utility wires has been reported (Terres 1980). Crows, ravens, owls, eagles, gulls, bears and raccoons prey on the eggs and nestlings (Bent 1926; Hancock and Kushlan 1984). Mortality rates are 69% in the first year, decreasing thereafter (Bayer 1981). The maximum reported lifespans for great blue herons in the wild are 23 years, 3 months (Clapp *et al.* 1982) and 24 years, 6 months (Klimkiewicz 2008).

Exposure Profile

For this risk assessment, conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average of the values located for this species. When an allometric equation is used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative ingestion rates, since the corresponding BWs input into the equation are higher.

Reported body weights for adult great blue herons range from 1.905 to 3.64 kg (Esten 1931; Poole 1938; Hartman 1961; Palmer 1962; Eckert 1976; Alexander 1977; Hoffman 1978; Quinney 1982; Schramm *et al.* 1987; Wolf and Jones 1989; Butler 1992; Environment Canada 1998; Glahn *et al.* 2000). Males tend to be slightly larger than females. A conservative BW of 1.905 kg and a representative BW of 2.505 kg will be used in this risk assessment.

Great blue herons are opportunistic predators, and will consume whatever prey are available. Fish are the preferred food item for this species. Based on stomach contents, Palmer 1962 reported a diet comprised of 71.6% fish, 8.2% insects, 8.9% crustaceans, 4.3% herptiles, and 4.7% small mammals. Cottam and Uhler (1945)reported a dietary composition of 43% non-game fish, 25% game or commercial fish, 8%

insects, 8% crustaceans, 4% herptiles, and 5% small mammals. Kirkpatrick (1940) reported a dietary composition of 92% fish, 1.7% insects, 2% crustaceans, 4% herptiles and 0.3% small mammals delivered to nestlings by adults. Alexander (1977) reported a dietary composition of 94% fish, 1% crustaceans, 3% amphibians, and 1% bird and mammal, percentage by weight of stomach contents. For this risk assessment, it was assumed that great blue herons consume 100% fish

Food ingestion rates ranging from 0.202 kilograms per day (kg/d) to 0.477 kg/d wet weight (ww) have been reported for this species (Powell 1983; Schramm *et al.* 1987; Hoy *et al.* 1989; Littauer 1990; Butler 1993; Stickley *et al.* 1995; U.S. Department of Agriculture 1997; Glahn *et al.* 1999; Glahn *et al.* 2000). A conservative food ingestion rate of 0.477 kg/d and a representative food ingestion rate of 0.309 kg/d will be used in this risk assessment.

A species-specific water ingestion rate could not be located for the great blue heron. Water ingestion rates were calculated using the allometric equation developed by (Calder and Braun 1983): WI (liters per day [L/d]) = 0.059 $Wt^{0.67}$, where WI is the daily water ingestion rate and Wt is the BW in kg. Using the above BW, a conservative water ingestion rate of 0.091 L/d and a representative water ingestion rate of 0.109 L/d were calculated.

An incidental sediment ingestion rate for the great blue heron was not located in the literature; therefore, a predicted incidental ingestion rate for sediment that may be entrained in the digestive system of prey items was used for this risk assessment. Fish are the primary food source for the great blue heron; consumption of prey items containing sediment is assumed to be the primary mechanism by which a piscivorous bird such as the great blue heron would ingest sediment. In this model, the bluegill (*Lepomis machrochirus*) was used to represent fish eaten by the great blue heron.

Bluegills commonly reach a size of 12 ounces (oz) (Pflieger 1975). From this, the amount of sediment entrained in fish 12 oz (0.340 kg) in weight was predicted. A study evaluating the stomach contents of 153 bluegills reported the diet to contain an average of 9.6% detritus (Kolehmainen 1974). A daily food ingestion rate of 1.75% of the BW per day has been reported for the bluegill (Kolehmainen 1974). From this, the amount of food consumed by a 0.340 kg bluegill is calculated to be 0.00595 kg/d. If the assumptions are made that 9.6% of the material ingested is sediment, and that the amount of sediment contained in the digestive system of a fish remains constant over time, it can be predicted that a fish of this size may contain 0.0005712 kg of sediment in its digestive system. This value (0.0005712 kg) was divided by the predicted fish BW (0.340 kg) to express the sediment entrained in the fish digestive systems as 0.00168 kg sediment per kg fish BW. When this value is multiplied by the conservative and representative food ingestion rates of the great blue heron (0.477 kg/d and 0.309 kg/d, respectively), the predicted sediment ingestion rates for a heron consuming 100% fish are approximately 0.00080 kg/d and 0.00052 kg/d.

Feeding territory sizes have been reported for this species in terms of kilometers (km) shoreline length and area (in hectares [ha]). In addition, foraging distances from nesting colonies have been measured. Foraging distances ranging between 1.8 to 34.1 km from nesting colonies have been reported (Mathisen and Richards 1978; Thompson 1978; Peifer 1979; Dowd and Flake 1985). Dietary exposure to contaminants will occur within a feeding territory; the distance traveled to a feeding territory is not a factor. Therefore, feeding territory sizes as km shoreline length and measured feeding territory areas will be considered in this risk assessment. Actively defended foraging areas ranging from 0.129 to 4.1 km of shoreline length have been reported for this species (Bayer 1978; Peifer 1979; Dowd and Flake 1985). Measured mean feeding territory sizes of 0.6 and 8.4 ha were reported by Bayer 1978. A conservative foraging area size of 0.129 km (shoreline length) or 0.6 ha and a representative foraging area size of 1.51 km (shoreline length) or 4.5 ha will be used in this risk assessment.

In summary, the food chain model parameters for the great blue heron are as follows:

Conservative Scenario:

BW:	1.905 kg
[2]Total ingestion:	0.477 kg/d wet weight
[1]Food ingestion:	0.4762 kg/d wet weight
Water ingestion:	0.091 L/d
Sediment ingestion, fish diet:	0.00080 kg/d
HR:	0.129 km shoreline length or 0.6 ha

Representative Scenario:

BW:	2.505 kg
[1]Total ingestion:	0.309 kg/d wet weight
[1]Food ingestion:	0.30848 kg/d wet weight
Water ingestion:	0.109 L/d
Sediment ingestion, fish diet:	0.00052 kg/d
HR:	1.51 km shoreline length or 4.5 ha

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[2]The total ingestion rate is the measured (laboratory or field) food ingestion rate cited in the paragraph in the exposure profile. Soil ingestion is generally measured as a percent of food ingestion. Therefore, the food ingestion rate used in the food chain models is considered to be equal to the total ingestion rate (listed above) minus the soil ingestion rate.

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LIFE HISTORY OF THE GREEN HERON *(Butorides striatus)*

The green heron is the second smallest North American heron. The green heron is generally a solitary bird and prefers streams, ponds, and marshes with woodland trees, where it can often be found perching (NGS 1987). Its range includes British Columbia, Minnesota, and New Brunswick south to southern South America. It winters north to South Carolina, the Gulf Coast, and California (Bull and Farrand 1977). The green heron has a greenish black cap on the head (Cornell Lab of Ornithology 2003). The wings are blackish with greenish or bluish gloss and the underparts are gray (Cornell Lab of Ornithology 2003). The cheeks, sides and back of neck are a dark chestnut. They have long yellowish legs which turn a yellowish orange during breeding. They also have a long dark, pointed bill. (Cornell Lab of Ornithology 2003). The sexes have similar plumage, but females are smaller, duller, and lighter (Cornell Lab of Ornithology 2003).

The green heron feeds by day, preferably early morning or late afternoon (Terres 1980). They feed in the shallow water of swamps, ponds, lakes, streams, and marshes (Bull and Farrand 1977). The green heron typically feeds either by standing motionless, waiting to pounce on its prey or by searching steathily with a slow and careful walk (Gauthier and Aubry 1996). Meyerriecks (1971) reported seeing green heron using an extended leg to rake the bottom with a backwards drag of the foot and then examining the area for moving prey. The green heron has also been seen using bait (i.e., feather, twig, insect, etc.) to lure fish within striking distance (Kaufman 1996;Davis and Kushlan 1994). Their primary food item is fish, although amphibians, reptiles, crustaceans, molluscs, and aquatic and terrestrial insects are also consumed (Gauthier and Aubry 1996;Davis and Kushlan 1994).

Copulation occurs on nesting territory usually on the nest platform (Davis and Kushlan 1994 ;Palmer 1962). The male begins nest construction. After pairing, the female builds the nest while the male brings material (Kaufman 1996;Davis and Kushlan 1994). Green heron nests are thinly made up of twigs and sticks and are typically round or elongate (Bull and Farrand 1977;Davis and Kushlan 1994). They are built in thick bush or trees near water. Typically 3 to 6 pale green or blue green eggs are produced per clutch. Incubation is shared by both parents and lasts from 19 to 21 days (Davis 1996; DeGraaf and Yamasaki 2001; Kaufman 1996). Fledging occurs at 21 days after hatching, but young are still fed by the parents (Davis 1996;Terres 1980; DeGraaf and Yamasaki 2001). Green herons do not reach sexual maturity until 2 years of age (Davis 1996).

There are few reports of mortality in adults (Davis 1996). Predation, wind, weather, heat stress and early embryo death were the primary reasons for nest losses (Kaiser and Reid 1987).

Exposure Profile

For this risk assessment, conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average of the values located for this species. When an allometric equation is used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative ingestion rates, since the corresponding BWs input into the equation are higher. However, it should be noted that when these ingestion rates are used in dietary models, they are converted from the total amount ingested per day to the amount ingested per kilogram (kg) BW per day, which results in conservative estimates that are higher than representative estimates, on a per unit of BW basis.

Adult green heron BW range from 0.158 to 0.27 kg. A conservative BW of 0.27 kg and a representative BW of 0.22 kg was used in exposure calculations.

Green herons are opportunistic predators, and will consume whatever prey are available. Fish are the preferred food item for this species. Based on stomach contents, Cottam and Uhler 1945 reported a dietary composition of 38.5% non-game fish, 5.9% game or commercial fish, 23.7% insects, 20.6% crustaceans, and 10.3% spiders and miscellaneous invertebrates. Alexander (1977) reported a dietary composition of 67% fish, 1% crustaceans, 9% insects, 3% vegetation, and 10% herptiles and 10% undetermined, percentage by weight of stomach contents. (Niethammer and Baskett 1983) reported a dietary composition of 87.5% fish, 3.8% insects, 5% crustaceans, 2.5% herptiles and 1.2% spiders, percentage by weight of stomach contents. Based on stomach contents, (Niethammer and Kaiser 1983) reported a dietary composition of 93% fish, 6% insects, 1% crustaceans, and 1% spiders, percentage by weight of stomach contents.

Fresh food ingestion rates ranging from 0.05 kilograms per day (kg/d) to 0.07 kg/d wet weight have been reported for this species (Schramm et al. 1987). A conservative food ingestion rate of 0.07 kg/d and a representative food ingestion rate of 0.0585 kg/d will be used in this risk assessment.

A conservative home range of 3.3 ha and a representative home range of 2 ha was reported by Palmer (1962) for the green heron. The 2 hectare area was an average of four group breeding areas ranging in size from 1 to 3.3 hectares and containing 8 to 70 breeding pairs. The size of the individual territories were within the group breeding area and varied with habitat and stage of breeding cycle.

A species-specific water ingestion rate could not be located for the green heron. Water ingestion rates were calculated using the allometric equation developed by Calder and Braun (1983): WI (liters per day [L/d]) = 0.059 $Wt^{0.67}$, where WI is the daily water ingestion rate and Wt is the BW in kg. Using the above BW, a conservative water ingestion rate of 0.025 L/d and a representative water ingestion rate of 0.021 L/d were calculated.

An incidental sediment ingestion rate for the green heron was not located in the literature; therefore, a predicted incidental ingestion rate for sediment that may be entrained in the digestive system of prey items was used for this risk assessment. Fish are the primary food source for the green heron; consumption of prey items containing sediment is assumed to be the primary mechanism by which a piscivorous bird such as the green heron would ingest sediment. In this model, the bluegill (*Lepomis machrochirus*) was used to represent fish eaten by the green heron.

Bluegills commonly reach a size of 12 ounces (oz) (Pflieger 1975). From this, the amount of sediment entrained in fish 12 oz (0.340 kg) in weight was predicted. A study evaluating the stomach contents of 153 bluegills reported the diet to contain an average of 9.6% detritus (Kolehmainen 1974). A daily food ingestion rate of 1.75% of the BW per day has been reported for the bluegill (Kolehmainen 1974). From this, the amount of food consumed by a 0.340 kg bluegill is calculated to be 0.00595 kg/d. If the assumptions are made that 9.6% of the material ingested is sediment, and that the amount of sediment contained in the digestive system of a fish remains constant over time, it can be predicted that a fish of this size may contain 0.0005712 kg of sediment in its digestive system. This value (0.0005712 kg) was divided by the predicted fish BW (0.340 kg) to express the sediment entrained in the fish digestive systems as 0.00168 kg sediment per kg fish BW. When this value is multiplied by the conservative and representative food ingestion rates of the green heron (0.07 kg/d and 0.0585 kg/d, respectively), the predicted sediment ingestion rates for a heron consuming 100% fish are approximately 0.00012 kg/d and 0.000098 kg/d.

In summary, the food chain model parameters for the green heron are as follows:

Conservative Scenario:

BW:	0.27 kg
[1]Total ingestion:	0.07 kg/d
[1]Food ingestion:	0.06988 kg/d
Water ingestion:	0.025 L/d
Sediment ingestion, fish diet:	0.00012 kg/d

[1]The total ingestion rate is the measured (laboratory or field) food ingestion rate cited in the paragraph in the exposure profile. Soil ingestion is generally measured as a percent of food ingestion. Therefore, the food ingestion rate used in the food chain models is considered to be equal to the total ingestion rate (listed above) minus the soil ingestion rate.

HR:	3.3 ha

Representative Scenario:

BW:	0.22 kg
[1]Total ingestion:	0.0585 kg/d
[1]Food ingestion:	0.058402 kg/d
Water ingestion:	0.021 L/d
Sediment ingestion, fish diet:	0.000098 kg/d
HR:	2.03 ha

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LIFE HISTORY OF THE MINK (*Mustela vison*)

Mink are distributed over much of boreal North America, southward throughout the eastern United States and in the west to California, New Mexico, and Texas (Jones and Birney 1988). They can be found in virtually any habitat containing permanent water; they are not commonly found in upland areas (Jones and Birney 1988). Although primarily nocturnal, their activity often extends into midday (Hoffmeister 1989).

Mink are characterized by dark chestnut brown fur with tails comprising one-third to one-half of their 46 to 70 centimeter (cm) length. The coat is thick and dense, with an oily underfur overlaid by long and

coarse guard hairs. Males of the species are up to twice the weight of females. A long neck and thin body are supported by short sturdy legs. An occasional white spot appears on the undersides of the animals, and the ears are short and rounded, lying close to the head. The feet have five webbed toes used for swimming and capturing fish, and anal scent glands are well-developed (Godin 1977; Linscombe et al. 1982).

Dens are always near water, usually either in an old muskrat burrow or constructed by the mink itself (Jones and Birney 1988). Males tend to live in their own burrows that are less elaborate than ones occupied by females (Barbour and Davis 1974). The mink is a constant wanderer, and home ranges tend to be linear since mink often follow a shoreline (Jones and Birney 1988). Mink are solitary and mark their territories by spraying (Merritt 1987).

Seasonal food availability governs the mink dietary composition (Barbour and Davis 1974). Their diets may consist of crayfish, muskrats, frogs, fish, snakes, rodents, rabbits, and plants, among other items (Schwartz and Schwartz 1981; Jones and Birney 1988). Crayfish and muskrats are a major portion of the summer diet in many regions of North America (Barbour and Davis 1974; Merritt 1987; Jones and Birney 1988). Larger prey are killed by being bitten on the neck. Females have a difficult time handling larger prey such as muskrats, and their diet is usually more limited.

Breeding occurs from January to early April with gestation periods ranging from 40 to 75 days (Schwartz and Schwartz 1981; Merritt 1987). A single litter highly variable in size (consisting of from 1 to 17 young) may be produced (Schwartz and Schwartz 1981). Average litter sizes vary among regions. Young are weaned at about five to six weeks of age, leave the nest at six to eight weeks, and are sexually mature by ten months (Schwartz and Schwartz 1981; Merritt 1987).

The mink has several predators. Great horned owls, foxes, coyotes, bobcats, and dogs are known to prey on mink (Schwartz and Schwartz 1981; Merritt 1987). There have been records of some mink individuals living up to six years, but mink seldom exceed two years of age in the wild (Schwartz and Schwartz 1981) .

Exposure Profile

For the purpose of this risk assessment, conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average of the values located for this species. When equations using BWs are used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative ingestion rates, since the corresponding BWs input into the equation are higher. However, it should be noted that when these ingestion rates are used in dietary models, they are converted from the total amount ingested per day to the amount ingested per kilogram (kg) BW per day, which results in conservative estimates that are higher than representative estimates, on a per unit of body weight basis.

Adult mink weigh from 0.454 to 2.31 kg {Bleavins, 1981 #966; Jackson, 1961 #1181; Nowak, 1991 #846; Linscombe, 1982 #1044; Sealander, 1979 #923; Soper, 1973 #888; Askins, 1983 #2322; Alexander, 1977 #967; Hornshaw, 1983 #1623; Baker, 1983 #1622; Merritt, 1987 #11; Mitchell, 1961 #965; Rue, 1981 #848; Barbour, 1974 #9; Jones, 1988 #365; Godin, 1977 #84; Schwartz, 1981 #14; Mumford, 1982 #851}. The lowest body weight of 0.454 kg was used for the conservative exposure profile. For the representative scenario, the average body weight (1.02 kg) was used.

Mink are opportunistic predators that hunt principally along shorelines and emergent vegetation (U.S. EPA 1993). Seasonal availability and regional preferences govern the primary constituents of the mink's diet. Mammals and crayfish are usually the most abundant prey items, but fish, amphibians, and young birds are also taken (Linscombe et al. 1982; Merritt 1987). Overall, the dietary composition of the mink consists of 52 percent (%) fish, 38% small mammals and birds, 5% crustaceans, 2% amphibians, 0.5% insects, 0.5% vegetation, and 3% other or unidentified matter (Korschgen 1952; Alexander 1977; Rue 1981). For this risk assessment, mink are assumed to be 100% carnivorous.

Food ingestion rates have been measured in several studies (Bleavins and Aulerich 1981; Aulerich et al. 1986; Heaton et al. 1995). Reported food ingestion rates range from 0.129 to 0.409 kg/day. A conservative food ingestion rate of 0.409 g/day and a representative food ingestion rate of 0.229 kg/day was used for this risk assessment.

A water ingestion rate of 0.133 milliliters per gram BW per day (ml/g BW/day) was reported for adult female farm-raised mink (Farrel and Wood 1968). This value was converted to water ingestion rates in units of liters per day (L/d) by multiplying by the BWs above, yielding conservative and representative water ingestion rates of 0.0604 L/d and 0.14 L/d, respectively.

An incidental sediment ingestion rate for the mink was not located in the literature; therefore, a predicted incidental ingestion rate for sediment that may be entrained in the digestive system of prey items was used for this risk assessment. Fish are one of the primary food sources for the mink; consumption of prey items containing sediment is assumed to be the primary mechanism by which a piscivorous mammal such as the mink would ingest sediment. In this model, the bluegill (*Lepomis machrochirus*) was used to represent fish eaten by the mink.

Bluegills commonly reach a size of 12 ounces (oz) (Pflieger 1975). From this, the amount of sediment entrained in fish 12 oz (0.340 kg) in weight was predicted. A study evaluating the stomach contents of 153 bluegills reported the diet to contain an average of 9.6% detritus (Kolehmainen 1974). A daily food ingestion rate of 1.75% of the BW per day has been reported for the bluegill (Kolehmainen 1974). From this, the amount of food consumed by a 0.340 kg bluegill is calculated to be 0.00595 kg/d. If the assumptions are made that 9.6% of the material ingested is sediment, and that the amount of sediment contained in the digestive system of a fish remains constant over time, it can be predicted that a fish of this size may contain 0.0005712 kg of sediment in its digestive system. This value (0.0005712 kg) was divided by the predicted fish BW (0.340 kg) to express the sediment entrained in the fish digestive systems as 0.00168 kg sediment per kg fish BW. When this value is multiplied by the conservative and representative food ingestion rates of the mink (0.409 kg/d and 0.229 kg/d, respectively), the predicted sediment ingestion rates for mink consuming 100% fish are approximately 0.000687 kg/d and 0.000385 kg/d.

Reported HR sizes vary from 7.8 to 770 hectares (ha) (Mitchell 1961; Arnold and Fritzell 1987; Merritt 1987; Nowak 1991). A value of 7.8 ha was used as the conservative estimate for HR size, and an average value of 137 ha was used as the representative estimate of HR size (Merritt 1987).

In summary, the food chain model parameters for the mink are as follows:

Conservative estimates:

Body weight: 0.454 kg

[1]Total ingestion: 0.409 kg/d
[1]Food ingestion: 0.408313 kg/d
Water ingestion: 0.0604 L/d
Sediment ingestion: 0.000687 kg/d
Home range size: 7.8 ha

Representative estimates:
Body weight: 1.02 kg
[1]Total ingestion: 0.229 kg/d
[1]Food ingestion: 0.228615 kg/d
Water ingestion: 0.14 L/d
Sediment ingestion: 0.000385 kg/d
Home range size: 137 ha

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[1]The total ingestion rate is the measured (laboratory or field) food ingestion rate cited in the paragraph in the exposure profile. Soil ingestion is generally measured as a percent of food ingestion. Therefore, the food ingestion rate used in the food chain models is considered to be equal to the total ingestion rate (listed above) minus the soil ingestion rate.

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Red-winged Blackbird (*Agelaius phoeniceus)*

Life History

The male red-winged blackbird is black with bright red epaulets. Most often the red color is concealed and only yellow may show around the margin. The female is brownish with well defined dark striping below, and a prominent white eyebrow stripe (Peterson 1990). Males are approximately 20% larger structurally and more than 50% heavier than females (Weatherhead and Dufour 2005). Both sexes have a sharply pointed bill.

The habitat of the red-winged blackbird is marshes, swamps, wet and dry meadows, and sometimes pastures. Although it is primarily a marsh bird, it will nest near virtually any body of water and occasionally breeds in upland pastures. It breeds from Alaska to Newfoundland south to Florida, the Gulf Coast, and central Mexico. It winters north to Pennsylvania and British Columbia and can often be found in large flocks in the winter (Bull and Farrand 1977; NGS 1987).

Males are polygynous and generally migrate north prior to females to compete for breeding territory. Territories have clearly defined borders and are defended during the breeding season. Reported territory sizes range from 0.012 ha (Case and Hewitt 1963) to 1.846 ha (Picman 1987). Males with the best territories attract harems of up to 15 females (Gill 1990). Nests are well-made cups built from marsh grasses or reeds attached to growing marsh vegetation or built in a bush in a marsh. Each pair raises two or three broods a season, building a new nest for each clutch. The female lays from 3 to 5 pale blue, green, brownish, or spotted eggs. Red-winged blackbird nests are frequently parasitized by brown-headed cowbirds. The incubation period lasts from 10 to 12 days and the young are ready to leave the nest 10 to 13 days after hatching. Young males do not attain adult male plumage until one year of age (Gill 1990).

Red-winged blackbirds are omnivorous feeders that consume more plant than animal matter. Invertebrates are seasonally important. Snelling (1968) observed that the majority of food delivered to nestlings was invertebrate animals; plant material only comprised 2.2 % of the food delivered. Adult red-wings have a seasonal dietary switch in which they feed on mainly seeds and grains in the winter and insects in the summer (Kingery 1998). They have also been known to feed on snails, frogs, crayfish and mussels (Leahy 1982).

Red-winged blackbirds flock with grackles, cowbirds and starlings in the non-breeding season. They are often regarded as pests due to crop damage and the nuisance effect of large roosts. Damage caused to crops may be partly compensated for by consumption of insect pests and weed seeds (McNichol *et al.* 1982).

Predation is the most common cause of egg and nestling mortality. Principle nest predators include raccoon, mink, Black-billed magpie and marsh wren. Hawks and owls prey on adults (Orians 1980).

Exposure Profile

For this risk assessment, conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average of the values located for this species. When equations are used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative

ingestion rates, since the corresponding body weights input into the equations are higher. However, it should be noted that when these ingestion rates are used in dietary models, they are converted from the total amount ingested per day to the amount ingested per kg body weight per day, which results in conservative estimates that are higher than representative estimates, on a per unit of body weight basis

Reported body weights of adult red-winged blackbirds range from 37.2 grams to 82 g. An average body weight of 58.03 g will be used in the representative exposure scenario.

Food ingestion rates ranging from 4.31 g/day ww to 10.58 g/day ww have been reported for this species (Brenner 1966; Avery *et al.* 1997). An average ingestion rate of 7.31 g/day ww will be used in the representative exposure scenario.

The diet of the red-winged blackbird reportedly consists of 65 percent vegetable matter and 33 percent animal matter (White *et al.*; Snelling 1968; Hintz and Dyer 1970; McNichol *et al.* 1982). However, during the breeding season the adult diet is primarily aquatic insects (Orians 1980), and food delivered to nestlings is 97.8 percent animal matter (Snelling 1968). For this risk assessment, a diet comprised of XX percent vegetation and XX percent invertebrate tissue will be used.

A water ingestion rate for the red-winged blackbird was not located in the literature. Therefore, an allometric equation developed by (Calder and Braun 1983) was used to estimate the water ingestion rate (Water Ingestion (L/day) = 0.059 $Wt^{0.67}$, where Wt is the weight in kg). Using this equation and conservative and representative body weights of 37.2 g and 58.03 g, respectively, water ingestion rates of 0.007 L/day and 0.009L/day were calculated..

Most of the year, red-winged blackbirds forage on the ground.. Soil may be ingested along with seeds and insects collected from the ground surface; however, a soil ingestion rate could not be located for the species. Therefore, a soil ingestion rate reported for the bobwhite was used instead. While bobwhites and red-winged blackbirds are not closely related, they have similar foraging strategies, eating seeds which they pick up off the ground, supplemented by insects (U.S. EPA 1993). Wood *et al.* (1986) found that sand and gravel comprised 5.5% and 4.4% of the volume of the crop contents of bobwhites in spring and summer, respectively. The highest value (5.5%) was used as a conservative estimate of soil ingestion; the average of these values (4.95%) was used as a representative estimate of soil ingestion. To calculate soil ingestion in units of g/day, these values were multiplied by the respective food intake rates, 10.58 and 7.31 g/day. These calculations yielded conservative and representative soil ingestion rates of 0.582 g/day and 0.362 g/day, respectively.

Breeding territories ranging in size from 0.012 ha to 1.846 ha have been reported
(Nero 1956; Case and Hewitt 1963; Stokes 1979; Orians 1980; Picman 1987). A conservative territory size of 0.012 ha and a representative territory size of 0.432 ha will be used for this risk assessment.

Exposure Parameter Summary:

Conservative Scenario:

Body weight:	0..0372 kg
Total ingestion rate:	0.01058 kg/day ww
Food ingestion rate:	0.00999 kg/day ww
Water ingestion rate:	0.007 L/day
Sediment ingestion rate:	5.5% or 0.000582 kg/day
Territory size:	0.012 ha

Representative Scenario:

Body weight:	58.03 kg

Total ingestion rate:	7.31 kg/day ww	
Food ingestion rate:	kg/day ww	
Water ingestion rate:	0.009 L/day	
4.95 % or 0.000362 kg/day		
	Territory size:	0.432 ha

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Bank swallow (Riparia riparia); wet wt. version

Life History

Bank swallows (Riparia riparia) are the smallest swallow in North America; adults are only about 12 to 14 cm long. Both sexes have a dark brown backside, with a white underside, a breast band, and a slightly forked tail (Bull and Farrand 1977). Bank swallows twist and turn in erratic zig zags during flight (Terres 1980).

The bank swallow, often confused with rough-winged or tree swallows, is very common in the upper-midwestern United States and central Canada. This species can be found in nearly all areas of North America, possibly excepting the southeastern United States. Most of the bank swallows that summer in Canada and the northern United States migrate to South America in the winter (Bull and Farrand 1977).

Bank swallows can be found in open habitats near water, including marshes, meadows, and along streams and lakes (Terres 1980). Bank swallows feed from dawn to dusk and consume jumping or flying insects

on the wing (Garrison 1999). The diet of the bank swallow is comprised of almost 100% insects; consumption of vegetable matter is rarely observed and is thought to be accidental (Garrison 1999).

Bank swallows are colonial cavity nesters. Nests have been observed in sandy banks, dead and hollow trees, woodpecker holes, and artificial nest boxes. The male and female pair off in the spring and choose a nest site. Digging of the burrow is shared by both male and female (Stoner 1936). Burrows are usually 2.5 cm high and 5 cm wide, and can range from 40 to 150 cm in length . Nests are built by both parents and consist of dry grasses, straw, weed stems, rootlets, pine needles, wool, horsehair, and feathers . Typically, four to six white eggs will be laid from April to July. The eggs will be incubated for about 14 to 16 days by both parents. The young fledge about a week after hatching. Typically, only one brood is raised per year (Terres 1980).

Bank swallows are preyed upon by mammals, birds, and snakes. Snakes climb into burrows and can spend several days in a colony feeding on broods. American kestrels and other raptors capture bank swallows in flight, usually during the fledging period when young are vulnerable . Exposure to cold weather is also a cause of mortality (Garrison 1999).

Exposure Profile

Conservative exposure parameters reported here are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average of the values located for this species. When an allometric equation is used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative ingestion rates, since the corresponding BWs input into the equation are higher. However, it should be noted that when these ingestion rates are used in dietary models, they are converted from the total amount ingested per day to the amount ingested per kilogram (kg) BW per day, which results in conservative estimates that are higher than representative estimates, on a per unit of BW basis.

Adult bank swallows weigh from 0.0099 to 0.0188 kg, with an average of 0.014 kg . The lowest value (0.0099 kg) was used as a conservative estimate of body weight; the average value (0.014kg) was used as a representative estimate of body weight.

Bank swallows are almost entirely insectivorous. Beal (1918) found their diet to consist of 34% hymenoptera, 8% hemiptera, 18% beetles, 27% diptera, 10% ephemeroptera and 3% other animal material (including spiders). Plant matter made up less than 1% of the diet. For this risk assessment, it will be assumed that the bank swallow diet is comprised entirely of insects.

A food ingestion (FI) rate for the bank swallow could not be found in the literature. Food ingestion rates were estimated using the equation for insectivorous birds presented in Nagy (2001): FI (grams per day [g/d]) = 1.633 Wt0.705, where FI is the daily food ingestion rate (fresh matter) and Wt is the BW in grams. Using the above weights, a conservative food ingestion rate of 8.2 g/d (0.0082 kilograms per day [kg/d]) and a representative food ingestion rate of 10.5 g/d (0.0105 kg/d) were calculated.

A water ingestion (WI) rate for the bank swallow could not be found in the literature. Water ingestion rates were calculated using the allometric equation developed by Calder and Braun (1983): WI (liters per day [L/d]) = 0.059 Wt 0.67, where WI is the daily water ingestion rate and Wt is the BW in kg. Using the above BWs, a conservative water ingestion rate of 0.00268 L/day and a representative water ingestion rate of 0.00338 L/day were calculated.

A soil ingestion rate for the bank swallow could not be found in the literature. Instead, the amount of grit found in the stomachs of comparably-sized tree and barn swallows, which have diets and foraging

methods similar to those of bank swallows, was used to represent soil ingestion by bank swallows. Barrentine (1980) reported that stomachs of nestling barn swallows contained an average of 0.0000193 kg of grit (composed primarily of quartz, granite, shell fragments, basalt, and glass, and presumably ingested initially by adults who then fed the grit to their offspring). Mayoh and Zach (1986) found the stomach contents of adult tree swallows to contain a mean weight of 0.0000061 kg of grit (comprised mainly of small stones and shell fragments), while the stomach contents of nestling tree swallows contained from 0 to 0.0000538 kg (mean = 0.0000172 kg) of grit (composed mainly of sand and shells). Finally, Blancher and McNicol (1991) found the stomach contents of nesting tree swallows to contain approximately 3.4% grit; applying this grit ingestion rate to the conservative and representative food ingestion rates above yields grit ingestion rates of 0.0002788 and 0.000357 kg/d. The highest reported grit ingestion rate (0.000357 kg/day) was used as a conservative estimate of soil ingestion; the average of the reported grit ingestion rates (0.00008035 kg/day) was used as a representative estimate of soil ingestion.

Home range sizes for the bank swallow could not be found in the literature. However, Emlen (1954) reported that the foraging areas of cliff swallows at three different colonies extended up to 2, 2.5, and 4 miles away from the nests, and Storer (1927) reported that cliff swallows foraged within a 2 mile radius of the colony. Assuming that the foraging areas extend out from the nests in all directions, the area of circles with the above radiuses can be calculated to range from 3256 hectares (ha) to 13,019 ha. The lowest value was used as a conservative estimate of HR size; the average (5628 ha) was used as a representative estimate of HR size.

In summary, the food chain parameters for the bank swallow are as follows:

Conservative estimates:

BW:	0.0099 kg/d
1Total ingestion:	0.0082 kg/d
1Food ingestion:	0.007843 kg/d
Water ingestion:	0.00268 L/d
Soil ingestion:	0.000357 kg/d
HR (foraging area per breeding pair):	3256 ha

Representative Scenario:

BW:	0.014 kg/d
1Total ingestion:	0.0105 kg/d
1Food ingestion:	0.01041965 kg/d
Water ingestion:	0.00338 L/d
Soil ingestion:	0.00008035 kg/d
HR (foraging area per breeding pair):	5628 ha

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LIFE HISTORY OF THE RACCOON (Procyon lotor)

The raccoon is the most abundant and widespread omnivore in North America. Measuring in total length from 60 to 105centimeters (cm) including a 20 to 40 cm tail, raccoons are characterized by a stout body and a black mask across the eyes and cheeks. The body fur is long, fine, thick, and grizzled in

appearance. Fur ranges from a dull gray to a medium brown, and the tail is ringed with black and white stripes. The face is whitish, and is framed by a grayish head and white-edged ears. Their long, flexible fingers are opposable to some degree and capable of delicate manipulations (Kaufmann 1982).

Raccoons are mostly nocturnal mammals inhabiting wooded areas near water, marshes, suburban areas, or virtually any place that can provide food, a den, and permanent water (Jones and Birney 1988; Hoffmeister 1989). Their dens are usually within 1,200 feet from a water supply but are situated in an area where the den can remain dry (Hoffmeister 1989). Dens may be in hollow trees, burrows, caves, crevices in rock, haystacks, chimneys, or under logs (Schwartz and Schwartz 1981; Hoffmeister 1989). During periods of heavy snow or ice, raccoons will den together for several days (Schwartz and Schwartz 1981); otherwise, they are normally solitary and remain active throughout the year (Jones and Birney 1988).

Raccoons are opportunistic omnivores, consuming various food items such as berries, fruit, nuts, corn, seeds, aquatic and terrestrial invertebrates, eggs, frogs, snakes, fish, muskrats, and young waterfowl (Schwartz and Schwartz 1981; Jones and Birney 1988). Seasonal and local food availability appears to dictate dietary composition, although as a general rule, plant matter comprises a greater portion of the diet than does animal matter (Barbour and Davis 1974). Animal matter consumption is greatest during spring, with crayfish being the most important food item (Kaufmann 1982).

Males may mate with several females during the breeding season. Breeding may occur from December through July, although most breeding occurs from January to March (Schwartz and Schwartz 1981; Jones and Birney 1988). About 40 percent (%) of females breed the spring following their birth; the remainder do not breed until their second year. Males are capable of breeding the spring following their birth, but probably have little opportunity (Schwartz and Schwartz 1981). Gestation lasts for approximately 63 days with litter sizes ranging from two to seven young, the usual number being four (Jackson 1961; Barbour and Davis 1974). The young are weaned at 10 to 12 weeks and forage with the mother well into the autumn.

Raccoons maintain fairly well-defined areas of activity (home ranges [HR]), but they do not actively defend territories (Stuewer 1943). Although they are solitary animals, raccoons will utilize areas that are also used at other times by other raccoons (their activity ranges may overlap; Stuewer 1943). Because they are omnivorous, raccoons are not as mobile as similar-sized carnivores. When food supplies and other habitat requirements are optimum, raccoons tend to have smaller HR sizes than when such environmental factors are limited (Baker 1983). Males generally have larger HR sizes than females.

Natural predators of the raccoon include owls, hawks, bobcats, coyotes (Schwartz and Schwartz 1981; Merritt 1987). Hunting and trapping by humans is a major source of mortality (Jackson 1961). Starvation and malnutrition can be a factor in late winter and early spring, especially for juveniles. Raccoons are susceptible to several diseases, including dog distemper, rabies, and raccoon encephalitis. Most raccoons in the wild live less than 5 years, but some may live 10 or 12 years. Raccoons in captivity have lived up to 17 years (Jackson 1961; Schwartz and Schwartz 1981).

Exposure Profile

For this risk assessment, conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], HR size) values located in the literature. Representative exposure parameters are the average of the values located for this species. When an allometric equation is used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative ingestion rates, since the corresponding BWs input into the equation are higher. However, it should be noted that

when these ingestion rates are used in dietary models, they are converted from the total amount ingested per day to the amount ingested per kilogram (kg) BW per day, which results in conservative estimates that are higher than representative estimates, on a per unit of BW basis.

Adult BWs vary with location, age, and sex. Males are generally 10% larger than females (Baker 1983), and northern raccoons are generally larger than southern raccoons (Kaufmann 1982). Body weights of yearlings may overlap with adult body weights (Scheffer 1950). Body weights of adult raccoons range from 2.2 to 15 kg . A conservative BW of 2.2 kg and a representative BW of 6.55 kg were used in this risk assessment.

The raccoon is an opportunistic feeder; seasonal and local food availability determines dietary composition. Based on review of numerous food habit studies , the average year round diet of the raccoon is comprised of 61% plant foods and 35% animal foods1. The percentage of the diet comprised of plant food was higher every season except spring, when 38% of the diet was made up of plant foods and 57% was comprised of animal foods. Corn and fruit were the most important plant food items, and crayfish was the most important animal food item. For this risk assessment, the raccoon was considered an omnivore that consumes a diet comprised of 61% plant matter and 39% animal matter.

Fresh food ingestion rates of captive raccoons were reported by Teubner and Barrett (1983) and Conover (1989). When necessary, values were derived from dry food ingestion rates using the water content of the diet (U.S. EPA 1993). The resulting ingestion rates range from 0.303 kilograms per day (kg/d) to 0.400 kg/d. A conservative food ingestion rate of 0.400 kg/d and a representative food ingestion rate of 0.370 kg/d will be used for this risk assessment.

A species specific water ingestion rate could not be located for the raccoon. Water ingestion rates were calculated using the allometric equation developed by Calder and Braun (1983): WI (liters per day [L/d] = 0.099 Wt 0.90, where WI is the daily water ingestion rate and Wt is the BW in kg. Using the above body weights, a conservative water ingestion rate of 0.201 L/d and a representative water ingestion rate of 0.537 L/d were calculated.

Soil ingestion rates ranging from 0.2 to 9.4 % of the diet have been reported for this species (Yeager and Elder 1945; Schoonover 1950; Cowan 1973; Beyer et al. 1994). A conservative soil/sediment ingestion rate of 9.4% and a representative soil ingestion rate of 3.4% were used. Using the above food ingestion rates, a conservative soil ingestion rate of 0.0376 kg/d and a representative soil ingestion rate of 0.0126 kg/d were calculated.

Home range sizes ranging from 4.71 to 814.6 hectares (ha) have been reported for adult raccoons . Males generally have larger HRs than females. Home range size is also affected by habitat quality; in good habitat, HRs tend to be smaller. A conservative HR size of 4.71 ha and a representative HR size of 133.3 ha were used for this risk assessment.

In summary, the food chain model parameters for the raccoon are as follows:

Conservative Scenario:

BW:	2.2 kg
2Total ingestion:	0.4 kg/d
2Food ingestion:	0.3624 kg/d
Water ingestion:	0.201 L/d
Soil ingestion:	0.0376 kg/d

HR:	4.71 ha

Representative Scenario:

BW:	
Both sexes, all regions:	6.55 kg
Males:	6.50 kg
Females:	5.54 kg
2Total ingestion:	0.370 kg/d
2Food ingestion:	0.3574 kg/d
Water ingestion:	
Both sexes, all regions	0.537 L/d
Males:	0.534 L/d
Females:	0.462 L/d
Soil ingestion:	0.0126 kg/d
HR:	133.3 ha

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Little Brown Bat (Myotis lucifugus)

Life History

These are small bats that have brown fur above and light buff fur below. Adults range in length from 3 - 3.5 inches (7.6 - 8.9 cm) and weigh from 0.125 to 0.5 ounces (3.5 - 14.2 g). They have a wingspan of 6 - 8 inches (15.2 - 20.3 cm).

Little brown bats occur in cool temperate and boreal zones across North America (Chapman and Feldhamer 1989). Specifically, they range from Labrador west to central Alaska, south to the Appalachians in Georgia and Arkansas. They are found in most states except Florida, Texas, and southern California (Snyder 2002).

Females reach sexual maturity in 6 - 9 months and males in 12 months. They breed from September to October but females store the sperm for fertilization in the spring. Little brown bats typically have one offspring per year, and the young may become self-supporting within a month (Humphrey and Cope 1976). Although little brown bats may be very long lived (up to 20 - 30 years), the mean life remaining after weaning is 1.17 and 2.25 years for female little brown bats. (Humphrey and Cope 1976).

Little brown bats congregate in tightly packed groups in night roosts after the initial feeding period (Fenton and Barclay 1980). Hibernate in clusters during winter months in caves, mines, or large tree cavities. Humidy must be high in hibernation areas (preferably over 90%). The bats migrate from the summer roost area and to the winter hibernation areas, even though these areas may be within the same latitude (Chapman and Feldhamer 1989).

Little brown bats are Insectivorous and eat soft insects, usually dominated by flies (Whitaker et al. 1977). However, the diet shifts as other insects become more available (such as caddisflies). They feed primarily over wetlands and other still water where insects are abundant (Barbour and Davis 1969). They may also feed along forest edges. Whitaker 1972 found that 75% of the volume of food was moths, caddisflies, flies, leafhoppers, planthoppers, and beetle larvae. The insects eaten were small in size, usually under 10 mm. Adult little brown bat may eat 7 -8 insects per minute, with pregnant females eating 2.8 g/night, lactating females eating 3.7 g/night, and juveniles eating 1.8 g/night (Anthony and Kunz 1977). Snyder found that bats eat approximately 50% of their body weight in an evening.

For the purposes of this risk assessment, the following parameters will be used:

Body weight	8.9 g (average reported)
Ingestion rate	4.5 g/night (50% of the body weight).
Home Range	As no specific home range was noted, a value of 1 will be used

Water Ingestion Rate 1.4 mL/day based on the following allometric equation: WI (L/day) = 0.099Wt0.90 where Wt = average body weight in Kg.
Sediment Ingestion Rate As little brown bats feed on aerial insects, no sediment ingestion rate will be used.
Diet 100% insects

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LIFE HISTORY OF THE MALLARD DUCK (Anas platyrhynchos)

The mallard duck is a common surface-feeding duck that is widespread throughout most of the United States. They often interbreed with domestic ducks as well as with black ducks (Anas rubripes). Mallards are strongly sexually dimorphic. Males have a characteristic conspicuous green head, white neck ring, chestnut breast, and grayish body. The female is mottled brown with a white tail and purplish-blue speculum (Bull and Farrand 1977). The males are generally heavier than the females (Bellrose 1976). The breeding range for the mallard includes Alaska, Canada and Greenland, south to Virginia, Texas, and northern Mexico. Mallards winter as far north as conditions permit, as long as there is open water and access to food. They also winter south to Central America and the West Indies (Bull and Farrand 1977; Drilling et al. 2002).

Mallards are dabbling ducks. They prefer shallow, marshy habitat, where they feed on plant or animal food on and near the surface. Wintering mallards tend to prefer natural wetlands and rivers over reservoirs and farm ponds. The primary habitat requirement for nesting appears to be dense grassy

vegetation at least a half a meter high. Nests are usually located within a hundred meters (m) of water (Bellrose 1976; Duebbert and Lokemoen 1976).

Mallards are omnivorous, opportunistic feeders. In winter, mallards feed primarily on seeds but also on invertebrates, mast, agricultural grains, and, to a lesser extent, on leaves, buds, stems, rootlets, and tubers. In spring, the females shift from a largely herbivorous diet to primarily invertebrates in order to obtain enough protein for their molt and subsequent egg production. The animal diet continues throughout the summer as females produce new clutches to replace those that have been destroyed. Ducklings also consume aquatic fauna almost exclusively (Chura 1961; Drilling et al. 2002).

The mallard winters in all four of the waterfowl flyways of North America (Pacific, Central, Mississippi, and Atlantic); the Mississippi flyway contains the highest numbers of birds. They arrive at their wintering grounds in the Mississippi Valley in mid-September through early November and depart for their northern breeding grounds in March. Adult females that breed successfully are likely to return to the same nesting ground the following year. The drake usually establishes a territory which he defends (Bellrose 1976). A typical breeding home range includes the nest site and several feeding areas.

Most breeding pairs form on the wintering grounds. Mallards prefer upland to marsh habitats for their nest sites. Nests are typically found within 100 meters (m) of water. The female mallard forms a nest bowl or scrape in old plant litter or moist earth. The hen adds down sparingly to the nest until just prior to completion, when she plucks large amounts of down from her breast to form a fluffy ring (Bellrose 1976). The hen covers her eggs with the down lining when absent from the nest. The hen usually lays one egg per day until the clutch is complete. Clutch sizes range from 1 to 13 eggs, averaging 8 or 9 eggs. The eggs are ovate and vary in color from grayish buff to greenish buff (Bent 1923). Incubation occurs for 23 to 30 days with a 28 day average (Girard 1941); only the hen incubates the eggs. As soon as the newly hatched ducklings are dry, the hen leads them to water. Young birds are able to fly when they are 52 to 70 days old (Bellrose 1976). Mallards normally raise one brood per year, but will re-nest if the clutch is destroyed.

Nest failure is an important factor affecting mallard populations. Mammalian predators are the main cause of failure, followed by human disturbance. Juvenile survival depends mainly on food and habitat availability. Adult females suffer higher natural mortality rates than males; they are more vulnerable to predation while nesting. By fall, there is usually a higher proportion of males than females in most populations. Adult mortality rates are higher in areas with greater hunting pressure. Mallards are the most sought-after and harvested duck in North America. In some years, hunters harvest 20 to 25 percent (%) of the autumn population (Drilling et al. 2002). The life span of a mallard is 7 to 9 years, although more than half die before reaching 2 years of age (Fergus 2004). Longevity records of 13 years (Goetz 1950) and 23 years, 5 months (Clapp et al. 1982) have been reported.

Exposure Profile

Conservative exposure parameters are the highest (ingestion rates) or lowest (body weight [BW], home range [HR] size) values located in the literature. Representative exposure parameters are the average or midpoint of the values found for this species. When equations are used to calculate ingestion, representative ingestion rates (in units of amount ingested per day) are higher than conservative ingestion rates, since the corresponding BWs input into the equations are higher.

Adult body weights ranging from 0.55 kg to 1.82 kilograms (kg) have been reported for mallards (Poole 1938; Bellrose and Hawkins 1947; Nelson and Martin 1953; Stewart and Skinner 1967; Bellrose 1976; Finley et al. 1976; Piccirillo and Quesenberry 1980; Krapu 1981; Delnicki and Reinecke 1986; Whyte et al. 1986; Pehrsson 1987; Eldridge and Krapu 1988; Heitmeyer 1988; Whyte and Bolen 1988; Heinz et al.

1989; Smith and Anders 1989; Panek and Majewski 1990; Stubblefield et al. 1995; Stubblefield et al. 1995; Chukwudebe et al. 1998; Transport Canada 2003; Fergus 2004; Link 2007). Males are generally larger than females (Nelson and Martin 1953; Palmer 1976). The lowest value (0.55 kg) was used as a conservative estimate of BW; the average value (1.14 kg) was used as a representative estimate of BW.

A dietary composition ranging from 28 to 98.1% plants and 1.9 to 72% animals has been reported for this species. Aquatic invertebrates (gastropods, mollusks, crustaceans, larval insects) are the most important animal foods reported consumed by mallards; consumption of fish, frogs, and toads has also been observed (McAtee 1918; Martin et al. 1951; Anderson 1959; McGilvrey 1966; Mueller 1980; Swanson et al. 1985; Delnicki and Reinecke 1986; Gruehagen and Fredrickson 1990; Dabbert and Martin 2000). Animal food can be seasonally important; macroinvertebrates comprised 72 % (by volume) of the diet of female mallards during egg laying season (Swanson et al. 1985). For this risk assessment, it was assumed that a mallard=s diet is comprised of 81% vegetation and 19% invertebrates.

Ingestion rates of fresh natural food by mallards were derived from studies reporting ingestion rates of commercial duck rations (Gold Coin Feed Inc.; Davison and Sell 1974; Finley et al. 1976; White and Dieter 1978; White and Finley 1978; Piccirillo and Quesenberry 1980; Heinz et al. 1987; Stubblefield et al. 1995; Stubblefield et al. 1995; Amici et al. 1997; Chukwudebe et al. 1998) adjusted to fresh weight using the water contents of various dietary components (U.S. EPA 1993). These calculations resulted in fresh food ingestion rates ranging from 0.126 kilograms per day (kg/d) to 0.216 kg/d and averaging 0.169 kg/d. The highest value (0.216 kg/d) was used as a conservative estimate food ingestion; the average (0.169 kg/d) was used as a representative estimate of food ingestion.

A species-specific water ingestion rate could not be located for the mallard. Water ingestion rates were calculated using the allometric equation developed by (Calder and Braun 1983): WI (liters per day [L/d]) = 0.059 Wt 0.67, where WI is the daily water ingestion rate and Wt is the BW in kg. Using the above BWs, a conservative water ingestion rate of 0.04 L/d and a representative water ingestion rate of 0.064 L/d were calculated.

(Beyer et al. 1994) presented a soil ingestion rate for the mallard of 3.3% of the diet. Measures of the acid insoluble ash content in mallard feces presented in (Beyer et al. 1998) result in soil ingestion estimates ranging from less than 2% to 67% and averaging 1.3% (derived using the formula presented in Beyer et al. [1994]). To calculate a conservative estimate of soil ingestion in units of kg/d, the highest soil ingestion rate (67%) was multiplied by the highest food ingestion rate, yielding a value of 0.145 kg/d. To calculate a representative estimate of soil ingestion in units of kg/d, the average soil ingestion rate (2.9%) was multiplied by the representative food ingestion rate, yielding a value of 0.0049 kg/d.

Home range sizes reported for mallards vary from 3.9 hectares (ha) to 1440 ha (Gilmer et al. 1975; Dwyer et al. 1979; Krapu et al. 1983; Titman 1983; Kirby et al. 1985; Mauser et al. 1994; Mack et al. 2003). A conservative HR size of 3.9 ha and a representative HR size of 216 ha were used in this risk assessment.

In summary, the food chain model parameters used for the mallard are as follows:

Conservative Scenario:

BW:	0.55 kg
Total ingestion:	0.216 kg/d
1Food ingestion:	0.071 kg/d
Water ingestion:	0.04 L/d
Soil ingestion:	67% or 0.145 kg/d
HR:	3.9 ha

Representative Scenario:

BW:	1.14 kg
1Total ingestion:	0.169 kg/d
1Food ingestion:	0.164 kg/d
Water ingestion:	0.064 L/d
Soil ingestion:	2.9% or 0.0049 kg/d
HR:	216 ha

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Dioxin Toxicity to Mammals

Mature female dark mink were fed diets containing 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) at measured concentrations of 0.0006 (control), 0.016, 0.053, 0.180 or 1.4 µg/kg for 131 to 132 days {Hochstein, 2001 #2356}. Due to subnormal breeding in control females (probably due to indoor housing conditions), definitive effects of TCDD on reproduction could not be evaluated. However, there were dose-dependant decreases in kit birth weight and survival to 3 weeks of age in the groups that did reproduce. Females in the 0.016 and 1.4 µg/kg exposure groups failed to whelp. Final mink body weights were inversely proportional to dietary TCDD concentrations; mink the in highest exposure group lost 26% of their body weight during the study. Consumption of the 1.4 µg/kg diet resulted in lethargy, bloody stools and 16.7% mortality. A body weight of 1.13 kg and food ingestion rate of 0.249 kg/day {U.S. EPA, 1993 #268} were used to convert the exposure concentrations to units of mg/kgBW/day. Based on the observed mortality at an exposure concentration of 1.4 µg/kg, a LOAEL of 0.31 µg/kgBW/day and a NOAEL of 0.04 µg/kgBW/day were identified from this experiment.

Adult female mink were fed diets containing TCDD at nominal concentrations of 0, 0.001, 0.01, 0.1, 1 10 or 100 µg/kg for up to 125 days {Hochstein, 1998 #2355}. There was a dose-dependant decrease in food consumption and body weight. By Day 28, mortality was 12.5, 62.5 and 100% in the 1.0, 10 and 100 µg/kg exposure groups, respectively. At Day 125, mortality had increased to 62.5 and 100% in the 1.0 and 10 µg/kg groups. Calculated LC_{50} values were 0.264 µg/kgBW/day and 0.047 µg/kgBW/day for the 28- and 125-day exposure periods, respectively.

Sprague-Dawley rats were fed diets containing TCDD at concentrations of 0, 0.001, 0.01 or 0.1 µg/kgBW/day for three generations {Murray, 1977 #2354}. At an exposure concentration of 0.01 µg/kgBW/day, fertility was significantly decreased in the f_1 and f_2 generations. In the f_2 and f_3 generations, litter size, survival, and growth of pups were significantly decreased compared to control rats. Based on the observed reproductive effects, a LOAEL of 0.01 µg/kgBW/day and a NOAEL of 0.001 µg/kgBW/day were identified from this experiment.

Dioxin Toxicity to Birds

1.0 Toxicity of Dioxin to Adult Birds

White Leghorn chickens were exposed through their diet to soil contaminated with a mixture of 2,3,7,8-substituted polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/PCDFs) at concentrations of less than 0.5 pg/g International Toxic Equivalent Quantity (I-TEQ; control), 42 pg/g I-TEQ, and 460 pg/g I-TEQ for 178 days (Stephens et al. 1995). All chickens remained in good health throughout the study and no gross abnormalities were observed at necropsy. Egg production was similar for all exposure groups. The authors reported daily intakes of 2.5 ng I-TEQ/kg/day and 0.3 ng I-TEQ/kg/day for the high and low exposure groups, respectively. Because no adverse effects were observed at the highest exposure concentration, a NOAEL of 0.0000025 mg/kg/day was identified from this experiment.

Matsushita et al. (2002) evaluated the effects of maternal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on second generation chicks. TCDD was administered intramuscularly to Barred Plymouth Rock hens at a concentration of 0 or 200 ng/kg once a week from 14 to 23 weeks of age. Egg production by TCDD-exposed hens started at 20 weeks of age, two weeks earlier than in controls. Egg production by the exposed hens ceased between 23 and 24 weeks of age, and did not start again until two weeks after exposure stopped. Hatchability of the eggs produced by the TCDD-exposed hens was lower than for the control group, and the sex

ratio (percent [%] males) was slightly higher than for controls. Based on the effects on egg production, a LOAEL of 0.000029 mg/kg/day (0.0002 mg/kg/week) was identified from this experiment.

Sexually mature (40 to 45 week old) hen pheasants (Phasianus colchicus) were administered intraperitoneal (ip) injections of TCDD at concentrations of 0, 0.01, 0.1 or 1.0 micrograms per kilogram (µg/kg) one time per week for 10 weeks (Nosek et al. 1992). No mortality was observed in any treatment group during the 10 week dosing period. Mortality was observed in birds exposed at a concentration of 1.0 µg/kg; 57% of the birds in this group died between weeks 15 and 24. Egg production by birds in the highest dose group was significantly lower, and mortality of embryos from fertilized eggs was significantly higher than in control birds ($p < 0.05$, one-way ANOVA, followed by least-significant differences tests). Greater than 98% embryo mortality was observed in eggs laid by hens exposed at a concentration of 1.0 µg/kg. Based on the observed mortality, reduced egg production, and lower embryo survival at an exposure dose of 1.0 µg/kg/week, a LOAEL of 0.00014 mg/kg/day and a NOAEL of 0.000014 mg/kg/day were identified from this experiment.

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Stephens, R. D., M. X. Petreas and D. G. Hayward. 1995. Biotransfer and bioaccumulation of dioxins and furans from soil: chickens as a model for foraging animals. Science of the Total Environment 1975: 253-273.

2.0 Toxic Concentrations of Dioxin in Bird Eggs

The U.S. EPA recently summarized literature describing toxic effects of dioxin-like chemicals to birds (U.S. EPA 2003). This report focuses on effects of exposure to dioxin-like chemicals on survival and development of avian embryos and chicks. In laboratory studies, geometric means of LOAELs reported for embryo mortality ranged from 0.21 µg TEQ/kg egg for chickens to 5.00 µg TEQ/kg egg for kestrels. Geometric means for NOAELs ranged from 0.068 µg TEQ/kg egg for chickens to 50 µg TEQ/kg egg for herring gulls and black-headed gulls. In field studies, geometric means of LOAELs reported for developmental effects ranged from 0.02 µg TEQ/kg egg for wood ducks to 1.42 µg TEQ/kg egg for Caspian terns. Geometric means for NOAELs from field studies ranged from 0.005 µg TEQ/kg egg for wood ducks to 1.44 µg TEQ/kg egg for Caspian terns. Results from individual laboratory and field studies are summarized below.

2.1 Laboratory Studies

Double-crested cormorant eggs were injected with TCDD at concentrations of 0, 0.06, 0.25, 1.0 or 4.0 micrograms per kilogram (µg/kg) egg, wet weight (Powell et al. 1997). No significant effects on hatchling body weight, teratogenicity, or pronounced edema were observed at any exposure concentration. Embryo mortality at the highest exposure dose (4.0 µg/kg egg) was significantly greater than controls. Mortality data were not sufficient to calculate the dose that resulted in 50% mortality above controls (LD50) for TCDD. Based on the observed embryo

mortality, a LOAEL of 4.0 µg TCDD/kg egg and a NOAEL of 1.0 µg TCDD/kg egg were identified from this study.

Double-crested cormorant eggs were injected with TCDD at concentrations of 0, 1.3, 5.4, 10.7 or 11.7 µg/kg egg (Powell et al. 1998). No significant effects on hatchling body weight or incidence or abnormalities were observed at any exposure concentration. Embryo mortality at exposure concentrations of 5.4 µg/kg egg and greater were significantly greater than mortality of control embryos. An LD50 concentration of 4.0 µg/kg egg was calculated.

Yolks of White Leghorn chicken eggs were injected with TCDD at doses ranging of 0, 0.04, 0.08, 0.16, 0.32 and 0.64 µg/kg egg prior to incubation (Powell et al. 1996). No significant differences in hatchling body weights or the occurrence of developmental abnormalities (structural defects and edema) were observed in TCDD-exposed embryos. Embryo mortality at TCDD doses of 0.16 µg/kg and higher was significantly greater than control embryo mortality. A LOAEL of 0.16 µg TCDD/kg egg and a NOAEL of 0.08 µg TCDD/kg egg were identified from this study.

The albumin or yolk of fertilized ring-necked pheasant eggs were injected with vehicle or graded doses of TCDD at concentrations of 0, 0.01, 0.1, 1, 10, 100, 1000, 10,000 or 100,000 picograms TCDD per gram (pg TCDD/g) egg on Day 0 of embryonic development (Nosek et al. 1993). Toxicity was assessed in 1 day old hatchlings and 28 day old chicks. The calculated LD50 was 1,354 pg TCDD/g egg injected into the egg albumin and 2,182 pg TCDD/g egg injected into the yolk. A significant increase in embryo mortality was observed at a TCDD dose of 1,000 pg TCDD/g egg injected into the albumin. A LOAEL of 1.0 µg TCDD/kg egg and a NOAEL of 0.1 µg TCDD/kg egg were identified from this study.

White Leghorn chicken eggs were injected into the yolk or air-cell with TCDD at concentrations of 0, 10, 30, 60, 100, 300 or 1000 pg TCDD/g egg on Day 0 of embryonic development (Henshel et al. 1997). Calculated LD50s were 122 pg TCDD/g egg injected into the egg yolk, and 297 pg TCDD/g egg injected into the air space. Exposure concentrations of 100 pg/g and greater resulted in significantly increased embryo mortality and decreased hatchling weight. A LOAEL of 0.1 µg TCDD/kg egg and a NOAEL of 0.06 µg TCDD/kg egg were identified from this study.

Henshel, D. S., B. Hehn, R. Wagey, M. Vo and J. D. Steeves. 1997. The relative sensitivity of chicken embryos to yolk- or air-cell injected 2,3,7,8-tetrachlorodibenzo-p-dioxin. Environ. Toxicol. Chem. 16: 725-732.

Nosek, J. A., J. R. Sullivan, S. R. Craven, A. Gendron-Fitzpatrick and R. E. Peterson. 1993. Embryotoxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the ring-necked pheasant. Environ. Toxicol. Chem. 12: 1215-1222.

Powell, D. C., R. J. Aulerich and J. C. Meadows. 1996. Effects of 3,3',4,4',5-pentachlorobiphenyl (PCB 126) and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) injected into the yolks of chicken (Gallus domesticus) eggs prior to incubation. Arch Environ. Contam. Toxicol. 31: 404-409.

Powell, D. C., R. J. Aulerich and J. C. Meadows. 1997. Effects of 3,3',4,4',5-pentachlorobiphenyl (PCB 126), 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), or an extract derived from field-collected cormorant eggs injected into double-crested cormorant (Phalacrocorax auritus) eggs. Environ. Toxicol. Chem. 16: 1450-1455.

Powell, D. C., R. J. Aulerich and J. C. Meadows. 1998. Effects of 3,3',4,4',5-pentachlorobiphenyl and 2,3,7,8-tetrachlorodibenzo-p-dioxin injected into the yolks of double-crested cormorant (Phalacrocorax auritus) eggs prior to incubation. Environ. Toxicol. Chem. 17: 2035-2040.

U.S. EPA. 2003. Analyses of Laboratory and Field Studies of Reproductive Toxicity in Birds Exposed to Dioxin-like Compounds for use in Ecological Risk Assessments. United States Environmental Protection Agency. EPA/600/R-03/114F. pp.

2.2 Field Studies

Woodford et al. (1998) collected osprey eggs from areas up- and downstream of two bleached-kraft mill facilities. Eggs collected downstream contained higher concentrations of 2,3,7,8-tetrachlorodibenzo-p-dioxin (ranging from 29 to 162 pg/g wet weight, geometric mean of 78 pg/g, n = 18) than eggs collected from upstream reference areas (ranging from below detection limit to 23.8 pg/g wet weight, n = 15). Concentrations of other planar halogenated hydrocarbon congeners and other nonplanar organochlorines were not statistically different between up- and downstream areas. Eggs collected from downstream areas were placed into nests in the reference areas, and eggs collected upstream were placed in downstream nests. No significant differences were observed in egg hatching or chick fledging rates. A repeated-measures test of mass increase indicated that nestlings exposed to elevated TCDD concentrations in ova (chicks from downstream nest eggs raised by reference adults) or through post-hatch ingestion of contaminated fish (chicks from reference nest eggs raised by downstream adults) grew more slowly than chicks from reference egg nests left in place. Mass increase rates of chicks differed significantly, with the highest rates in chicks from reference area eggs raised by reference area adults, and the lowest rates in chicks from reference area nests raised by downstream adults. Nest attentiveness and food delivery rates did not differ between reference and downstream areas. Because TCDD concentrations in food delivered to nestlings was not measured, an exposure concentration could not be calculated for this measured effect. Based on the lack of effect on hatching or fledging rates, a NOAEL of 78 pg/g egg (0.078 µg/kg) was observed in this experiment.

Pairs of great blue heron eggs were collected from heron colonies with low (10 ng TCDD/kg egg wet weight), intermediate (135 ng/kg) and high (211 ng/kg) levels of dioxin contamination (Hart et al. 1991). One egg from each pair was analyzed for PCDDs and PCDFs, while the other was incubated in the laboratory. All incubated eggs were fertile. There was no difference in embryo mortality and hatch success between the three groups. Yolk-free body weights of chick s from the most contaminated colony were significantly lower than weights of chicks from the least contaminated colony. Kidney weights; tibia length, dry and ash weight; and beak length were significantly lower in chicks from the intermediate and high TCDD colonies. Subcutaneous edema was observed in 4 of 12 chicks from the high TCDD colony, 2 of 13 chicks from the intermediate colony, and 0 of 11 from the low TCDD colony. Based on the growth depression observed in chicks from the high TCDD colony (low yolk-free body weight), a LOAEL of 211 ng/kg (0.211 µg/kg) egg and a NOAEL of 135 ng/kg (0.135 µg/kg) egg was identified from this experiment.

Nesting wood ducks from a wetland area contaminated with PCDDs and PCDFs were studied by White and Seginak (1994). Nest boxes were erected at sites 9, 17 and 58 kilometers (km) downstream from the point source, and a reference site on a separate drainage. Residues in eggs, based on toxicity equivalency factors (TEFs) ranges from 0.2 to 611 pg/g; TCDD comprised 70% of the total residue. Nest success, hatching success, and duckling production

were significantly lower at nesting sites 9 and 17 km downstream from the source than at the reference site (geometric mean TCDD concentrations of 36, 14 and 0.01 pg/g egg, respectively). Hatching success was also significantly lower at the nest site 58 km downstream of the source (geometric mean TCDD concentration of 4.2 pg/g egg). Nests were arbitrarily grouped based on TEF concentration to identify a range where an effect on wood duck productivity was evident. When egg TEFs ranged from greater than 20 to 50 pg/g, nest success, hatch success, and duckling production dropped 30 to 40% compared with the less the 5 pg/g group. A LOAEL range of 0.021 to 0.05 µg/kg and a NOAEL of 0.005 µg/kg was identified in this experiment.

Hart, L. E., K. M. Cheng and P. E. Whitehead. 1991. Dioxin contamination and growth and development in great blue heron embryos. J. Toxicol. Environ. Health 32(3): 331-344.

White, D. H. and J. T. Seginak. 1994. Dioxins and furans linked to reproductive impairment in wood ducks at Bayou Meto, Arkansas. J. Wildl. Manage. 58: 100-106.

Woodford, J. E., W. H. Karasov, M. W. Meyer and L. Chambers. 1998. Impact of 2,3,7,8-TCDD exposure on survival, growth and behavior of ospreys breeding in Wisconsin, USA. Environ. Toxicol. Chem. 17(7): 1323-1331.

3.0 Bird Egg Concentration Estimation

Dioxin and dioxin-like chemicals have been shown to cause mortality, deformity, and inhibited development of bird embryos and hatchlings (U.S. EPA 2003). The majority of peer-reviewed studies that were located evaluated toxicity of dioxin to birds by examining egg concentrations that resulted in adverse effects. In many field studies, bird egg concentrations are not measured, while whole-body bird concentrations may be available. Therefore, in order to estimate TCDD concentrations in bird eggs, an egg to whole-body ratio was calculated from data presented in Nosek et al. (1992), Nosek et al. (1993), and Stephens et al. (1995) as described below.

Sexually mature (40 to 45 week old) hen pheasants (Phasianus colchicus) were administered ip injections of TCDD at concentrations of 0, 0.01, 0.1 or 1.0 µg/kg one time per week for 10 weeks (Nosek et al. 1992). Hen whole-body TCDD concentrations were not measured, but were estimated as being equal to the cumulative dose injected over a ten week period (10 µg/kg; Nosek et al. 1993). Pheasant egg TCDD concentrations were measured, and 1.1 percent of the cumulative dose to the hen was transferred to each individual egg (0.110 µg/egg; average egg weight 30.5 g; TCDD concentration per egg, 3.61 µg/kg; Nosek et al. 1992). The egg concentrations were divided by the hen whole-body TCDD concentration (wet weight) to calculate a ratio of 0.361.

Stephens et al. (1995) exposed chickens through their diet to soil contaminated with TCDD; food consumption and actual dietary concentrations were measured. Daily intake was 2.5 ng I-TEQ/kg/day; TCDD comprised 2.81% of the I-TEQ dose. Daily TCDD intake was calculated to be 0.073 ng TCDD/kg/day. Egg, liver and adipose tissue were analyzed after 80 and 160 days of exposure. At day 80, 80% of the TCDD consumed was present in these three compartments; approximately 26% of the measured TCDD was present in eggs. Cumulative TCDD intake at Day 80 was 5.84 ng/kg, and the egg TCDD concentration was calculated to be 1.52 ng TCDD/kg. Assuming that 100% of the ingested dose was retained by females, this egg concentration was divided by the hen whole-body TCDD concentrations to yield a ratio of 0.260. At Day 164, 65% of the TCDD consumed was present in these three compartments; approximately 30% of the measured TCDD was present in eggs. Cumulative TCDD intake at Day 164 was 11.97 ng/kg, and the egg TCDD concentration was calculated to be 3.59 ng TCDD/kg. Assuming that 100%

of the ingested dose was retained by females, this egg concentration was divided by the hen whole-body TCDD concentrations to yield a ratio of 0.300.

The average of the above ratios was calculated, and a ratio of 0.307 was obtained. This ratio can be used to estimate egg TCDD concentrations if female whole-body concentrations are known. For both of the above studies, it was assumed that 100% of the administered dose was retained by the hen, and that the only excretion route was deposition into the egg. The above two studies support the assumption that deposition into eggs is a major route of excretion. Nosek et al. (1992) estimated that pheasant hens laying two clutches per year comprised of 15 eggs per clutch would excrete approximately 30% of their cumulative TCDD dose. Stephens et al. (1995) measured excretion rates of 26 to 30% to the egg. However, this ratio may underestimate egg concentrations if dioxin is metabolized by hens or excreted by another route

Nosek, J. A., S. R. Craven, J. R. Sullivan, J. R. Olson and R. E. Peterson. 1992. Metabolism and disposition of 2,3,7,8-tetrachlorodibenzo-p-dioxin in ring-necked pheasant hens, chicks, and eggs. J. Toxicol. Environ. Health 35(3): 153-164.

Nosek, J. A., J. R. Sullivan, S. R. Craven, A. Gendron-Fitzpatrick and R. E. Peterson. 1993. Embryotoxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the ring-necked pheasant. Environ. Toxicol. Chem. 12: 1215-1222.

Stephens, R. D., M. X. Petreas and D. G. Hayward. 1995. Biotransfer and bioaccumulation of dioxins and furans from soil: chickens as a model for foraging animals. Science of the Total Environment 1975: 253-273.

Toxicity Profiles for Birds and Mammals

Derivation of Toxicity Reference Values

A toxicity reference value (TRV) is a contaminant dose level that is compared with a predicted exposure dose level, calculated based on site-specific data, to assess the presence and degree of risk to a receptor or group of receptors from that contaminant. A TRV is generally based on data from laboratory toxicological evaluations. Usually, two TRVs are used to predict ecological risk, a no observable adverse effect level (NOAEL) and a lowest observable adverse effect level (LOAEL). The NOAEL is the highest dose at which adverse effects are not expected to occur, and the LOAEL is the lowest dose at which adverse effects are expected to occur.

In order to derive TRVs, a comprehensive literature search was performed to identify studies on the toxicity of contaminants of concern (COCs) to ecological receptors. A variety of databases were searched, including Biological Abstracts, Applied Ecology Abstracts, Chemical Abstract Services, Medline, Toxline, BIOSIS, ENVIROLINE, Current Contents, Hazardous Substances Data Bank (HSDB), Registry of Toxic Effects of Chemical Substances (RTECS), Integrated Risk Information System (IRIS), and the Aquatic Toxicity Information Retrieval Database (AQUIRE).

In addition, a number of secondary literature sources provided summaries or reviews of toxicological literature related to a variety of contaminants. These documents were not used directly to derive TRVs because they do not capture the details of the toxicological methods needed for the selection of technically defensible TRVs. However, these summary documents provided an excellent source for locating original studies that may have been overlooked in the database searches. Examples of such summary documents include Agency for Toxic Substances and Disease Registry (ATSDR) documents, United States (U.S.) Fish and Wildlife Service Contaminant Hazard Reviews, U.S. Environmental Protection Agency (EPA) Great Lakes Water Quality Initiative documents, and U.S. EPA Ambient Water Quality Criteria documents.

Studies that were obviously not useful or appropriate for deriving a TRV were eliminated. A number of criteria were considered when evaluating the appropriateness of using a particular study for deriving a TRV. The most important consideration was the suitability of the test result for evaluating the assessment endpoint. A number of additional criteria were also considered. For example, studies were selected in which the test organism was in as similar a taxonomic grouping as possible to the measurement endpoint species. Exposure doses had to be quantified and effects measured and reported. The exposure duration was preferably either chronic, sub-chronic, or involved a sensitive life stage; multi generational studies were also appropriate. For laboratory studies, the likelihood that a similar result would be obtained if the test were repeated was an additional consideration. Sample sizes had to be adequate and the treatment groups must have been compared to appropriate control groups. At the very least, a negative control had to be included in the study design. In addition, the measured endpoints of the study had to be ecologically relevant. For the purposes of deriving a TRV for an

ecological risk assessment, an ecologically relevant endpoint is one which is closely tied to the survival and viability of a population in the field. Usually, the endpoints measured for this purpose were survival, growth, and reproduction. In addition, appropriate statistical analyses must have been performed and the statistical significance reported. Finally, the study design preferably included at least three treatments in addition to any controls which may have been selected.

The selected TRVs were based preferably on high-quality studies which satisfy many or all of the above requirements. From these studies, the lowest concentration that was associated with adverse ecological effects on the test organism was selected as the LOAEL. Studies which reported both a LOAEL and NOAEL were selected over studies which reported only one effect level, due to the uncertainty associated with an unbounded effect level. If only a LOAEL could be identified from the studies, an uncertainty factor of 10 was used to calculate a NOAEL (Dourson and Stara 1983; U.S. EPA 1989; Sample et al. 1996; Amdur et al. 1996). If a LOAEL could not be located for a COC, a median lethal dose (LD50) was selected; a factor of 10 was then used to calculate a LOAEL and a factor of 100 was used to calculate a NOAEL. Finally, if no adverse effect level could be located for a COC, the highest reported NOAEL was selected, and a factor of 10 was used to calculate a LOAEL. Professional judgement was used in some cases to select the most appropriate TRV.

The studies that were reviewed to derive toxicity reference values for this risk assessment are described below. Concentrations selected to be used as TRVs are summarized in Table 18.

Amdur, M.O., J. Doull, and C.D. Klaasen. 1996. Casarett and Doull's Toxicology: The Basic Science of Poisons. 5th Ed. New York: McGraw-Hill. p. 80-81.

Dourson, M.L. and J.F. Stara. 1983. Regulatory History and Experimental Support of Uncertainty (Safety) Factors. Regulatory Toxicology and Pharmacology. 3: 224-238.

Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Prepared for the U.S. Department of Energy. ES/ER/TM-86/R3.

U.S. EPA (United States Environmental Protection Agency). 1989. Risk Assessment Guidance for Superfund. Volume I. Human Health Evaluation Manual (Part A). Interim Final. Office of Emergency and Remedial Response. EPA/540/1-89/002.

Chronic Toxicity of PCBS to Birds

A dietary concentration of 1500 mg/kg (dry weight) was administered to red-winged blackbirds for six days, by which time 50 percent of the birds had died (Stickel et al. 1984). Due to the acute nature of this study (short duration and high mortality), it was not used to assess the chronic effects of PCBs to birds in this risk assessment.

Mallard ducklings over 9 weeks of age, were fed a PCB-treated diet for 5 days, followed by 3 days of an untreated diet. The 8-day LC50s ranged from 1,975 mg/kg for Aroclor 1260 to 3,182 mg/kg for Aroclor 1242 (Heath et al. 1972). The lowest LC50 value was converted to a LOAEL of 197.5 mg/kg using an accepted conversion factor of 10. In order to express this value in units of mg/kg BW/day, a food ingestion rate of 0.0578 kg/day and a body weight of 0.936 kg reported for 8-week old mallard ducks were used (Sugden et al. 1981). This resulted in a LOAEL concentration of 12.2 mg/kg BW/day.

When Aroclor 1254 was fed to 9 month-old mallard hens at a concentration of 25 mg/kg, dry weight, in the diet for at least one month prior to egg laying, no detrimental effects on reproduction or nest attentiveness were observed (Custer and Heinz 1980). Assuming that the diet was one-third solids, this equates to a wet weight concentration of approximately 8.3 mg/kg. To convert this dosage to units of mg/kg BW/day, the dose was first multiplied by the food ingestion rate for the mallard duck of 0.139 kg/day, then divided by an adult body weight of 1.24 kg (Piccirillo and Quesenberry 1980) to yield a NOAEL of 0.92 mg/kg BW/day.

When screech owls were fed Aroclor 1248 in their diet at a concentration of 3 mg/kg for two breeding seasons, the number of eggs per clutch, hatchability, chick malformations, survival, and eggshell thickness were not affected (McLane and Hughes 1980). To convert to units of mg/kg BW/day, this value was divided by the reported mean body weight of 0.185 kg for screech owls (Dunning 1993) and multiplied by a food ingestion rate of 0.025 kg/day (Pattee et al. 1988). This resulted in a dietary exposure concentration (NOAEL) of 0.41 mg/kg BW/day.

Nestling white pelicans captured from the wild received 100 mg of Aroclor 1254 as daily oral doses for 10 weeks in addition to a controlled diet. Following the 10 week exposure period, the birds were stressed for an additional 2 weeks by reducing their food consumption in half. The initial mean body weight of the birds prior to the treatment was 6.2 kg. The mean body weight at the end of the 12 week experimental period was 4.8 kg. Micrograph examination of the livers from the birds in the treatment group indicated a 22 percent increase in hepatocyte size, a significant 25 percent increase in the number of mitochondria, a significant 20 percent fewer cristae per mitochondria, and a 22 percent increase in the number of lysosomes, microbodies, and other membrane-bounded vacuoles (Stotz and Greichus 1978). To convert to units of mg/kg BW/day, the dose (100 mg/day) was multiplied by the inverse of the lower mean body weight (from the end of the experimental period) to yield an exposure concentration of 20.8 mg/kg BW/day.

When Lillie et al. (1975) exposed chickens to diets containing either Aroclor 1016, 1232, 1242, 1248, or 1254 for 8 weeks, hatching success was significantly reduced at a concentration as low as 10 mg/kg (for Aroclor 1232 and Aroclor 1242), while no effects were noted at a concentration of 5 mg/kg. These values were converted to 0.71 and 0.36 mg/kg BW/day, respectively, using the reported body weight and ingestion rate for chickens indicated above. Similar results were described in Britton and Huston (1973), in which eggs from chickens fed diets containing 10 mg/kg Aroclor 1242 also exhibited

reduced hatching success. Again, no effects were observed at a dietary concentration of 5 mg/kg. Similar results were also obtained by Scott (1977), in which hatching success was also decreased in chickens fed a diet containing 10 mg/kg Aroclor 1248. In this study, no effects were observed at 1 mg/kg. The value of 1 mg/kg was converted to a NOAEL of 0.071 mg/kg BW/day using a body weight of 1.45 kg and an ingestion rate of 0.103 kg/day for adult chickens (U.S. EPA 1988).

When Platanow and Reinhart (1973) exposed chickens to Aroclor 1254 in the diet, a concentration of 5 mg/kg resulted in a decrease in both egg production and female fertility. This concentration was converted to a dietary dosage of 0.36 mg/kg BW/day using the reported body weight and ingestion rate indicated above. Finally, when Lillie et al. (1974) exposed chickens to diets containing either Aroclor 1221, 1232, 1242, 1248, 1254, or 1268, chick growth was significantly reduced at a concentration as low as 2 mg/kg (for Aroclors 1248 and 1254). To convert this concentration to units of mg/kg BW/day, the body weight and ingestion rate indicated above were used, yielding a dietary dosage of 0.14 mg/kg BW/day.

Yearling male American kestrels were fed prey items (day-old cockerels) containing approximately 33 mg/kg, wet weight, of Aroclor 1254 for 62 to 69 days. This dose was converted by the investigators to a daily exposure concentration of 9 to 10 mg/kg BW/day. Kestrels receiving the treated diet exhibited a significant 22 to 27 percent reduction in sperm concentrations. This response was associated with a muscle PCB concentration of 107 mg/kg, lipid normalized, and a testes concentration of 128 mg/kg, lipid normalized (Bird et al. 1983).

Male and female pairs of American kestrels were fed diets containing 3 mg/kg, wet weight, of Aroclor 1248 incorporated into a commercial diet for approximately 20 weeks. Eggs were collected from the pairs 2 to 4 days after egg-laying was complete. The eggs collected from the treated pairs of birds exhibited a five percent reduction in eggshell thickness. This response was associated with a parent muscle tissue PCB concentration of 18.5+5.1 mg/kg, wet weight (Lowe and Stendell 1991). An ingestion rate of 0.0307 kg/day (Barrett and Mackey 1975) and a body weight of 0.111 kg (Dunning 1993) were used to convert the exposure concentration to units of mg/kgBW/day, resulting in a LOAEL of 0.83 mg/kgBW/day. A recent summary paper by Peakall and Lincer (1996) indicates that PCBs do not cause eggshell thinning except at very high doses that are likely to cause other reproductive toxicological effects as well. Therefore, the LOAEL based on this study was not used to derive a TRV for evaluating the dietary toxicity of PCBs in birds.

Summer et al. (1996a) exposed white Leghorn hens for eight weeks with commercial diets mixed with contaminated carp from Saginaw Bay, Lake Huron. The concentrations of PCBs in the resulting diets, measured as the sum of Aroclors 1242, 1248, 1254, and 1260, were 0.3 mg/kg (control), 0.8 mg/kg, and 6.6 mg/kg, wet weight. Hens were artificially inseminated weekly, and food consumption, body weights, and egg production were monitored daily. Food consumption initially declined in all the treatment groups but was greatest in the high dose group by the end of the study. Body weights were

greater in the control and the low dose groups by the end of the study. Finally, egg production initially decreased during the acclimation period prior to the study, but egg production in the high dose group returned to pre-trial levels by the end of the study while egg production in the control and the low dose group remained significantly lower. The decreased egg production, as well as the increased body weights, in the control and the low dose group were explained by the authors as effects of fatty liver hemorrhagic syndrome (FLHS), with which the necropsy results were consistent. It was hypothesized that the PCBs in the high dose group provided a protective mechanism against FLHS, thus resulting in the higher egg production, since this protective mechanism had been observed in other studies. In a second phase of this experiment (Summer et al. 1996b), eggs were allowed to develop through day 25 of incubation, and hatching and deformity rates were observed and noted. Rates of deformities correlated with concentrations of PCBs in food, and both treatments (0.8 and 6.6 mg/kg, wet weight, in the diet) produced significantly higher rates of deformities (24% and 40%, respectively) compared to the control (17%). To convert the lower PCB treatment concentration (0.8 mg/kg, wet weight) to units of mg/kg BW/day, the average daily PCB consumption of hens in this treatment group reported by the authors (Summer et al. 1996a) for the 8-week duration of the study (67.1 ug/day) was divided by the corresponding average body weight (1620 g) to obtain a dietary dosage of 0.0414 mg/kg BW/day. To convert the control PCB concentration (0.3 mg/kg, wet weight) to units of mg/kg BW/day, the average daily PCB consumption of hens in this treatment group reported by the authors (Summer et al. 1996a) for the 8-week duration of the study (26.75 ug/day) was divided by the corresponding average body weight (1690 g) to obtain a dietary dosage of 0.0158 mg/kg BW/day. Although this study provided the lowest LOAEL and NOAEL of the studies presented here, these values were not selected for use in this risk assessment because the food source for the study came from an area that is known to contain a variety of pollutants in addition to PCBs, and the contribution of these other contaminants to the effects observed in this study are unknown.

Another study investigated the behavioral component of reproduction in mourning doves given dietary supplements of 0, 10, or 40 mg/kg Aroclor 1254 (Tori and Peterle 1983). The exposure concentrations were converted to units of mg/kgBW/day using an ingestion rate of 0.0112 kg/day and a body weight of 0.1 kg (Kenaga 1973), resulting in doses of 0, 1.12 mg/kg BW/day, and 4.48 mg/kg BW/day. Control doves displayed normal courtship behaviors and patterns. Doves that were fed at the 10 ppm (1.12 mg/kg BW/day) level spent twice as much time in the courtship phase as the control birds, with only 50% completing courtship and nesting. Of the 50% that did nest and incubate eggs, nest initiation was significantly delayed, resulting in a delay in egg laying as well. None of the doves on the 40 ppm dietary supplement completed the nesting process (Tori and Peterle 1983). The authors hypothesized that the decline of reproductive activity was induced by the degradation of estrogen and androgen in the birds, which is presumably a result of increased hepatic microsomal enzyme activity as a response to the presence of PCBs.

Peakall and Peakall (1973) maintained ring doves on a diet that contained 10 mg/kg Aroclor 1254. They found that reproductive success was dependent on exposure of the

female to the PCB compound. Females fed PCB-spiked food were less attentive to their nest and had erratic nesting behaviors which interfered with egg development. Artificial incubation greatly increased the breeding success for these birds. The food concentration of 10 mg/kg was converted to units of mg/kg BW/day using an ingestion rate of 0.015 kg/day and a body weight of 0.160 kg (Schwarzbach et al 1991), resulting in a LOAEL of 0.94 mg Aroclor 1254 /kgBW/day. Similar values were obtained by Peakall et al. (1972) for the ringed turtle dove, in which a dietary Aroclor 1254 concentration of 10 mg/kg adversely affected hatching success due to heavy embryonic mortality .

The results of the Peakall and Peakall (1973) and Peakall et al. (1972) studies were selected for use in this risk assessment due to the significance of the endpoints (reproductive success and behavior) and the specificity of the test chemical (PCBs only). Therefore, a LOAEL of 0.94 mg/kg BW/day and an estimated NOAEL of 0.094 mg/kg BW/day will be used in this risk assessment to evaluate the risk from PCBs to avian species.

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Chronic Toxicity of PCBs to Mammals

Several studies were found pertaining to the dietary toxicity of PCBs to mink, most of which examined effects on reproduction, growth and survival. Since the mink is the most sensitive mammal species tested to date, these studies were the only studies reviewed to derive a TRV for mammals for this risk assessment.

In a preliminary study to determine the cause of reproductive complications in mink fed Great Lakes fish, adult breeder mink were fed a basal diet supplemented with 30 mg/kg of PCBs for six months (181 days). However, all of the mink died, emaciated, by the end of the experimental period (Aulerich and Ringer 1977). As a result of the preliminary study, a long-term study was conducted to determine the effects of long-term, low-level consumption of PCBs on growth. Mink were fed a basal diet supplemented with 5 and 10 mg/kg of PCBs for a period of approximately 8.5 months. The basal diet plus 10 mg/kg of PCBs resulted in a significant 56 percent decrease in body weight gain after a period of 4 months. Body weight gain was reduced by 39 percent in the 5 mg/kg treatment group, but this reduction was not statistically significant. Both the 5 and 10 mg/kg treatment groups failed to produce offspring; the control group produced 17 live and 8 dead kits. Various degrees of embryotoxicity were observed during necropsy of the treated animals (Aulerich and Ringer 1977). The 5 and 10 mg/kg doses were converted to daily exposure concentrations by multiplying them by a food ingestion rate of 0.249 kg/day (U.S. EPA 1993) and dividing by a body weight of 1.13 kg (Merritt 1987). This yielded exposure concentrations of 1.1 and 2.2 mg/kg BW/day for the 5 and 10 mg/kg treatment groups, respectively.

Based on the results of the above experiment, another experiment was conducted to determine the effects of long-term consumption of low-level PCBs on reproduction. Fifteen mg/kg of Aroclor 1254 in the diet resulted in a complete inhibition of reproduction and 31 percent adult mortality, compared to 6 percent mortality in the controls. Five mg/kg of Aroclor 1254 resulted in a 95 percent reduction in the number of kits born live; the ratio of live kits to female adults was reduced by 87 percent. In an effort to determine the persistence of the impaired reproductive condition, 11 adult females that received 5 mg/kg of Aroclor 1254 for a period of six months were placed on a control diet for one year. The results indicate that the impaired reproductive performance of these females was not a permanent condition (Aulerich and Ringer 1977). The 5 and 15 mg/kg doses were converted to daily exposure concentrations using the conversion factors cited above, resulting in exposure concentrations of 1.1 and 3.3 mg/kg BW/day, respectively.

In another experiment, mink were fed one of four diets supplemented with 2 mg/kg of a different Aroclor (1016, 1221, 1242 or 1254) or a control ration for nine months prior to whelping until kits were four weeks old (Aulerich and Ringer 1977). Aroclor 1254 was the only PCB that adversely affected reproduction. Only two of seven mated females whelped, and only one live kit was produced (compared to eight of eight whelped and 28 live kits produced by females fed the control diet). The single kit produced by the Aroclor 1254 exposed mink weighed considerably less that the kits produced by the control female. The exposure concentration was converted to units of mg/kgBW/day using a food ingestion rate of 0.249 kg/day (U.S. EPA 1993) and a body weight of 1.13 kg (Merritt 1987). A LOAEL of 0.44 mg/kgBW/day and an estimated NOAEL of 0.044 mg/kgBW/day were calculated based on results of this experiment.

Eight month old mink fed a basal diet containing 1.0 mg/kg of Aroclor 1254 for a period of approximately six months exhibited no mortality or any significant changes in the

thyroid, pituitary, adrenal glands, or serum T3 and T4 levels (Wren et al 1987a). Reproduction and kit development was evaluated under the same test conditions in a separate study (Wren et al. 1987b) by the same investigators. Male fertility and female offspring production were not affected by the 1.0 mg/kg Aroclor 1254 diet. However, growth rate of kits nursed by exposed mothers was significantly reduced. The investigators estimated the daily exposure concentrations to be 0.10 mg/kg BW/day for males and 0.18 mg/kg BW/day for females. Based on the growth reduction, an exposure concentration of 0.10 mg/kgBW/day was identified as a LOAEL, and a NOAEL of 0.01 mg/kgBW/day was estimated using a factor of 10.

When Kubiak and Best (1991) fed mink a liver diet contaminated with PCBs , a concentration of 1.0 mg/kg PCBs resulted in reproductive impairment and a concentration of 5 mg/kg resulted in mortality. This dose was converted to a daily exposure concentration by multiplying it by an ingestion rate of 0.249 kg/day (U.S. EPA 1993) and dividing by a body weight of 1.13 kg (Merritt 1987). This resulting in a LOAEL of 0.22 mg/kg BW/day.

In another study, one-year-old mink were fed a diet of beef and cereal prepared from cows which had been given 10 consecutive daily oral doses of 1 and 10 mg/kg of Aroclor 1254 dissolved in an olive oil and dairy concentrate (Platanow and Karstad 1973). The cows did not exhibit any clinical, gross, or histopathological signs of PCB toxicity. The cows were killed 24 hours following the last dose, and the musculature, liver, and kidneys ground and mixed with commercial mink food cereal at a level of 24 percent cereal. The resulting rations containing 0.64 and 3.57 mg/kg of total PCB were fed to mink for a period of 160 days. The mink were fed this diet ad libitum 2 months prior to the breeding season and continued for 160 days. All 16 mink that were fed 3.57 mg/kg of PCBs died by day 105. Two of the 16 mink that were fed 0.64 mg/kg died by days 122 and 129. The mink exhibited poor appetites, lethargy, and weakness before dying. Some passed tarry feces, indicating gastrointestinal hemorrhaging. At both treatment levels, males survived longer than females. An ingestion rate of 0.249 kg/day (U.S. EPA 1993) and a body weight of 1.13 kg (Merritt 1987) were used to convert the exposure concentrations to units of mg/kgBW/day. This yielded exposure concentrations of 0.14 and 0.78 mg/kg BW/day for the 0.64 and 3.57 mg/kg doses, respectively.

In another study, male and female ranch-bred mink were acclimated to a diet consisting of ocean fish scraps, commercial mink cereal, and meat by-products. Ocean fish scraps made up 40 percent of this diet. Dietary treatment levels were prepared by substituting 10, 20, and 40 percent of the ocean fish scraps with PCB-contaminated carp from Saginaw Bay, Lake Huron. The mean dietary PCB concentrations were 0.015 mg/kg (control), 0.72 mg/kg (10 percent carp), 1.53 mg/kg (20 percent carp), and 2.56 mg/kg (40 percent carp). Groups of 15 mink (3 males, 12 females) were assigned to one of the four treatment groups for a period of 12 weeks. Mink receiving the highest PCB-containing diet (40 percent carp or 0.32 mg/kg BW/day, as reported by the investigators) exhibited a 42 percent reduction in mean litter size, 86 percent fewer live kits at birth, and no kits surviving beyond 24-hours post-partum. Even mink receiving the 10 percent carp diet (or 0.13 mg/kg BW/day, as reported by the investigators) exhibited a 67 percent

reduction in kits surviving three to six weeks relative to the control (Heaton et al. 1995). This study cited a LOAEL of 0.13 mg/kgBW/day and a NOAEL of 0.004 mg/kgBW/day for exposure of mink to PCBs.

In a related study on multigenerational effects in mink fed the same Saginaw Bay PCB-contaminated carp, Restum et al.(1998) observed a significant reduction in kit body weights after parental exposure to 0.25 mg/kg, wet weight of PCBs in fish (0.05 mg/kgBW/day as reported by authors). A significant reduction in kit survival was observed at a parental exposure concentration of 0.5 mg/kg (0.1 mg/kgBW/day). The concentration of 0.1 mg/kg was selected as the LOAEL for this risk assessment, as effects on reproduction or survival were targeted as ecologically significant effects. Of note in this study was that adverse effects on kit survival were observed even several months after the parents had been placed on the control diet. The inference was that long-term effects on mink can be observed even after short exposure periods to a PCB-contaminated diet. A LOAEL of 0.1 mg/kgBW/day and a NOAEL of 0.05 mg/kgBW/day will be used to evaluate risk from exposure to PCBs for mammals.

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Acute Toxicity of PCBs to Mammals (Mink)

In a preliminary study to determine the cause of reproductive complications in mink fed Great Lakes fish, adult breeder mink were fed a basal diet supplemented with 30 mg/kg of PCBs for six months (181 days). However, all of the mink died, emaciated, by the end of the experimental period (Aulerich and Ringer 1977). The dose was converted to daily exposure concentration by multiplying it by a food ingestion rate of 0.249 kg/day (U.S. EPA 1993) and dividing by a body weight of 1.13 kg (Merritt 1987). An acute exposure concentration of 6.61 mg/kgBW/day was calculated based on this experiment.

Mink were fed diets containing Aroclor 1254 at concentrations of 0, 5 or 15 mg/kg for four months (Aulerich and Ringer 1977. Fifteen mg/kg of Aroclor 1254 in the diet resulted in a complete inhibition of reproduction and 31 percent adult mortality, compared to 6 percent mortality in the controls. Five mg/kg of Aroclor 1254 resulted in a 95 percent reduction in the number of kits born live; the ratio of live kits to female adults was reduced by 87 percent. The 5 and 15 mg/kg doses were converted to daily exposure concentrations using the conversion factors cited above, resulting in exposure concentrations of 1.1 and 3.3 mg/kg BW/day, respectively.

In another experiment, mink were fed diets containing Aroclor 1254 at concentrations of 0, 5, or 10 mg/kg for ten months (Aulerich and Ringer 1977). All mink fed the PCB-supplemented diets failed to produce offspring. Seventy-one percent mortality was observed in the group fed Aroclor 1254 at a concentration of 10 mg/kg. The dose was converted to daily exposure concentration by multiplying it by a food ingestion rate of 0.249 kg/day (U.S. EPA 1993) and dividing by a body weight of 1.13 kg (Merritt 1987). The 5 and 10 mg/kg doses were converted to daily exposure concentrations using the conversion factors cited above, resulting in exposure concentrations of 1.1 and 2.2 mg/kg BW/day, respectively.

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TABLE . Hazard Quotient Calculations for a Piscivorous Bird (Kingfisher)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.1009		1	0.1043					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.647	100	0.1009	0.0652823	1	0.1043	0.62591	0.94	0.7	0.094	**6.7**
Total TEC	0.0000309	100	0.1009	3.1178E-06	1	0.1043	0.00003	0.00014	0.2	0.000014	**2.1**
AOI: Area 2- Site											
Total PCBs	36.28	100	0.1009	3.660652	1	0.1043	35.09733	0.94	**37.3**	0.094	**373.4**
Total TEC	0.0012276	100	0.1009	0.00012386	1	0.1043	0.00119	0.00014	**8.5**	0.000014	**84.8**
AOI: Area 3-Downstream of Site											
Total PCBs	14.34	100	0.1009	1.446906	1	0.1043	13.87254	0.94	**14.8**	0.094	**147.6**
Total TEC	0.0004093	100	0.1009	4.1298E-05	1	0.1043	0.00040	0.00014	**2.8**	0.000014	**28.3**
AOI: Area 4 -New Market Pond											
Total PCBs	13.48	100	0.1009	1.360132	1	0.1043	13.04058	0.94	**13.9**	0.094	**138.7**
Total TEC	0.00057715	100	0.1009	5.8234E-05	1	0.1043	0.00056	0.00014	**4.0**	0.000014	**39.9**
AOI: Area 5- Spring Lake											
Total PCBs	13.53	100	0.1009	1.365177	1	0.1043	13.08895	0.94	**13.9**	0.094	**139.2**
Total TEC	0.000157442	100	0.1009	1.5886E-05	1	0.1043	0.00015	0.00014	**1.1**	0.000014	**10.9**

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for a Piscivorous Bird (Great Blue Heron)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.477		1	1.905					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.647	100	0.477	0.308619	1	1.905	0.16200	0.94	0.17	0.094	**1.72**
Total TEC	0.0000309	100	0.477	1.4739E-05	1	1.905	0.00001	0.00014	0.06	0.000014	0.55
AOI: Area 2- Site											
Total PCBs	36.28	100	0.477	17.30556	1	1.905	9.08428	0.94	**9.66**	0.094	**96.64**
Total TEC	0.0012276	100	0.477	0.00058557	1	1.905	0.00031	0.00014	**2.20**	0.000014	**21.96**
AOI: Area 3-Downstream of Site											
Total PCBs	14.34	100	0.477	6.84018	1	1.905	3.59065	0.94	**3.82**	0.094	**38.20**
Total TEC	0.0004093	100	0.477	0.00019524	1	1.905	0.00010	0.00014	0.73	0.000014	**7.32**
AOI: Area 4 -New Market Pond											
Total PCBs	13.48	100	0.477	6.42996	1	1.905	3.37531	0.94	**3.59**	0.094	**35.91**
Total TEC	0.00057715	100	0.477	0.0002753	1	1.905	0.00014	0.00014	**1.03**	0.000014	**10.32**
AOI: Area 5- Spring Lake											
Total PCBs	13.53	100	0.477	6.45381		1.905	3.38783	0.94	**3.60**	0.094	**36.04**
Total TEC	0.000157442	100	0.477	7.51E-05	1	1.905	0.00004	0.00014	0.28	0.000014	**2.82**

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for a Piscivorous Bird (Green Heron)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.07		1	0.27					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.647	100	0.07	0.04529	1	0.27	0.16774	0.94	0.18	0.094	**1.78**
Total TEC	0.0000309	100	0.07	2.163E-06	1	0.27	0.00001	0.00014	0.06	0.000014	0.57
AOI: Area 2- Site											
Total PCBs	36.28	100	0.07	2.5396	1	0.27	9.40593	0.94	**10.01**	0.094	**100.06**
Total TEC	0.0012276	100	0.07	8.5932E-05	1	0.27	0.00032	0.00014	**2.27**	0.000014	**22.73**
AOI: Area 3-Downstream of Site											
Total PCBs	14.34	100	0.07	1.0038	1	0.27	3.71778	0.94	**3.96**	0.094	**39.55**
Total TEC	0.0004093	100	0.07	2.8651E-05	1	0.27	0.00011	0.00014	0.76	0.000014	**7.58**
AOI: Area 4 -New Market Pond											
Total PCBs	13.48	100	0.07	0.9436	1	0.27	3.49481	0.94	**3.72**	0.094	**37.18**
Total TEC	0.00057715	100	0.07	4.0401E-05	1	0.27	0.00015	0.00014	**1.07**	0.000014	**10.69**
AOI: Area 5- Spring Lake											
Total PCBs	13.53	100	0.07	0.9471	1	0.27	3.50778	0.94	**3.73**	0.094	**37.32**
Total TEC	0.000157442	100	0.07	1.1021E-05	1	0.27	0.00004	0.00014	0.29	0.000014	**2.92**

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for a Piscivorous Mammal (Mink)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS			100	0.409		1	0.454					
Areas of Interest	Conc. in Soil (mg/kg d.w.)	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference												
Total PCBs		0.647	100	0.409	0.264623	1	0.454	0.58	0.1	**5.8**	0.05	**11.7**
Total TEC		0.000008946	100	0.409	3.65891E-06	1	0.454	0.000008	0.00031	0.0	0.00004	0.2
AOI: Area 2- Site												
Total PCBs		36.28	100	0.409	14.83852	1	0.454	32.68	0.1	**326.8**	0.05	**653.7**
Total TEC		0.0005998	100	0.409	0.000245318	1	0.454	0.000540	0.00031	**1.7**	0.00004	**13.5**
AOI: Area 3-Downstream of Site												
Total PCBs		14.34	100	0.409	5.86506	1	0.454	12.92	0.1	**129.2**	0.05	**258.4**
Total TEC		0.0001195	100	0.409	4.88755E-05	1	0.454	0.000108	0.00031	0.3	0.00004	**2.7**
AOI: Area 4 -New Market Pond												
Total PCBs		13.48	100	0.409	5.51332	1	0.454	12.14	0.1	**121.4**	0.05	**242.9**
Total TEC		0.0003731	100	0.409	0.000152598	1	0.454	0.000336	0.00031	**1.1**	0.00004	**8.4**
AOI: Area 5- Spring Lake												
Total PCBs		13.53	100	0.409	5.53377	1	0.454	12.19	0.1	**121.9**	0.05	**243.8**
Total TEC		0.000043295	100	0.409	1.77077E-05	1	0.454	0.000039	0.00031	0.1	0.00004	1.0

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for an Insectivorous Bird (Red-winged Blackbird)
Model 1: Conservative Life History Parameters, 95%UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.01667		1	0.0372					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.112	100	0.01667	0.00186704	1	0.0372	0.050189	0.94	0.05	0.094	0.53
Total TEC	1.08054E-05	100	0.01667	1.8013E-07	1	0.0372	0.000005	0.00014	0.03	0.000014	0.35
AOI: Area 2- Site											
Total PCBs	3.76	100	0.01667	0.0626792	1	0.0372	1.684925	0.94	**1.79**	0.094	**17.92**
Total TEC	9.56506E-05	100	0.01667	1.5945E-06	1	0.0372	0.000043	0.00014	0.31	0.000014	**3.06**
AOI: Area 3-Downstream of Site											
Total PCBs	3.41	100	0.01667	0.0568447	1	0.0372	1.528083	0.94	**1.63**	0.094	**16.26**
Total TEC	0.000138836	100	0.01667	2.3144E-06	1	0.0372	0.000062	0.00014	0.44	0.000014	**4.44**

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

* Earthworm Bioaccumulation Factor (BAF) of 15.91 was applied to earthworm diet

Note: Clams are being used as a surrogate food source for aquatic insects.

TABLE . Hazard Quotient Calculations for an Insectivorous Bird (Bank Swallow)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.0082		1	0.0099					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.112	100	0.0082	0.0009184	1	0.0099	0.092768	0.94	0.10	0.094	0.99
Total TEC	1.08054E-05	100	0.0082	8.8604E-08	1	0.0099	0.000009	0.00014	0.06	0.000014	0.64
AOI: Area 2- Site											
Total PCBs	3.76	100	0.0082	0.030832	1	0.0099	3.114343	0.94	**3.31**	0.094	**33.13**
Total TEC	9.56506E-05	100	0.0082	7.8433E-07	1	0.0099	0.000079	0.00014	0.57	0.000014	**5.66**
AOI: Area 3-Downstream of Site											
Total PCBs	3.41	100	0.0082	0.027962	1	0.0099	2.824444	0.94	**3.00**	0.094	**30.05**
Total TEC	0.000138836	100	0.0082	1.1385E-06	1	0.0099	0.000115	0.00014	0.82	0.000014	**8.21**

UCL: Upper Confidence Limit
PCB: Poly-chlorinated Biphenyls
TEC: Toxicity Equivalency Concentration
Conc.: Concentration
mg: Milligram
kg: Kilogram
w.w.: Wet weight
AUF: Area use factor
LOAEL: Lowest observable adverse effect level
HQ: Hazard quotient
NOAEL: No observable adverse effect level
inverts: Invertebrates
NS: No studies were available for deriving LOAEL or NOAEL
NC: Value could not be calculated with the information available
* Earthworm Bioaccumulation Factor (BAF) of 15.91 was applied to earthworm diet

Note: Clams are being used as a surrogate food source for aquatic insects.

TABLE . Hazard Quotient Calculations for an Invertivorous Mammal (Raccoon)
Model 1: Conservative Life History Parameters, 95%UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.4		1	2.2					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.112	100	0.4	0.0448	1	2.2	0.0203636	0.1	0.20	0.05	0.41
Total TEC	3.05461E-06	100	0.4	1.2218E-06	1	2.2	0.0000006	0.00031	0.00	0.00004	0.01
AOI: Area 2- Site											
Total PCBs	3.76	100	0.4	1.504	1	2.2	0.6836364	0.1	**6.84**	0.05	**13.67**
Total TEC	2.29032E-05	100	0.4	9.1613E-06	1	2.2	0.0000042	0.00031	0.01	0.00004	0.10
AOI: Area 3-Downstream of Site											
Total PCBs	3.41	100	0.4	1.364	1	2.2	0.6200000	0.1	**6.20**	0.05	**12.40**
Total TEC	3.27586E-05	100	0.4	1.3103E-05	1	2.2	0.0000060	0.00031	0.02	0.00004	0.15

UCL: Upper Confidence Limit
PCB: Poly-chlorinated Biphenyls
TEC: Toxicity Equivalency Concentration
Conc.: Concentration
mg: Milligram
kg: Kilogram
w.w.: Wet weight
AUF: Area use factor
LOAEL: Lowest observable adverse effect level
HQ: Hazard quotient
NOAEL: No observable adverse effect level
inverts: Invertebrates
NS: No studies were available for deriving LOAEL or NOAEL
NC: Value could not be calculated with the information available
* Earthworm Bioaccumulation Factor (BAF) of 15.91 was applied to earthworm diet

TABLE . Hazard Quotient Calculations for an Invertivorous Mammal (Little Brown Bat)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.0038		1	0.0089					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.112	100	0.0038	0.0004256	1	0.0089	0.0478202	0.1	0.48	0.05	0.96
Total TEC	3.05461E-06	100	0.0038	1.1608E-08	1	0.0089	0.0000013	0.00031	0.00	0.00004	0.03
AOI: Area 2- Site											
Total PCBs	3.76	100	0.0038	0.014288	1	0.0089	1.6053933	0.1	**16.05**	0.05	**32.11**
Total TEC	2.29032E-05	100	0.0038	8.7032E-08	1	0.0089	0.0000098	0.00031	0.03	0.00004	0.24
AOI: Area 3-Downstream of Site											
Total PCBs	3.41	100	0.0038	0.012958	1	0.0089	1.4559551	0.1	**14.56**	0.05	**29.12**
Total TEC	3.27586E-05	100	0.0038	1.2448E-07	1	0.0089	0.0000140	0.00031	0.05	0.00004	0.35

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

TABLE . Hazard Quotient Calculations for an Omnivorous Bird (Mallard)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations, Maximum TEC Concentrations, Two Dietary Items (Fish and Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		50		50	0.216		1	0.55					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Conc. in Clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference													
Total PCBs	0.647	50	0.112	50	0.216	0.081972	1	0.55	0.149040	0.94	0.16	0.094	**1.59**
Total TEC	0.0000309	50	1.0805E-05	50	0.216	4.50418E-06	1	0.55	0.000008	0.00014	0.06	0.000014	0.58
AOI: Area 2- Site													
Total PCBs	36.28	50	3.76	50	0.216	4.32432	1	0.55	7.862400	0.94	**8.36**	0.094	**83.64**
Total TEC	0.0012276	50	9.5651E-05	50	0.216	0.000142911	1	0.55	0.000260	0.00014	**1.86**	0.000014	**18.56**
AOI: Area 3-Downstream of Site													
Total PCBs	14.34	50	3.41	50	0.216	1.917	1	0.55	3.485455	0.94	**3.71**	0.094	**37.08**
Total TEC	0.0004093	50	0.00013884	50	0.216	5.91987E-05	1	0.55	0.000108	0.00014	0.77	0.000014	**7.69**

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

TABLE . Hazard Quotient Calculations for an Omnivorous Mammal (Raccoon)
Model 1: Conservative Life History Parameters, 95% UCL PCB Concentrations, Maximum TEC Concentrations, Two Dietary Items (Fish and Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		50		50	0.4		1	2.2					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Conc. in Clams (mg/kg w.w)	Percent of Diet Inverts	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference													
Total PCBs	0.647	50	0.112	50	0.4	0.1518	1	2.2	0.069	0.1	0.69	0.05	**1.38**
Total TEC	0.000008946	50	3.0546E-06	50	0.4	2.4E-06	1	2.2	1.09096E-06	0.00031	0.00	0.00004	0.03
AOI: Area 2- Site													
Total PCBs	36.28	50	3.76	50	0.4	8.008	1	2.2	3.64	0.1	**36.40**	0.05	**72.80**
Total TEC	0.0005998	50	2.2903E-05	50	0.4	0.0001245	1	2.2	5.66094E-05	0.00031	0.18	0.00004	**1.42**
AOI: Area 3-Downstream of Site													
Total PCBs	14.34	50	3.41	50	0.4	3.55	1	2.2	1.613636364	0.1	**16.14**	0.05	**32.27**
Total TEC	0.0001195	50	3.2759E-05	50	0.4	3.045E-05	1	2.2	1.38417E-05	0.00031	0.04	0.00004	0.35
AOI: Area 4 -New Market Pond													
Total PCBs	13.48	50	ND	50	0.4	ND	1	2.2	ND	0.1	ND	0.05	ND
Total TEC	0.0003731	50	ND	50	0.4	ND	1	2.2	ND	0.00031	ND	0.00004	ND
AOI: Area 5- Spring Lake													
Total PCBs	13.53	50	ND	50	0.4	ND	1	2.2	ND	0.1	ND	0.05	ND
Total TEC	0.000043295	50	ND	50	0.4	ND	1	2.2	ND	0.00031	ND	0.00004	ND

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available
ND:	Not Determined

TABLE . Hazard Quotient Calculations for a Piscivorous Bird (Kingfisher)
Model 2: Representive Life History Parameters, Mean Total PCB Concentrations and Maximum TEC Concentrations, One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.0574		1	0.1493					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.517	100	0.0574	0.0296758	1	0.1493	0.20	0.94	0.21	0.094	**2.11**
Total TEC	0.0000309	100	0.0574	1.7737E-06	1	0.1493	0.00	0.00014	0.08	0.000014	0.85
AOI: Area 2- Site											
Total PCBs	31.31	100	0.0574	1.797194	1	0.1493	12.04	0.94	**12.81**	0.094	**128.06**
Total TEC	0.0012276	100	0.0574	7.0464E-05	1	0.1493	0.00	0.00014	**3.37**	0.000014	**33.71**
AOI: Area 3-Downstream of Site											
Total PCBs	11.19	100	0.0574	0.642306	1	0.1493	4.30	0.94	**4.58**	0.094	**45.77**
Total TEC	0.0004093	100	0.0574	2.3494E-05	1	0.1493	0.00	0.00014	**1.12**	0.000014	**11.24**
AOI: Area 4 -New Market Pond											
Total PCBs	9.39	100	0.0574	0.538986	1	0.1493	3.61	0.94	**3.84**	0.094	**38.41**
Total TEC	0.00057715	100	0.0574	3.3128E-05	1	0.1493	0.00	0.00014	**1.58**	0.000014	**15.85**
AOI: Area 5- Spring Lake											
Total PCBs	7.191	100	0.0574	0.4127634	1	0.1493	2.76	0.94	**2.94**	0.094	**29.41**
Total TEC	0.000157442	100	0.0574	9.0372E-06	1	0.1493	0.00	0.00014	0.43	0.000014	**4.32**

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for a Piscivorous Bird (Great Blue Heron)
Model 2: Representive Life History Parameters, Mean Total PCB Concentrations and Maximum TEC Concentrations, One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.309		1	2.505					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.517	100	0.309	0.159753	1	2.505	0.06	0.94	0.07	0.094	0.68
Total TEC	0.0000309	100	0.309	9.5481E-06	1	2.505	0.00	0.00014	0.03	0.000014	0.27
AOI: Area 2- Site											
Total PCBs	31.31	100	0.309	9.67479	1	2.505	3.86	0.94	**4.11**	0.094	**41.09**
Total TEC	0.0012276	100	0.309	0.00037933	1	2.505	0.00	0.00014	**1.08**	0.000014	**10.82**
AOI: Area 3-Downstream of Site											
Total PCBs	11.19	100	0.309	3.45771	1	2.505	1.38	0.94	**1.47**	0.094	**14.68**
Total TEC	0.0004093	100	0.309	0.00012647	1	2.505	0.00	0.00014	0.36	0.000014	**3.61**
AOI: Area 4 -New Market Pond											
Total PCBs	9.39	100	0.309	2.90151	1	2.505	1.16	0.94	**1.23**	0.094	**12.32**
Total TEC	0.00057715	100	0.309	0.00017834	1	2.505	0.00	0.00014	0.51	0.000014	**5.09**
AOI: Area 5- Spring Lake											
Total PCBs	7.191	100	0.309	2.222019		2.505	0.89	0.94	0.94	0.094	**9.44**
Total TEC	0.000157442	100	0.309	4.865E-05	1	2.505	0.00	0.00014	0.14	0.000014	**1.39**

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for a Piscivorous Bird (Green Heron)
Model 2: Representive Life History Parameters, Mean Total PCB Concentrations and Maximum TEC Concentrations, One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.0585		1	0.22					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.517	100	0.0585	0.0302445	1	0.22	0.14	0.94	0.15	0.094	**1.46**
Total TEC	0.0000309	100	0.0585	1.8077E-06	1	0.22	0.00	0.00014	0.06	0.000014	0.59
AOI: Area 2- Site											
Total PCBs	31.31	100	0.0585	1.831635	1	0.22	8.33	0.94	**8.86**	0.094	**88.57**
Total TEC	0.0012276	100	0.0585	7.1815E-05	1	0.22	0.00	0.00014	**2.33**	0.000014	**23.32**
AOI: Area 3-Downstream of Site											
Total PCBs	11.19	100	0.0585	0.654615	1	0.27	2.42	0.94	**2.58**	0.094	**25.79**
Total TEC	0.0004093	100	0.0585	2.3944E-05	1	0.27	0.00	0.00014	0.63	0.000014	**6.33**
AOI: Area 4 -New Market Pond											
Total PCBs	9.39	100	0.0585	0.549315	1	0.27	2.03	0.94	**2.16**	0.094	**21.64**
Total TEC	0.00057715	100	0.0585	3.3763E-05	1	0.22	0.00	0.00014	**1.10**	0.000014	**10.96**
AOI: Area 5- Spring Lake											
Total PCBs	7.191	100	0.0585	0.4206735	1	0.27	1.56	0.94	**1.66**	0.094	**16.58**
Total TEC	0.000157442	100	0.0585	9.2104E-06	1	0.22	0.00	0.00014	0.30	0.000014	**2.99**

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for a Piscivorous Mammal (Mink)
Model 2: Representive Life History Parameters, Mean Total PCB Concentrations and Maximum TEC Concentrations, One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.233		1	1.02					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.517	100	0.233	0.120461	1	1.02	0.12	0.1	**1.18**	0.05	**2.36**
Total TEC	0.000008946	100	0.233	2.0844E-06	1	1.02	0.00	0.00031	0.01	0.00004	0.05
AOI: Area 2- Site											
Total PCBs	30.31	100	0.233	7.06223	1	1.02	6.92	0.1	**69.24**	0.05	**138.48**
Total TEC	0.0005998	100	0.233	0.00013975	1	1.02	0.00	0.00031	0.44	0.00004	**3.43**
AOI: Area 3-Downstream of Site											
Total PCBs	11.19	100	0.233	2.60727	1	1.02	2.56	0.1	**25.56**	0.05	**51.12**
Total TEC	0.0001195	100	0.233	2.7844E-05	1	1.02	0.00	0.00031	0.09	0.00004	0.68
AOI: Area 4 -New Market Pond											
Total PCBs	9.39	100	0.233	2.18787	1	1.02	2.14	0.1	**21.45**	0.05	**42.90**
Total TEC	0.0003731	100	0.233	8.6932E-05	1	1.02	0.00	0.00031	0.27	0.00004	**2.13**
AOI: Area 5- Spring Lake											
Total PCBs	7.191	100	0.233	1.675503	1	1.02	1.64	0.1	**16.43**	0.05	**32.85**
Total TEC	0.000043295	100	0.233	1.0088E-05	1	1.02	0.00	0.00031	0.03	0.00004	0.25

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level

TABLE . Hazard Quotient Calculations for an Insectivorous Bird (Red-winged Blackbird)
Model 2: Representative Life History Parameters, Mean PCB Concentrations and Maximum TEC Concnetrations, One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS 100 0.00832 1

Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.87	100	0.00832	0.0072384	1	58.03	0.000124735	0.94	0.000133	0.094	0.00133
Total TEC	0.000010805	100	0.00832	8.9898E-08	1	58.03	0.000000002	0.00014	0.000011	0.000014	0.00011
AOI: Area 2- Site											
Total PCBs	2.67	100	0.00832	0.0222144	1	58.03	0.000382809	0.94	0.000407	0.094	0.00407
Total TEC	0.000095651	100	0.00832	7.9582E-07	1	58.03	0.000000014	0.00014	0.000098	0.000014	0.00098
AOI: Area 3-Downstream of Site											
Total PCBs	2.66	100	0.00832	0.0221312	1	58.03	0.000381375	0.94	0.000406	0.094	0.00406
Total TEC	0.00013884	100	0.00832	1.1551E-06	1	58.03	0.000000020	0.00014	0.000142	0.000014	0.00142

PCB: Poly-chlorinated Biphenyls
TEC: Toxicity Equivalency Concentration
Conc.: Concentration
mg: Milligram
kg: Kilogram
w.w.: Wet weight
AUF: Area use factor
LOAEL: Lowest observable adverse effect level
HQ: Hazard quotient
NOAEL: No observable adverse effect level
inverts: Invertebrates
NS: No studies were available for deriving LOAEL or NOAEL
NC: Value could not be calculated with the information available
* Earthworm Bioaccumulation Factor (BAF) of 15.91 was applied to earthworm diet

Note: Clams are being used as a surrogate food source for aquatic insects.

TABLE . Hazard Quotient Calculations for an Insectivorous Bird (Bank Swallow)
Model 2: Representative Life History Parameters, Mean PCB Concentrations and Maximum TEC Concnetrations, One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.0105		1	0.014					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.0869	100	0.0105	0.00091245	1	0.014	0.07	0.94	0.07	0.094	0.69
Total TEC	0.000010805	100	0.0105	1.1345E-07	1	0.014	0.00	0.00014	0.06	0.000014	0.58
AOI: Area 2- Site											
Total PCBs	2.67	100	0.0105	0.028035	1	0.014	2.00	0.94	**2.13**	0.094	**21.30**
Total TEC	0.000095651	100	0.0105	1.0043E-06	1	0.014	0.00	0.00014	0.51	0.000014	**5.12**
AOI: Area 3-Downstream of Site											
Total PCBs	2.66	100	0.0105	0.02793	1	0.014	2.00	0.94	**2.12**	0.094	**21.22**
Total TEC	0.00013884	100	0.0105	1.4578E-06	1	0.014	0.00	0.00014	0.74	0.000014	**7.44**

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

Note: Clams are being used as a surrogate food source for aquatic insects.

TABLE . Hazard Quotient Calculations for an Invertivorous Mammal (Raccoon)
Model 2: Representative Life History Parameters, Mean PCB Concentrations and Maximum TEC Concnetrations, One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.37		1	6.55					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.0869	100	0.37	0.032153	1	6.55	0.00	0.1	0.05	0.05	0.10
Total TEC	3.0546E-06	100	0.37	1.1302E-06	1	6.55	0.00	0.00031	0.00	0.00004	0.00
AOI: Area 2- Site											
Total PCBs	2.67	100	0.37	0.9879	1	6.55	0.15	0.1	**1.51**	0.05	**3.02**
Total TEC	0.000022903	100	0.37	8.4741E-06	1	6.55	0.00	0.00031	0.00	0.00004	0.03
AOI: Area 3-Downstream of Site											
Total PCBs	2.66	100	0.37	0.9842	1	6.55	0.15	0.1	**1.50**	0.05	**3.01**
Total TEC	0.000032759	100	0.37	1.2121E-05	1	6.55	0.00	0.00031	0.01	0.00004	0.05

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

TABLE . Hazard Quotient Calculations for an Invertivorous Mammal (Little Brown Bat)
Model 2: Representative Life History Parameters, Mean PCB Concentrations and Maximum TEC Concnetrations, One Dietary Item (Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.0018		1	0.0089					
Areas of Interest	Conc. in clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference											
Total PCBs	0.0869	100	0.0018	0.00015642	1	0.0089	0.02	0.1	0.18	0.05	0.35
Total TEC	3.0546E-06	100	0.0018	5.4983E-09	1	0.0089	0.00	0.00031	0.00	0.00004	0.02
AOI: Area 2- Site											
Total PCBs	2.67	100	0.0018	0.004806	1	0.0089	0.54	0.1	**5.40**	0.05	**10.80**
Total TEC	0.000022903	100	0.0018	4.1225E-08	1	0.0089	0.00	0.00031	0.01	0.00004	0.12
AOI: Area 3-Downstream of Site											
Total PCBs	2.66	100	0.0018	0.004788	1	0.0089	0.54	0.1	**5.38**	0.05	**10.76**
Total TEC	0.000032759	100	0.0018	5.8966E-08	1	0.0089	0.00	0.00031	0.02	0.00004	0.17

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

TABLE . Hazard Quotient Calculations for an Omnivorous Bird (Mallard)
Model 2: Representative Life History Parameters, Mean PCB Concentrations and Maximum TEC Concentrations, Two Dietary Items (Fish and clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		50		50	0.169		1	1.14					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Conc. in Clams (mg/kg w.w)	Percent of Diet Inverts.	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference													
Total PCBs	0.517	50	0.0869	50	0.169	0.05102955	1	1.14	0.04	0.94	0.05	0.094	0.48
Total TEC	0.0000309	50	0.000010805	50	0.169	3.52407E-06	1	1.14	0.00	0.00014	0.02	0.000014	0.22
AOI: Area 2- Site													
Total PCBs	31.31	50	2.67	50	0.169	2.87131	1	1.14	2.52	0.94	**2.68**	0.094	**26.79**
Total TEC	0.0012276	50	0.000095651	50	0.169	0.000111815	1	1.14	0.00	0.00014	0.70	0.000014	**7.01**
AOI: Area 3-Downstream of Site													
Total PCBs	11.19	50	2.66	50	0.169	1.170325	1	1.14	1.03	0.94	**1.09**	0.094	**10.92**
Total TEC	0.0004093	50	0.00013884	50	0.169	4.63178E-05	1	1.14	0.00	0.00014	0.29	0.000014	**2.90**

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available

TABLE . Hazard Quotient Calculations for an Omnivorous Mammal (Raccoon)
Model 2: Representative Life History Parameters, Mean PCB Concentrations and Maximum TEC Concentrations, Two Dietary Items (Fish and Clams)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		50		50	0.37		1	6.55					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Conc. in Clams (mg/kg w.w)	Percent of Diet Inverts	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	LOAEL (mg/kg/day)	HQ LOAEL	NOAEL (mg/kg/day)	HQ NOAEL
AOI: Area 1- Reference													
Total PCBs	0.517	50	0.0869	50	0.37	0.11	1	6.55	0.017056718	0.1	0.17	0.05	0.34
Total TEC	3.0546E-06	50	0	50	0.37	0.00	1	6.55	8.6275E-08	0.00031	0.00	0.00004	0.00
AOI: Area 2- Site													
Total PCBs	31.31	50	2.67	50	0.37	6.29	1	6.55	0.959740458	0.1	**9.60**	0.05	**19.19**
Total TEC	0.000022903	50	0	50	0.37	0.00	1	6.55	6.46879E-07	0.00031	0.00	0.00004	0.02
AOI: Area 3-Downstream of Site													
Total PCBs	11.19	50	2.66	50	0.37	2.56	1	6.55	0.391183206	0.1	**3.91**	0.05	**7.82**
Total TEC	0.000032759	50	0	50	0.37	0.00	1	6.55	9.25254E-07	0.00031	0.00	0.00004	0.02
AOI: Area 4 -New Market Pond													
Total PCBs	ND	50	ND	50	0.37	ND	1	6.55	ND	0.1	ND	0.05	ND
Total TEC	ND	50	ND	50	0.37	ND	1	6.55	ND	0.00031	ND	0.00004	ND
AOI: Area 5- Spring Lake													
Total PCBs	ND	50	ND	50	0.37	ND	1	6.55	ND	0.1	ND	0.05	ND
Total TEC	ND	50	ND	50	0.37	ND	1	6.55	ND	0.00031	ND	0.00004	ND

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
LOAEL:	Lowest observable adverse effect level
HQ:	Hazard quotient
NOAEL:	No observable adverse effect level
inverts:	Invertebrates
NS:	No studies were available for deriving LOAEL or NOAEL
NC:	Value could not be calculated with the information available
ND:	Not Determined

TABLE . Acute Hazard Quotient Calculations for a Piscivorous Mammal (Mink)
Model 4: Representive Life History Parameters, Mean Total PCB Concentrations and Maximum TEC Concentrations, One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.233		1	1.02					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	Low Acute TRV (mg/kg/day)	HQ Low TRV	High Acute TRV (mg/kg/day)	HQ High TRV
AOI: Area 1- Reference											
Total PCBs	0.517	100	0.233	0.120461	1	1.02	0.12	1.1	0.11	3.3	0.04
Total TEC	0.000008946	100	0.233	2.0844E-06	1	1.02	0.00		#DIV/0!		#DIV/0!
AOI: Area 2- Site											
Total PCBs	30.31	100	0.233	7.06223	1	1.02	6.92	1.1	**6.29**	3.3	**2.10**
Total TEC	0.0005998	100	0.233	0.00013975	1	1.02	0.00		#DIV/0!		#DIV/0!
AOI: Area 3-Downstream of Site											
Total PCBs	11.19	100	0.233	2.60727	1	1.02	2.56	1.1	**2.32**	3.3	0.77
Total TEC	0.0001195	100	0.233	2.7844E-05	1	1.02	0.00		#DIV/0!		#DIV/0!
AOI: Area 4 -New Market Pond											
Total PCBs	9.39	100	0.233	2.18787	1	1.02	2.14	1.1	**1.95**	3.3	0.65
Total TEC	0.0003731	100	0.233	8.6932E-05	1	1.02	0.00		#DIV/0!		#DIV/0!
AOI: Area 5- Spring Lake											
Total PCBs	7.191	100	0.233	1.675503	1	1.02	1.64	1.1	**1.49**	3.3	0.50
Total TEC	0.000043295	100	0.233	1.0088E-05	1	1.02	0.00		#DIV/0!		#DIV/0!

PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
HQ:	Hazard quotient
TRV:	Toxicity Reference Value

TABLE . Acute Hazard Quotient Calculations for a Piscivorous Mammal (Mink)
Model 3: Conservative Life History Parameters, 95%UCL PCB Concentrations and Maximum TEC Concentrations One Dietary Item (Fish)
Cornell-Dubilier Bound Brook Site
South Plainfield, NJ

INITIAL SETTINGS		100	0.409		1	0.454					
Areas of Interest	Conc. in Fish (mg/kg w.w.)	Percent of Diet Fish	Total Ingestion Rate (kg/day w.w.)	Total Food Conc. (mg/day)	AUF	Body Weight (kg)	Dose (mg/kg/day)	Low Acute TRV (mg/kg/day)	HQ Low TRV	High Acute TRV (mg/kg/day)	HQ High TRV
AOI: Area 1- Reference											
Total PCBs	0.647	100	0.409	0.264623	1	0.454	0.58	1.1	0.5	3.3	0.2
Total TEC	0.000008946	100	0.409	3.65891E-06	1	0.454	0.000008		#DIV/0!		#DIV/0!
AOI: Area 2- Site											
Total PCBs	36.28	100	0.409	14.83852	1	0.454	32.68	1.1	**29.7**	3.3	**9.9**
Total TEC	0.0005998	100	0.409	0.000245318	1	0.454	0.000540		#DIV/0!		#DIV/0!
AOI: Area 3-Downstream of Site											
Total PCBs	14.34	100	0.409	5.86506	1	0.454	12.92	1.1	**11.7**	3.3	**3.9**
Total TEC	0.0001195	100	0.409	4.88755E-05	1	0.454	0.000108		#DIV/0!		#DIV/0!
AOI: Area 4 -New Market Pond											
Total PCBs	13.48	100	0.409	5.51332	1	0.454	12.14	1.1	**11.0**	3.3	**3.7**
Total TEC	0.0003731	100	0.409	0.000152598	1	0.454	0.000336		#DIV/0!		#DIV/0!
AOI: Area 5- Spring Lake											
Total PCBs	13.53	100	0.409	5.53377	1	0.454	12.19	1.1	**11.1**	3.3	**3.7**
Total TEC	0.000043295	100	0.409	1.77077E-05	1	0.454	0.000039		#DIV/0!		#DIV/0!

UCL:	Upper Confidence Limit
PCB:	Poly-chlorinated Biphenyls
TEC:	Toxicity Equivalency Concentration
Conc.:	Concentration
mg:	Milligram
kg:	Kilogram
w.w.:	Wet weight
AUF:	Area use factor
HQ:	Hazard quotient
TRV:	Toxicity Reference Value

Tuesday, January 19, 2010, 2:49:51 PM

Comparison of Ln(Aroclor 1254 mg/kg wet weight) in Sunfish (Whole Body) for 1998 and 2008
Cornell-Dubilier Site WA 0-360

Data source: Aroclor 1254 Including Reference in Sunfish_WholeBody_AR1254

General Linear Model

Dependent Variable: Ln(aroclor+1)

Normality Test: Passed (P > 0.050)

Equal Variance Test: Passed (P = 0.250)

Source of Variation	**DF**	**SS**	**MS**	**F**	**P**
Year	1	1.455	1.455	7.501	0.009
Common_Id	3	19.431	6.477	33.389	<0.001
Year x Common_Id	3	0.679	0.226	1.167	0.333
Residual	44	8.535	0.194		
Total	51	31.084	0.609		

The difference in the mean values among the different levels of Year is greater than would be expected by chance after allowing for effects of differences in Common_Id. There is a statistically significant difference (P = 0.009). To isolate which group(s) differ from the others use a multiple comparison procedure.

The difference in the mean values among the different levels of Common_Id is greater than would be expected by chance after allowing for effects of differences in Year. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The effect of different levels of Year does not depend on what level of Common_Id is present. There is not a statistically significant interaction between Year and Common_Id. (P = 0.333)

Power of performed test with alpha = 0.0500: for Year : 0.710
Power of performed test with alpha = 0.0500: for Common_Id : 1.000
Power of performed test with alpha = 0.0500: for Year x Common_Id : 0.0770

Least square means for Year :

Group	**Mean**	**SEM**
1998.000	1.603	0.0847
2008.000	1.241	0.102

Least square means for Common_Id :

Group	**Mean**	**SEM**
4.000	2.143	0.148
5.000	1.879	0.126
6.000	1.344	0.114
1.000	0.320	0.139

Least square means for Year x Common_Id :

Group	Mean	SEM
1998.000 x 4.000	2.510	0.197
1998.000 x 5.000	2.036	0.156
1998.000 x 6.000	1.552	0.114
1998.000 x 1.000	0.313	0.197
2008.000 x 4.000	1.776	0.220
2008.000 x 5.000	1.721	0.197
2008.000 x 6.000	1.137	0.197
2008.000 x 1.000	0.327	0.197

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparisons for factor: **Common_Id within 1998**

Comparison	Diff of Means	p	q	P	P<0.05
4.000 vs. 1.000	2.198	4	11.158	<0.001	Yes
4.000 vs. 6.000	0.959	4	5.962	<0.001	Yes
4.000 vs. 5.000	0.474	4	2.671	0.248	No
5.000 vs. 1.000	1.724	4	9.708	<0.001	Yes
5.000 vs. 6.000	0.484	4	3.553	0.072	No
6.000 vs. 1.000	1.239	4	7.705	<0.001	Yes

Comparisons for factor: **Common_Id within 2008**

Comparison	Diff of Means	p	q	P	P<0.05
4.000 vs. 1.000	1.449	4	6.937	<0.001	Yes
4.000 vs. 6.000	0.639	4	3.059	0.150	No
4.000 vs. 5.000	0.0549	4	0.263	0.998	Do Not Test
5.000 vs. 1.000	1.394	4	7.079	<0.001	Yes
5.000 vs. 6.000	0.584	4	2.966	0.170	Do Not Test
6.000 vs. 1.000	0.810	4	4.113	0.028	Yes

Comparisons for factor: **Year within 4**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.734	2	3.514	0.017	Yes

Comparisons for factor: **Year within 5**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.315	2	1.772	0.217	No

Comparisons for factor: **Year within 6**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.414	2	2.576	0.075	No

Comparisons for factor: **Year within 1**

Comparison	Diff of Means	p	q	P	P<0.05
2008.000 vs. 1998.000	0.0146	2	0.0742	0.958	No

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison. For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

Comparison of Ln(Aroclor 1248 mg/kg wet weight) in Sunfish (Fillet) for 1998 and 2008
Cornell-Dubilier Site WA 0-360

Two Way Analysis of Variance Tuesday, January 19, 2010, 3:23:41 PM

Data source: Sunfish Fillets in Filllet_AR1248_AR1254

General Linear Model

Dependent Variable: Ln(AR_1248 +1)

Normality Test: Passed (P > 0.050)

Equal Variance Test: Passed (P = 0.135)

Source of Variation	**DF**	**SS**	**MS**	**F**	**P**
Year	1	0.384	0.384	14.570	0.001
Common_ID	2	0.729	0.365	13.816	<0.001
Year x Common_ID	2	0.0156	0.00782	0.296	0.747
Residual	19	0.501	0.0264		
Total	24	1.544	0.0643		

The difference in the mean values among the different levels of Year is greater than would be expected by chance after allowing for effects of differences in Common_ID. There is a statistically significant difference (P = 0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The difference in the mean values among the different levels of Common_ID is greater than would be expected by chance after allowing for effects of differences in Year. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The effect of different levels of Year does not depend on what level of Common_ID is present. There is not a statistically significant interaction between Year and Common_ID. (P = 0.747)

Power of performed test with alpha = 0.0500: for Year : 0.951
Power of performed test with alpha = 0.0500: for Common_ID : 0.994
Power of performed test with alpha = 0.0500: for Year x Common_ID : 0.0500

Least square means for Year :

Group	**Mean**	**SEM**
1998.000	0.704	0.0541
2008.000	0.439	0.0437

Least square means for Common_ID :

Group	**Mean**	**SEM**
4.000	0.823	0.0703
5.000	0.520	0.0593
6.000	0.372	0.0492

Least square means for Year x Common_ID :

Group	**Mean**	**SEM**
1998.000 x 4.000	0.966	0.115

1998.000 x 5.000	0.619	0.0938
1998.000 x 6.000	0.529	0.0663
2008.000 x 4.000	0.680	0.0812
2008.000 x 5.000	0.422	0.0726
2008.000 x 6.000	0.215	0.0726

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparisons for factor: **Year**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.050**
1998.000 vs. 2008.000	0.265	2	5.398	0.001	Yes

Comparisons for factor: **Common_ID**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.050**
4.000 vs. 6.000	0.451	3	7.434	<0.001	Yes
4.000 vs. 5.000	0.303	3	4.654	0.010	Yes
5.000 vs. 6.000	0.148	3	2.723	0.159	No

Comparisons for factor: **Common_ID within 1998**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
4.000 vs. 6.000	0.437	3	4.660	0.010	Yes
4.000 vs. 5.000	0.347	3	3.312	0.074	No
5.000 vs. 6.000	0.0898	3	1.106	0.719	No

Comparisons for factor: **Common_ID within 2008**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
4.000 vs. 6.000	0.465	3	6.039	0.001	Yes
4.000 vs. 5.000	0.258	3	3.353	0.070	No
5.000 vs. 6.000	0.207	3	2.849	0.136	No

Comparisons for factor: **Year within 4**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
1998.000 vs. 2008.000	0.286	2	2.872	0.057	No

Comparisons for factor: **Year within 5**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
1998.000 vs. 2008.000	0.197	2	2.346	0.114	No

Comparisons for factor: **Year within 6**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
1998.000 vs. 2008.000	0.314	2	4.514	0.005	Yes

Comparison of Ln(Aroclor 1254 mg/kg wet weight) in Sunfish (Fillet) for 1998 and 2008
Cornell-Dubilier Site WA 0-360

Data source: Sunfish Fillets in Filllet_AR1248_AR1254

General Linear Model

Dependent Variable: Ln(AR_1254+1)

Normality Test: Passed (P > 0.050)

Equal Variance Test: Passed (P = 0.213)

Source of Variation	DF	SS	MS	F	P
Year	1	1.616	1.616	38.614	<0.001
Common_ID	2	1.220	0.610	14.576	<0.001
Year x Common_ID	2	0.109	0.0546	1.305	0.294
Residual	19	0.795	0.0418		
Total	24	3.428	0.143		

The difference in the mean values among the different levels of Year is greater than would be expected by chance after allowing for effects of differences in Common_ID. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The difference in the mean values among the different levels of Common_ID is greater than would be expected by chance after allowing for effects of differences in Year. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The effect of different levels of Year does not depend on what level of Common_ID is present. There is not a statistically significant interaction between Year and Common_ID. (P = 0.294)

Power of performed test with alpha = 0.0500: for Year : 1.000
Power of performed test with alpha = 0.0500: for Common_ID : 0.996
Power of performed test with alpha = 0.0500: for Year x Common_ID : 0.0892

Least square means for Year :

Group	Mean	SEM
1998.000	1.163	0.0682
2008.000	0.619	0.0550

Least square means for Common_ID :

Group	Mean	SEM
4.000	1.215	0.0886
5.000	0.825	0.0747
6.000	0.632	0.0619

Least square means for Year x Common_ID :

Group	Mean	SEM
1998.000 x 4.000	1.550	0.145
1998.000 x 5.000	0.998	0.118

1998.000 x 6.000	0.940	0.0835
2008.000 x 4.000	0.881	0.102
2008.000 x 5.000	0.652	0.0915
2008.000 x 6.000	0.323	0.0915

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparisons for factor: **Year**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.050**
1998.000 vs. 2008.000	0.544	2	8.788	<0.001	Yes

Comparisons for factor: **Common_ID**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.050**
4.000 vs. 6.000	0.584	3	7.636	<0.001	Yes
4.000 vs. 5.000	0.390	3	4.763	0.009	Yes
5.000 vs. 6.000	0.193	3	2.817	0.142	No

Comparisons for factor: **Common_ID within 1998**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
4.000 vs. 6.000	0.610	3	5.162	0.005	Yes
4.000 vs. 5.000	0.552	3	4.181	0.021	Yes
5.000 vs. 6.000	0.0576	3	0.563	0.917	No

Comparisons for factor: **Common_ID within 2008**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
4.000 vs. 6.000	0.557	3	5.745	0.002	Yes
4.000 vs. 5.000	0.228	3	2.355	0.244	No
5.000 vs. 6.000	0.329	3	3.596	0.050	Yes

Comparisons for factor: **Year within 4**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
1998.000 vs. 2008.000	0.669	2	5.344	0.001	Yes

Comparisons for factor: **Year within 5**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
1998.000 vs. 2008.000	0.346	2	3.275	0.032	Yes

Comparisons for factor: **Year within 6**

Comparison	**Diff of Means**	**p**	**q**	**P**	**P<0.05**
1998.000 vs. 2008.000	0.617	2	7.049	<0.001	Yes

Comparison of Ln(Aroclor 1248 mg/kg wet weight) in White Sucker (Fillet) for 1998 and 2008
Cornell-Dubilier Site WA 0-360

T**wo Way Analysis of Variance** Tuesday, January 19, 2010, 3:42:31 PM

Data source: WhiteSucker in Filllet_AR1248_AR1254

General Linear Model

Dependent Variable: Ln(Arochlor1248+1)

Normality Test: Passed (P > 0.050)

Equal Variance Test: Passed (P = 0.461)

Source of Variation	**DF**	**SS**	**MS**	**F**	**P**
Year	1	1.679	1.679	15.569	<0.001
Common_ID	3	3.319	1.106	10.256	<0.001
Year x Common_ID	3	0.0675	0.0225	0.209	0.890
Residual	30	3.236	0.108		
Total	37	8.779	0.237		

The difference in the mean values among the different levels of Year is greater than would be expected by chance after allowing for effects of differences in Common_ID. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The difference in the mean values among the different levels of Common_ID is greater than would be expected by chance after allowing for effects of differences in Year. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The effect of different levels of Year does not depend on what level of Common_ID is present. There is not a statistically significant interaction between Year and Common_ID. (P = 0.890)

Power of performed test with alpha = 0.0500: for Year : 0.971
Power of performed test with alpha = 0.0500: for Common_ID : 0.995
Power of performed test with alpha = 0.0500: for Year x Common_ID : 0.0500

Least square means for Year :

Group	**Mean**	**SEM**
1998.000	1.069	0.0948
2008.000	0.604	0.0700

Least square means for Common_ID :

Group	**Mean**	**SEM**
1.000	0.292	0.113
4.000	0.982	0.111
5.000	1.071	0.111
6.000	1.002	0.134

Least square means for Year x Common_ID :

Group	Mean	SEM
1998.000 x 1.000	0.459	0.190
1998.000 x 4.000	1.208	0.190
1998.000 x 5.000	1.301	0.190
1998.000 x 6.000	1.308	0.190
2008.000 x 1.000	0.124	0.124
2008.000 x 4.000	0.755	0.116
2008.000 x 5.000	0.841	0.116
2008.000 x 6.000	0.696	0.190

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparisons for factor: **Year**

Comparison	Diff of Means	p	q	P	P<0.050
1998.000 vs. 2008.000	0.465	2	5.580	<0.001	Yes

Comparisons for factor: **Common_ID**

Comparison	Diff of Means	p	q	P	P<0.050
5.000 vs. 1.000	0.779	4	6.940	<0.001	Yes
5.000 vs. 4.000	0.0889	4	0.799	0.942	No
5.000 vs. 6.000	0.0687	4	0.558	0.979	Do Not Test
6.000 vs. 1.000	0.710	4	5.723	0.002	Yes
6.000 vs. 4.000	0.0202	4	0.164	0.999	Do Not Test
4.000 vs. 1.000	0.690	4	6.149	<0.001	Yes

Comparisons for factor: **Common_ID within 1998**

Comparison	Diff of Means	p	q	P	P<0.05
6.000 vs. 1.000	0.849	4	4.478	0.018	Yes
6.000 vs. 4.000	0.0997	4	0.526	0.982	No
6.000 vs. 5.000	0.00725	4	0.0382	1.000	Do Not Test
5.000 vs. 1.000	0.842	4	4.440	0.019	Yes
5.000 vs. 4.000	0.0925	4	0.488	0.986	Do Not Test
4.000 vs. 1.000	0.749	4	3.952	0.042	Yes

Comparisons for factor: **Common_ID within 2008**

Comparison	Diff of Means	p	q	P	P<0.05
5.000 vs. 1.000	0.716	4	5.960	0.001	Yes
5.000 vs. 6.000	0.145	4	0.920	0.915	No
5.000 vs. 4.000	0.0853	4	0.734	0.954	Do Not Test
4.000 vs. 1.000	0.631	4	5.250	0.005	Yes
4.000 vs. 6.000	0.0594	4	0.378	0.993	Do Not Test
6.000 vs. 1.000	0.572	4	3.567	0.077	No

Comparisons for factor: **Year within 1**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.335	2	2.088	0.150	No

Comparisons for factor: **Year within 4**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.453	2	2.881	0.051	No

Comparisons for factor: **Year within 5**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.460	2	2.927	0.047	Yes

Comparisons for factor: **Year within 6**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.612	2	3.228	0.030	Yes

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison. For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

Comparison of Ln(Aroclor 12548 mg/kg wet weight) in White Sucker (Fillet) for 1998 and 2008
Cornell-Dubilier Site WA 0-360

Two Way Analysis of Variance Tuesday, January 19, 2010, 3:51:23 PM

Data source: WhiteSucker in Filllet_AR1248_AR1254

General Linear Model

Dependent Variable: Ln(Arochlor1254+1)

Normality Test: Passed (P > 0.050)

Equal Variance Test: Passed (P = 0.287)

Source of Variation	DF	SS	MS	F	P
Year	1	6.607	6.607	32.289	<0.001
Common_ID	3	4.704	1.568	7.663	<0.001
Year x Common_ID	3	0.0650	0.0217	0.106	0.956
Residual	30	6.139	0.205		
Total	37	19.375	0.524		

The difference in the mean values among the different levels of Year is greater than would be expected by chance after allowing for effects of differences in Common_ID. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The difference in the mean values among the different levels of Common_ID is greater than would be expected by chance after allowing for effects of differences in Year. There is a statistically significant difference (P = <0.001). To isolate which group(s) differ from the others use a multiple comparison procedure.

The effect of different levels of Year does not depend on what level of Common_ID is present. There is not a statistically significant interaction between Year and Common_ID. (P = 0.956)

Power of performed test with alpha = 0.0500: for Year : 1.000
Power of performed test with alpha = 0.0500: for Common_ID : 0.962
Power of performed test with alpha = 0.0500: for Year x Common_ID : 0.0500

Least square means for Year :

Group	Mean	SEM
1998.000	1.835	0.131
2008.000	0.912	0.0964

Least square means for Common_ID :

Group	Mean	SEM
1.000	0.726	0.156
4.000	1.459	0.153
5.000	1.563	0.153
6.000	1.745	0.185

Least square means for Year x Common_ID :

Group	Mean	SEM
1998.000 x 1.000	1.207	0.261
1998.000 x 4.000	1.854	0.261
1998.000 x 5.000	2.009	0.261
1998.000 x 6.000	2.268	0.261
2008.000 x 1.000	0.245	0.171
2008.000 x 4.000	1.064	0.160
2008.000 x 5.000	1.118	0.160
2008.000 x 6.000	1.222	0.261

All Pairwise Multiple Comparison Procedures (Tukey Test):

Comparisons for factor: **Year**

Comparison	Diff of Means	p	q	P	P<0.050
1998.000 vs. 2008.000	0.922	2	8.036	<0.001	Yes

Comparisons for factor: **Common_ID**

Comparison	Diff of Means	p	q	P	P<0.050
6.000 vs. 1.000	1.019	4	5.958	0.001	Yes
6.000 vs. 4.000	0.286	4	1.687	0.636	No
6.000 vs. 5.000	0.182	4	1.072	0.873	Do Not Test
5.000 vs. 1.000	0.837	4	5.413	0.003	Yes
5.000 vs. 4.000	0.104	4	0.681	0.963	Do Not Test
4.000 vs. 1.000	0.733	4	4.738	0.011	Yes

Comparisons for factor: **Common_ID within 1998**

Comparison	Diff of Means	p	q	P	P<0.05
6.000 vs. 1.000	1.060	4	4.060	0.036	Yes
6.000 vs. 4.000	0.414	4	1.583	0.681	No
6.000 vs. 5.000	0.259	4	0.992	0.896	Do Not Test
5.000 vs. 1.000	0.801	4	3.068	0.155	No
5.000 vs. 4.000	0.154	4	0.591	0.975	Do Not Test
4.000 vs. 1.000	0.647	4	2.477	0.316	Do Not Test

Comparisons for factor: **Common_ID within 2008**

Comparison	Diff of Means	p	q	P	P<0.05
6.000 vs. 1.000	0.977	4	4.426	0.019	Yes
6.000 vs. 4.000	0.159	4	0.733	0.954	No
6.000 vs. 5.000	0.105	4	0.483	0.986	Do Not Test
5.000 vs. 1.000	0.872	4	5.270	0.004	Yes
5.000 vs. 4.000	0.0541	4	0.338	0.995	Do Not Test
4.000 vs. 1.000	0.818	4	4.943	0.008	Yes

Comparisons for factor: **Year within 1**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.962	2	4.358	0.005	Yes

Comparisons for factor: **Year within 4**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.791	2	3.651	0.015	Yes

Comparisons for factor: **Year within 5**

Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	0.891	2	4.114	0.007	Yes

Comparisons for factor: **Year within 6**

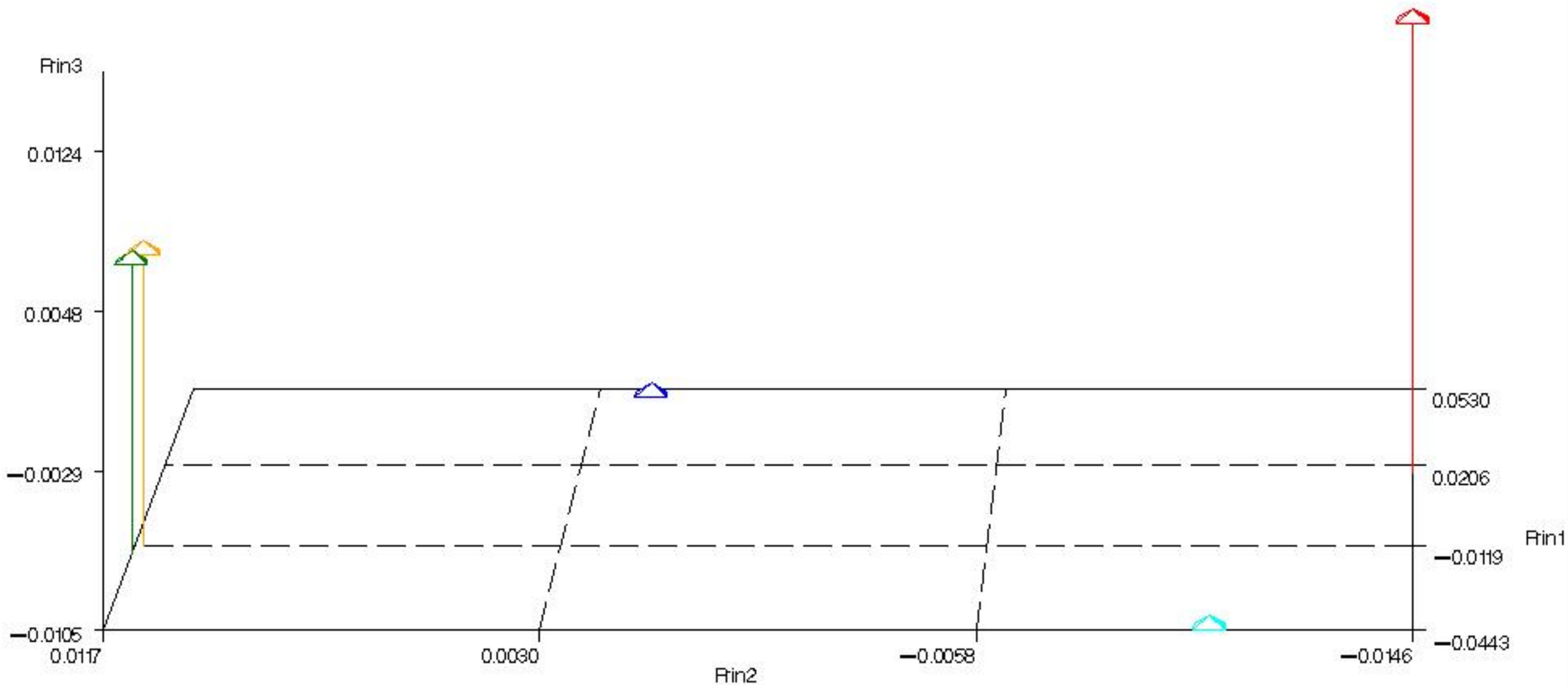
Comparison	Diff of Means	p	q	P	P<0.05
1998.000 vs. 2008.000	1.045	2	4.003	0.008	Yes

A result of "Do Not Test" occurs for a comparison when no significant difference is found between two means that enclose that comparison. For example, if you had four means sorted in order, and found no difference between means 4 vs. 2, then you would not test 4 vs. 3 and 3 vs. 2, but still test 4 vs. 1 and 3 vs. 1 (4 vs. 3 and 3 vs. 2 are enclosed by 4 vs. 2: 4 3 2 1). Note that not testing the enclosed means is a procedural rule, and a result of Do Not Test should be treated as if there is no significant difference between the means, even though one may appear to exist.

Asiatic Clam: Congeners Standardized to Percent of Total PCBs (ng/Kg Wet Weight)

PCA Run Using the Covariance Matrix

Cornell–Dubilier Site, WA #0–360



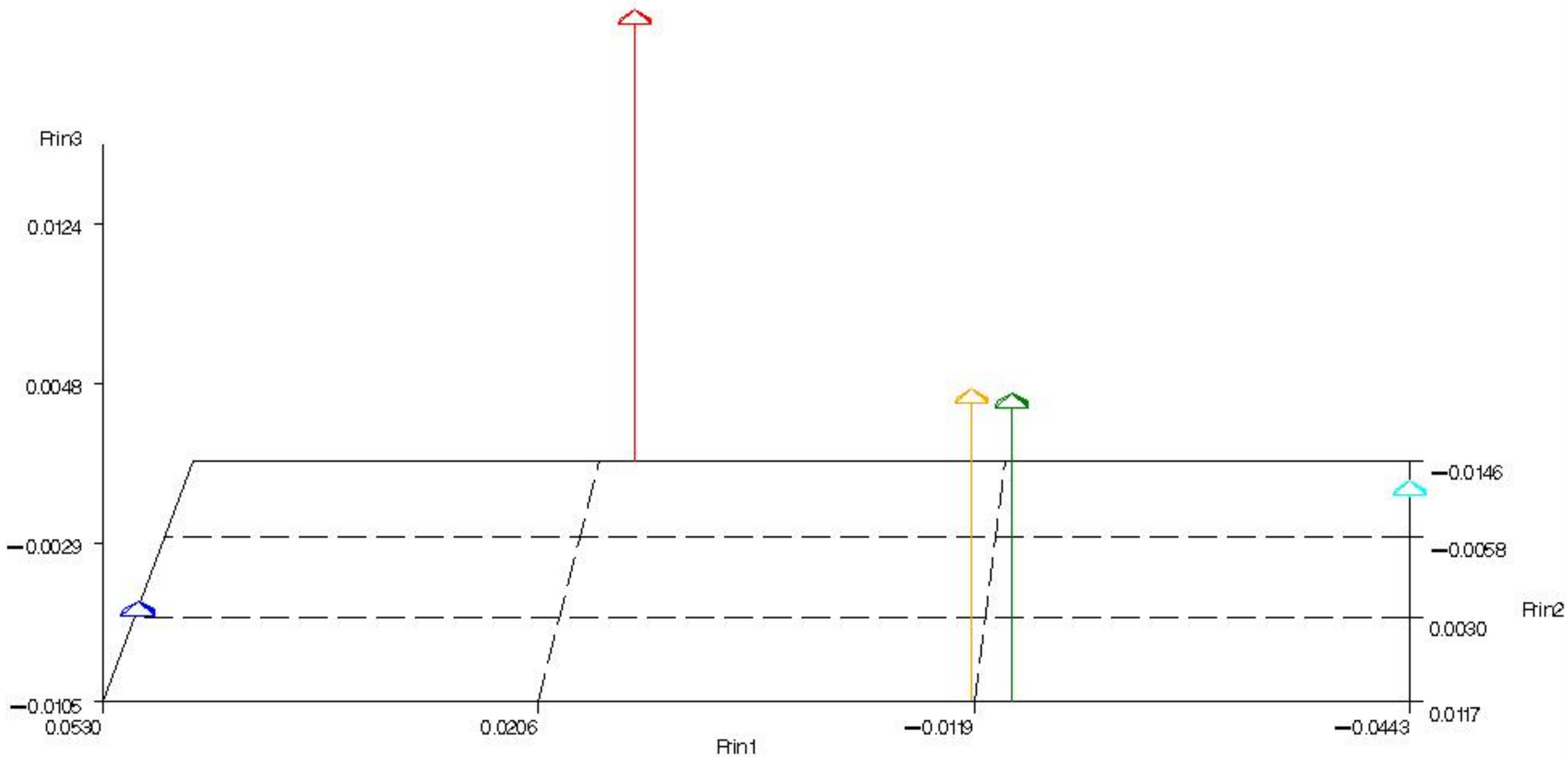
Station 1: Blue Station 2: Cyan Station 3: Red

Station 4: Orange Station 5: Green

Asiatic Clam: Congeners Standardized to Percent of Total PCBs (ng/Kg Wet Weight)

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



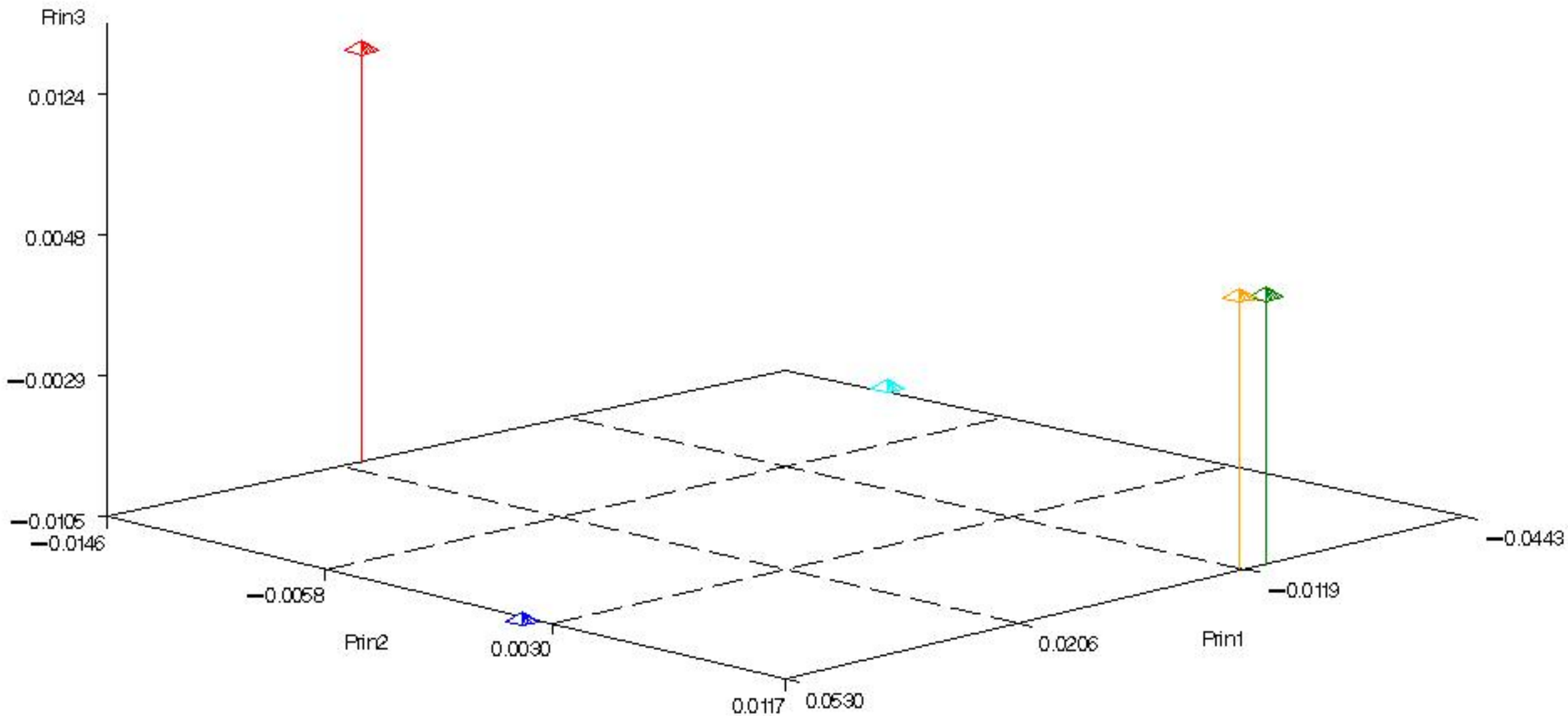
Station 1: Blue Station 2: Cyan Station 3: Red

Station 4: Orange Station 5: Green

Asiatic Clam: Congeners Standardized to Percent of Total PCBs (ng/Kg Wet Weight)

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



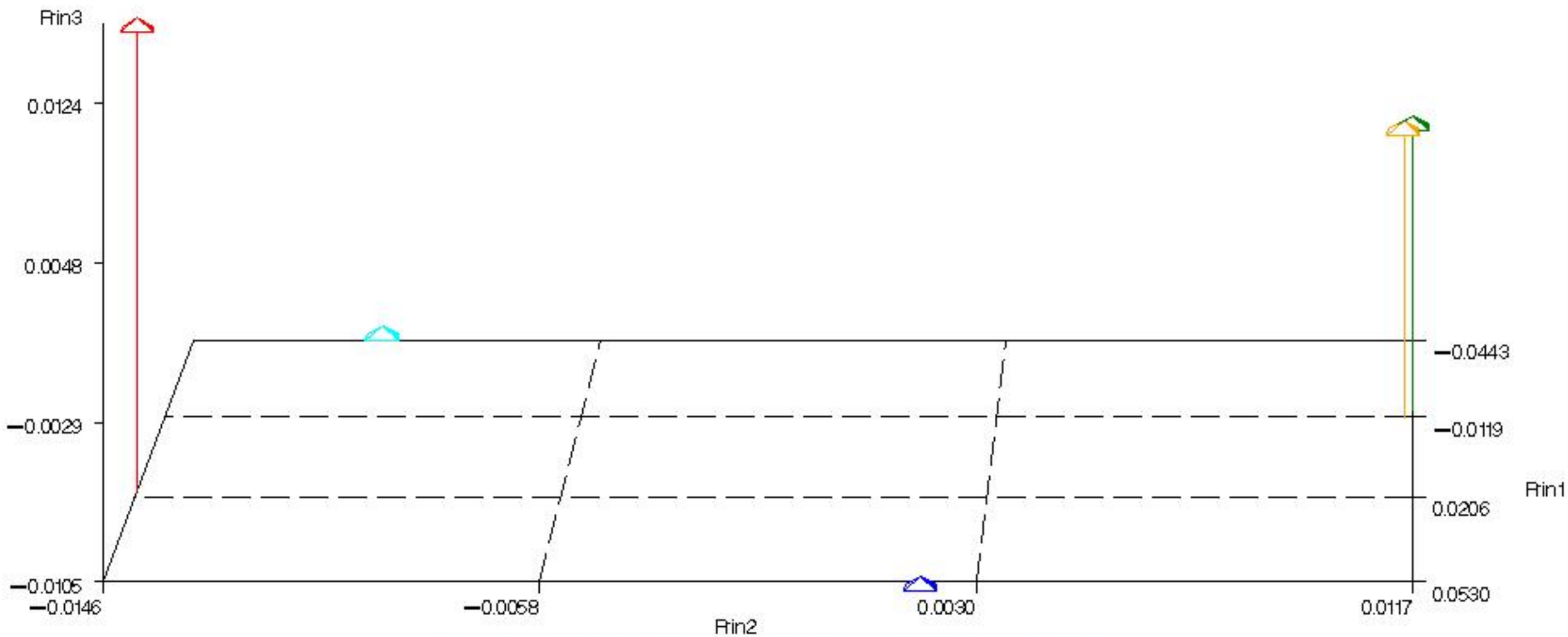
Station 1: Blue Station 2: Cyan Station 3: Red

Station 4: Orange Station 5: Green

Asiatic Clam: Congeners Standardized to Percent of Total PCBs (ng/Kg Wet Weight)

PCA Run Using the Covariance Matrix

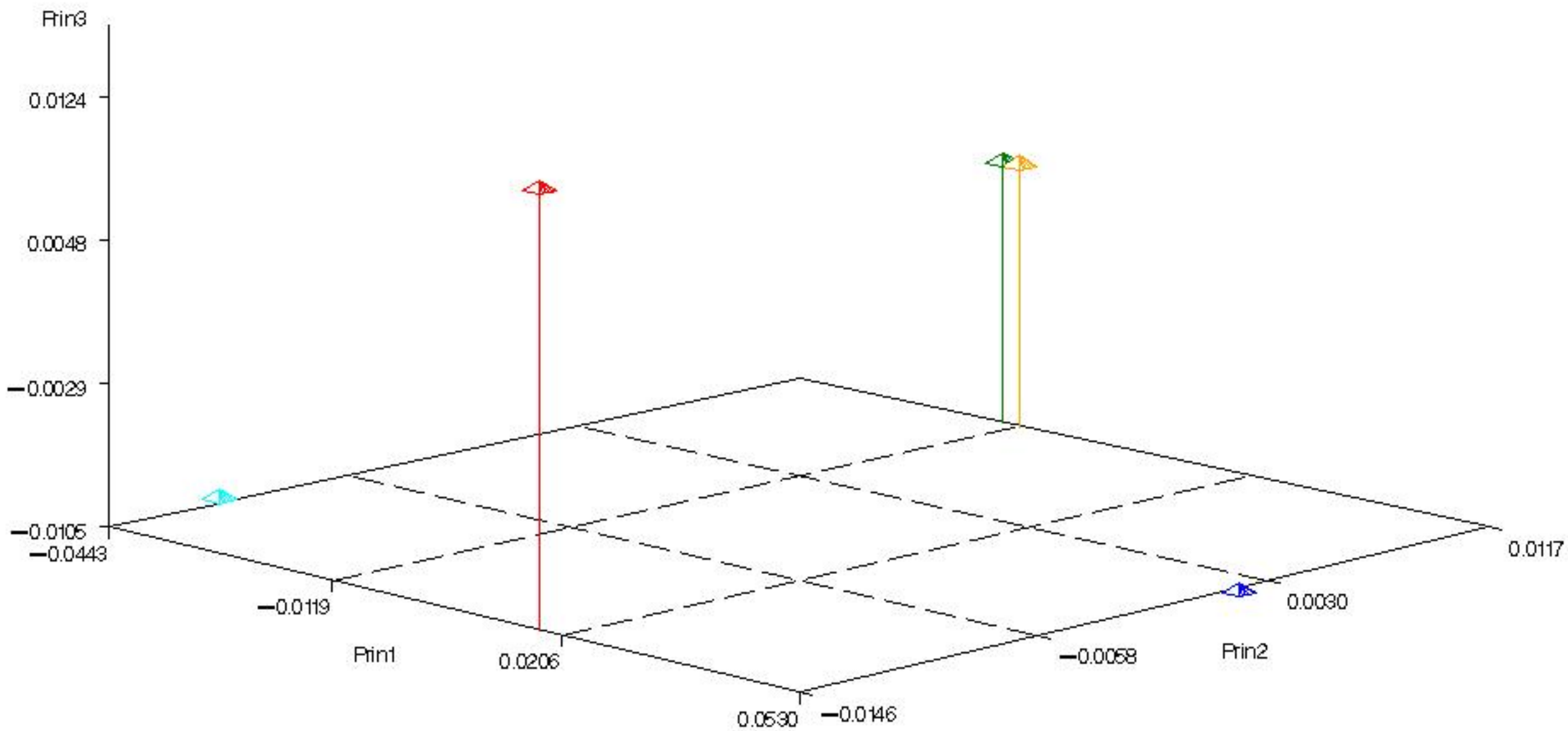
Cornell–Dubilier Site, WA #0–360



Asiatic Clam: Congeners Standardized to Percent of Total PCBs (ng/Kg Wet Weight)

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



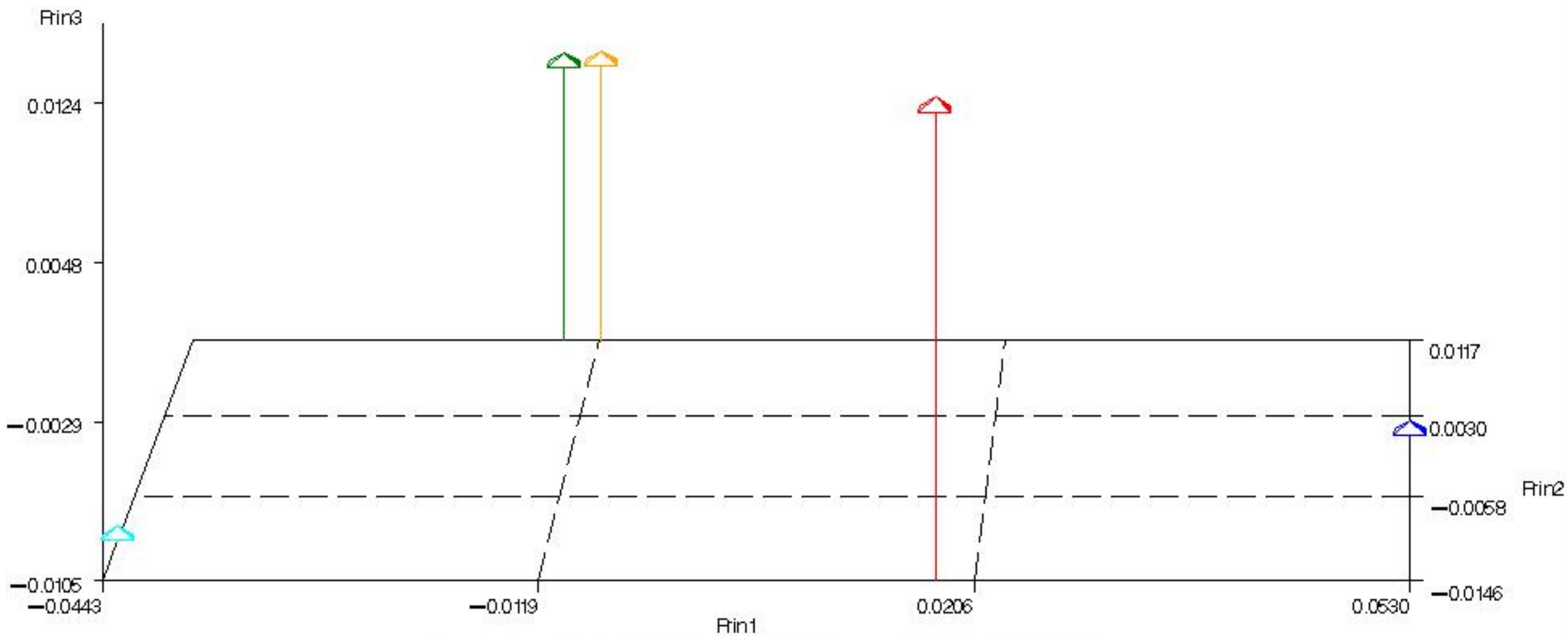
Station 1: Blue Station 2: Cyan Station 3: Red

Station 4: Orange Station 5: Green

Asiatic Clam: Congeners Standardized to Percent of Total PCBs (ng/Kg Wet Weight)

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red

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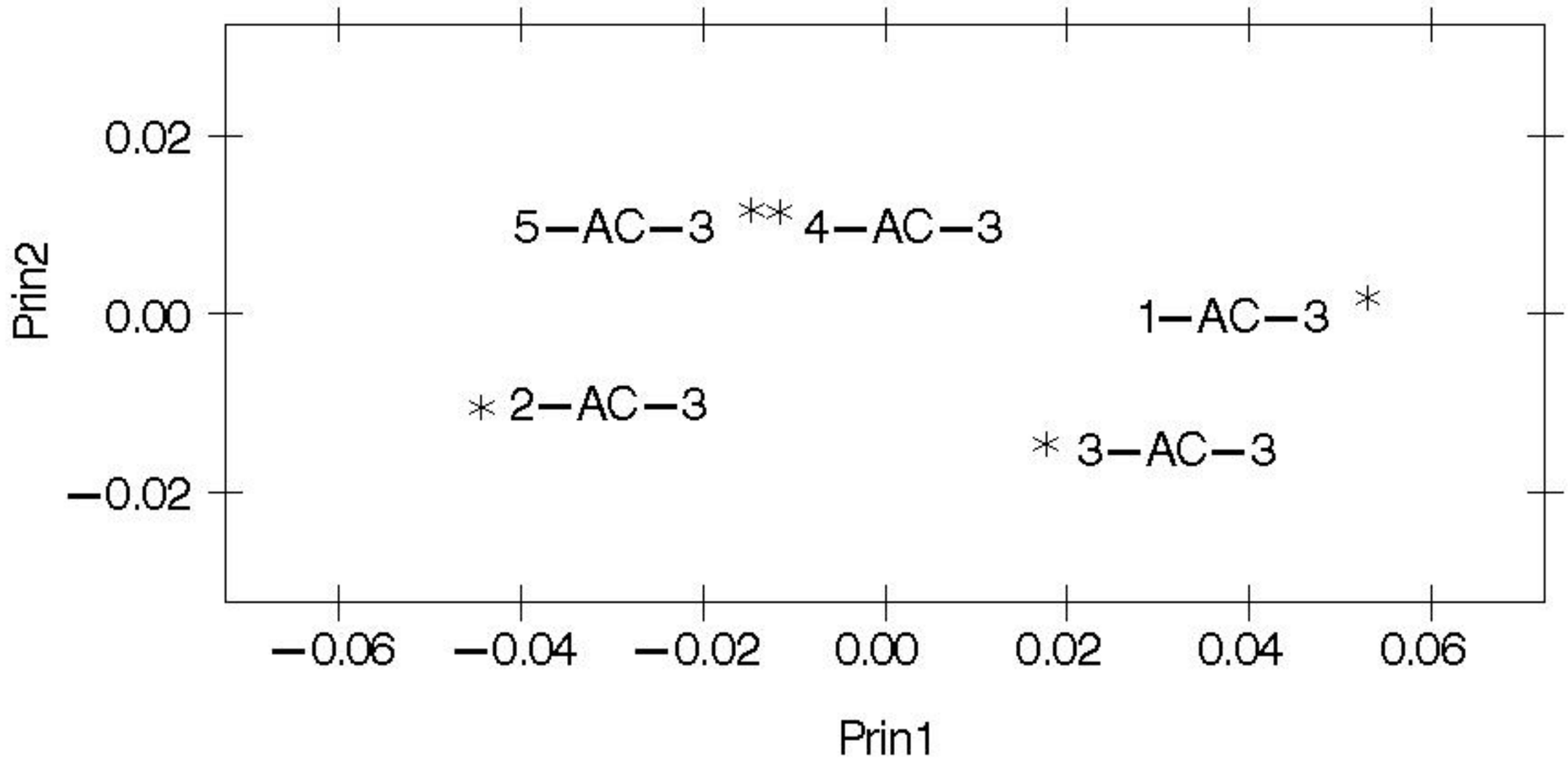
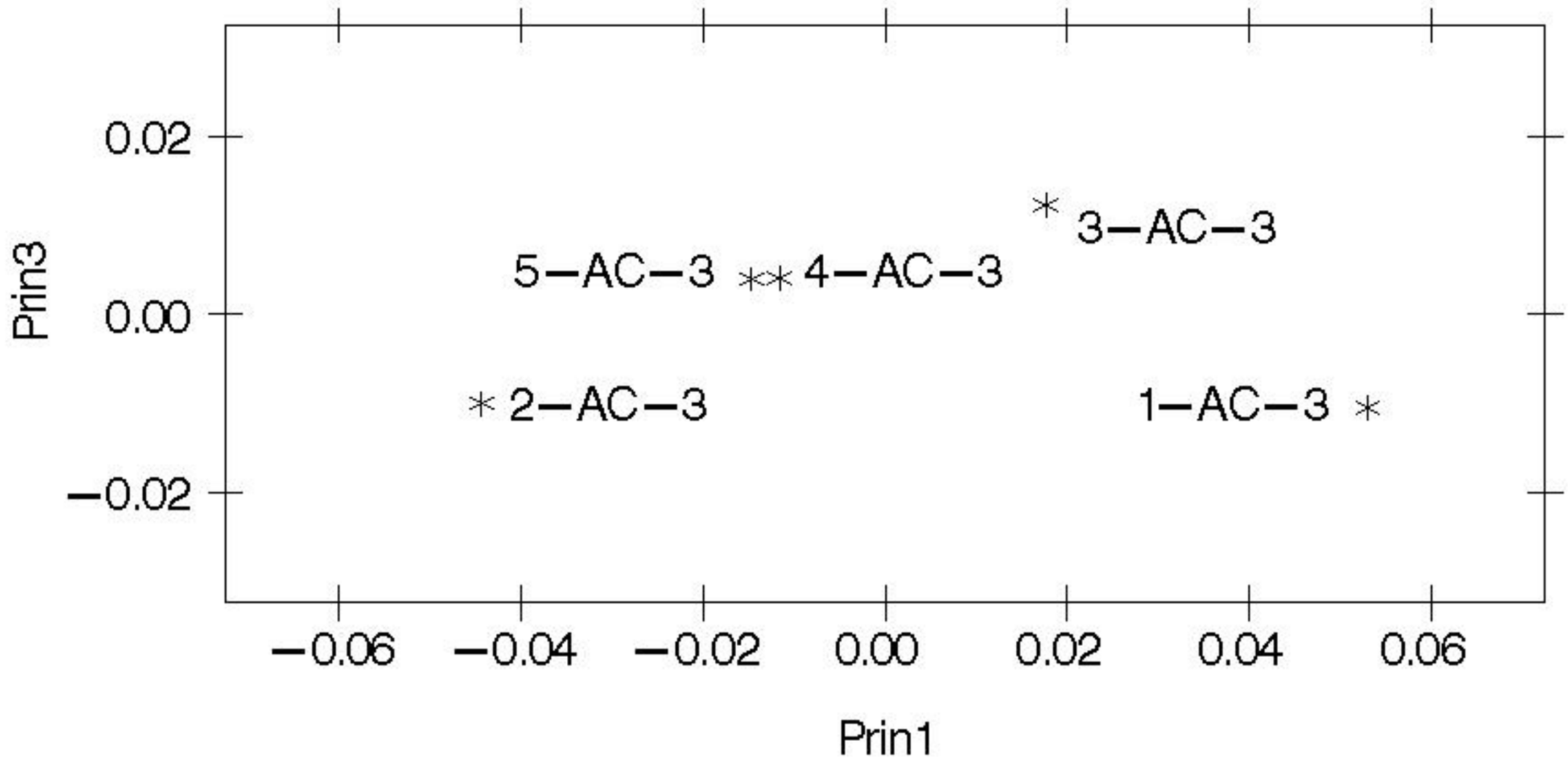
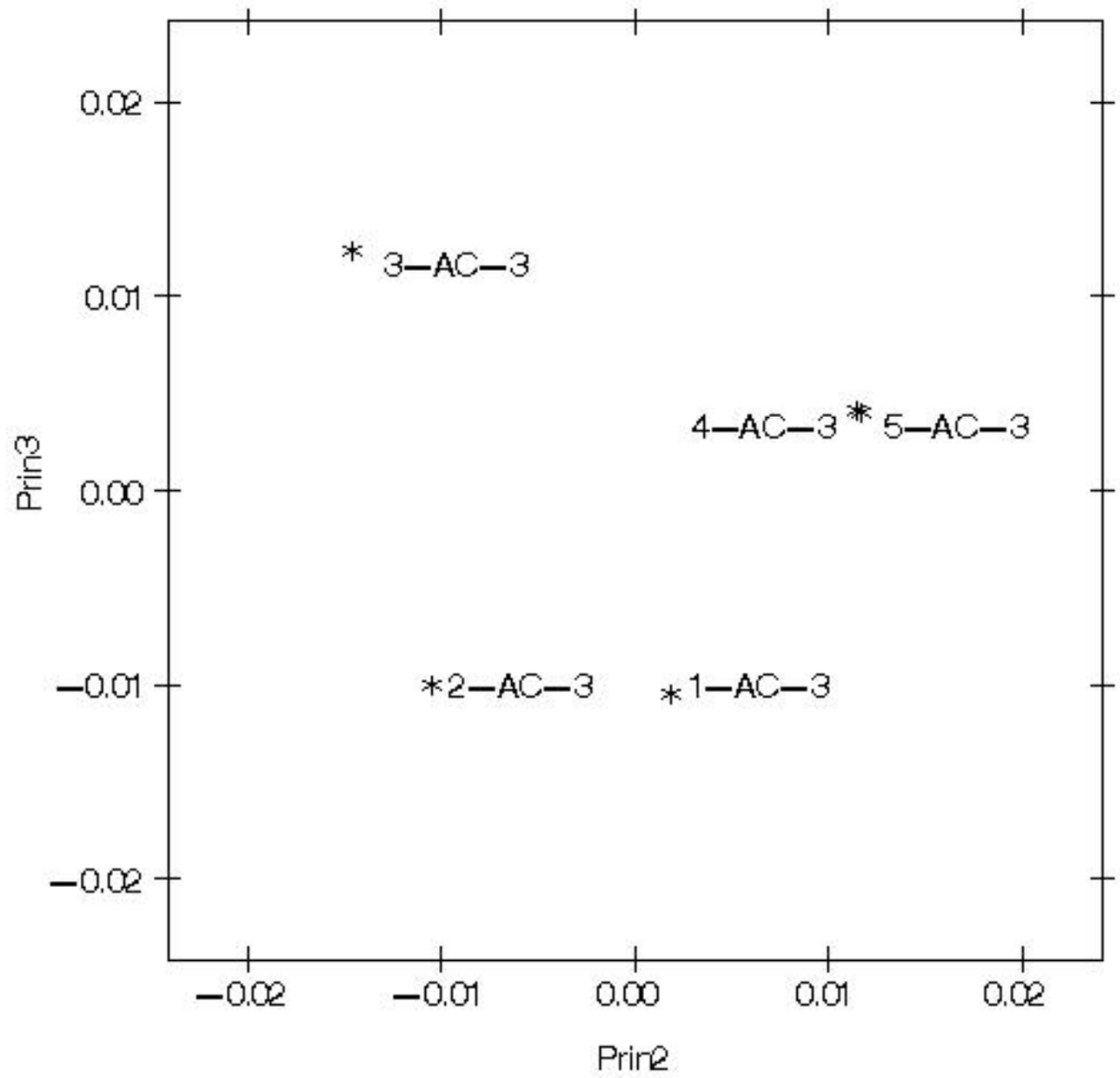
Asiatic Clam: Congeners Standardized to % Total PCBs
PCA Run Using the Covariance Matrix
Cornell—Dubilier Site, WA #0—360 footnote



Asiatic Clam: Congeners Standardized to % Total PCBs
PCA Run Using the Covariance Matrix
Cornell—Dubilier Site, WA #0—360 footnote



Asiatic Clam: Congeners Standardized to % Total PCBs
PCA Run Using the Covariance Matrix
Cornell—Dubilier Site, WA #0—360 footnote



Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Observations	5
Variables	149

Simple Statistics

	PCB_1	PCB_2	PCB_3	PCB_4	PCB_10	PCB_9
Mean	0.0003051079	2.6095155E-6	0.0000297246	0.0119471335	0.0005259023	0.0000720453
StD	0.0002152224	1.3968303E-6	0.0000225169	0.0086576908	0.0003670820	0.0000398111

Simple Statistics

	PCB_7	PCB_6	PCB_5	PCB_8	PCB_12_13	PCB_15
Mean	0.0000556726	0.0006885215	0.0000183085	0.0011757635	0.0005308843	0.0009568418
StD	0.0000261243	0.0002861240	0.0000160925	0.0006932282	0.0004126079	0.0004970391

Simple Statistics

	PCB_19	PCB_18_30	PCB_17	PCB_27	PCB_24	PCB_16
Mean	0.0057939697	0.0055256393	0.0057805305	0.0129678679	0.0000122159	0.0017598788
StD	0.0038685619	0.0014582601	0.0024795074	0.0084652993	0.0000249044	0.0005176732

Simple Statistics

	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25	PCB_31
Mean	0.0034969192	0.0000560531	3.1097695E-6	0.0039414804	0.0024140946	0.0027555960
StD	0.0010955967	0.0000300887	1.5031674E-6	0.0016921677	0.0007995377	0.0008753169

Simple Statistics

	PCB_20_28	PCB_21_33	PCB_22	PCB_39	PCB_38	PCB_35
Mean	0.0053747342	0.0006791863	0.0013417562	0.0000431692	0.0000250148	0.0000436377
StD	0.0011813629	0.0002919818	0.0004384517	0.0000062939	0.0000258386	0.0000164862

Simple Statistics

	PCB_37	PCB_54	PCB_50_53	PCB_45_51	PCB_46	PCB_52
Mean	0.0008775193	0.0004996900	0.0164300920	0.0072886434	0.0017927335	0.0421308650
StD	0.0002094522	0.0002911736	0.0067597673	0.0020482985	0.0005511176	0.0087976368

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Simple Statistics

	PCB_73	PCB_43	PCB_49_69	PCB_48	PCB_44_47_65	PCB_59_62_75
Mean	0.0001021381	0.0004587611	0.0257546095	0.0013015879	0.0392310335	0.0029652332
StD	0.0002247066	0.0000587136	0.0102135670	0.0003553873	0.0075567520	0.0018785127

Simple Statistics

	PCB_42	PCB_40_41_71	PCB_64	PCB_72	PCB_68	PCB_57
Mean	0.0085449881	0.0099777663	0.0054595176	0.0010267441	0.0008875819	0.0003847747
StD	0.0012757364	0.0010747547	0.0008687769	0.0006577946	0.0004540121	0.0003119029

Simple Statistics

	PCB_58	PCB_67	PCB_63	PCB_61_70_74_76	PCB_66	PCB_56
Mean	0.0001574582	0.0006209280	0.0006046220	0.0202152222	0.0135302123	0.0032340767
StD	0.0000554315	0.0002223788	0.0001214720	0.0022171438	0.0021558750	0.0006977059

Simple Statistics

	PCB_60	PCB_79	PCB_81	PCB_77	PCB_104	PCB_96
Mean	0.0009934342	0.0005121913	0.0000365724	0.0005623447	0.0000389584	0.0004547850
StD	0.0002748236	0.0001041531	0.0000138465	0.0002516325	0.0000221699	0.0000752533

Simple Statistics

	PCB_103	PCB_94	PCB_95	PCB_93_98_100_102	PCB_88_91	PCB_84
Mean	0.0007581517	0.0007104853	0.0599138841	0.0034709600	0.0091837444	0.0118232244
StD	0.0002338525	0.0002235222	0.0071963069	0.0005569828	0.0008432090	0.0006913971

Simple Statistics

	PCB_89	PCB_121	PCB_92	PCB_90_101_113	PCB_83	PCB_99
Mean	0.0003452856	0.0000253025	0.0136264037	0.0603836207	0.0030528401	0.0335582606
StD	0.0001461356	0.0000155929	0.0015743297	0.0056758557	0.0002954690	0.0052941814

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Simple Statistics

	PCB_86_87_97_108_119_125	PCB_85_117_116	PCB_110_115	PCB_82	PCB_111	PCB_120
Mean	0.0366572982	0.0087357526	0.0644605084	0.0037376867	0.0000741911	0.0002754522
StD	0.0044192347	0.0007034011	0.0039985655	0.0005050322	0.0000493106	0.0001393288

Simple Statistics

	PCB_107_124	PCB_109	PCB_123	PCB_118	PCB_122	PCB_114
Mean	0.0016589367	0.0033020122	0.0009549276	0.0609754940	0.0004363491	0.0007367205
StD	0.0001588402	0.0005940376	0.0000913343	0.0096575611	0.0000525139	0.0001678928

Simple Statistics

	PCB_105	PCB_127	PCB_155	PCB_152	PCB_150	PCB_136
Mean	0.0132364198	0.0000423715	3.7481343E-6	0.0000749333	0.0000749483	0.0062203333
StD	0.0026596594	0.0000078040	1.357482E-6	0.0000065432	0.0000060239	0.0010561799

Simple Statistics

	PCB_145	PCB_148	PCB_135_151	PCB_154	PCB_144	PCB_147_149
Mean	0.0000231113	0.0000764575	0.0183694682	0.0006394087	0.0022174427	0.0432768949
StD	0.0000014130	0.0000034006	0.0063901154	0.0000744250	0.0007702690	0.0102916008

Simple Statistics

	PCB_134_143	PCB_139_140	PCB_131	PCB_142	PCB_132	PCB_133
Mean	0.0031302141	0.0012443916	0.0010019719	2.6053585E-6	0.0167268925	0.0009071514
StD	0.0003742071	0.0001101563	0.0001769299	2.5262905E-6	0.0025467187	0.0001639056

Simple Statistics

	PCB_165	PCB_146	PCB_153_168	PCB_141	PCB_130	PCB_137
Mean	0.0000367482	0.0088597265	0.0881227210	0.0013078139	0.0036187997	0.0015193721
StD	0.0000241179	0.0022339810	0.0209438459	0.0005090816	0.0006110186	0.0001677589

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Simple Statistics

	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159	PCB_162
Mean	0.0022309851	0.0668174687	0.0063869665	0.0083257378	2.6135552E-6	0.0001173999
StD	0.0006008317	0.0119678139	0.0013159696	0.0017927707	2.5418387E-6	0.0000560502

Simple Statistics

	PCB_167	PCB_156_57	PCB_169	PCB_188	PCB_179	PCB_184
Mean	0.0039983677	0.0037551327	0.0000234165	0.0000103597	0.0029450359	5.4361489E-6
StD	0.0005494542	0.0001228832	0.0000253082	0.0000071362	0.0022679362	1.0109504E-6

Simple Statistics

	PCB_176	PCB_178	PCB_175	PCB_187	PCB_182	PCB_183_185
Mean	0.0010689499	0.0016764847	0.0003491171	0.0105843335	0.0000185700	0.0053284912
StD	0.0007155071	0.0013168829	0.0002622857	0.0082038067	0.0000086750	0.0035938423

Simple Statistics

	PCB_174	PCB_177	PCB_181	PCB_171_173	PCB_172	PCB_180_193
Mean	0.0015349791	0.0045141098	0.0000995177	0.0028565019	0.0001629886	0.0068528664
StD	0.0013079609	0.0029422207	0.0000196253	0.0015682877	0.0001298754	0.0052202569

Simple Statistics

	PCB_191	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201
Mean	0.0002192964	0.0015288460	0.0011207912	0.0000544173	0.0004617939	0.0003596443
StD	0.0001272121	0.0008260621	0.0005716655	0.0000234437	0.0005311643	0.0003701179

Simple Statistics

	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195	PCB_194
Mean	0.0002099939	0.0005181192	0.0003185424	0.0012891786	0.0005166837	0.0001015040
StD	0.0002124166	0.0006456911	0.0003194178	0.0011622912	0.0004097323	0.0001116431

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Simple Statistics

	PCB_205	PCB_208	PCB_207	PCB_206	PCB_209
Mean	0.0000764639	0.0000552352	0.0000302155	0.0001382746	0.0000504103
StD	0.0000579777	0.0000786646	0.0000354417	0.0001633643	0.0000809514

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_1	PCB 1	0.0000000463	0.0000000000	0.0000000044
PCB_2	PCB 2	0.0000000000	0.0000000000	0.0000000000
PCB_3	PCB 3	0.0000000044	0.0000000000	0.0000000005
PCB_4	PCB 4	0.0000017667	0.0000000033	0.0000001844
PCB_10	PCB 10	0.0000000759	0.0000000001	0.0000000077
PCB_9	PCB 9	0.0000000027	-.0000000000	0.0000000002
PCB_7	PCB 7	0.0000000046	-.0000000000	0.0000000005
PCB_6	PCB 6	0.0000000390	-.0000000002	0.0000000032
PCB_5	PCB 5	0.0000000008	-.0000000000	0.0000000001
PCB_8	PCB 8	0.0000000752	-.0000000005	0.0000000070
PCB_12_13	PCB 12/13	0.0000000824	0.0000000002	0.0000000087
PCB_15	PCB 15	0.0000000869	-.0000000001	0.0000000090
PCB_19	PCB 19	0.0000007932	0.0000000012	0.0000000800
PCB_18_30	PCB 18/30	-.0000000677	-.0000000020	-.0000000152
PCB_17	PCB 17	0.0000004995	0.0000000001	0.0000000462
PCB_27	PCB 27	0.0000015901	0.0000000002	0.0000001264
PCB_24	PCB 24	-.0000000038	0.0000000000	-.0000000003
PCB_16	PCB 16	-.0000000354	-.0000000005	-.0000000042
PCB_32	PCB 32	0.0000002005	-.0000000005	0.0000000146
PCB_34	PCB 34	0.0000000052	-.0000000000	0.0000000004
PCB_23	PCB 23	-.0000000002	-.0000000000	-.0000000000
PCB_26_29	PCB 26/29	-.0000000556	-.0000000016	-.0000000205
PCB_25	PCB 25	0.0000000799	-.0000000005	0.0000000016
PCB_31	PCB 31	-.0000000587	-.0000000012	-.0000000104
PCB_20_28	PCB 20/28	-.0000000286	-.0000000014	-.0000000059
PCB_21_33	PCB 21/33	-.0000000408	-.0000000002	-.0000000042
PCB_22	PCB 22	-.0000000710	-.0000000003	-.0000000073
PCB_39	PCB 39	-.0000000006	0.0000000000	-.0000000000
PCB_38	PCB 38	-.0000000005	-.0000000000	-.0000000003
PCB_35	PCB 35	-.0000000032	0.0000000000	-.0000000003
PCB_37	PCB 37	-.0000000212	-.0000000002	-.0000000022
PCB_54	PCB 54	0.0000000532	-.0000000000	0.0000000041
PCB_50_53	PCB 50/53	0.0000008508	-.0000000019	0.0000000367
PCB_45_51	PCB 45/51	0.0000003645	0.0000000005	0.0000000313
PCB_46	PCB 46	0.0000000413	-.0000000004	-.0000000009
PCB_52	PCB 52	0.0000009030	-.0000000038	0.0000000284
PCB_73	PCB 73	0.0000000036	-.0000000001	0.0000000010
PCB_43	PCB 43	0.0000000057	0.0000000000	0.0000000006
PCB_49_69	PCB 49/69	0.0000007902	-.0000000079	-.0000000076
PCB_48	PCB 48	-.0000000458	0.0000000003	-.0000000019
PCB_44_47_65	PCB 44/47/65	0.0000012663	0.0000000013	0.0000001044
PCB_59_62_75	PCB 59/62/75	-.0000000871	-.0000000017	-.0000000259

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_10	PCB_9	PCB_7	PCB_6
PCB_1	0.0000017667	0.0000000759	0.0000000027	0.0000000046	0.0000000390
PCB_2	0.0000000033	0.0000000001	-.0000000000	-.0000000000	-.0000000002
PCB_3	0.0000001844	0.0000000077	0.0000000002	0.0000000005	0.0000000032
PCB_4	0.0000749556	0.0000031714	0.0000000717	0.0000001781	0.0000013012
PCB_10	0.0000031714	0.0000001347	0.0000000037	0.0000000077	0.0000000596
PCB_9	0.0000000717	0.0000000037	0.0000000016	0.0000000008	0.0000000106
PCB_7	0.0000001781	0.0000000077	0.0000000008	0.0000000007	0.0000000068
PCB_6	0.0000013012	0.0000000596	0.0000000106	0.0000000068	0.0000000819
PCB_5	0.0000000136	0.0000000008	0.0000000006	0.0000000003	0.0000000041
PCB_8	0.0000024689	0.0000001139	0.0000000269	0.0000000159	0.0000001934
PCB_12_13	0.0000035653	0.0000001504	0.0000000028	0.0000000082	0.0000000575
PCB_15	0.0000036077	0.0000001560	0.0000000136	0.0000000127	0.0000001227
PCB_19	0.0000333822	0.0000014180	0.0000000334	0.0000000787	0.0000005969
PCB_18_30	-.0000046246	-.0000001662	0.0000000417	0.0000000049	0.0000002219
PCB_17	0.0000205972	0.0000008853	0.0000000290	0.0000000500	0.0000004308
PCB_27	0.0000625879	0.0000027077	0.0000000244	0.0000001186	0.0000010059
PCB_24	-.0000001443	-.0000000065	-.0000000006	-.0000000005	-.0000000055
PCB_16	-.0000019607	-.0000000763	0.0000000162	0.0000000028	0.0000000759
PCB_32	0.0000074238	0.0000003296	0.0000000198	0.0000000205	0.0000002260
PCB_34	0.0000002099	0.0000000092	0.0000000005	0.0000000006	0.0000000060
PCB_23	-.0000000108	-.0000000004	0.0000000000	-.0000000000	0.0000000000
PCB_26_29	-.0000037697	-.0000001316	0.0000000004	-.0000000138	0.0000000035
PCB_25	0.0000026849	0.0000001262	0.0000000039	0.0000000040	0.0000000757
PCB_31	-.0000033930	-.0000001271	0.0000000240	0.0000000015	0.0000001176
PCB_20_28	-.0000018663	-.0000000598	0.0000000413	0.0000000118	0.0000002322
PCB_21_33	-.0000019266	-.0000000793	0.0000000052	-.0000000015	0.0000000091
PCB_22	-.0000032742	-.0000001361	0.0000000049	-.0000000042	-.0000000080
PCB_39	-.0000000179	-.0000000009	-.0000000001	-.0000000001	-.0000000012
PCB_38	-.0000000584	-.0000000020	0.0000000002	-.0000000001	0.0000000013
PCB_35	-.0000001305	-.0000000056	-.0000000002	-.0000000003	-.0000000028
PCB_37	-.0000009160	-.0000000367	0.0000000057	0.0000000005	0.0000000229
PCB_54	0.0000020994	0.0000000915	0.0000000021	0.0000000044	0.0000000417
PCB_50_53	0.0000295684	0.0000013277	-.0000000237	0.0000000286	0.0000003768
PCB_45_51	0.0000153864	0.0000006571	-.0000000045	0.0000000253	0.0000001714
PCB_46	0.0000009871	0.0000000507	-.0000000001	-.0000000000	0.0000000284
PCB_52	0.0000340536	0.0000015459	-.0000000106	0.0000000327	0.0000005289
PCB_73	0.0000001380	0.0000000072	0.0000000078	0.0000000037	0.0000000461
PCB_43	0.0000003176	0.0000000129	-.0000000013	0.0000000001	-.0000000043
PCB_49_69	0.0000240452	0.0000011888	0.0000000515	0.0000000301	0.0000008679
PCB_48	-.0000015586	-.0000000723	-.0000000052	-.0000000041	-.0000000584
PCB_44_47_65	0.0000539841	0.0000023100	-.0000000245	0.0000000826	0.0000005581
PCB_59_62_75	-.0000061499	-.0000002294	-.0000000040	-.0000000203	-.0000000391

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_5	PCB_8	PCB_12_13	PCB_15	PCB_19
PCB_1	0.0000000008	0.0000000752	0.0000000824	0.0000000869	0.0000007932
PCB_2	-.0000000000	-.0000000005	0.0000000002	-.0000000001	0.0000000012
PCB_3	0.0000000001	0.0000000070	0.0000000087	0.0000000090	0.0000000800
PCB_4	0.0000000136	0.0000024689	0.0000035653	0.0000036077	0.0000333822
PCB_10	0.0000000008	0.0000001139	0.0000001504	0.0000001560	0.0000014180
PCB_9	0.0000000006	0.0000000269	0.0000000028	0.0000000136	0.0000000334
PCB_7	0.0000000003	0.0000000159	0.0000000082	0.0000000127	0.0000000787
PCB_6	0.0000000041	0.0000001934	0.0000000575	0.0000001227	0.0000005969
PCB_5	0.0000000003	0.0000000105	0.0000000004	0.0000000047	0.0000000065
PCB_8	0.0000000105	0.0000004806	0.0000001068	0.0000002813	0.0000011062
PCB_12_13	0.0000000004	0.0000001068	0.0000001702	0.0000001689	0.0000015872
PCB_15	0.0000000047	0.0000002813	0.0000001689	0.0000002470	0.0000016106
PCB_19	0.0000000065	0.0000011062	0.0000015872	0.0000016106	0.0000149658
PCB_18_30	0.0000000177	0.0000005553	-.0000002387	0.0000000735	-.0000018081
PCB_17	0.0000000071	0.0000007902	0.0000009770	0.0000010448	0.0000093863
PCB_27	-.0000000040	0.0000012839	0.0000029692	0.0000026127	0.0000291381
PCB_24	-.0000000002	-.0000000110	-.0000000067	-.0000000098	-.0000000692
PCB_16	0.0000000070	0.0000002291	-.0000001005	0.0000000273	-.0000008706
PCB_32	0.0000000064	0.0000004201	0.0000003456	0.0000004223	0.0000035020
PCB_34	0.0000000002	0.0000000112	0.0000000099	0.0000000122	0.0000000986
PCB_23	0.0000000000	0.0000000002	-.0000000005	-.0000000003	-.0000000048
PCB_26_29	0.0000000001	-.0000001499	-.0000001819	-.0000001895	-.0000011662
PCB_25	0.0000000007	0.0000000704	0.0000001261	0.0000001202	0.0000014260
PCB_31	0.0000000103	0.0000003081	-.0000001717	0.0000000155	-.0000013764
PCB_20_28	0.0000000168	0.0000006148	-.0000001008	0.0000002144	-.0000007220
PCB_21_33	0.0000000026	0.0000000537	-.0000000948	-.0000000456	-.0000008676
PCB_22	0.0000000028	0.0000000274	-.0000001597	-.0000001048	-.0000014727
PCB_39	-.0000000000	-.0000000022	-.0000000008	-.0000000015	-.0000000097
PCB_38	0.0000000001	0.0000000011	-.0000000030	-.0000000019	-.0000000184
PCB_35	-.0000000000	-.0000000050	-.0000000062	-.0000000066	-.0000000602
PCB_37	0.0000000025	0.0000000751	-.0000000450	0.0000000047	-.0000004050
PCB_54	0.0000000004	0.0000000622	0.0000000995	0.0000000976	0.0000009852
PCB_50_53	-.0000000168	-.0000001310	0.0000013962	0.0000008542	0.0000148200
PCB_45_51	-.0000000056	0.0000001456	0.0000007399	0.0000005956	0.0000071111
PCB_46	-.0000000003	-.0000000090	0.0000000441	0.0000000184	0.0000005986
PCB_52	-.0000000158	-.0000000128	0.0000016387	0.0000012066	0.0000175530
PCB_73	0.0000000032	0.0000001325	0.0000000045	0.0000000636	0.0000000403
PCB_43	-.0000000006	-.0000000163	0.0000000161	0.0000000057	0.0000001441
PCB_49_69	0.0000000116	0.0000007201	0.0000011195	0.0000011138	0.0000137873
PCB_48	-.0000000017	-.0000000960	-.0000000721	-.0000000923	-.0000007882
PCB_44_47_65	-.0000000239	0.0000003285	0.0000026056	0.0000020422	0.0000251464
PCB_59_62_75	-.0000000006	-.0000002547	-.0000003026	-.0000003502	-.0000022141

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_17	PCB_27	PCB_24	PCB_16
PCB_1	-.0000000677	0.0000004995	0.0000015901	-.0000000038	-.0000000354
PCB_2	-.0000000020	0.0000000001	0.0000000002	0.0000000000	-.0000000005
PCB_3	-.0000000152	0.0000000462	0.0000001264	-.0000000003	-.0000000042
PCB_4	-.0000046246	0.0000205972	0.0000625879	-.0000001443	-.0000019607
PCB_10	-.0000001662	0.0000008853	0.0000027077	-.0000000065	-.0000000763
PCB_9	0.0000000417	0.0000000290	0.0000000244	-.0000000006	0.0000000162
PCB_7	0.0000000049	0.0000000500	0.0000001186	-.0000000005	0.0000000028
PCB_6	0.0000002219	0.0000004308	0.0000010059	-.0000000055	0.0000000759
PCB_5	0.0000000177	0.0000000071	-.0000000040	-.0000000002	0.0000000070
PCB_8	0.0000005553	0.0000007902	0.0000012839	-.0000000110	0.0000002291
PCB_12_13	-.0000002387	0.0000009770	0.0000029692	-.0000000067	-.0000001005
PCB_15	0.0000000735	0.0000010448	0.0000026127	-.0000000098	0.0000000273
PCB_19	-.0000018081	0.0000093863	0.0000291381	-.0000000692	-.0000008706
PCB_18_30	0.0000021265	-.0000005549	-.0000022049	-.0000000140	0.0000006376
PCB_17	-.0000005549	0.0000061480	0.0000196444	-.0000000519	-.0000004597
PCB_27	-.0000022049	0.0000196444	0.0000716613	-.0000001675	-.0000022680
PCB_24	-.0000000140	-.0000000519	-.0000001675	0.0000000006	-.0000000008
PCB_16	0.0000006376	-.0000004597	-.0000022680	-.0000000008	0.0000002680
PCB_32	0.0000003158	0.0000024959	0.0000084747	-.0000000262	-.0000000721
PCB_34	0.0000000071	0.0000000699	0.0000002278	-.0000000007	-.0000000024
PCB_23	0.0000000016	-.0000000028	-.0000000101	0.0000000000	0.0000000007
PCB_26_29	0.0000014320	0.0000000535	0.0000036016	-.0000000173	0.0000000669
PCB_25	0.0000003600	0.0000012236	0.0000053259	-.0000000160	-.0000000901
PCB_31	0.0000012687	-.0000005364	-.0000020836	-.0000000065	0.0000003966
PCB_20_28	0.0000015720	-.0000000930	-.0000019849	-.0000000127	0.0000005525
PCB_21_33	0.0000002982	-.0000005216	-.0000019800	0.0000000025	0.0000001367
PCB_22	0.0000003995	-.0000008992	-.0000031870	0.0000000051	0.0000001849
PCB_39	-.0000000058	-.0000000089	-.0000000343	0.0000000001	-.0000000007
PCB_38	0.0000000271	0.0000000007	0.0000000484	-.0000000003	0.0000000035
PCB_35	0.0000000017	-.0000000405	-.0000001339	0.0000000004	0.0000000029
PCB_37	0.0000002505	-.0000002152	-.0000010351	-.0000000001	0.0000001032
PCB_54	-.0000000205	0.0000006818	0.0000024349	-.0000000064	-.0000000615
PCB_50_53	0.0000001785	0.0000112911	0.0000503729	-.0000001166	-.0000016662
PCB_45_51	-.0000009468	0.0000046930	0.0000169961	-.0000000369	-.0000006744
PCB_46	0.0000002437	0.0000005913	0.0000031668	-.0000000086	-.0000000643
PCB_52	0.0000017395	0.0000141950	0.0000618131	-.0000001658	-.0000017792
PCB_73	0.0000001654	0.0000000277	-.0000005064	-.0000000013	0.0000000926
PCB_43	-.0000000585	0.0000000874	0.0000003409	-.0000000004	-.0000000277
PCB_49_69	0.0000058427	0.0000131488	0.0000608218	-.0000001942	-.0000007669
PCB_48	-.0000002085	-.0000006393	-.0000024505	0.0000000082	0.0000000107
PCB_44_47_65	-.0000031420	0.0000168604	0.0000622434	-.0000001374	-.0000024976
PCB_59_62_75	0.0000015373	-.0000006071	0.0000023125	-.0000000117	0.0000000987

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25
PCB_1	0.0000002005	0.0000000052	-.0000000002	-.0000000556	0.0000000799
PCB_2	-.0000000005	-.0000000000	-.0000000000	-.0000000016	-.0000000005
PCB_3	0.0000000146	0.0000000004	-.0000000000	-.0000000205	0.0000000016
PCB_4	0.0000074238	0.0000002099	-.0000000108	-.0000037697	0.0000026849
PCB_10	0.0000003296	0.0000000092	-.0000000004	-.0000001316	0.0000001262
PCB_9	0.0000000198	0.0000000005	0.0000000000	0.0000000004	0.0000000039
PCB_7	0.0000000205	0.0000000006	-.0000000000	-.0000000138	0.0000000040
PCB_6	0.0000002260	0.0000000060	0.0000000000	0.0000000035	0.0000000757
PCB_5	0.0000000064	0.0000000002	0.0000000000	0.0000000001	0.0000000007
PCB_8	0.0000004201	0.0000000112	0.0000000002	-.0000001499	0.0000000704
PCB_12_13	0.0000003456	0.0000000099	-.0000000005	-.0000001819	0.0000001261
PCB_15	0.0000004223	0.0000000122	-.0000000003	-.0000001895	0.0000001202
PCB_19	0.0000035020	0.0000000986	-.0000000048	-.0000011662	0.0000014260
PCB_18_30	0.0000003158	0.0000000071	0.0000000016	0.0000014320	0.0000003600
PCB_17	0.0000024959	0.0000000699	-.0000000028	0.0000000535	0.0000012236
PCB_27	0.0000084747	0.0000002278	-.0000000101	0.0000036016	0.0000053259
PCB_24	-.0000000262	-.0000000007	0.0000000000	-.0000000173	-.0000000160
PCB_16	-.0000000721	-.0000000024	0.0000000007	0.0000000669	-.0000000901
PCB_32	0.0000012003	0.0000000321	-.0000000008	0.0000006236	0.0000007146
PCB_34	0.0000000321	0.0000000009	-.0000000000	0.0000000152	0.0000000189
PCB_23	-.0000000008	-.0000000000	0.0000000000	0.0000000006	-.0000000004
PCB_26_29	0.0000006236	0.0000000152	0.0000000006	0.0000028634	0.0000010687
PCB_25	0.0000007146	0.0000000189	-.0000000004	0.0000010687	0.0000006393
PCB_31	0.0000000906	0.0000000018	0.0000000011	0.0000008047	0.0000001543
PCB_20_28	0.0000002704	0.0000000082	0.0000000012	0.0000005450	0.0000001144
PCB_21_33	-.0000001613	-.0000000047	0.0000000004	0.0000000297	-.0000001009
PCB_22	-.0000002951	-.0000000087	0.0000000006	0.0000000698	-.0000001613
PCB_39	-.0000000058	-.0000000002	0.0000000000	-.0000000077	-.0000000045
PCB_38	0.0000000108	0.0000000002	0.0000000000	0.0000000423	0.0000000157
PCB_35	-.0000000173	-.0000000005	0.0000000000	-.0000000041	-.0000000095
PCB_37	-.0000000492	-.0000000011	0.0000000003	0.0000000425	-.0000000384
PCB_54	0.0000003047	0.0000000083	-.0000000003	0.0000001572	0.0000001939
PCB_50_53	0.0000058786	0.0000001501	-.0000000058	0.0000073503	0.0000051027
PCB_45_51	0.0000018842	0.0000000527	-.0000000026	0.0000006272	0.0000011872
PCB_46	0.0000004091	0.0000000098	-.0000000002	0.0000007918	0.0000004197
PCB_52	0.0000075801	0.0000002061	-.0000000061	0.0000108807	0.0000068987
PCB_73	0.0000000181	0.0000000008	0.0000000002	-.0000001392	-.0000000586
PCB_43	0.0000000243	0.0000000008	-.0000000001	0.0000000013	0.0000000191
PCB_49_69	0.0000084373	0.0000002216	-.0000000033	0.0000148517	0.0000081015
PCB_48	-.0000003590	-.0000000095	0.0000000002	-.0000004055	-.0000002734
PCB_44_47_65	0.0000068918	0.0000001942	-.0000000094	0.0000032385	0.0000046254
PCB_59_62_75	0.0000004441	0.0000000073	0.0000000008	0.0000030698	0.0000010365

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_31	PCB_20_28	PCB_21_33	PCB_22	PCB_39
PCB_1	-.0000000587	-.0000000286	-.0000000408	-.0000000710	-.0000000006
PCB_2	-.0000000012	-.0000000014	-.0000000002	-.0000000003	0.0000000000
PCB_3	-.0000000104	-.0000000059	-.0000000042	-.0000000073	-.0000000000
PCB_4	-.0000033930	-.0000018663	-.0000019266	-.0000032742	-.0000000179
PCB_10	-.0000001271	-.0000000598	-.0000000793	-.0000001361	-.0000000009
PCB_9	0.0000000240	0.0000000413	0.0000000052	0.0000000049	-.0000000001
PCB_7	0.0000000015	0.0000000118	-.0000000015	-.0000000042	-.0000000001
PCB_6	0.0000001176	0.0000002322	0.0000000091	-.0000000080	-.0000000012
PCB_5	0.0000000103	0.0000000168	0.0000000026	0.0000000028	-.0000000000
PCB_8	0.0000003081	0.0000006148	0.0000000537	0.0000000274	-.0000000022
PCB_12_13	-.0000001717	-.0000001008	-.0000000948	-.0000001597	-.0000000008
PCB_15	0.0000000155	0.0000002144	-.0000000456	-.0000001048	-.0000000015
PCB_19	-.0000013764	-.0000007220	-.0000008676	-.0000014727	-.0000000097
PCB_18_30	0.0000012687	0.0000015720	0.0000002982	0.0000003995	-.0000000058
PCB_17	-.0000005364	-.0000000930	-.0000005216	-.0000008992	-.0000000089
PCB_27	-.0000020836	-.0000019849	-.0000019800	-.0000031870	-.0000000343
PCB_24	-.0000000065	-.0000000127	0.0000000025	0.0000000051	0.0000000001
PCB_16	0.0000003966	0.0000005525	0.0000001367	0.0000001849	-.0000000007
PCB_32	0.0000000906	0.0000002704	-.0000001613	-.0000002951	-.0000000058
PCB_34	0.0000000018	0.0000000082	-.0000000047	-.0000000087	-.0000000002
PCB_23	0.0000000011	0.0000000012	0.0000000004	0.0000000006	0.0000000000
PCB_26_29	0.0000008047	0.0000005450	0.0000000297	0.0000000698	-.0000000077
PCB_25	0.0000001543	0.0000001144	-.0000001009	-.0000001613	-.0000000045
PCB_31	0.0000007662	0.0000009470	0.0000001951	0.0000002670	-.0000000030
PCB_20_28	0.0000009470	0.0000013956	0.0000002333	0.0000002863	-.0000000037
PCB_21_33	0.0000001951	0.0000002333	0.0000000853	0.0000001259	0.0000000002
PCB_22	0.0000002670	0.0000002863	0.0000001259	0.0000001922	0.0000000005
PCB_39	-.0000000030	-.0000000037	0.0000000002	0.0000000005	0.0000000000
PCB_38	0.0000000153	0.0000000126	0.0000000015	0.0000000024	-.0000000001
PCB_35	0.0000000024	-.0000000001	0.0000000034	0.0000000058	0.0000000001
PCB_37	0.0000001591	0.0000002252	0.0000000540	0.0000000738	-.0000000002
PCB_54	-.0000000383	-.0000000189	-.0000000618	-.0000001023	-.0000000013
PCB_50_53	-.0000004600	-.0000014830	-.0000012708	-.0000019110	-.0000000320
PCB_45_51	-.0000007347	-.0000007369	-.0000005322	-.0000008391	-.0000000067
PCB_46	0.0000001060	0.0000000094	-.0000000554	-.0000000804	-.0000000029
PCB_52	0.0000003816	-.0000003810	-.0000014886	-.0000022804	-.0000000445
PCB_73	0.0000001027	0.0000002101	0.0000000364	0.0000000398	-.0000000001
PCB_43	-.0000000374	-.0000000453	-.0000000164	-.0000000238	-.0000000000
PCB_49_69	0.0000027798	0.0000021401	-.0000009953	-.0000015835	-.0000000582
PCB_48	-.0000000955	-.0000001219	0.0000000377	0.0000000683	0.0000000022
PCB_44_47_65	-.0000024894	-.0000026032	-.0000019456	-.0000030463	-.0000000261
PCB_59_62_75	0.0000008699	0.0000004363	0.0000000838	0.0000001726	-.0000000075

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_38	PCB_35	PCB_37	PCB_54	PCB_50_53
PCB_1	-.0000000005	-.0000000032	-.0000000212	0.0000000532	0.0000008508
PCB_2	-.0000000000	0.0000000000	-.0000000002	-.0000000000	-.0000000019
PCB_3	-.0000000003	-.0000000003	-.0000000022	0.0000000041	0.0000000367
PCB_4	-.0000000584	-.0000001305	-.0000009160	0.0000020994	0.0000295684
PCB_10	-.0000000020	-.0000000056	-.0000000367	0.0000000915	0.0000013277
PCB_9	0.0000000002	-.0000000002	0.0000000057	0.0000000021	-.0000000237
PCB_7	-.0000000001	-.0000000003	0.0000000005	0.0000000044	0.0000000286
PCB_6	0.0000000013	-.0000000028	0.0000000229	0.0000000417	0.0000003768
PCB_5	0.0000000001	-.0000000000	0.0000000025	0.0000000004	-.0000000168
PCB_8	0.0000000011	-.0000000050	0.0000000751	0.0000000622	-.0000001310
PCB_12_13	-.0000000030	-.0000000062	-.0000000450	0.0000000995	0.0000013962
PCB_15	-.0000000019	-.0000000066	0.0000000047	0.0000000976	0.0000008542
PCB_19	-.0000000184	-.0000000602	-.0000004050	0.0000009852	0.0000148200
PCB_18_30	0.0000000271	0.0000000017	0.0000002505	-.0000000205	0.0000001785
PCB_17	0.0000000007	-.0000000405	-.0000002152	0.0000006818	0.0000112911
PCB_27	0.0000000484	-.0000001339	-.0000010351	0.0000024349	0.0000503729
PCB_24	-.0000000003	0.0000000004	-.0000000001	-.0000000064	-.0000001166
PCB_16	0.0000000035	0.0000000029	0.0000001032	-.0000000615	-.0000016662
PCB_32	0.0000000108	-.0000000173	-.0000000492	0.0000003047	0.0000058786
PCB_34	0.0000000002	-.0000000005	-.0000000011	0.0000000083	0.0000001501
PCB_23	0.0000000000	0.0000000000	0.0000000003	-.0000000003	-.0000000058
PCB_26_29	0.0000000423	-.0000000041	0.0000000425	0.0000001572	0.0000073503
PCB_25	0.0000000157	-.0000000095	-.0000000384	0.0000001939	0.0000051027
PCB_31	0.0000000153	0.0000000024	0.0000001591	-.0000000383	-.0000004600
PCB_20_28	0.0000000126	-.0000000001	0.0000002252	-.0000000189	-.0000014830
PCB_21_33	0.0000000015	0.0000000034	0.0000000540	-.0000000618	-.0000012708
PCB_22	0.0000000024	0.0000000058	0.0000000738	-.0000001023	-.0000019110
PCB_39	-.0000000001	0.0000000001	-.0000000002	-.0000000013	-.0000000320
PCB_38	0.0000000007	-.0000000001	0.0000000013	0.0000000022	0.0000001039
PCB_35	-.0000000001	0.0000000003	0.0000000014	-.0000000047	-.0000000839
PCB_37	0.0000000013	0.0000000014	0.0000000439	-.0000000279	-.0000007464
PCB_54	0.0000000022	-.0000000047	-.0000000279	0.0000000848	0.0000017232
PCB_50_53	0.0000001039	-.0000000839	-.0000007464	0.0000017232	0.0000456945
PCB_45_51	0.0000000056	-.0000000317	-.0000002811	0.0000005724	0.0000115760
PCB_46	0.0000000119	-.0000000049	-.0000000327	0.0000001123	0.0000034823
PCB_52	0.0000001493	-.0000001076	-.0000006858	0.0000022006	0.0000573332
PCB_73	-.0000000012	-.0000000000	0.0000000360	-.0000000111	-.0000007942
PCB_43	-.0000000003	-.0000000006	-.0000000099	0.0000000107	0.0000002284
PCB_49_69	0.0000002195	-.0000001060	-.0000003172	0.0000022545	0.0000628571
PCB_48	-.0000000064	0.0000000047	0.0000000077	-.0000000908	-.0000021105
PCB_44_47_65	0.0000000324	-.0000001150	-.0000010119	0.0000021092	0.0000440356
PCB_59_62_75	0.0000000468	-.0000000001	0.0000000356	0.0000001036	0.0000073814

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_46	PCB_52	PCB_73	PCB_43
PCB_1	0.0000003645	0.0000000413	0.0000009030	0.0000000036	0.0000000057
PCB_2	0.0000000005	-.0000000004	-.0000000038	-.0000000001	0.0000000000
PCB_3	0.0000000313	-.0000000009	0.0000000284	0.0000000010	0.0000000006
PCB_4	0.0000153864	0.0000009871	0.0000340536	0.0000001380	0.0000003176
PCB_10	0.0000006571	0.0000000507	0.0000015459	0.0000000072	0.0000000129
PCB_9	-.0000000045	-.0000000001	-.0000000106	0.0000000078	-.0000000013
PCB_7	0.0000000253	-.0000000000	0.0000000327	0.0000000037	0.0000000001
PCB_6	0.0000001714	0.0000000284	0.0000005289	0.0000000461	-.0000000043
PCB_5	-.0000000056	-.0000000003	-.0000000158	0.0000000032	-.0000000006
PCB_8	0.0000001456	-.0000000090	-.0000000128	0.0000001325	-.0000000163
PCB_12_13	0.0000007399	0.0000000441	0.0000016387	0.0000000045	0.0000000161
PCB_15	0.0000005956	0.0000000184	0.0000012066	0.0000000636	0.0000000057
PCB_19	0.0000071111	0.0000005986	0.0000175530	0.0000000403	0.0000001441
PCB_18_30	-.0000009468	0.0000002437	0.0000017395	0.0000001654	-.0000000585
PCB_17	0.0000046930	0.0000005913	0.0000141950	0.0000000277	0.0000000874
PCB_27	0.0000169961	0.0000031668	0.0000618131	-.0000005064	0.0000003409
PCB_24	-.0000000369	-.0000000086	-.0000001658	-.0000000013	-.0000000004
PCB_16	-.0000006744	-.0000000643	-.0000017792	0.0000000926	-.0000000277
PCB_32	0.0000018842	0.0000004091	0.0000075801	0.0000000181	0.0000000243
PCB_34	0.0000000527	0.0000000098	0.0000002061	0.0000000008	0.0000000008
PCB_23	-.0000000026	-.0000000002	-.0000000061	0.0000000002	-.0000000001
PCB_26_29	0.0000006272	0.0000007918	0.0000108807	-.0000001392	0.0000000013
PCB_25	0.0000011872	0.0000004197	0.0000068987	-.0000000586	0.0000000191
PCB_31	-.0000007347	0.0000001060	0.0000003816	0.0000001027	-.0000000374
PCB_20_28	-.0000007369	0.0000000094	-.0000003810	0.0000002101	-.0000000453
PCB_21_33	-.0000005322	-.0000000554	-.0000014886	0.0000000364	-.0000000164
PCB_22	-.0000008391	-.0000000804	-.0000022804	0.0000000398	-.0000000238
PCB_39	-.0000000067	-.0000000029	-.0000000445	-.0000000001	-.0000000000
PCB_38	0.0000000056	0.0000000119	0.0000001493	-.0000000012	-.0000000003
PCB_35	-.0000000317	-.0000000049	-.0000001076	-.0000000000	-.0000000006
PCB_37	-.0000002811	-.0000000327	-.0000006858	0.0000000360	-.0000000099
PCB_54	0.0000005724	0.0000001123	0.0000022006	-.0000000111	0.0000000107
PCB_50_53	0.0000115760	0.0000034823	0.0000573332	-.0000007942	0.0000002284
PCB_45_51	0.0000041955	0.0000006713	0.0000144732	-.0000001509	0.0000000976
PCB_46	0.0000006713	0.0000003037	0.0000044643	-.0000000594	0.0000000096
PCB_52	0.0000144732	0.0000044643	0.0000773984	-.0000008697	0.0000002964
PCB_73	-.0000001509	-.0000000594	-.0000008697	0.0000000505	-.0000000078
PCB_43	0.0000000976	0.0000000096	0.0000002964	-.0000000078	0.0000000034
PCB_49_69	0.0000132762	0.0000054149	0.0000862870	-.0000007438	0.0000001954
PCB_48	-.0000005304	-.0000001709	-.0000028590	0.0000000063	-.0000000062
PCB_44_47_65	0.0000154169	0.0000026504	0.0000561697	-.0000006177	0.0000003650
PCB_59_62_75	0.0000002027	0.0000008531	0.0000101853	-.0000001804	-.0000000126

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_48	PCB_44_47_65	PCB_59_62_75	PCB_42
PCB_1	0.0000007902	-.0000000458	0.0000012663	-.0000000871	0.0000000432
PCB_2	-.0000000079	0.0000000003	0.0000000013	-.0000000017	0.0000000008
PCB_3	-.0000000076	-.0000000019	0.0000001044	-.0000000259	0.0000000012
PCB_4	0.0000240452	-.0000015586	0.0000539841	-.0000061499	0.0000023875
PCB_10	0.0000011888	-.0000000723	0.0000023100	-.0000002294	0.0000000932
PCB_9	0.0000000515	-.0000000052	-.0000000245	-.0000000040	-.0000000404
PCB_7	0.0000000301	-.0000000041	0.0000000826	-.0000000203	-.0000000137
PCB_6	0.0000008679	-.0000000584	0.0000005581	-.0000000391	-.0000002048
PCB_5	0.0000000116	-.0000000017	-.0000000239	-.0000000006	-.0000000173
PCB_8	0.0000007201	-.0000000960	0.0000003285	-.0000002547	-.0000006416
PCB_12_13	0.0000011195	-.0000000721	0.0000026056	-.0000003026	0.0000001293
PCB_15	0.0000011138	-.0000000923	0.0000020422	-.0000003502	-.0000001882
PCB_19	0.0000137873	-.0000007882	0.0000251464	-.0000022141	0.0000012028
PCB_18_30	0.0000058427	-.0000002085	-.0000031420	0.0000015373	-.0000010640
PCB_17	0.0000131488	-.0000006393	0.0000168604	-.0000006071	0.0000007702
PCB_27	0.0000608218	-.0000024505	0.0000622434	0.0000023125	0.0000055201
PCB_24	-.0000001942	0.0000000082	-.0000001374	-.0000000117	-.0000000004
PCB_16	-.0000007669	0.0000000107	-.0000024976	0.0000000987	-.0000005992
PCB_32	0.0000084373	-.0000003590	0.0000068918	0.0000004441	0.0000002305
PCB_34	0.0000002216	-.0000000095	0.0000001942	0.0000000073	0.0000000062
PCB_23	-.0000000033	0.0000000002	-.0000000094	0.0000000008	-.0000000013
PCB_26_29	0.0000148517	-.0000004055	0.0000032385	0.0000030698	0.0000007211
PCB_25	0.0000081015	-.0000002734	0.0000046254	0.0000010365	0.0000004798
PCB_31	0.0000027798	-.0000000955	-.0000024894	0.0000008699	-.0000006797
PCB_20_28	0.0000021401	-.0000001219	-.0000026032	0.0000004363	-.0000011744
PCB_21_33	-.0000009953	0.0000000377	-.0000019456	0.0000000838	-.0000002896
PCB_22	-.0000015835	0.0000000683	-.0000030463	0.0000001726	-.0000003707
PCB_39	-.0000000582	0.0000000022	-.0000000261	-.0000000075	-.0000000003
PCB_38	0.0000002195	-.0000000064	0.0000000324	0.0000000468	0.0000000049
PCB_35	-.0000001060	0.0000000047	-.0000001150	-.0000000001	-.0000000060
PCB_37	-.0000003172	0.0000000077	-.0000010119	0.0000000356	-.0000002270
PCB_54	0.0000022545	-.0000000908	0.0000021092	0.0000001036	0.0000001587
PCB_50_53	0.0000628571	-.0000021105	0.0000440356	0.0000073814	0.0000057293
PCB_45_51	0.0000132762	-.0000005304	0.0000154169	0.0000002027	0.0000015503
PCB_46	0.0000054149	-.0000001709	0.0000026504	0.0000008531	0.0000003749
PCB_52	0.0000862870	-.0000028590	0.0000561697	0.0000101853	0.0000068281
PCB_73	-.0000007438	0.0000000063	-.0000006177	-.0000001804	-.0000002708
PCB_43	0.0000001954	-.0000000062	0.0000003650	-.0000000126	0.0000000611
PCB_49_69	0.0001043170	-.0000034220	0.0000526770	0.0000147431	0.0000057129
PCB_48	-.0000034220	0.0000001263	-.0000020230	-.0000003748	-.0000001158
PCB_44_47_65	0.0000526770	-.0000020230	0.0000571045	0.0000016681	0.0000060355
PCB_59_62_75	0.0000147431	-.0000003748	0.0000016681	0.0000035288	0.0000007704

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_40_41_71	PCB_64	PCB_72	PCB_68	PCB_57
PCB_1	0.0000001458	-.0000001142	0.0000000145	0.0000000499	-.0000000097
PCB_2	0.0000000005	-.0000000010	-.0000000006	-.0000000003	-.0000000003
PCB_3	0.0000000132	-.0000000168	-.0000000045	0.0000000016	-.0000000039
PCB_4	0.0000069320	-.0000056587	-.0000000386	0.0000017841	-.0000007756
PCB_10	0.0000002906	-.0000002263	0.0000000097	0.0000000823	-.0000000273
PCB_9	-.0000000137	0.0000000081	0.0000000011	0.0000000025	0.0000000004
PCB_7	0.0000000064	-.0000000098	-.0000000022	0.0000000030	-.0000000025
PCB_6	0.0000000017	-.0000000015	0.0000000253	0.0000000468	0.0000000027
PCB_5	-.0000000076	0.0000000043	0.0000000002	0.0000000004	0.0000000002
PCB_8	-.0000001303	0.0000000080	-.0000000177	0.0000000493	-.0000000220
PCB_12_13	0.0000003419	-.0000002755	-.0000000035	0.0000000844	-.0000000383
PCB_15	0.0000002037	-.0000001936	-.0000000109	0.0000000830	-.0000000387
PCB_19	0.0000032082	-.0000023656	0.0000001881	0.0000009213	-.0000002527
PCB_18_30	-.0000007443	0.0000010602	0.0000004698	0.0000001814	0.0000002767
PCB_17	0.0000020870	-.0000011779	0.0000004217	0.0000007591	-.0000000165
PCB_27	0.0000079347	-.0000031138	0.0000027294	0.0000031605	0.0000005992
PCB_24	-.0000000145	0.0000000005	-.0000000096	-.0000000095	-.0000000030
PCB_16	-.0000004435	0.0000002870	-.0000000172	-.0000000567	0.0000000196
PCB_32	0.0000007596	-.0000001763	0.0000003970	0.0000004215	0.0000001107
PCB_34	0.0000000227	-.0000000061	0.0000000100	0.0000000114	0.0000000024
PCB_23	-.0000000014	0.0000000011	-.0000000000	-.0000000003	0.0000000001
PCB_26_29	0.0000003272	0.0000010607	0.0000010755	0.0000005717	0.0000005232
PCB_25	0.0000005523	0.0000001438	0.0000004833	0.0000003616	0.0000001913
PCB_31	-.0000005139	0.0000006547	0.0000002465	0.0000000732	0.0000001554
PCB_20_28	-.0000005989	0.0000006122	0.0000001587	0.0000000633	0.0000001024
PCB_21_33	-.0000002990	0.0000001850	-.0000000275	-.0000000634	0.0000000104
PCB_22	-.0000004498	0.0000002879	-.0000000374	-.0000001025	0.0000000204
PCB_39	-.0000000023	-.0000000020	-.0000000035	-.0000000025	-.0000000014
PCB_38	0.0000000009	0.0000000176	0.0000000159	0.0000000083	0.0000000079
PCB_35	-.0000000141	0.0000000063	-.0000000042	-.0000000057	-.0000000006
PCB_37	-.0000001659	0.0000001205	-.0000000053	-.0000000232	0.0000000084
PCB_54	0.0000002627	-.0000000843	0.0000001049	0.0000001150	0.0000000262
PCB_50_53	0.0000055998	-.0000001650	0.0000036068	0.0000028916	0.0000013294
PCB_45_51	0.0000020854	-.0000009310	0.0000005595	0.0000007155	0.0000000870
PCB_46	0.0000003060	0.0000001546	0.0000003438	0.0000002313	0.0000001472
PCB_52	0.0000072639	0.0000005693	0.0000050460	0.0000039345	0.0000018993
PCB_73	-.0000001219	0.0000000146	-.0000000574	-.0000000302	-.0000000250
PCB_43	0.0000000599	-.0000000326	0.0000000066	0.0000000121	-.0000000013
PCB_49_69	0.0000061493	0.0000028925	0.0000064482	0.0000045433	0.0000026738
PCB_48	-.0000002203	-.0000000479	-.0000001933	-.0000001564	-.0000000731
PCB_44_47_65	0.0000077858	-.0000030560	0.0000023707	0.0000027698	0.0000004783
PCB_59_62_75	0.0000000766	0.0000012577	0.0000011282	0.0000005350	0.0000005786

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_67	PCB_63	PCB_61_70_74_76	PCB_66
PCB_1	-.0000000025	-.0000000184	0.0000000099	0.0000003707	0.0000003541
PCB_2	-.0000000000	-.0000000002	-.0000000001	-.0000000001	-.0000000008
PCB_3	-.0000000007	-.0000000037	0.0000000001	0.0000000395	0.0000000290
PCB_4	-.0000001458	-.0000009483	0.0000003486	0.0000167452	0.0000150093
PCB_10	-.0000000055	-.0000000367	0.0000000169	0.0000007170	0.0000006564
PCB_9	-.0000000005	-.0000000001	0.0000000016	0.0000000460	0.0000000350
PCB_7	-.0000000007	-.0000000027	0.0000000009	0.0000000510	0.0000000395
PCB_6	-.0000000033	-.0000000061	0.0000000164	0.0000004593	0.0000004026
PCB_5	-.0000000002	0.0000000001	0.0000000005	0.0000000142	0.0000000099
PCB_8	-.0000000134	-.0000000282	0.0000000257	0.0000010100	0.0000007564
PCB_12_13	-.0000000069	-.0000000455	0.0000000164	0.0000007993	0.0000007158
PCB_15	-.0000000107	-.0000000438	0.0000000245	0.0000010603	0.0000008788
PCB_19	-.0000000491	-.0000003616	0.0000001903	0.0000075210	0.0000070308
PCB_18_30	0.0000000323	0.0000002115	0.0000000896	-.0000000370	0.0000004028
PCB_17	-.0000000086	-.0000001297	0.0000001756	0.0000048986	0.0000049641
PCB_27	0.0000001072	-.0000000087	0.0000006943	0.0000128992	0.0000158324
PCB_24	-.0000000004	-.0000000012	-.0000000027	-.0000000445	-.0000000513
PCB_16	-.0000000030	0.0000000256	0.0000000010	-.0000000816	-.0000001936
PCB_32	0.0000000135	0.0000000264	0.0000001071	0.0000018876	0.0000022154
PCB_34	0.0000000003	0.0000000005	0.0000000030	0.0000000576	0.0000000643
PCB_23	0.0000000000	0.0000000001	-.0000000000	-.0000000016	-.0000000017
PCB_26_29	0.0000000911	0.0000003637	0.0000001621	-.0000006183	0.0000009830
PCB_25	0.0000000327	0.0000001081	0.0000000924	0.0000006674	0.0000012971
PCB_31	0.0000000179	0.0000001247	0.0000000457	-.0000001449	0.0000000791
PCB_20_28	0.0000000034	0.0000000885	0.0000000558	0.0000006711	0.0000005839
PCB_21_33	-.0000000006	0.0000000182	-.0000000089	-.0000003063	-.0000003514
PCB_22	0.0000000009	0.0000000322	-.0000000167	-.0000006041	-.0000006375
PCB_39	-.0000000002	-.0000000008	-.0000000007	-.0000000063	-.0000000101
PCB_38	0.0000000013	0.0000000054	0.0000000024	-.0000000088	0.0000000141
PCB_35	-.0000000001	0.0000000004	-.0000000014	-.0000000314	-.0000000339
PCB_37	-.0000000006	0.0000000130	0.0000000012	-.0000000282	-.0000000728
PCB_54	0.0000000043	0.0000000044	0.0000000270	0.0000004779	0.0000005824
PCB_50_53	0.0000002443	0.0000006496	0.0000006595	0.0000049921	0.0000101127
PCB_45_51	0.0000000207	-.0000000344	0.0000001519	0.0000031600	0.0000037534
PCB_46	0.0000000256	0.0000000859	0.0000000566	0.0000001321	0.0000006353
PCB_52	0.0000003474	0.0000010428	0.0000009681	0.0000076578	0.0000144139
PCB_73	-.0000000071	-.0000000152	-.0000000020	0.0000002125	0.0000000634
PCB_43	0.0000000004	-.0000000023	0.0000000019	0.0000000534	0.0000000646
PCB_49_69	0.0000004560	0.0000015941	0.0000011871	0.0000065463	0.0000151220
PCB_48	-.0000000112	-.0000000382	-.0000000414	-.0000004338	-.0000006526
PCB_44_47_65	0.0000001076	0.0000000005	0.0000006022	0.0000112141	0.0000138939
PCB_59_62_75	0.0000001004	0.0000004022	0.0000001472	-.0000015005	0.0000003106

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_56	PCB_60	PCB_79	PCB_81	PCB_77
PCB_1	-.0000001202	-.0000000420	0.0000000113	-.0000000019	-.0000000497
PCB_2	0.0000000003	0.0000000001	0.0000000001	0.0000000000	0.0000000000
PCB_3	-.0000000087	-.0000000025	0.0000000017	-.0000000001	-.0000000041
PCB_4	-.0000047178	-.0000015607	0.0000005851	-.0000000698	-.0000019492
PCB_10	-.0000002081	-.0000000689	0.0000000230	-.0000000032	-.0000000848
PCB_9	-.0000000095	-.0000000000	-.0000000021	-.0000000002	-.0000000033
PCB_7	-.0000000116	-.0000000024	0.0000000005	-.0000000002	-.0000000048
PCB_6	-.0000001233	-.0000000244	-.0000000074	-.0000000023	-.0000000458
PCB_5	-.0000000027	0.0000000004	-.0000000010	-.0000000001	-.0000000009
PCB_8	-.0000002125	-.0000000176	-.0000000216	-.0000000037	-.0000000818
PCB_12_13	-.0000002228	-.0000000739	0.0000000289	-.0000000033	-.0000000918
PCB_15	-.0000002543	-.0000000580	0.0000000112	-.0000000040	-.0000001001
PCB_19	-.0000022356	-.0000007556	0.0000002456	-.0000000346	-.0000009022
PCB_18_30	-.0000001366	0.0000000107	-.0000001436	-.0000000066	0.0000000076
PCB_17	-.0000016003	-.0000005473	0.0000001185	-.0000000270	-.0000006122
PCB_27	-.0000055267	-.0000022161	0.0000003847	-.0000001008	-.0000020493
PCB_24	0.0000000166	0.0000000053	0.0000000002	0.0000000003	0.0000000056
PCB_16	0.0000000837	0.0000000683	-.0000000451	0.0000000009	0.0000000392
PCB_32	-.0000007508	-.0000002642	0.0000000121	-.0000000143	-.0000002686
PCB_34	-.0000000208	-.0000000069	0.0000000005	-.0000000004	-.0000000073
PCB_23	0.0000000006	0.0000000003	-.0000000001	0.0000000000	0.0000000003
PCB_26_29	-.0000004529	-.0000002438	-.0000001014	-.0000000144	-.0000000778
PCB_25	-.0000004774	-.0000002029	-.0000000107	-.0000000106	-.0000001491
PCB_31	-.0000000215	0.0000000307	-.0000000882	-.0000000028	0.0000000270
PCB_20_28	-.0000001208	0.0000000512	-.0000000987	-.0000000040	-.0000000100
PCB_21_33	0.0000001202	0.0000000569	-.0000000254	0.0000000018	0.0000000488
PCB_22	0.0000002101	0.0000000889	-.0000000369	0.0000000032	0.0000000846
PCB_39	0.0000000036	0.0000000013	0.0000000003	0.0000000001	0.0000000011
PCB_38	-.0000000069	-.0000000034	-.0000000019	-.0000000002	-.0000000013
PCB_35	0.0000000111	0.0000000039	-.0000000006	0.0000000002	0.0000000041
PCB_37	0.0000000390	0.0000000306	-.0000000183	0.0000000005	0.0000000198
PCB_54	-.0000001989	-.0000000762	0.0000000098	-.0000000037	-.0000000718
PCB_50_53	-.0000039209	-.0000018229	0.0000001042	-.0000000828	-.0000013184
PCB_45_51	-.0000012749	-.0000005157	0.0000001186	-.0000000224	-.0000004753
PCB_46	-.0000002680	-.0000001310	-.0000000109	-.0000000064	-.0000000812
PCB_52	-.0000052402	-.0000022961	0.0000000318	-.0000001123	-.0000016622
PCB_73	0.0000000029	0.0000000253	-.0000000088	0.0000000003	-.0000000003
PCB_43	-.0000000208	-.0000000101	0.0000000047	-.0000000003	-.0000000079
PCB_49_69	-.0000056590	-.0000024445	-.0000002521	-.0000001305	-.0000016894
PCB_48	0.0000002303	0.0000000876	0.0000000059	0.0000000049	0.0000000749
PCB_44_47_65	-.0000047251	-.0000019348	0.0000004052	-.0000000848	-.0000017241
PCB_59_62_75	-.0000003051	-.0000002244	-.0000001183	-.0000000127	-.0000000253

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_104	PCB_96	PCB_103	PCB_94	PCB_95
PCB_1	0.0000000039	0.0000000025	0.0000000112	0.0000000402	-.0000001691
PCB_2	-.0000000000	-.0000000000	-.0000000002	-.0000000000	0.0000000062
PCB_3	0.0000000003	-.0000000003	-.0000000009	0.0000000033	-.0000000199
PCB_4	0.0000001607	0.0000000562	0.0000002970	0.0000016847	-.0000046401
PCB_10	0.0000000070	0.0000000031	0.0000000162	0.0000000726	-.0000002793
PCB_9	0.0000000002	-.0000000010	0.0000000000	0.0000000011	-.0000002731
PCB_7	0.0000000003	-.0000000005	-.0000000003	0.0000000034	-.0000001217
PCB_6	0.0000000032	-.0000000032	0.0000000099	0.0000000283	-.0000016708
PCB_5	0.0000000000	-.0000000004	-.0000000002	0.0000000000	-.0000001091
PCB_8	0.0000000049	-.0000000182	-.0000000069	0.0000000403	-.0000045042
PCB_12_13	0.0000000077	0.0000000029	0.0000000141	0.0000000807	-.0000001442
PCB_15	0.0000000078	-.0000000063	0.0000000077	0.0000000766	-.0000021616
PCB_19	0.0000000753	0.0000000457	0.0000002041	0.0000007834	-.0000020186
PCB_18_30	-.0000000014	0.0000000113	0.0000001270	-.0000000488	-.0000072552
PCB_17	0.0000000522	0.0000000540	0.0000002310	0.0000005311	-.0000023607
PCB_27	0.0000001813	0.0000003719	0.0000012242	0.0000018505	0.0000084564
PCB_24	-.0000000005	-.0000000008	-.0000000038	-.0000000047	0.0000000767
PCB_16	-.0000000046	-.0000000170	-.0000000219	-.0000000556	-.0000031333
PCB_32	0.0000000229	0.0000000390	0.0000001640	0.0000002238	-.0000019326
PCB_34	0.0000000006	0.0000000010	0.0000000043	0.0000000063	-.0000000609
PCB_23	-.0000000000	-.0000000000	-.0000000001	-.0000000003	-.0000000054
PCB_26_29	0.0000000114	0.0000001082	0.0000003618	0.0000000891	0.0000012313
PCB_25	0.0000000144	0.0000000526	0.0000001805	0.0000001382	0.0000004173
PCB_31	-.0000000027	0.0000000026	0.0000000618	-.0000000479	-.0000043588
PCB_20_28	-.0000000004	-.0000000186	0.0000000333	-.0000000295	-.0000077817
PCB_21_33	-.0000000047	-.0000000097	-.0000000209	-.0000000517	-.0000011616
PCB_22	-.0000000079	-.0000000125	-.0000000307	-.0000000848	-.0000012451
PCB_39	-.0000000001	-.0000000003	-.0000000012	-.0000000009	0.0000000153
PCB_38	0.0000000002	0.0000000015	0.0000000052	0.0000000011	-.0000000112
PCB_35	-.0000000004	-.0000000005	-.0000000020	-.0000000036	0.0000000141
PCB_37	-.0000000019	-.0000000066	-.0000000077	-.0000000231	-.0000012281
PCB_54	0.0000000064	0.0000000128	0.0000000455	0.0000000642	0.0000000363
PCB_50_53	0.0000001249	0.0000004531	0.0000013984	0.0000012463	0.0000154967
PCB_45_51	0.0000000434	0.0000000861	0.0000002697	0.0000004488	0.0000033368
PCB_46	0.0000000079	0.0000000389	0.0000001238	0.0000000752	0.0000009165
PCB_52	0.0000001657	0.0000005943	0.0000019421	0.0000016223	0.0000132030
PCB_73	-.0000000006	-.0000000120	-.0000000223	-.0000000087	-.0000015525
PCB_43	0.0000000009	0.0000000021	0.0000000045	0.0000000094	0.0000002467
PCB_49_69	0.0000001675	0.0000006844	0.0000023561	0.0000015758	0.0000042656
PCB_48	-.0000000068	-.0000000191	-.0000000728	-.0000000646	0.0000004228
PCB_44_47_65	0.0000001607	0.0000003503	0.0000010977	0.0000016536	0.0000133751
PCB_59_62_75	0.0000000059	0.0000001156	0.0000003662	0.0000000345	0.0000025070

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_93_98_100_102	PCB_88_91	PCB_84	PCB_89	PCB_121
PCB_1	0.0000000925	-.0000000328	0.0000000086	-.0000000204	0.0000000011
PCB_2	0.0000000003	-.0000000002	0.0000000008	0.0000000001	-.0000000000
PCB_3	0.0000000090	-.0000000087	0.0000000023	-.0000000012	-.0000000000
PCB_4	0.0000042198	-.0000014232	0.0000011845	-.0000007426	0.0000000322
PCB_10	0.0000001771	-.0000000563	0.0000000392	-.0000000340	0.0000000016
PCB_9	-.0000000041	-.0000000187	-.0000000252	-.0000000034	0.0000000001
PCB_7	0.0000000061	-.0000000131	-.0000000078	-.0000000024	0.0000000000
PCB_6	0.0000000251	-.0000001134	-.0000001427	-.0000000316	0.0000000014
PCB_5	-.0000000028	-.0000000077	-.0000000106	-.0000000012	0.0000000000
PCB_8	-.0000000033	-.0000003662	-.0000003882	-.0000000615	0.0000000013
PCB_12_13	0.0000002054	-.0000000607	0.0000000678	-.0000000344	0.0000000015
PCB_15	0.0000001508	-.0000001982	-.0000001168	-.0000000521	0.0000000017
PCB_19	0.0000019197	-.0000004337	0.0000005062	-.0000003634	0.0000000191
PCB_18_30	-.0000004050	0.0000000198	-.0000008648	-.0000000986	0.0000000100
PCB_17	0.0000012149	-.0000000421	0.0000001755	-.0000002839	0.0000000191
PCB_27	0.0000042849	0.0000021261	0.0000016332	-.0000009508	0.0000000878
PCB_24	-.0000000082	-.0000000023	0.0000000051	0.0000000036	-.0000000003
PCB_16	-.0000002144	-.0000002029	-.0000003448	-.0000000074	-.0000000008
PCB_32	0.0000004328	0.0000001233	-.0000000987	-.0000001515	0.0000000126
PCB_34	0.0000000127	0.0000000030	-.0000000020	-.0000000042	0.0000000003
PCB_23	-.0000000008	-.0000000002	-.0000000007	0.0000000001	-.0000000000
PCB_26_29	0.0000000164	0.0000011623	-.0000001063	-.0000001267	0.0000000231
PCB_25	0.0000002543	0.0000004454	0.0000000282	-.0000000994	0.0000000123
PCB_31	-.0000002809	-.0000000073	-.0000005212	-.0000000477	0.0000000050
PCB_20_28	-.0000002843	-.0000003103	-.0000007664	-.0000000797	0.0000000044
PCB_21_33	-.0000001555	-.0000000809	-.0000001542	0.0000000120	-.0000000013
PCB_22	-.0000002412	-.0000000802	-.0000001941	0.0000000256	-.0000000021
PCB_39	-.0000000011	-.0000000019	0.0000000017	0.0000000009	-.0000000001
PCB_38	-.0000000014	0.0000000146	-.0000000053	-.0000000021	0.0000000003
PCB_35	-.0000000080	-.0000000012	-.0000000010	0.0000000020	-.0000000002
PCB_37	-.0000000844	-.0000000662	-.0000001272	-.0000000019	-.0000000003
PCB_54	0.0000001416	0.0000000709	0.0000000333	-.0000000364	0.0000000033
PCB_50_53	0.0000026844	0.0000038466	0.0000014035	-.0000007160	0.0000000923
PCB_45_51	0.0000011086	0.0000005483	0.0000005914	-.0000002048	0.0000000191
PCB_46	0.0000001297	0.0000003518	0.0000000365	-.0000000561	0.0000000081
PCB_52	0.0000033626	0.0000052727	0.0000014042	-.0000010147	0.0000001299
PCB_73	-.0000000443	-.0000001552	-.0000001312	-.0000000063	-.0000000010
PCB_43	0.0000000296	0.0000000215	0.0000000332	-.0000000018	0.0000000003
PCB_49_69	0.0000026766	0.0000060343	0.0000000098	-.0000012271	0.0000001587
PCB_48	-.0000001109	-.0000001298	0.0000000367	0.0000000497	-.0000000052
PCB_44_47_65	0.0000040578	0.0000024780	0.0000022420	-.0000007697	0.0000000767
PCB_59_62_75	-.0000001274	0.0000012665	-.0000001188	-.0000001003	0.0000000226

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_90_101_113	PCB_83	PCB_99	PCB_86_87_97_108_119_125
PCB_1	-.0000000146	0.0000010102	-.0000000507	0.0000008086	0.0000007450
PCB_2	-.0000000009	0.0000000016	-.0000000002	-.0000000012	0.0000000031
PCB_3	-.0000000133	0.0000000994	-.0000000065	0.0000000562	0.0000000858
PCB_4	-.0000008672	0.0000457859	-.0000023099	0.0000334926	0.0000355729
PCB_10	-.0000000202	0.0000019399	-.0000000952	0.0000014646	0.0000014743
PCB_9	-.0000000160	0.0000000161	-.0000000011	0.0000000206	-.0000000179
PCB_7	-.0000000142	0.0000000912	-.0000000055	0.0000000606	0.0000000639
PCB_6	-.0000000732	0.0000006306	-.0000000295	0.0000005905	0.0000002692
PCB_5	-.0000000074	-.0000000055	-.0000000000	-.0000000013	-.0000000160
PCB_8	-.0000003631	0.0000009457	-.0000000644	0.0000007054	0.0000003190
PCB_12_13	-.0000000318	0.0000022142	-.0000001106	0.0000016090	0.0000017319
PCB_15	-.0000001601	0.0000020837	-.0000001071	0.0000015096	0.0000014383
PCB_19	0.0000000706	0.0000208253	-.0000009893	0.0000160145	0.0000157442
PCB_18_30	0.0000005939	-.0000026689	0.0000002578	-.0000000514	-.0000038582
PCB_17	0.0000006677	0.0000134504	-.0000005483	0.0000114933	0.0000094101
PCB_27	0.0000057536	0.0000436666	-.0000014280	0.0000424304	0.0000292635
PCB_24	-.0000000162	-.0000001048	0.0000000024	-.0000001140	-.0000000537
PCB_16	-.0000002301	-.0000015897	0.0000000678	-.0000011795	-.0000015332
PCB_32	0.0000006568	0.0000050296	-.0000001455	0.0000052478	0.0000028933
PCB_34	0.0000000181	0.0000001494	-.0000000044	0.0000001480	0.0000000895
PCB_23	-.0000000002	-.0000000070	0.0000000003	-.0000000051	-.0000000060
PCB_26_29	0.0000024650	-.0000000148	0.0000003201	0.0000040661	-.0000022134
PCB_25	0.0000010581	0.0000026379	0.0000000092	0.0000037733	0.0000010688
PCB_31	0.0000002970	-.0000019989	0.0000001666	-.0000004631	-.0000025512
PCB_20_28	-.0000000398	-.0000012576	0.0000001119	-.0000002353	-.0000021308
PCB_21_33	-.0000001305	-.0000013996	0.0000000583	-.0000011091	-.0000011590
PCB_22	-.0000001573	-.0000022943	0.0000000985	-.0000017981	-.0000018489
PCB_39	-.0000000062	-.0000000155	-.0000000002	-.0000000248	-.0000000031
PCB_38	0.0000000330	-.0000000114	0.0000000050	0.0000000532	-.0000000445
PCB_35	-.0000000076	-.0000000883	0.0000000032	-.0000000809	-.0000000589
PCB_37	-.0000000621	-.0000006179	0.0000000309	-.0000004631	-.0000006001
PCB_54	0.0000002153	0.0000015005	-.0000000447	0.0000015006	0.0000009554
PCB_50_53	0.0000081854	0.0000251454	-.0000002573	0.0000321490	0.0000135393
PCB_45_51	0.0000013634	0.0000110787	-.0000003793	0.0000101919	0.0000078337
PCB_46	0.0000007489	0.0000011781	0.0000000341	0.0000021828	0.0000002758
PCB_52	0.0000118382	0.0000332091	-.0000001256	0.0000433014	0.0000165179
PCB_73	-.0000002095	-.0000001270	-.0000000106	-.0000002942	-.0000001350
PCB_43	0.0000000354	0.0000002633	-.0000000095	0.0000002114	0.0000002178
PCB_49_69	0.0000141403	0.0000278977	0.0000004902	0.0000450009	0.0000083951
PCB_48	-.0000003790	-.0000012807	0.0000000093	-.0000016854	-.0000005442
PCB_44_47_65	0.0000059130	0.0000403698	-.0000012605	0.0000383308	0.0000279509
PCB_59_62_75	0.0000025153	-.0000018788	0.0000004033	0.0000029473	-.0000036594

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_117_116	PCB_110_115	PCB_82	PCB_111	PCB_120
PCB_1	0.0000001207	0.0000002911	0.0000000224	0.0000000002	-.0000000038
PCB_2	0.0000000002	0.0000000029	0.0000000006	-.0000000000	-.0000000001
PCB_3	0.0000000141	0.0000000251	0.0000000068	-.0000000004	-.0000000016
PCB_4	0.0000056812	0.0000154673	0.0000015476	-.0000000383	-.0000002981
PCB_10	0.0000002387	0.0000006234	0.0000000561	-.0000000008	-.0000000103
PCB_9	0.0000000085	-.0000001120	-.0000000026	-.0000000000	-.0000000000
PCB_7	0.0000000149	-.0000000200	0.0000000038	-.0000000003	-.0000000011
PCB_6	0.0000001095	-.0000004821	-.0000000122	0.0000000007	0.0000000003
PCB_5	0.0000000020	-.0000000502	-.0000000012	-.0000000000	-.0000000000
PCB_8	0.0000002345	-.0000016259	0.0000000085	-.0000000040	-.0000000128
PCB_12_13	0.0000002736	0.0000007923	0.0000000765	-.0000000019	-.0000000145
PCB_15	0.0000003123	-.0000001127	0.0000000600	-.0000000031	-.0000000162
PCB_19	0.0000025095	0.0000072205	0.0000005427	-.0000000018	-.0000000906
PCB_18_30	-.0000003046	-.0000038401	-.0000005222	0.0000000345	0.0000001148
PCB_17	0.0000015429	0.0000044450	0.0000001043	0.0000000212	0.0000000068
PCB_27	0.0000041038	0.0000217366	-.0000005763	0.0000001765	0.0000003183
PCB_24	-.0000000113	-.0000000148	0.0000000047	-.0000000006	-.0000000014
PCB_16	-.0000001073	-.0000019812	-.0000000671	-.0000000015	0.0000000043
PCB_32	0.0000005174	0.0000013031	-.0000001562	0.0000000254	0.0000000530
PCB_34	0.0000000162	0.0000000396	-.0000000034	0.0000000006	0.0000000012
PCB_23	-.0000000007	-.0000000049	-.0000000003	0.0000000000	0.0000000000
PCB_26_29	-.0000004114	0.0000012682	-.0000008364	0.0000000819	0.0000002352
PCB_25	0.0000001387	0.0000015054	-.0000002866	0.0000000348	0.0000000888
PCB_31	-.0000002178	-.0000024635	-.0000002996	0.0000000184	0.0000000640
PCB_20_28	-.0000000069	-.0000036097	-.0000002378	0.0000000101	0.0000000399
PCB_21_33	-.0000001308	-.0000010673	-.0000000355	-.0000000016	0.0000000019
PCB_22	-.0000002339	-.0000014634	-.0000000585	-.0000000017	0.0000000051
PCB_39	-.0000000010	-.0000000013	0.0000000023	-.0000000002	-.0000000006
PCB_38	-.0000000068	-.0000000004	-.0000000129	0.0000000012	0.0000000035
PCB_35	-.0000000096	-.0000000307	0.0000000004	-.0000000002	-.0000000004
PCB_37	-.0000000410	-.0000007419	-.0000000282	-.0000000004	0.0000000025
PCB_54	0.0000001439	0.0000006566	-.0000000311	0.0000000068	0.0000000134
PCB_50_53	0.0000013654	0.0000180979	-.0000018302	0.0000002586	0.0000006264
PCB_45_51	0.0000010621	0.0000060915	-.0000000360	0.0000000357	0.0000000549
PCB_46	-.0000000036	0.0000010071	-.0000002204	0.0000000253	0.0000000669
PCB_52	0.0000019202	0.0000220592	-.0000027346	0.0000003638	0.0000009021
PCB_73	0.0000000449	-.0000007377	0.0000000270	-.0000000048	-.0000000123
PCB_43	0.0000000236	0.0000002214	0.0000000056	0.0000000004	0.0000000001
PCB_49_69	0.0000009999	0.0000167730	-.0000040842	0.0000004688	0.0000012301
PCB_48	-.0000000977	-.0000004289	0.0000001119	-.0000000135	-.0000000337
PCB_44_47_65	0.0000037274	0.0000231163	-.0000003870	0.0000001564	0.0000002757
PCB_59_62_75	-.0000006944	0.0000009303	-.0000009239	0.0000000871	0.0000002557

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_107_124	PCB_109	PCB_123	PCB_118	PCB_122
PCB_1	0.0000000218	0.0000000862	-.0000000139	0.0000019091	-.0000000008
PCB_2	0.0000000001	-.0000000003	0.0000000001	0.0000000018	0.0000000001
PCB_3	0.0000000029	0.0000000051	-.0000000010	0.0000001789	0.0000000004
PCB_4	0.0000011574	0.0000033362	-.0000004576	0.0000804329	0.0000000513
PCB_10	0.0000000472	0.0000001495	-.0000000210	0.0000034349	0.0000000010
PCB_9	-.0000000011	0.0000000074	-.0000000030	0.0000000607	-.0000000008
PCB_7	0.0000000019	0.0000000079	-.0000000020	0.0000001742	-.0000000001
PCB_6	0.0000000042	0.0000000942	-.0000000250	0.0000013559	-.0000000061
PCB_5	-.0000000008	0.0000000020	-.0000000011	0.0000000061	-.0000000003
PCB_8	0.0000000022	0.0000001521	-.0000000551	0.0000022345	-.0000000105
PCB_12_13	0.0000000571	0.0000001579	-.0000000204	0.0000038391	0.0000000030
PCB_15	0.0000000458	0.0000001836	-.0000000375	0.0000037383	-.0000000018
PCB_19	0.0000005049	0.0000016261	-.0000002163	0.0000366112	0.0000000077
PCB_18_30	-.0000001557	0.0000002114	-.0000000708	-.0000037418	-.0000000604
PCB_17	0.0000002903	0.0000012307	-.0000001617	0.0000237121	-.0000000206
PCB_27	0.0000008429	0.0000044562	-.0000004701	0.0000779337	-.0000001379
PCB_24	-.0000000014	-.0000000141	0.0000000021	-.0000001884	0.0000000008
PCB_16	-.0000000550	-.0000000581	-.0000000169	-.0000024190	-.0000000097
PCB_32	0.0000000737	0.0000006171	-.0000000872	0.0000093104	-.0000000305
PCB_34	0.0000000026	0.0000000171	-.0000000023	0.0000002627	-.0000000007
PCB_23	-.0000000002	-.0000000004	0.0000000000	-.0000000119	-.0000000000
PCB_26_29	-.0000001101	0.0000005537	-.0000000365	0.0000001127	-.0000000798
PCB_25	0.0000000169	0.0000004416	-.0000000429	0.0000047467	-.0000000330
PCB_31	-.0000000987	0.0000000778	-.0000000359	-.0000030225	-.0000000337
PCB_20_28	-.0000000811	0.0000001427	-.0000000646	-.0000018147	-.0000000335
PCB_21_33	-.0000000394	-.0000000899	0.0000000014	-.0000022835	-.0000000032
PCB_22	-.0000000623	-.0000001563	0.0000000082	-.0000037965	-.0000000041
PCB_39	0.0000000001	-.0000000033	0.0000000005	-.0000000309	0.0000000003
PCB_38	-.0000000022	0.0000000082	-.0000000009	-.0000000061	-.0000000013
PCB_35	-.0000000018	-.0000000088	0.0000000011	-.0000001560	0.0000000002
PCB_37	-.0000000198	-.0000000246	-.0000000044	-.0000010612	-.0000000033
PCB_54	0.0000000272	0.0000001632	-.0000000183	0.0000026618	-.0000000061
PCB_50_53	0.0000002961	0.0000034854	-.0000002881	0.0000458701	-.0000002146
PCB_45_51	0.0000002426	0.0000010206	-.0000000897	0.0000190190	-.0000000186
PCB_46	-.0000000064	0.0000002577	-.0000000228	0.0000023419	-.0000000238
PCB_52	0.0000003855	0.0000048017	-.0000003833	0.0000571543	-.0000003057
PCB_73	-.0000000036	-.0000000104	-.0000000102	-.0000001545	0.0000000003
PCB_43	0.0000000078	0.0000000164	0.0000000005	0.0000003983	0.0000000007
PCB_49_69	0.0000000337	0.0000053941	-.0000005162	0.0000505728	-.0000004529
PCB_48	-.0000000094	-.0000002051	0.0000000255	-.0000023731	0.0000000146
PCB_44_47_65	0.0000008633	0.0000038578	-.0000003174	0.0000686188	-.0000000870
PCB_59_62_75	-.0000001691	0.0000004430	-.0000000254	-.0000024386	-.0000000866

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_105	PCB_127	PCB_155	PCB_152
PCB_1	0.0000000266	0.0000004953	-.0000000008	0.0000000001	0.0000000010
PCB_2	0.0000000000	0.0000000006	0.0000000000	0.0000000000	0.0000000000
PCB_3	0.0000000033	0.0000000559	-.0000000000	0.0000000000	0.0000000001
PCB_4	0.0000012418	0.0000216609	-.0000000176	0.0000000044	0.0000000493
PCB_10	0.0000000524	0.0000009175	-.0000000009	0.0000000002	0.0000000021
PCB_9	0.0000000033	0.0000000470	-.0000000002	-.0000000000	0.0000000001
PCB_7	0.0000000039	0.0000000635	-.0000000001	-.0000000000	0.0000000001
PCB_6	0.0000000320	0.0000005165	-.0000000016	-.0000000002	0.0000000011
PCB_5	0.0000000010	0.0000000144	-.0000000001	-.0000000000	0.0000000000
PCB_8	0.0000000756	0.0000011513	-.0000000032	-.0000000006	0.0000000024
PCB_12_13	0.0000000593	0.0000010280	-.0000000007	0.0000000002	0.0000000024
PCB_15	0.0000000787	0.0000012578	-.0000000018	-.0000000001	0.0000000030
PCB_19	0.0000005426	0.0000095405	-.0000000097	0.0000000020	0.0000000218
PCB_18_30	-.0000000383	-.0000008094	-.0000000080	-.0000000014	-.0000000018
PCB_17	0.0000003311	0.0000058595	-.0000000094	0.0000000011	0.0000000136
PCB_27	0.0000007596	0.0000152388	-.0000000359	0.0000000064	0.0000000342
PCB_24	-.0000000026	-.0000000443	0.0000000002	0.0000000000	-.0000000001
PCB_16	-.0000000052	-.0000002303	-.0000000014	-.0000000007	-.0000000006
PCB_32	0.0000001107	0.0000020689	-.0000000067	0.0000000003	0.0000000046
PCB_34	0.0000000035	0.0000000612	-.0000000002	0.0000000000	0.0000000002
PCB_23	-.0000000001	-.0000000025	-.0000000000	-.0000000000	-.0000000000
PCB_26_29	-.0000001246	-.0000017302	-.0000000086	0.0000000001	-.0000000035
PCB_25	0.0000000141	0.0000004661	-.0000000049	0.0000000003	0.0000000012
PCB_31	-.0000000296	-.0000006336	-.0000000042	-.0000000009	-.0000000013
PCB_20_28	0.0000000359	0.0000002361	-.0000000052	-.0000000014	0.0000000010
PCB_21_33	-.0000000207	-.0000004173	-.0000000001	-.0000000003	-.0000000010
PCB_22	-.0000000420	-.0000007892	0.0000000001	-.0000000004	-.0000000019
PCB_39	-.0000000002	-.0000000047	0.0000000000	0.0000000000	-.0000000000
PCB_38	-.0000000018	-.0000000243	-.0000000002	-.0000000000	-.0000000001
PCB_35	-.0000000020	-.0000000363	0.0000000001	-.0000000000	-.0000000001
PCB_37	-.0000000021	-.0000001192	-.0000000004	-.0000000003	-.0000000002
PCB_54	0.0000000277	0.0000005344	-.0000000014	0.0000000002	0.0000000012
PCB_50_53	0.0000001125	0.0000046687	-.0000000343	0.0000000055	0.0000000098
PCB_45_51	0.0000001931	0.0000037383	-.0000000062	0.0000000017	0.0000000089
PCB_46	-.0000000147	-.0000000195	-.0000000033	0.0000000003	-.0000000002
PCB_52	0.0000001970	0.0000058189	-.0000000452	0.0000000054	0.0000000163
PCB_73	0.0000000195	0.0000002345	-.0000000003	-.0000000003	0.0000000006
PCB_43	0.0000000034	0.0000000654	0.0000000001	0.0000000001	0.0000000002
PCB_49_69	0.0000000132	0.0000030412	-.0000000638	0.0000000036	0.0000000091
PCB_48	-.0000000179	-.0000003812	0.0000000025	-.0000000001	-.0000000009
PCB_44_47_65	0.0000006561	0.0000128138	-.0000000235	0.0000000063	0.0000000314
PCB_59_62_75	-.0000001919	-.0000026492	-.0000000090	0.0000000003	-.0000000063

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_136	PCB_145	PCB_148	PCB_135_151
PCB_1	-.0000000004	-.0000001870	0.0000000000	-.0000000006	-.0000011526
PCB_2	-.0000000000	-.0000000002	-.0000000000	0.0000000000	0.0000000009
PCB_3	-.0000000001	-.0000000157	0.0000000000	-.0000000001	-.0000000893
PCB_4	-.0000000214	-.0000077606	-.0000000001	-.0000000262	-.0000462393
PCB_10	-.0000000008	-.0000003316	0.0000000000	-.0000000011	-.0000020118
PCB_9	0.0000000000	0.0000000039	0.0000000000	-.0000000001	-.0000000427
PCB_7	-.0000000000	-.0000000121	0.0000000000	-.0000000001	-.0000000954
PCB_6	0.0000000001	-.0000000787	0.0000000002	-.0000000007	-.0000008873
PCB_5	0.0000000000	0.0000000034	0.0000000000	-.0000000000	-.0000000059
PCB_8	-.0000000000	-.0000000476	0.0000000008	-.0000000016	-.0000013029
PCB_12_13	-.0000000010	-.0000003726	-.0000000000	-.0000000012	-.0000021987
PCB_15	-.0000000006	-.0000002844	0.0000000003	-.0000000017	-.0000021430
PCB_19	-.0000000078	-.0000035926	-.0000000002	-.0000000118	-.0000216854
PCB_18_30	0.0000000067	0.0000005118	0.0000000008	0.0000000000	0.0000005822
PCB_17	-.0000000021	-.0000023694	-.0000000003	-.0000000076	-.0000149882
PCB_27	0.0000000012	-.0000087812	-.0000000047	-.0000000203	-.0000533220
PCB_24	-.0000000001	0.0000000183	-.0000000000	0.0000000001	0.0000001391
PCB_16	0.0000000011	0.0000003610	0.0000000006	0.0000000001	0.0000013980
PCB_32	0.0000000013	-.0000009582	-.0000000001	-.0000000030	-.0000066342
PCB_34	0.0000000000	-.0000000264	-.0000000000	-.0000000001	-.0000001829
PCB_23	0.0000000000	0.0000000014	0.0000000000	0.0000000000	0.0000000068
PCB_26_29	0.0000000096	-.0000003542	-.0000000012	0.0000000010	-.0000033954
PCB_25	0.0000000030	-.0000006184	-.0000000006	-.0000000010	-.0000042337
PCB_31	0.0000000039	0.0000003943	0.0000000005	0.0000000002	0.0000009107
PCB_20_28	0.0000000037	0.0000004304	0.0000000011	-.0000000010	0.0000004601
PCB_21_33	0.0000000006	0.0000002764	0.0000000003	0.0000000005	0.0000013805
PCB_22	0.0000000009	0.0000004315	0.0000000003	0.0000000009	0.0000022788
PCB_39	-.0000000000	0.0000000034	0.0000000000	0.0000000000	0.0000000289
PCB_38	0.0000000001	-.0000000034	-.0000000000	0.0000000000	-.0000000466
PCB_35	0.0000000000	0.0000000160	0.0000000000	0.0000000000	0.0000001030
PCB_37	0.0000000005	0.0000001531	0.0000000002	0.0000000001	0.0000006148
PCB_54	0.0000000002	-.0000002934	-.0000000001	-.0000000007	-.0000018590
PCB_50_53	0.0000000162	-.0000061253	-.0000000062	-.0000000079	-.0000375373
PCB_45_51	-.0000000006	-.0000021576	-.0000000013	-.0000000049	-.0000126333
PCB_46	0.0000000022	-.0000003625	-.0000000005	-.0000000002	-.0000024196
PCB_52	0.0000000289	-.0000075293	-.0000000076	-.0000000115	-.0000483751
PCB_73	-.0000000002	0.0000000899	0.0000000003	-.0000000003	0.0000002490
PCB_43	-.0000000001	-.0000000502	-.0000000001	-.0000000001	-.0000002443
PCB_49_69	0.0000000444	-.0000069401	-.0000000072	-.0000000099	-.0000491551
PCB_48	-.0000000012	0.0000002722	0.0000000001	0.0000000007	0.0000019761
PCB_44_47_65	0.0000000013	-.0000079275	-.0000000053	-.0000000171	-.0000466233
PCB_59_62_75	0.0000000101	-.0000001699	-.0000000014	0.0000000023	-.0000021139

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_154	PCB_144	PCB_147_149	PCB_134_143	PCB_139_140
PCB_1	-.0000000084	-.0000001193	-.0000018875	-.0000000562	-.0000000093
PCB_2	-.0000000001	0.0000000001	0.0000000009	-.0000000002	-.0000000001
PCB_3	-.0000000014	-.0000000076	-.0000001482	-.0000000049	-.0000000009
PCB_4	-.0000004402	-.0000046206	-.0000754937	-.0000024873	-.0000004327
PCB_10	-.0000000174	-.0000002030	-.0000032781	-.0000001048	-.0000000172
PCB_9	0.0000000005	-.0000000006	-.0000000597	0.0000000047	0.0000000033
PCB_7	-.0000000009	-.0000000073	-.0000001530	-.0000000025	0.0000000005
PCB_6	-.0000000004	-.0000000724	-.0000013871	-.0000000036	0.0000000144
PCB_5	0.0000000003	0.0000000010	-.0000000061	0.0000000025	0.0000000014
PCB_8	-.0000000021	-.0000000612	-.0000019900	0.0000000408	0.0000000455
PCB_12_13	-.0000000215	-.0000002201	-.0000035882	-.0000001213	-.0000000217
PCB_15	-.0000000166	-.0000001817	-.0000034170	-.0000000702	0.0000000057
PCB_19	-.0000001801	-.0000022234	-.0000353071	-.0000011499	-.0000001933
PCB_18_30	0.0000000869	0.0000000440	0.0000014442	0.0000002638	0.0000001304
PCB_17	-.0000000843	-.0000015981	-.0000242090	-.0000007436	-.0000001039
PCB_27	-.0000001790	-.0000062778	-.0000864220	-.0000028894	-.0000005278
PCB_24	-.0000000001	0.0000000155	0.0000002194	0.0000000050	-.0000000001
PCB_16	0.0000000201	0.0000001933	0.0000023888	0.0000001564	0.0000000560
PCB_32	-.0000000066	-.0000007514	-.0000106142	-.0000002789	-.0000000223
PCB_34	-.0000000003	-.0000000203	-.0000002911	-.0000000079	-.0000000006
PCB_23	0.0000000001	0.0000000008	0.0000000114	0.0000000005	0.0000000001
PCB_26_29	0.0000001035	-.0000006462	-.0000050679	-.0000001126	0.0000000085
PCB_25	0.0000000209	-.0000005641	-.0000067101	-.0000001979	-.0000000232
PCB_31	0.0000000527	0.0000000934	0.0000017768	0.0000001846	0.0000000824
PCB_20_28	0.0000000450	0.0000001250	0.0000011734	0.0000002265	0.0000001188
PCB_21_33	0.0000000132	0.0000001646	0.0000022816	0.0000001051	0.0000000287
PCB_22	0.0000000209	0.0000002595	0.0000037439	0.0000001577	0.0000000388
PCB_39	-.0000000002	0.0000000036	0.0000000451	0.0000000009	-.0000000001
PCB_38	0.0000000017	-.0000000088	-.0000000691	-.0000000005	0.0000000006
PCB_35	0.0000000004	0.0000000114	0.0000001659	0.0000000050	0.0000000007
PCB_37	0.0000000083	0.0000000831	0.0000010614	0.0000000623	0.0000000228
PCB_54	-.0000000044	-.0000002172	-.0000029929	-.0000000943	-.0000000143
PCB_50_53	0.0000000712	-.0000050151	-.0000605212	-.0000020709	-.0000004048
PCB_45_51	-.0000000593	-.0000014803	-.0000204977	-.0000007401	-.0000001475
PCB_46	0.0000000197	-.0000003522	-.0000038581	-.0000001173	-.0000000187
PCB_52	0.0000001483	-.0000064358	-.0000770371	-.0000025557	-.0000004050
PCB_73	-.0000000010	0.0000000642	0.0000004456	0.0000000453	0.0000000203
PCB_43	-.0000000023	-.0000000300	-.0000004008	-.0000000201	-.0000000055
PCB_49_69	0.0000003524	-.0000067601	-.0000774674	-.0000021996	-.0000002144
PCB_48	-.0000000073	0.0000002457	0.0000031272	0.0000000798	0.0000000044
PCB_44_47_65	-.0000001841	-.0000055546	-.0000754562	-.0000027417	-.0000005408
PCB_59_62_75	0.0000001220	-.0000005549	-.0000030934	-.0000000480	0.0000000075

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_131	PCB_142	PCB_132	PCB_133	PCB_165
PCB_1	-.0000000203	-.0000000002	-.0000003633	-.0000000322	-.0000000013
PCB_2	0.0000000001	-.0000000000	0.0000000003	-.0000000001	-.0000000000
PCB_3	-.0000000007	-.0000000000	-.0000000227	-.0000000035	-.0000000003
PCB_4	-.0000007114	-.0000000073	-.0000144946	-.0000014087	-.0000000802
PCB_10	-.0000000324	-.0000000003	-.0000006332	-.0000000592	-.0000000030
PCB_9	0.0000000002	0.0000000001	0.0000000095	-.0000000007	-.0000000001
PCB_7	-.0000000007	0.0000000000	-.0000000179	-.0000000031	-.0000000003
PCB_6	-.0000000117	0.0000000002	-.0000001578	-.0000000200	-.0000000009
PCB_5	0.0000000003	0.0000000000	0.0000000078	0.0000000000	-.0000000000
PCB_8	-.0000000015	0.0000000009	-.0000000004	-.0000000356	-.0000000042
PCB_12_13	-.0000000337	-.0000000004	-.0000006970	-.0000000675	-.0000000039
PCB_15	-.0000000237	0.0000000001	-.0000004990	-.0000000640	-.0000000048
PCB_19	-.0000003637	-.0000000037	-.0000069998	-.0000006254	-.0000000289
PCB_18_30	-.0000000306	0.0000000013	0.0000004043	0.0000001100	0.0000000184
PCB_17	-.0000002890	-.0000000027	-.0000050248	-.0000003807	-.0000000082
PCB_27	-.0000012793	-.0000000148	-.0000203417	-.0000011651	0.0000000294
PCB_24	0.0000000033	0.0000000000	0.0000000472	0.0000000025	-.0000000001
PCB_16	0.0000000365	0.0000000011	0.0000007459	0.0000000446	0.0000000007
PCB_32	-.0000001560	-.0000000012	-.0000023201	-.0000001304	0.0000000051
PCB_34	-.0000000041	-.0000000000	-.0000000632	-.0000000038	0.0000000001
PCB_23	0.0000000001	0.0000000000	0.0000000027	0.0000000002	0.0000000000
PCB_26_29	-.0000002129	-.0000000022	-.0000021827	0.0000000798	0.0000000398
PCB_25	-.0000001384	-.0000000014	-.0000018400	-.0000000463	0.0000000134
PCB_31	-.0000000040	0.0000000009	0.0000004521	0.0000000769	0.0000000105
PCB_20_28	0.0000000164	0.0000000017	0.0000006634	0.0000000527	0.0000000047
PCB_21_33	0.0000000301	0.0000000006	0.0000005763	0.0000000392	0.0000000008
PCB_22	0.0000000459	0.0000000008	0.0000008855	0.0000000651	0.0000000019
PCB_39	0.0000000009	0.0000000000	0.0000000110	0.0000000003	-.0000000001
PCB_38	-.0000000030	-.0000000000	-.0000000280	0.0000000014	0.0000000006
PCB_35	0.0000000022	0.0000000000	0.0000000359	0.0000000024	0.0000000000
PCB_37	0.0000000157	0.0000000004	0.0000003054	0.0000000196	0.0000000003
PCB_54	-.0000000448	-.0000000005	-.0000006980	-.0000000386	0.0000000013
PCB_50_53	-.0000011848	-.0000000146	-.0000166130	-.0000005425	0.0000000952
PCB_45_51	-.0000002931	-.0000000038	-.0000048915	-.0000002941	0.0000000033
PCB_46	-.0000000926	-.0000000010	-.0000011574	-.0000000155	0.0000000109
PCB_52	-.0000015391	-.0000000182	-.0000214211	-.0000006270	0.0000001344
PCB_73	0.0000000185	0.0000000005	0.0000002648	-.0000000000	-.0000000025
PCB_43	-.0000000056	-.0000000001	-.0000001089	-.0000000068	-.0000000001
PCB_49_69	-.0000017249	-.0000000176	-.0000220742	-.0000003930	0.0000001901
PCB_48	0.0000000577	0.0000000005	0.0000007742	0.0000000262	-.0000000047
PCB_44_47_65	-.0000011267	-.0000000148	-.0000184611	-.0000010353	0.0000000250
PCB_59_62_75	-.0000002087	-.0000000022	-.0000018802	0.0000001274	0.0000000451

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_146	PCB_153_168	PCB_141	PCB_130	PCB_137
PCB_1	-.0000004024	-.0000036807	-.0000000597	-.0000000871	-.0000000041
PCB_2	-.0000000001	-.0000000010	0.0000000003	-.0000000001	0.0000000002
PCB_3	-.0000000326	-.0000003145	-.0000000018	-.0000000056	0.0000000012
PCB_4	-.0000165341	-.0001581011	-.0000019420	-.0000033889	0.0000002395
PCB_10	-.0000007132	-.0000067920	-.0000000905	-.0000001467	0.0000000065
PCB_9	-.0000000056	-.0000000752	-.0000000032	0.0000000058	-.0000000022
PCB_7	-.0000000307	-.0000003053	-.0000000034	-.0000000029	-.0000000000
PCB_6	-.0000002539	-.0000024633	-.0000000560	-.0000000162	-.0000000168
PCB_5	0.0000000018	0.0000000113	-.0000000008	0.0000000032	-.0000000010
PCB_8	-.0000003166	-.0000033683	-.0000000625	0.0000000536	-.0000000282
PCB_12_13	-.0000007906	-.0000076044	-.0000000900	-.0000001627	0.0000000144
PCB_15	-.0000007058	-.0000071141	-.0000000871	-.0000000872	0.0000000048
PCB_19	-.0000077056	-.0000733653	-.0000010056	-.0000016231	0.0000000682
PCB_18_30	0.0000005841	0.0000056015	-.0000002147	0.0000002257	-.0000001647
PCB_17	-.0000052196	-.0000494833	-.0000008294	-.0000011273	-.0000000192
PCB_27	-.0000187496	-.0001713115	-.0000035503	-.0000047983	-.0000003336
PCB_24	0.0000000452	0.0000004296	0.0000000104	0.0000000093	0.0000000017
PCB_16	0.0000006084	0.0000054894	0.0000000573	0.0000002159	-.0000000294
PCB_32	-.0000022155	-.0000204245	-.0000004762	-.0000005032	-.0000000763
PCB_34	-.0000000615	-.0000005851	-.0000000123	-.0000000132	-.0000000013
PCB_23	0.0000000026	0.0000000241	0.0000000003	0.0000000007	-.0000000001
PCB_26_29	-.0000009837	-.0000075788	-.0000006392	-.0000004522	-.0000002112
PCB_25	-.0000014124	-.0000125905	-.0000004037	-.0000004078	-.0000000835
PCB_31	0.0000005415	0.0000050358	-.0000000864	0.0000001850	-.0000000905
PCB_20_28	0.0000004599	0.0000032621	-.0000000604	0.0000002870	-.0000000727
PCB_21_33	0.0000005321	0.0000049639	0.0000000663	0.0000001486	-.0000000128
PCB_22	0.0000008578	0.0000080957	0.0000001072	0.0000002210	-.0000000186
PCB_39	0.0000000089	0.0000000795	0.0000000029	0.0000000022	0.0000000008
PCB_38	-.0000000120	-.0000000803	-.0000000097	-.0000000056	-.0000000038
PCB_35	0.0000000356	0.0000003351	0.0000000063	0.0000000080	0.0000000004
PCB_37	0.0000002591	0.0000022034	0.0000000285	0.0000000918	-.0000000061
PCB_54	-.0000006437	-.0000059448	-.0000001275	-.0000001590	-.0000000134
PCB_50_53	-.0000130396	-.0001138521	-.0000032993	-.0000039620	-.0000006073
PCB_45_51	-.0000045286	-.0000420871	-.0000007792	-.0000011597	-.0000000213
PCB_46	-.0000008045	-.0000066850	-.0000002685	-.0000002703	-.0000000707
PCB_52	-.0000165981	-.0001498448	-.0000043227	-.0000048538	-.0000007129
PCB_73	0.0000001254	0.0000008493	0.0000000355	0.0000000815	0.0000000038
PCB_43	-.0000000960	-.0000009245	-.0000000115	-.0000000274	0.0000000037
PCB_49_69	-.0000161590	-.0001427099	-.0000050758	-.0000048302	-.0000011590
PCB_48	0.0000006461	0.0000058477	0.0000001756	0.0000001651	0.0000000372
PCB_44_47_65	-.0000166887	-.0001552696	-.0000029945	-.0000043468	-.0000001069
PCB_59_62_75	-.0000005253	-.0000020082	-.0000006324	-.0000004197	-.0000002621

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159
PCB_1	-.0000000916	-.0000016418	-.0000001133	-.0000001363	-.0000000002
PCB_2	0.0000000001	-.0000000037	-.0000000005	-.0000000013	-.0000000000
PCB_3	-.0000000055	-.0000001207	-.0000000060	-.0000000108	-.0000000000
PCB_4	-.0000033929	-.0000687560	-.0000045990	-.0000062414	-.0000000073
PCB_10	-.0000001498	-.0000029260	-.0000001935	-.0000002514	-.0000000003
PCB_9	0.0000000003	0.0000001651	0.0000000312	0.0000000525	0.0000000001
PCB_7	-.0000000050	-.0000000451	0.0000000061	0.0000000108	0.0000000000
PCB_6	-.0000000514	0.0000000317	0.0000001139	0.0000002295	0.0000000002
PCB_5	0.0000000009	0.0000000843	0.0000000138	0.0000000227	0.0000000000
PCB_8	-.0000000335	0.0000018090	0.0000004580	0.0000007639	0.0000000009
PCB_12_13	-.0000001606	-.0000033446	-.0000002281	-.0000003149	-.0000000004
PCB_15	-.0000001235	-.0000015647	0.0000000502	0.0000001233	0.0000000001
PCB_19	-.0000016427	-.0000324612	-.0000022430	-.0000029068	-.0000000037
PCB_18_30	0.0000000315	0.0000069015	0.0000008844	0.0000017773	0.0000000013
PCB_17	-.0000011882	-.0000217596	-.0000015130	-.0000017277	-.0000000027
PCB_27	-.0000048387	-.0000915582	-.0000080354	-.0000093766	-.0000000148
PCB_24	0.0000000115	0.0000001586	0.0000000085	0.0000000029	0.0000000000
PCB_16	0.0000001522	0.0000048712	0.0000005811	0.0000008890	0.0000000011
PCB_32	-.0000005734	-.0000088840	-.0000006199	-.0000005097	-.0000000012
PCB_34	-.0000000150	-.0000002416	-.0000000157	-.0000000131	-.0000000000
PCB_23	0.0000000006	0.0000000152	0.0000000015	0.0000000022	0.0000000000
PCB_26_29	-.0000005315	-.0000067930	-.0000008885	-.0000005109	-.0000000022
PCB_25	-.0000004421	-.0000071783	-.0000006878	-.0000006218	-.0000000015
PCB_31	0.0000000721	0.0000050220	0.0000006066	0.0000011437	0.0000000009
PCB_20_28	0.0000001218	0.0000071386	0.0000010429	0.0000017737	0.0000000017
PCB_21_33	0.0000001251	0.0000031785	0.0000003194	0.0000004598	0.0000000006
PCB_22	0.0000001946	0.0000046770	0.0000004350	0.0000006168	0.0000000008
PCB_39	0.0000000028	0.0000000333	0.0000000023	0.0000000003	0.0000000000
PCB_38	-.0000000075	-.0000000676	-.0000000089	-.0000000004	-.0000000000
PCB_35	0.0000000085	0.0000001518	0.0000000111	0.0000000120	0.0000000000
PCB_37	0.0000000683	0.0000019815	0.0000002358	0.0000003556	0.0000000004
PCB_54	-.0000001659	-.0000029888	-.0000002484	-.0000002701	-.0000000005
PCB_50_53	-.0000039923	-.0000728334	-.0000074721	-.0000081669	-.0000000146
PCB_45_51	-.0000011258	-.0000229389	-.0000020500	-.0000025482	-.0000000038
PCB_46	-.0000002870	-.0000046351	-.0000005067	-.0000004756	-.0000000010
PCB_52	-.0000050087	-.0000893733	-.0000088233	-.0000090879	-.0000000183
PCB_73	0.0000000571	0.0000017089	0.0000002539	0.0000003553	0.0000000005
PCB_43	-.0000000222	-.0000006058	-.0000000624	-.0000000906	-.0000000001
PCB_49_69	-.0000053253	-.0000831814	-.0000081732	-.0000068742	-.0000000177
PCB_48	0.0000001903	0.0000028107	0.0000002286	0.0000001655	0.0000000005
PCB_44_47_65	-.0000042227	-.0000858397	-.0000077993	-.0000095702	-.0000000149
PCB_59_62_75	-.0000004931	-.0000056626	-.0000009361	-.0000005464	-.0000000022

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_162	PCB_167	PCB_156_57	PCB_169	PCB_188
PCB_1	-.0000000085	-.0000000867	0.0000000053	0.0000000003	-.0000000011
PCB_2	0.0000000000	0.0000000001	-.0000000000	-.0000000000	0.0000000000
PCB_3	-.0000000007	-.0000000092	0.0000000006	0.0000000002	-.0000000001
PCB_4	-.0000003499	-.0000038248	0.0000004557	0.0000000196	-.0000000414
PCB_10	-.0000000155	-.0000001650	0.0000000193	0.0000000008	-.0000000019
PCB_9	-.0000000014	-.0000000144	0.0000000006	0.0000000007	-.0000000002
PCB_7	-.0000000011	-.0000000133	0.0000000009	0.0000000004	-.0000000001
PCB_6	-.0000000128	-.0000001282	0.0000000075	0.0000000042	-.0000000016
PCB_5	-.0000000005	-.0000000048	-.0000000000	0.0000000003	-.0000000001
PCB_8	-.0000000266	-.0000002945	0.0000000131	0.0000000130	-.0000000032
PCB_12_13	-.0000000165	-.0000001810	0.0000000237	0.0000000007	-.0000000019
PCB_15	-.0000000244	-.0000002687	0.0000000301	0.0000000064	-.0000000029
PCB_19	-.0000001644	-.0000017149	0.0000002162	0.0000000043	-.0000000198
PCB_18_30	-.0000000263	-.0000000951	0.0000000070	0.0000000098	-.0000000040
PCB_17	-.0000001192	-.0000011285	0.0000001595	-.0000000007	-.0000000148
PCB_27	-.0000003530	-.0000027610	0.0000004367	-.0000000747	-.0000000469
PCB_24	0.0000000014	0.0000000110	-.0000000018	-.0000000000	0.0000000002
PCB_16	-.0000000021	-.0000000285	-.0000000109	0.0000000088	-.0000000003
PCB_32	-.0000000560	-.0000004505	0.0000000596	-.0000000023	-.0000000074
PCB_34	-.0000000016	-.0000000137	0.0000000023	-.0000000000	-.0000000002
PCB_23	0.0000000000	0.0000000003	-.0000000000	0.0000000000	0.0000000000
PCB_26_29	-.0000000241	0.0000001668	0.0000000414	-.0000000261	-.0000000047
PCB_25	-.0000000305	-.0000001397	0.0000000419	-.0000000110	-.0000000045
PCB_31	-.0000000119	-.0000000292	0.0000000022	0.0000000066	-.0000000019
PCB_20_28	-.0000000301	-.0000002596	0.0000000321	0.0000000178	-.0000000038
PCB_21_33	0.0000000056	0.0000000508	-.0000000143	0.0000000036	0.0000000007
PCB_22	0.0000000120	0.0000001159	-.0000000252	0.0000000040	0.0000000014
PCB_39	0.0000000003	0.0000000016	-.0000000003	0.0000000000	0.0000000000
PCB_38	-.0000000004	0.0000000019	0.0000000002	-.0000000003	-.0000000001
PCB_35	0.0000000008	0.0000000072	-.0000000011	0.0000000000	0.0000000001
PCB_37	-.0000000009	-.0000000109	0.0000000013	0.0000000034	-.0000000001
PCB_54	-.0000000136	-.0000001059	0.0000000180	-.0000000021	-.0000000018
PCB_50_53	-.0000002124	-.0000008829	0.0000002412	-.0000001148	-.0000000318
PCB_45_51	-.0000000804	-.0000006531	0.0000001293	-.0000000196	-.0000000104
PCB_46	-.0000000140	-.0000000157	0.0000000106	-.0000000095	-.0000000023
PCB_52	-.0000003196	-.0000014687	0.0000005351	-.0000001390	-.0000000461
PCB_73	-.0000000044	-.0000000704	0.0000000034	0.0000000055	-.0000000004
PCB_43	-.0000000010	-.0000000079	0.0000000040	-.0000000008	-.0000000001
PCB_49_69	-.0000003606	-.0000013523	0.0000004975	-.0000001441	-.0000000539
PCB_48	0.0000000165	0.0000001022	-.0000000194	0.0000000027	0.0000000023
PCB_44_47_65	-.0000002964	-.0000022851	0.0000005105	-.0000000822	-.0000000387
PCB_59_62_75	-.0000000067	0.0000003761	-.0000000140	-.0000000307	-.0000000029

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_184	PCB_176	PCB_178	PCB_175
PCB_1	-.0000003776	0.0000000001	-.0000001160	-.0000002189	-.0000000426
PCB_2	0.0000000007	-.0000000000	0.0000000001	0.0000000004	0.0000000001
PCB_3	-.0000000267	-.0000000000	-.0000000082	-.0000000155	-.0000000029
PCB_4	-.0000150093	0.0000000018	-.0000046606	-.0000087106	-.0000016888
PCB_10	-.0000006592	0.0000000001	-.0000002035	-.0000003827	-.0000000742
PCB_9	-.0000000180	0.0000000000	-.0000000018	-.0000000110	-.0000000015
PCB_7	-.0000000313	0.0000000000	-.0000000082	-.0000000184	-.0000000033
PCB_6	-.0000003201	0.0000000002	-.0000000767	-.0000001889	-.0000000331
PCB_5	-.0000000033	0.0000000000	0.0000000005	-.0000000022	-.0000000002
PCB_8	-.0000004700	0.0000000005	-.0000000842	-.0000002816	-.0000000436
PCB_12_13	-.0000007136	0.0000000001	-.0000002228	-.0000004141	-.0000000804
PCB_15	-.0000007231	0.0000000003	-.0000001976	-.0000004241	-.0000000771
PCB_19	-.0000071427	0.0000000010	-.0000022184	-.0000041457	-.0000008067
PCB_18_30	-.0000001497	0.0000000011	0.0000000606	-.0000001038	-.0000000076
PCB_17	-.0000051040	0.0000000011	-.0000015695	-.0000029658	-.0000005780
PCB_27	-.0000184535	0.0000000032	-.0000058946	-.0000106841	-.0000021415
PCB_24	0.0000000512	-.0000000000	0.0000000149	0.0000000299	0.0000000057
PCB_16	0.0000004193	0.0000000002	0.0000001762	0.0000002366	0.0000000542
PCB_32	-.0000023669	0.0000000007	-.0000007130	-.0000013770	-.0000002689
PCB_34	-.0000000654	0.0000000000	-.0000000197	-.0000000381	-.0000000074
PCB_23	0.0000000021	0.0000000000	0.0000000007	0.0000000012	0.0000000003
PCB_26_29	-.0000016307	0.0000000010	-.0000005192	-.0000009467	-.0000002006
PCB_25	-.0000016084	0.0000000005	-.0000005069	-.0000009331	-.0000001890
PCB_31	0.0000001066	0.0000000006	0.0000000977	0.0000000515	0.0000000181
PCB_20_28	-.0000000595	0.0000000009	0.0000000915	-.0000000530	0.0000000078
PCB_21_33	0.0000004467	0.0000000000	0.0000001569	0.0000002567	0.0000000533
PCB_22	0.0000007432	0.0000000000	0.0000002514	0.0000004286	0.0000000872
PCB_39	0.0000000112	-.0000000000	0.0000000033	0.0000000066	0.0000000013
PCB_38	-.0000000230	0.0000000000	-.0000000069	-.0000000134	-.0000000028
PCB_35	0.0000000357	-.0000000000	0.0000000110	0.0000000207	0.0000000041
PCB_37	0.0000001801	0.0000000001	0.0000000737	0.0000001015	0.0000000231
PCB_54	-.0000006539	0.0000000002	-.0000002052	-.0000003793	-.0000000754
PCB_50_53	-.0000136617	0.0000000028	-.0000044735	-.0000078922	-.0000016251
PCB_45_51	-.0000043330	0.0000000006	-.0000014057	-.0000025072	-.0000005044
PCB_46	-.0000009334	0.0000000003	-.0000003022	-.0000005395	-.0000001120
PCB_52	-.0000180784	0.0000000050	-.0000058264	-.0000104733	-.0000021369
PCB_73	0.0000000850	0.0000000001	0.0000000478	0.0000000460	0.0000000136
PCB_43	-.0000000806	-.0000000000	-.0000000289	-.0000000463	-.0000000097
PCB_49_69	-.0000191104	0.0000000071	-.0000060057	-.0000110914	-.0000022531
PCB_48	0.0000007422	-.0000000003	0.0000002255	0.0000004317	0.0000000856
PCB_44_47_65	-.0000161591	0.0000000024	-.0000052544	-.0000093513	-.0000018864
PCB_59_62_75	-.0000011904	0.0000000008	-.0000003956	-.0000006865	-.0000001544

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_182	PCB_183_185	PCB_174	PCB_177
PCB_1	-.0000013277	-.0000000014	-.0000005655	-.0000002172	-.0000004465
PCB_2	0.0000000018	0.0000000000	0.0000000002	0.0000000006	0.0000000001
PCB_3	-.0000000924	-.0000000001	-.0000000397	-.0000000148	-.0000000306
PCB_4	-.0000532086	-.0000000527	-.0000228986	-.0000083607	-.0000181349
PCB_10	-.0000023299	-.0000000023	-.0000009951	-.0000003709	-.0000007874
PCB_9	-.0000000362	-.0000000000	0.0000000052	-.0000000169	0.0000000096
PCB_7	-.0000000990	-.0000000001	-.0000000344	-.0000000201	-.0000000246
PCB_6	-.0000009722	-.0000000011	-.0000002936	-.0000002227	-.0000002011
PCB_5	-.0000000005	-.0000000000	0.0000000081	-.0000000047	0.0000000087
PCB_8	-.0000012080	-.0000000014	-.0000001883	-.0000003717	-.0000000542
PCB_12_13	-.0000025399	-.0000000025	-.0000010989	-.0000003941	-.0000008724
PCB_15	-.0000023703	-.0000000023	-.0000008718	-.0000004461	-.0000006507
PCB_19	-.0000253722	-.0000000254	-.0000108983	-.0000039979	-.0000086567
PCB_18_30	0.0000001441	-.0000000007	0.0000006962	-.0000003192	0.0000006545
PCB_17	-.0000180856	-.0000000184	-.0000076480	-.0000029098	-.0000060875
PCB_27	-.0000671696	-.0000000706	-.0000295334	-.0000103118	-.0000239461
PCB_24	0.0000001769	0.0000000002	0.0000000697	0.0000000310	0.0000000550
PCB_16	0.0000018271	0.0000000017	0.0000010338	0.0000001536	0.0000008896
PCB_32	-.0000083126	-.0000000089	-.0000034177	-.0000014026	-.0000027199
PCB_34	-.0000002297	-.0000000002	-.0000000939	-.0000000384	-.0000000747
PCB_23	0.0000000081	0.0000000000	0.0000000040	0.0000000010	0.0000000033
PCB_26_29	-.0000061191	-.0000000073	-.0000025826	-.0000009923	-.0000021935
PCB_25	-.0000058640	-.0000000064	-.0000025111	-.0000009325	-.0000020575
PCB_31	0.0000007905	0.0000000004	0.0000007201	-.0000000772	0.0000006362
PCB_20_28	0.0000005352	0.0000000003	0.0000008572	-.0000002303	0.0000008182
PCB_21_33	0.0000017244	0.0000000017	0.0000008369	0.0000002185	0.0000006937
PCB_22	0.0000027977	0.0000000027	0.0000013101	0.0000003792	0.0000010739
PCB_39	0.0000000391	0.0000000000	0.0000000153	0.0000000070	0.0000000122
PCB_38	-.0000000830	-.0000000001	-.0000000327	-.0000000151	-.0000000274
PCB_35	0.0000001269	0.0000000001	0.0000000537	0.0000000204	0.0000000429
PCB_37	0.0000007646	0.0000000008	0.0000004275	0.0000000724	0.0000003644
PCB_54	-.0000023571	-.0000000025	-.0000010146	-.0000003714	-.0000008193
PCB_50_53	-.0000508329	-.0000000557	-.0000227876	-.0000076307	-.0000187980
PCB_45_51	-.0000159336	-.0000000163	-.0000071185	-.0000023610	-.0000057966
PCB_46	-.0000034659	-.0000000040	-.0000015270	-.0000005397	-.0000012661
PCB_52	-.0000668199	-.0000000713	-.0000293275	-.0000101812	-.0000241588
PCB_73	0.0000004674	0.0000000005	0.0000003132	0.0000000174	0.0000002859
PCB_43	-.0000003170	-.0000000003	-.0000001559	-.0000000378	-.0000001304
PCB_49_69	-.0000697117	-.0000000771	-.0000296786	-.0000111785	-.0000243805
PCB_48	0.0000026373	0.0000000029	0.0000010871	0.0000004426	0.0000008764
PCB_44_47_65	-.0000595980	-.0000000607	-.0000266422	-.0000087961	-.0000217510
PCB_59_62_75	-.0000046321	-.0000000064	-.0000020266	-.0000007500	-.0000017702

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_171_173	PCB_172	PCB_180_193	PCB_191
PCB_1	-.0000000030	-.0000002117	-.0000000218	-.0000008818	-.0000000190
PCB_2	-.0000000000	-.0000000003	0.0000000001	0.0000000020	-.0000000000
PCB_3	-.0000000002	-.0000000147	-.0000000015	-.0000000637	-.0000000013
PCB_4	-.0000001247	-.0000088370	-.0000008343	-.0000349788	-.0000007738
PCB_10	-.0000000053	-.0000003785	-.0000000371	-.0000015412	-.0000000334
PCB_9	0.0000000003	0.0000000187	-.0000000022	-.0000000644	0.0000000008
PCB_7	-.0000000001	-.0000000064	-.0000000022	-.0000000827	-.0000000009
PCB_6	-.0000000000	-.0000000135	-.0000000249	-.0000008751	-.0000000060
PCB_5	0.0000000001	0.0000000099	-.0000000007	-.0000000169	0.0000000005
PCB_8	0.0000000026	0.0000001985	-.0000000449	-.0000014649	0.0000000044
PCB_12_13	-.0000000060	-.0000004298	-.0000000392	-.0000016569	-.0000000373
PCB_15	-.0000000031	-.0000002197	-.0000000478	-.0000018506	-.0000000246
PCB_19	-.0000000578	-.0000042090	-.0000003978	-.0000166047	-.0000003682
PCB_18_30	0.0000000140	0.0000007353	-.0000000426	-.0000009001	0.0000000428
PCB_17	-.0000000373	-.0000028872	-.0000002898	-.0000119083	-.0000002552
PCB_27	-.0000001512	-.0000121138	-.0000009954	-.0000414593	-.0000010266
PCB_24	0.0000000002	0.0000000228	0.0000000032	0.0000001232	0.0000000022
PCB_16	0.0000000083	0.0000006006	0.0000000095	0.0000006996	0.0000000430
PCB_32	-.0000000143	-.0000012227	-.0000001407	-.0000055668	-.0000001115
PCB_34	-.0000000004	-.0000000335	-.0000000039	-.0000001547	-.0000000030
PCB_23	0.0000000000	0.0000000019	0.0000000001	0.0000000044	0.0000000001
PCB_26_29	-.0000000066	-.0000010576	-.0000000917	-.0000035215	-.0000000887
PCB_25	-.0000000105	-.0000010034	-.0000000896	-.0000036110	-.0000000858
PCB_31	0.0000000098	0.0000005589	-.0000000143	-.0000000926	0.0000000360
PCB_20_28	0.0000000130	0.0000008074	-.0000000353	-.0000007775	0.0000000490
PCB_21_33	0.0000000054	0.0000004030	0.0000000194	0.0000009280	0.0000000314
PCB_22	0.0000000081	0.0000005969	0.0000000350	0.0000016030	0.0000000478
PCB_39	0.0000000000	0.0000000050	0.0000000007	0.0000000268	0.0000000005
PCB_38	-.0000000000	-.0000000115	-.0000000015	-.0000000520	-.0000000011
PCB_35	0.0000000003	0.0000000204	0.0000000020	0.0000000829	0.0000000018
PCB_37	0.0000000035	0.0000002417	0.0000000051	0.0000003100	0.0000000177
PCB_54	-.0000000049	-.0000004013	-.0000000362	-.0000014905	-.0000000346
PCB_50_53	-.0000001126	-.0000098000	-.0000007157	-.0000297124	-.0000008105
PCB_45_51	-.0000000381	-.0000030142	-.0000002250	-.0000096337	-.0000002506
PCB_46	-.0000000067	-.0000006427	-.0000000507	-.0000020295	-.0000000538
PCB_52	-.0000001336	-.0000122761	-.0000009620	-.0000399243	-.0000010237
PCB_73	0.0000000027	0.0000002143	-.0000000012	0.0000000573	0.0000000144
PCB_43	-.0000000010	-.0000000775	-.0000000032	-.0000001643	-.0000000059
PCB_49_69	-.0000001171	-.0000117888	-.0000010727	-.0000428778	-.0000010109
PCB_48	0.0000000042	0.0000003983	0.0000000438	0.0000017218	0.0000000357
PCB_44_47_65	-.0000001407	-.0000113363	-.0000008348	-.0000358169	-.0000009391
PCB_59_62_75	-.0000000046	-.0000008938	-.0000000663	-.0000023885	-.0000000729

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201
PCB_1	-.0000001419	-.0000001038	-.0000000042	-.0000000859	-.0000000608
PCB_2	0.0000000002	0.0000000001	0.0000000000	0.0000000003	0.0000000002
PCB_3	-.0000000101	-.0000000088	-.0000000003	-.0000000060	-.0000000042
PCB_4	-.0000055419	-.0000043544	-.0000001638	-.0000033528	-.0000023990
PCB_10	-.0000002427	-.0000001885	-.0000000072	-.0000001492	-.0000001061
PCB_9	-.0000000043	-.0000000060	-.0000000002	-.0000000091	-.0000000046
PCB_7	-.0000000107	-.0000000100	-.0000000004	-.0000000090	-.0000000057
PCB_6	-.0000001051	-.0000000917	-.0000000035	-.0000001021	-.0000000616
PCB_5	-.0000000004	-.0000000013	-.0000000000	-.0000000028	-.0000000012
PCB_8	-.0000001387	-.0000001565	-.0000000054	-.0000001860	-.0000001025
PCB_12_13	-.0000002630	-.0000002078	-.0000000077	-.0000001579	-.0000001136
PCB_15	-.0000002463	-.0000002223	-.0000000078	-.0000001977	-.0000001280
PCB_19	-.0000026290	-.0000020213	-.0000000773	-.0000016011	-.0000011446
PCB_18_30	0.0000000297	0.0000000419	-.0000000003	-.0000001896	-.0000000794
PCB_17	-.0000018536	-.0000013802	-.0000000542	-.0000011742	-.0000008297
PCB_27	-.0000068685	-.0000045833	-.0000001944	-.0000039770	-.0000029118
PCB_24	0.0000000177	0.0000000128	0.0000000005	0.0000000130	0.0000000088
PCB_16	0.0000001822	0.0000001042	0.0000000044	0.0000000332	0.0000000466
PCB_32	-.0000008513	-.0000005893	-.0000000248	-.0000005688	-.0000003937
PCB_34	-.0000000231	-.0000000168	-.0000000007	-.0000000158	-.0000000109
PCB_23	0.0000000008	0.0000000006	0.0000000000	0.0000000004	0.0000000003
PCB_26_29	-.0000005677	-.0000002024	-.0000000144	-.0000003794	-.0000002712
PCB_25	-.0000005814	-.0000003427	-.0000000161	-.0000003636	-.0000002609
PCB_31	0.0000000916	0.0000000718	0.0000000019	-.0000000696	-.0000000160
PCB_20_28	0.0000000691	-.0000000194	0.0000000003	-.0000001666	-.0000000630
PCB_21_33	0.0000001739	0.0000001180	0.0000000047	0.0000000767	0.0000000637
PCB_22	0.0000002831	0.0000002014	0.0000000079	0.0000001401	0.0000001103
PCB_39	0.0000000039	0.0000000024	0.0000000001	0.0000000029	0.0000000019
PCB_38	-.0000000080	-.0000000026	-.0000000002	-.0000000059	-.0000000040
PCB_35	0.0000000129	0.0000000093	0.0000000004	0.0000000082	0.0000000058
PCB_37	0.0000000810	0.0000000435	0.0000000020	0.0000000163	0.0000000205
PCB_54	-.0000002392	-.0000001623	-.0000000068	-.0000001463	-.0000001051
PCB_50_53	-.0000051329	-.0000029446	-.0000001402	-.0000028396	-.0000021265
PCB_45_51	-.0000016118	-.0000011004	-.0000000453	-.0000009054	-.0000006743
PCB_46	-.0000003483	-.0000001760	-.0000000094	-.0000002009	-.0000001480
PCB_52	-.0000065864	-.0000039363	-.0000001802	-.0000039113	-.0000028725
PCB_73	0.0000000453	0.0000000026	0.0000000008	-.0000000082	0.0000000045
PCB_43	-.0000000308	-.0000000212	-.0000000008	-.0000000132	-.0000000113
PCB_49_69	-.0000068675	-.0000039038	-.0000001886	-.0000043643	-.0000031186
PCB_48	0.0000002646	0.0000001677	0.0000000075	0.0000001780	0.0000001237
PCB_44_47_65	-.0000059872	-.0000040416	-.0000001674	-.0000033724	-.0000025153
PCB_59_62_75	-.0000004377	-.0000000426	-.0000000102	-.0000002611	-.0000001933

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195
PCB_1	-.0000000354	-.0000001043	-.0000000540	-.0000001938	-.0000000664
PCB_2	0.0000000001	0.0000000004	0.0000000001	0.0000000004	0.0000000001
PCB_3	-.0000000025	-.0000000073	-.0000000038	-.0000000139	-.0000000048
PCB_4	-.0000013930	-.0000040243	-.0000021158	-.0000077498	-.0000026950
PCB_10	-.0000000616	-.0000001796	-.0000000935	-.0000003408	-.0000001174
PCB_9	-.0000000028	-.0000000125	-.0000000043	-.0000000120	-.0000000007
PCB_7	-.0000000034	-.0000000115	-.0000000051	-.0000000173	-.0000000046
PCB_6	-.0000000363	-.0000001324	-.0000000555	-.0000001805	-.0000000421
PCB_5	-.0000000008	-.0000000040	-.0000000012	-.0000000028	0.0000000004
PCB_8	-.0000000614	-.0000002498	-.0000000947	-.0000002874	-.0000000440
PCB_12_13	-.0000000659	-.0000001888	-.0000001000	-.0000003682	-.0000001291
PCB_15	-.0000000749	-.0000002477	-.0000001140	-.0000003954	-.0000001127
PCB_19	-.0000006633	-.0000019211	-.0000010059	-.0000036830	-.0000012801
PCB_18_30	-.0000000461	-.0000002716	-.0000000684	-.0000001454	0.0000000493
PCB_17	-.0000004794	-.0000014141	-.0000007248	-.0000026384	-.0000009010
PCB_27	-.0000016715	-.0000047107	-.0000025203	-.0000093140	-.0000033790
PCB_24	0.0000000051	0.0000000160	0.0000000076	0.0000000270	0.0000000085
PCB_16	0.0000000257	0.0000000204	0.0000000380	0.0000001823	0.0000001052
PCB_32	-.0000002270	-.0000006926	-.0000003427	-.0000012258	-.0000004047
PCB_34	-.0000000063	-.0000000192	-.0000000095	-.0000000341	-.0000000112
PCB_23	0.0000000002	0.0000000004	0.0000000003	0.0000000010	0.0000000004
PCB_26_29	-.0000001505	-.0000004478	-.0000002203	-.0000008071	-.0000002869
PCB_25	-.0000001484	-.0000004327	-.0000002218	-.0000008126	-.0000002870
PCB_31	-.0000000094	-.0000001097	-.0000000135	0.0000000121	0.0000000644
PCB_20_28	-.0000000380	-.0000002427	-.0000000571	-.0000001155	0.0000000619
PCB_21_33	0.0000000363	0.0000000841	0.0000000545	0.0000002171	0.0000000918
PCB_22	0.0000000632	0.0000001589	0.0000000950	0.0000003687	0.0000001466
PCB_39	0.0000000011	0.0000000036	0.0000000017	0.0000000059	0.0000000018
PCB_38	-.0000000022	-.0000000072	-.0000000033	-.0000000116	-.0000000037
PCB_35	0.0000000034	0.0000000099	0.0000000051	0.0000000184	0.0000000063
PCB_37	0.0000000115	0.0000000128	0.0000000175	0.0000000781	0.0000000436
PCB_54	-.0000000603	-.0000001746	-.0000000909	-.0000003332	-.0000001174
PCB_50_53	-.0000012094	-.0000033207	-.0000018129	-.0000067585	-.0000025486
PCB_45_51	-.0000003863	-.0000010597	-.0000005811	-.0000021807	-.0000008101
PCB_46	-.0000000838	-.0000002370	-.0000001253	-.0000004604	-.0000001703
PCB_52	-.0000016303	-.0000045907	-.0000024327	-.0000090668	-.0000033193
PCB_73	0.0000000018	-.0000000184	0.0000000022	0.0000000254	0.0000000283
PCB_43	-.0000000064	-.0000000140	-.0000000095	-.0000000391	-.0000000170
PCB_49_69	-.0000017699	-.0000051994	-.0000026404	-.0000096518	-.0000033902
PCB_48	0.0000000708	0.0000002156	0.0000001063	0.0000003817	0.0000001273
PCB_44_47_65	-.0000014383	-.0000039371	-.0000021596	-.0000081258	-.0000030268
PCB_59_62_75	-.0000001056	-.0000003053	-.0000001537	-.0000005571	-.0000002135

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_205	PCB_208	PCB_207	PCB_206
PCB_1	-.0000000185	-.0000000090	-.0000000121	-.0000000056	-.0000000261
PCB_2	0.0000000001	0.0000000000	0.0000000001	0.0000000000	0.0000000001
PCB_3	-.0000000013	-.0000000006	-.0000000008	-.0000000004	-.0000000018
PCB_4	-.0000007207	-.0000003698	-.0000004618	-.0000002172	-.0000010114
PCB_10	-.0000000320	-.0000000160	-.0000000208	-.0000000097	-.0000000452
PCB_9	-.0000000021	0.0000000001	-.0000000018	-.0000000007	-.0000000032
PCB_7	-.0000000020	-.0000000005	-.0000000014	-.0000000006	-.0000000029
PCB_6	-.0000000229	-.0000000045	-.0000000173	-.0000000073	-.0000000338
PCB_5	-.0000000007	0.0000000001	-.0000000006	-.0000000002	-.0000000010
PCB_8	-.0000000431	-.0000000025	-.0000000340	-.0000000137	-.0000000642
PCB_12_13	-.0000000339	-.0000000178	-.0000000216	-.0000000102	-.0000000475
PCB_15	-.0000000437	-.0000000141	-.0000000308	-.0000000135	-.0000000631
PCB_19	-.0000003423	-.0000001759	-.0000002213	-.0000001039	-.0000004829
PCB_18_30	-.0000000417	0.0000000123	-.0000000426	-.0000000156	-.0000000712
PCB_17	-.0000002492	-.0000001233	-.0000001655	-.0000000769	-.0000003562
PCB_27	-.0000008250	-.0000004734	-.0000005372	-.0000002557	-.0000011796
PCB_24	0.0000000028	0.0000000011	0.0000000020	0.0000000009	0.0000000040
PCB_16	0.0000000048	0.0000000170	-.0000000016	0.0000000009	0.0000000040
PCB_32	-.0000001200	-.0000000545	-.0000000830	-.0000000378	-.0000001746
PCB_34	-.0000000033	-.0000000015	-.0000000023	-.0000000011	-.0000000049
PCB_23	0.0000000001	0.0000000001	0.0000000000	0.0000000000	0.0000000001
PCB_26_29	-.0000000716	-.0000000410	-.0000000549	-.0000000252	-.0000001128
PCB_25	-.0000000736	-.0000000402	-.0000000511	-.0000000238	-.0000001088
PCB_31	-.0000000158	0.0000000121	-.0000000194	-.0000000065	-.0000000294
PCB_20_28	-.0000000391	0.0000000140	-.0000000384	-.0000000139	-.0000000643
PCB_21_33	0.0000000153	0.0000000137	0.0000000082	0.0000000045	0.0000000207
PCB_22	0.0000000287	0.0000000214	0.0000000166	0.0000000085	0.0000000395
PCB_39	0.0000000006	0.0000000002	0.0000000004	0.0000000002	0.0000000009
PCB_38	-.0000000012	-.0000000005	-.0000000009	-.0000000004	-.0000000018
PCB_35	0.0000000017	0.0000000009	0.0000000012	0.0000000005	0.0000000025
PCB_37	0.0000000027	0.0000000069	-.0000000001	0.0000000006	0.0000000027
PCB_54	-.0000000304	-.0000000163	-.0000000203	-.0000000095	-.0000000439
PCB_50_53	-.0000005707	-.0000003632	-.0000003752	-.0000001810	-.0000008283
PCB_45_51	-.0000001867	-.0000001150	-.0000001188	-.0000000575	-.0000002653
PCB_46	-.0000000399	-.0000000241	-.0000000275	-.0000000130	-.0000000592
PCB_52	-.0000007857	-.0000004720	-.0000005303	-.0000002522	-.0000011521
PCB_73	-.0000000032	0.0000000050	-.0000000038	-.0000000011	-.0000000052
PCB_43	-.0000000026	-.0000000026	-.0000000013	-.0000000008	-.0000000035
PCB_49_69	-.0000008790	-.0000004740	-.0000006180	-.0000002867	-.0000013081
PCB_48	0.0000000368	0.0000000173	0.0000000260	0.0000000118	0.0000000544
PCB_44_47_65	-.0000006917	-.0000004312	-.0000004418	-.0000002142	-.0000009860
PCB_59_62_75	-.0000000459	-.0000000310	-.0000000373	-.0000000173	-.0000000759

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_209
PCB_1	-.0000000120
PCB_2	0.0000000001
PCB_3	-.0000000008
PCB_4	-.0000004515
PCB_10	-.0000000204
PCB_9	-.0000000020
PCB_7	-.0000000015
PCB_6	-.0000000183
PCB_5	-.0000000007
PCB_8	-.0000000365
PCB_12_13	-.0000000210
PCB_15	-.0000000316
PCB_19	-.0000002173
PCB_18_30	-.0000000498
PCB_17	-.0000001648
PCB_27	-.0000005292
PCB_24	0.0000000020
PCB_16	-.0000000040
PCB_32	-.0000000843
PCB_34	-.0000000023
PCB_23	0.0000000000
PCB_26_29	-.0000000581
PCB_25	-.0000000518
PCB_31	-.0000000237
PCB_20_28	-.0000000445
PCB_21_33	0.0000000071
PCB_22	0.0000000153
PCB_39	0.0000000005
PCB_38	-.0000000010
PCB_35	0.0000000012
PCB_37	-.0000000011
PCB_54	-.0000000202
PCB_50_53	-.0000003712
PCB_45_51	-.0000001156
PCB_46	-.0000000278
PCB_52	-.0000005313
PCB_73	-.0000000046
PCB_43	-.0000000011
PCB_49_69	-.0000006314
PCB_48	0.0000000266
PCB_44_47_65	-.0000004306
PCB_59_62_75	-.0000000403

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_42	PCB 42	0.0000000432	0.0000000008	0.0000000012
PCB_40_41_71	PCB 40/41/71	0.0000001458	0.0000000005	0.0000000132
PCB_64	PCB 64	-.0000001142	-.0000000010	-.0000000168
PCB_72	PCB 72	0.0000000145	-.0000000006	-.0000000045
PCB_68	PCB 68	0.0000000499	-.0000000003	0.0000000016
PCB_57	PCB 57	-.0000000097	-.0000000003	-.0000000039
PCB_58	PCB 58	-.0000000025	-.0000000000	-.0000000007
PCB_67	PCB 67	-.0000000184	-.0000000002	-.0000000037
PCB_63	PCB 63	0.0000000099	-.0000000001	0.0000000001
PCB_61_70_74_76	PCB 61/70/74/76	0.0000003707	-.0000000001	0.0000000395
PCB_66	PCB 66	0.0000003541	-.0000000008	0.0000000290
PCB_56	PCB 56	-.0000001202	0.0000000003	-.0000000087
PCB_60	PCB 60	-.0000000420	0.0000000001	-.0000000025
PCB_79	PCB 79	0.0000000113	0.0000000001	0.0000000017
PCB_81	PCB 81	-.0000000019	0.0000000000	-.0000000001
PCB_77	PCB 77	-.0000000497	0.0000000000	-.0000000041
PCB_104	PCB 104	0.0000000039	-.0000000000	0.0000000003
PCB_96	PCB 96	0.0000000025	-.0000000000	-.0000000003
PCB_103	PCB 103	0.0000000112	-.0000000002	-.0000000009
PCB_94	PCB 94	0.0000000402	-.0000000000	0.0000000033
PCB_95	PCB 95	-.0000001691	0.0000000062	-.0000000199
PCB_93_98_100_102	PCB 93/98/100/102	0.0000000925	0.0000000003	0.0000000090
PCB_88_91	PCB 88/91	-.0000000328	-.0000000002	-.0000000087
PCB_84	PCB 84	0.0000000086	0.0000000008	0.0000000023
PCB_89	PCB 89	-.0000000204	0.0000000001	-.0000000012
PCB_121	PCB 121	0.0000000011	-.0000000000	-.0000000000
PCB_92	PCB 92	-.0000000146	-.0000000009	-.0000000133
PCB_90_101_113	PCB 90/101/113	0.0000010102	0.0000000016	0.0000000994
PCB_83	PCB 83	-.0000000507	-.0000000002	-.0000000065
PCB_99	PCB 99	0.0000008086	-.0000000012	0.0000000562
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.0000007450	0.0000000031	0.0000000858
PCB_85_117_116	PCB 85/117/116	0.0000001207	0.0000000002	0.0000000141
PCB_110_115	PCB 110/115	0.0000002911	0.0000000029	0.0000000251
PCB_82	PCB 82	0.0000000224	0.0000000006	0.0000000068
PCB_111	PCB 111	0.0000000002	-.0000000000	-.0000000004
PCB_120	PCB 120	-.0000000038	-.0000000001	-.0000000016
PCB_107_124	PCB 107/124	0.0000000218	0.0000000001	0.0000000029
PCB_109	PCB 109	0.0000000862	-.0000000003	0.0000000051
PCB_123	PCB 123	-.0000000139	0.0000000001	-.0000000010
PCB_118	PCB 118	0.0000019091	0.0000000018	0.0000001789
PCB_122	PCB 122	-.0000000008	0.0000000001	0.0000000004
PCB_114	PCB 114	0.0000000266	0.0000000000	0.0000000033

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_10	PCB_9	PCB_7	PCB_6
PCB_42	0.0000023875	0.0000000932	-.0000000404	-.0000000137	-.0000002048
PCB_40_41_71	0.0000069320	0.0000002906	-.0000000137	0.0000000064	0.0000000017
PCB_64	-.0000056587	-.0000002263	0.0000000081	-.0000000098	-.0000000015
PCB_72	-.0000000386	0.0000000097	0.0000000011	-.0000000022	0.0000000253
PCB_68	0.0000017841	0.0000000823	0.0000000025	0.0000000030	0.0000000468
PCB_57	-.0000007756	-.0000000273	0.0000000004	-.0000000025	0.0000000027
PCB_58	-.0000001458	-.0000000055	-.0000000005	-.0000000007	-.0000000033
PCB_67	-.0000009483	-.0000000367	-.0000000001	-.0000000027	-.0000000061
PCB_63	0.0000003486	0.0000000169	0.0000000016	0.0000000009	0.0000000164
PCB_61_70_74_76	0.0000167452	0.0000007170	0.0000000460	0.0000000510	0.0000004593
PCB_66	0.0000150093	0.0000006564	0.0000000350	0.0000000395	0.0000004026
PCB_56	-.0000047178	-.0000002081	-.0000000095	-.0000000116	-.0000001233
PCB_60	-.0000015607	-.0000000689	-.0000000000	-.0000000024	-.0000000244
PCB_79	0.0000005851	0.0000000230	-.0000000021	0.0000000005	-.0000000074
PCB_81	-.0000000698	-.0000000032	-.0000000002	-.0000000002	-.0000000023
PCB_77	-.0000019492	-.0000000848	-.0000000033	-.0000000048	-.0000000458
PCB_104	0.0000001607	0.0000000070	0.0000000002	0.0000000003	0.0000000032
PCB_96	0.0000000562	0.0000000031	-.0000000010	-.0000000005	-.0000000032
PCB_103	0.0000002970	0.0000000162	0.0000000000	-.0000000003	0.0000000099
PCB_94	0.0000016847	0.0000000726	0.0000000011	0.0000000034	0.0000000283
PCB_95	-.0000046401	-.0000002793	-.0000002731	-.0000001217	-.0000016708
PCB_93_98_100_102	0.0000042198	0.0000001771	-.0000000041	0.0000000061	0.0000000251
PCB_88_91	-.0000014232	-.0000000563	-.0000000187	-.0000000131	-.0000001134
PCB_84	0.0000011845	0.0000000392	-.0000000252	-.0000000078	-.0000001427
PCB_89	-.0000007426	-.0000000340	-.0000000034	-.0000000024	-.0000000316
PCB_121	0.0000000322	0.0000000016	0.0000000001	0.0000000000	0.0000000014
PCB_92	-.0000008672	-.0000000202	-.0000000160	-.0000000142	-.0000000732
PCB_90_101_113	0.0000457859	0.0000019399	0.0000000161	0.0000000912	0.0000006306
PCB_83	-.0000023099	-.0000000952	-.0000000011	-.0000000055	-.0000000295
PCB_99	0.0000334926	0.0000014646	0.0000000206	0.0000000606	0.0000005905
PCB_86_87_97_108_119_125	0.0000355729	0.0000014743	-.0000000179	0.0000000639	0.0000002692
PCB_85_117_116	0.0000056812	0.0000002387	0.0000000085	0.0000000149	0.0000001095
PCB_110_115	0.0000154673	0.0000006234	-.0000001120	-.0000000200	-.0000004821
PCB_82	0.0000015476	0.0000000561	-.0000000026	0.0000000038	-.0000000122
PCB_111	-.0000000383	-.0000000008	-.0000000000	-.0000000003	0.0000000007
PCB_120	-.0000002981	-.0000000103	-.0000000000	-.0000000011	0.0000000003
PCB_107_124	0.0000011574	0.0000000472	-.0000000011	0.0000000019	0.0000000042
PCB_109	0.0000033362	0.0000001495	0.0000000074	0.0000000079	0.0000000942
PCB_123	-.0000004576	-.0000000210	-.0000000030	-.0000000020	-.0000000250
PCB_118	0.0000804329	0.0000034349	0.0000000607	0.0000001742	0.0000013559
PCB_122	0.0000000513	0.0000000010	-.0000000008	-.0000000001	-.0000000061
PCB_114	0.0000012418	0.0000000524	0.0000000033	0.0000000039	0.0000000320

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_5	PCB_8	PCB_12_13	PCB_15	PCB_19
PCB_42	-.0000000173	-.0000006416	0.0000001293	-.0000001882	0.0000012028
PCB_40_41_71	-.0000000076	-.0000001303	0.0000003419	0.0000002037	0.0000032082
PCB_64	0.0000000043	0.0000000080	-.0000002755	-.0000001936	-.0000023656
PCB_72	0.0000000002	-.0000000177	-.0000000035	-.0000000109	0.0000001881
PCB_68	0.0000000004	0.0000000493	0.0000000844	0.0000000830	0.0000009213
PCB_57	0.0000000002	-.0000000220	-.0000000383	-.0000000387	-.0000002527
PCB_58	-.0000000002	-.0000000134	-.0000000069	-.0000000107	-.0000000491
PCB_67	0.0000000001	-.0000000282	-.0000000455	-.0000000438	-.0000003616
PCB_63	0.0000000005	0.0000000257	0.0000000164	0.0000000245	0.0000001903
PCB_61_70_74_76	0.0000000142	0.0000010100	0.0000007993	0.0000010603	0.0000075210
PCB_66	0.0000000099	0.0000007564	0.0000007158	0.0000008788	0.0000070308
PCB_56	-.0000000027	-.0000002125	-.0000002228	-.0000002543	-.0000022356
PCB_60	0.0000000004	-.0000000176	-.0000000739	-.0000000580	-.0000007556
PCB_79	-.0000000010	-.0000000216	0.0000000289	0.0000000112	0.0000002456
PCB_81	-.0000000001	-.0000000037	-.0000000033	-.0000000040	-.0000000346
PCB_77	-.0000000009	-.0000000818	-.0000000918	-.0000001001	-.0000009022
PCB_104	0.0000000000	0.0000000049	0.0000000077	0.0000000078	0.0000000753
PCB_96	-.0000000004	-.0000000182	0.0000000029	-.0000000063	0.0000000457
PCB_103	-.0000000002	-.0000000069	0.0000000141	0.0000000077	0.0000002041
PCB_94	0.0000000000	0.0000000403	0.0000000807	0.0000000766	0.0000007834
PCB_95	-.0000001091	-.0000045042	-.0000001442	-.0000021616	-.0000020186
PCB_93_98_100_102	-.0000000028	-.0000000033	0.0000002054	0.0000001508	0.0000019197
PCB_88_91	-.0000000077	-.0000003662	-.0000000607	-.0000001982	-.0000004337
PCB_84	-.0000000106	-.0000003882	0.0000000678	-.0000001168	0.0000005062
PCB_89	-.0000000012	-.0000000615	-.0000000344	-.0000000521	-.0000003634
PCB_121	0.0000000000	0.0000000013	0.0000000015	0.0000000017	0.0000000191
PCB_92	-.0000000074	-.0000003631	-.0000000318	-.0000001601	0.0000000706
PCB_90_101_113	-.0000000055	0.0000009457	0.0000022142	0.0000020837	0.0000208253
PCB_83	-.0000000000	-.0000000644	-.0000001106	-.0000001071	-.0000009893
PCB_99	-.0000000013	0.0000007054	0.0000016090	0.0000015096	0.0000160145
PCB_86_87_97_108_119_125	-.0000000160	0.0000003190	0.0000017319	0.0000014383	0.0000157442
PCB_85_117_116	0.0000000020	0.0000002345	0.0000002736	0.0000003123	0.0000025095
PCB_110_115	-.0000000502	-.0000016259	0.0000007923	-.0000001127	0.0000072205
PCB_82	-.0000000012	0.0000000085	0.0000000765	0.0000000600	0.0000005427
PCB_111	-.0000000000	-.0000000040	-.0000000019	-.0000000031	-.0000000018
PCB_120	-.0000000000	-.0000000128	-.0000000145	-.0000000162	-.0000000906
PCB_107_124	-.0000000008	0.0000000022	0.0000000571	0.0000000458	0.0000005049
PCB_109	0.0000000020	0.0000001521	0.0000001579	0.0000001836	0.0000016261
PCB_123	-.0000000011	-.0000000551	-.0000000204	-.0000000375	-.0000002163
PCB_118	0.0000000061	0.0000022345	0.0000038391	0.0000037383	0.0000366112
PCB_122	-.0000000003	-.0000000105	0.0000000030	-.0000000018	0.0000000077
PCB_114	0.0000000010	0.0000000756	0.0000000593	0.0000000787	0.0000005426

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_17	PCB_27	PCB_24	PCB_16
PCB_42	-.0000010640	0.0000007702	0.0000055201	-.0000000004	-.0000005992
PCB_40_41_71	-.0000007443	0.0000020870	0.0000079347	-.0000000145	-.0000004435
PCB_64	0.0000010602	-.0000011779	-.0000031138	0.0000000005	0.0000002870
PCB_72	0.0000004698	0.0000004217	0.0000027294	-.0000000096	-.0000000172
PCB_68	0.0000001814	0.0000007591	0.0000031605	-.0000000095	-.0000000567
PCB_57	0.0000002767	-.0000000165	0.0000005992	-.0000000030	0.0000000196
PCB_58	0.0000000323	-.0000000086	0.0000001072	-.0000000004	-.0000000030
PCB_67	0.0000002115	-.0000001297	-.0000000087	-.0000000012	0.0000000256
PCB_63	0.0000000896	0.0000001756	0.0000006943	-.0000000027	0.0000000010
PCB_61_70_74_76	-.0000000370	0.0000048986	0.0000128992	-.0000000445	-.0000000816
PCB_66	0.0000004028	0.0000049641	0.0000158324	-.0000000513	-.0000001936
PCB_56	-.0000001366	-.0000016003	-.0000055267	0.0000000166	0.0000000837
PCB_60	0.0000000107	-.0000005473	-.0000022161	0.0000000053	0.0000000683
PCB_79	-.0000001436	0.0000001185	0.0000003847	0.0000000002	-.0000000451
PCB_81	-.0000000066	-.0000000270	-.0000001008	0.0000000003	0.0000000009
PCB_77	0.0000000076	-.0000006122	-.0000020493	0.0000000056	0.0000000392
PCB_104	-.0000000014	0.0000000522	0.0000001813	-.0000000005	-.0000000046
PCB_96	0.0000000113	0.0000000540	0.0000003719	-.0000000008	-.0000000170
PCB_103	0.0000001270	0.0000002310	0.0000012242	-.0000000038	-.0000000219
PCB_94	-.0000000488	0.0000005311	0.0000018505	-.0000000047	-.0000000556
PCB_95	-.0000072552	-.0000023607	0.0000084564	0.0000000767	-.0000031333
PCB_93_98_100_102	-.0000004050	0.0000012149	0.0000042849	-.0000000082	-.0000002144
PCB_88_91	0.0000000198	-.0000000421	0.0000021261	-.0000000023	-.0000002029
PCB_84	-.0000008648	0.0000001755	0.0000016332	0.0000000051	-.0000003448
PCB_89	-.0000000986	-.0000002839	-.0000009508	0.0000000036	-.0000000074
PCB_121	0.0000000100	0.0000000191	0.0000000878	-.0000000003	-.0000000008
PCB_92	0.0000005939	0.0000006677	0.0000057536	-.0000000162	-.0000002301
PCB_90_101_113	-.0000026689	0.0000134504	0.0000436666	-.0000001048	-.0000015897
PCB_83	0.0000002578	-.0000005483	-.0000014280	0.0000000024	0.0000000678
PCB_99	-.0000000514	0.0000114933	0.0000424304	-.0000001140	-.0000011795
PCB_86_87_97_108_119_125	-.0000038582	0.0000094101	0.0000292635	-.0000000537	-.0000015332
PCB_85_117_116	-.0000003046	0.0000015429	0.0000041038	-.0000000113	-.0000001073
PCB_110_115	-.0000038401	0.0000044450	0.0000217366	-.0000000148	-.0000019812
PCB_82	-.0000005222	0.0000001043	-.0000005763	0.0000000047	-.0000000671
PCB_111	0.0000000345	0.0000000212	0.0000001765	-.0000000006	-.0000000015
PCB_120	0.0000001148	0.0000000068	0.0000003183	-.0000000014	0.0000000043
PCB_107_124	-.0000001557	0.0000002903	0.0000008429	-.0000000014	-.0000000550
PCB_109	0.0000002114	0.0000012307	0.0000044562	-.0000000141	-.0000000581
PCB_123	-.0000000708	-.0000001617	-.0000004701	0.0000000021	-.0000000169
PCB_118	-.0000037418	0.0000237121	0.0000779337	-.0000001884	-.0000024190
PCB_122	-.0000000604	-.0000000206	-.0000001379	0.0000000008	-.0000000097
PCB_114	-.0000000383	0.0000003311	0.0000007596	-.0000000026	-.0000000052

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25
PCB_42	0.0000002305	0.0000000062	-.0000000013	0.0000007211	0.0000004798
PCB_40_41_71	0.0000007596	0.0000000227	-.0000000014	0.0000003272	0.0000005523
PCB_64	-.0000001763	-.0000000061	0.0000000011	0.0000010607	0.0000001438
PCB_72	0.0000003970	0.0000000100	-.0000000000	0.0000010755	0.0000004833
PCB_68	0.0000004215	0.0000000114	-.0000000003	0.0000005717	0.0000003616
PCB_57	0.0000001107	0.0000000024	0.0000000001	0.0000005232	0.0000001913
PCB_58	0.0000000135	0.0000000003	0.0000000000	0.0000000911	0.0000000327
PCB_67	0.0000000264	0.0000000005	0.0000000001	0.0000003637	0.0000001081
PCB_63	0.0000001071	0.0000000030	-.0000000000	0.0000001621	0.0000000924
PCB_61_70_74_76	0.0000018876	0.0000000576	-.0000000016	-.0000006183	0.0000006674
PCB_66	0.0000022154	0.0000000643	-.0000000017	0.0000009830	0.0000012971
PCB_56	-.0000007508	-.0000000208	0.0000000006	-.0000004529	-.0000004774
PCB_60	-.0000002642	-.0000000069	0.0000000003	-.0000002438	-.0000002029
PCB_79	0.0000000121	0.0000000005	-.0000000001	-.0000001014	-.0000000107
PCB_81	-.0000000143	-.0000000004	0.0000000000	-.0000000144	-.0000000106
PCB_77	-.0000002686	-.0000000073	0.0000000003	-.0000000778	-.0000001491
PCB_104	0.0000000229	0.0000000006	-.0000000000	0.0000000114	0.0000000144
PCB_96	0.0000000390	0.0000000010	-.0000000000	0.0000001082	0.0000000526
PCB_103	0.0000001640	0.0000000043	-.0000000001	0.0000003618	0.0000001805
PCB_94	0.0000002238	0.0000000063	-.0000000003	0.0000000891	0.0000001382
PCB_95	-.0000019326	-.0000000609	-.0000000054	0.0000012313	0.0000004173
PCB_93_98_100_102	0.0000004328	0.0000000127	-.0000000008	0.0000000164	0.0000002543
PCB_88_91	0.0000001233	0.0000000030	-.0000000002	0.0000011623	0.0000004454
PCB_84	-.0000000987	-.0000000020	-.0000000007	-.0000001063	0.0000000282
PCB_89	-.0000001515	-.0000000042	0.0000000001	-.0000001267	-.0000000994
PCB_121	0.0000000126	0.0000000003	-.0000000000	0.0000000231	0.0000000123
PCB_92	0.0000006568	0.0000000181	-.0000000002	0.0000024650	0.0000010581
PCB_90_101_113	0.0000050296	0.0000001494	-.0000000070	-.0000000148	0.0000026379
PCB_83	-.0000001455	-.0000000044	0.0000000003	0.0000003201	0.0000000092
PCB_99	0.0000052478	0.0000001480	-.0000000051	0.0000040661	0.0000037733
PCB_86_87_97_108_119_125	0.0000028933	0.0000000895	-.0000000060	-.0000022134	0.0000010688
PCB_85_117_116	0.0000005174	0.0000000162	-.0000000007	-.0000004114	0.0000001387
PCB_110_115	0.0000013031	0.0000000396	-.0000000049	0.0000012682	0.0000015054
PCB_82	-.0000001562	-.0000000034	-.0000000003	-.0000008364	-.0000002866
PCB_111	0.0000000254	0.0000000006	0.0000000000	0.0000000819	0.0000000348
PCB_120	0.0000000530	0.0000000012	0.0000000000	0.0000002352	0.0000000888
PCB_107_124	0.0000000737	0.0000000026	-.0000000002	-.0000001101	0.0000000169
PCB_109	0.0000006171	0.0000000171	-.0000000004	0.0000005537	0.0000004416
PCB_123	-.0000000872	-.0000000023	0.0000000000	-.0000000365	-.0000000429
PCB_118	0.0000093104	0.0000002627	-.0000000119	0.0000001127	0.0000047467
PCB_122	-.0000000305	-.0000000007	-.0000000000	-.0000000798	-.0000000330
PCB_114	0.0000001107	0.0000000035	-.0000000001	-.0000001246	0.0000000141

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_31	PCB_20_28	PCB_21_33	PCB_22	PCB_39
PCB_42	-.0000006797	-.0000011744	-.0000002896	-.0000003707	-.0000000003
PCB_40_41_71	-.0000005139	-.0000005989	-.0000002990	-.0000004498	-.0000000023
PCB_64	0.0000006547	0.0000006122	0.0000001850	0.0000002879	-.0000000020
PCB_72	0.0000002465	0.0000001587	-.0000000275	-.0000000374	-.0000000035
PCB_68	0.0000000732	0.0000000633	-.0000000634	-.0000001025	-.0000000025
PCB_57	0.0000001554	0.0000001024	0.0000000104	0.0000000204	-.0000000014
PCB_58	0.0000000179	0.0000000034	-.0000000006	0.0000000009	-.0000000002
PCB_67	0.0000001247	0.0000000885	0.0000000182	0.0000000322	-.0000000008
PCB_63	0.0000000457	0.0000000558	-.0000000089	-.0000000167	-.0000000007
PCB_61_70_74_76	-.0000001449	0.0000006711	-.0000003063	-.0000006041	-.0000000063
PCB_66	0.0000000791	0.0000005839	-.0000003514	-.0000006375	-.0000000101
PCB_56	-.0000000215	-.0000001208	0.0000001202	0.0000002101	0.0000000036
PCB_60	0.0000000307	0.0000000512	0.0000000569	0.0000000889	0.0000000013
PCB_79	-.0000000882	-.0000000987	-.0000000254	-.0000000369	0.0000000003
PCB_81	-.0000000028	-.0000000040	0.0000000018	0.0000000032	0.0000000001
PCB_77	0.0000000270	-.0000000100	0.0000000488	0.0000000846	0.0000000011
PCB_104	-.0000000027	-.0000000004	-.0000000047	-.0000000079	-.0000000001
PCB_96	0.0000000026	-.0000000186	-.0000000097	-.0000000125	-.0000000003
PCB_103	0.0000000618	0.0000000333	-.0000000209	-.0000000307	-.0000000012
PCB_94	-.0000000479	-.0000000295	-.0000000517	-.0000000848	-.0000000009
PCB_95	-.0000043588	-.0000077817	-.0000011616	-.0000012451	0.0000000153
PCB_93_98_100_102	-.0000002809	-.0000002843	-.0000001555	-.0000002412	-.0000000011
PCB_88_91	-.0000000073	-.0000003103	-.0000000809	-.0000000802	-.0000000019
PCB_84	-.0000005212	-.0000007664	-.0000001542	-.0000001941	0.0000000017
PCB_89	-.0000000477	-.0000000797	0.0000000120	0.0000000256	0.0000000009
PCB_121	0.0000000050	0.0000000044	-.0000000013	-.0000000021	-.0000000001
PCB_92	0.0000002970	-.0000000398	-.0000001305	-.0000001573	-.0000000062
PCB_90_101_113	-.0000019989	-.0000012576	-.0000013996	-.0000022943	-.0000000155
PCB_83	0.0000001666	0.0000001119	0.0000000583	0.0000000985	-.0000000002
PCB_99	-.0000004631	-.0000002353	-.0000011091	-.0000017981	-.0000000248
PCB_86_87_97_108_119_125	-.0000025512	-.0000021308	-.0000011590	-.0000018489	-.0000000031
PCB_85_117_116	-.0000002178	-.0000000069	-.0000001308	-.0000002339	-.0000000010
PCB_110_115	-.0000024635	-.0000036097	-.0000010673	-.0000014634	-.0000000013
PCB_82	-.0000002996	-.0000002378	-.0000000355	-.0000000585	0.0000000023
PCB_111	0.0000000184	0.0000000101	-.0000000016	-.0000000017	-.0000000002
PCB_120	0.0000000640	0.0000000399	0.0000000019	0.0000000051	-.0000000006
PCB_107_124	-.0000000987	-.0000000811	-.0000000394	-.0000000623	0.0000000001
PCB_109	0.0000000778	0.0000001427	-.0000000899	-.0000001563	-.0000000033
PCB_123	-.0000000359	-.0000000646	0.0000000014	0.0000000082	0.0000000005
PCB_118	-.0000030225	-.0000018147	-.0000022835	-.0000037965	-.0000000309
PCB_122	-.0000000337	-.0000000335	-.0000000032	-.0000000041	0.0000000003
PCB_114	-.0000000296	0.0000000359	-.0000000207	-.0000000420	-.0000000002

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_38	PCB_35	PCB_37	PCB_54	PCB_50_53
PCB_42	0.0000000049	-.0000000060	-.0000002270	0.0000001587	0.0000057293
PCB_40_41_71	0.0000000009	-.0000000141	-.0000001659	0.0000002627	0.0000055998
PCB_64	0.0000000176	0.0000000063	0.0000001205	-.0000000843	-.0000001650
PCB_72	0.0000000159	-.0000000042	-.0000000053	0.0000001049	0.0000036068
PCB_68	0.0000000083	-.0000000057	-.0000000232	0.0000001150	0.0000028916
PCB_57	0.0000000079	-.0000000006	0.0000000084	0.0000000262	0.0000013294
PCB_58	0.0000000013	-.0000000001	-.0000000006	0.0000000043	0.0000002443
PCB_67	0.0000000054	0.0000000004	0.0000000130	0.0000000044	0.0000006496
PCB_63	0.0000000024	-.0000000014	0.0000000012	0.0000000270	0.0000006595
PCB_61_70_74_76	-.0000000088	-.0000000314	-.0000000282	0.0000004779	0.0000049921
PCB_66	0.0000000141	-.0000000339	-.0000000728	0.0000005824	0.0000101127
PCB_56	-.0000000069	0.0000000111	0.0000000390	-.0000001989	-.0000039209
PCB_60	-.0000000034	0.0000000039	0.0000000306	-.0000000762	-.0000018229
PCB_79	-.0000000019	-.0000000006	-.0000000183	0.0000000098	0.0000001042
PCB_81	-.0000000002	0.0000000002	0.0000000005	-.0000000037	-.0000000828
PCB_77	-.0000000013	0.0000000041	0.0000000198	-.0000000718	-.0000013184
PCB_104	0.0000000002	-.0000000004	-.0000000019	0.0000000064	0.0000001249
PCB_96	0.0000000015	-.0000000005	-.0000000066	0.0000000128	0.0000004531
PCB_103	0.0000000052	-.0000000020	-.0000000077	0.0000000455	0.0000013984
PCB_94	0.0000000011	-.0000000036	-.0000000231	0.0000000642	0.0000012463
PCB_95	-.0000000112	0.0000000141	-.0000012281	0.0000000363	0.0000154967
PCB_93_98_100_102	-.0000000014	-.0000000080	-.0000000844	0.0000001416	0.0000026844
PCB_88_91	0.0000000146	-.0000000012	-.0000000662	0.0000000709	0.0000038466
PCB_84	-.0000000053	-.0000000010	-.0000001272	0.0000000333	0.0000014035
PCB_89	-.0000000021	0.0000000020	-.0000000019	-.0000000364	-.0000007160
PCB_121	0.0000000003	-.0000000002	-.0000000003	0.0000000033	0.0000000923
PCB_92	0.0000000330	-.0000000076	-.0000000621	0.0000002153	0.0000081854
PCB_90_101_113	-.0000000114	-.0000000883	-.0000006179	0.0000015005	0.0000251454
PCB_83	0.0000000050	0.0000000032	0.0000000309	-.0000000447	-.0000002573
PCB_99	0.0000000532	-.0000000809	-.0000004631	0.0000015006	0.0000321490
PCB_86_87_97_108_119_125	-.0000000445	-.0000000589	-.0000006001	0.0000009554	0.0000135393
PCB_85_117_116	-.0000000068	-.0000000096	-.0000000410	0.0000001439	0.0000013654
PCB_110_115	-.0000000004	-.0000000307	-.0000007419	0.0000006566	0.0000180979
PCB_82	-.0000000129	0.0000000004	-.0000000282	-.0000000311	-.0000018302
PCB_111	0.0000000012	-.0000000002	-.0000000004	0.0000000068	0.0000002586
PCB_120	0.0000000035	-.0000000004	0.0000000025	0.0000000134	0.0000006264
PCB_107_124	-.0000000022	-.0000000018	-.0000000198	0.0000000272	0.0000002961
PCB_109	0.0000000082	-.0000000088	-.0000000246	0.0000001632	0.0000034854
PCB_123	-.0000000009	0.0000000011	-.0000000044	-.0000000183	-.0000002881
PCB_118	-.0000000061	-.0000001560	-.0000010612	0.0000026618	0.0000458701
PCB_122	-.0000000013	0.0000000002	-.0000000033	-.0000000061	-.0000002146
PCB_114	-.0000000018	-.0000000020	-.0000000021	0.0000000277	0.0000001125

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_46	PCB_52	PCB_73	PCB_43
PCB_42	0.0000015503	0.0000003749	0.0000068281	-.0000002708	0.0000000611
PCB_40_41_71	0.0000020854	0.0000003060	0.0000072639	-.0000001219	0.0000000599
PCB_64	-.0000009310	0.0000001546	0.0000005693	0.0000000146	-.0000000326
PCB_72	0.0000005595	0.0000003438	0.0000050460	-.0000000574	0.0000000066
PCB_68	0.0000007155	0.0000002313	0.0000039345	-.0000000302	0.0000000121
PCB_57	0.0000000870	0.0000001472	0.0000018993	-.0000000250	-.0000000013
PCB_58	0.0000000207	0.0000000256	0.0000003474	-.0000000071	0.0000000004
PCB_67	-.0000000344	0.0000000859	0.0000010428	-.0000000152	-.0000000023
PCB_63	0.0000001519	0.0000000566	0.0000009681	-.0000000020	0.0000000019
PCB_61_70_74_76	0.0000031600	0.0000001321	0.0000076578	0.0000002125	0.0000000534
PCB_66	0.0000037534	0.0000006353	0.0000144139	0.0000000634	0.0000000646
PCB_56	-.0000012749	-.0000002680	-.0000052402	0.0000000029	-.0000000208
PCB_60	-.0000005157	-.0000001310	-.0000022961	0.0000000253	-.0000000101
PCB_79	0.0000001186	-.0000000109	0.0000000318	-.0000000088	0.0000000047
PCB_81	-.0000000224	-.0000000064	-.0000001123	0.0000000003	-.0000000003
PCB_77	-.0000004753	-.0000000812	-.0000016622	-.0000000003	-.0000000079
PCB_104	0.0000000434	0.0000000079	0.0000001657	-.0000000006	0.0000000009
PCB_96	0.0000000861	0.0000000389	0.0000005943	-.0000000120	0.0000000021
PCB_103	0.0000002697	0.0000001238	0.0000019421	-.0000000223	0.0000000045
PCB_94	0.0000004488	0.0000000752	0.0000016223	-.0000000087	0.0000000094
PCB_95	0.0000033368	0.0000009165	0.0000132030	-.0000015525	0.0000002467
PCB_93_98_100_102	0.0000011086	0.0000001297	0.0000033626	-.0000000443	0.0000000296
PCB_88_91	0.0000005483	0.0000003518	0.0000052727	-.0000001552	0.0000000215
PCB_84	0.0000005914	0.0000000365	0.0000014042	-.0000001312	0.0000000332
PCB_89	-.0000002048	-.0000000561	-.0000010147	-.0000000063	-.0000000018
PCB_121	0.0000000191	0.0000000081	0.0000001299	-.0000000010	0.0000000003
PCB_92	0.0000013634	0.0000007489	0.0000118382	-.0000002095	0.0000000354
PCB_90_101_113	0.0000110787	0.0000011781	0.0000332091	-.0000001270	0.0000002633
PCB_83	-.0000003793	0.0000000341	-.0000001256	-.0000000106	-.0000000095
PCB_99	0.0000101919	0.0000021828	0.0000433014	-.0000002942	0.0000002114
PCB_86_87_97_108_119_125	0.0000078337	0.0000002758	0.0000165179	-.0000001350	0.0000002178
PCB_85_117_116	0.0000010621	-.0000000036	0.0000019202	0.0000000449	0.0000000236
PCB_110_115	0.0000060915	0.0000010071	0.0000220592	-.0000007377	0.0000002214
PCB_82	-.0000000360	-.0000002204	-.0000027346	0.0000000270	0.0000000056
PCB_111	0.0000000357	0.0000000253	0.0000003638	-.0000000048	0.0000000004
PCB_120	0.0000000549	0.0000000669	0.0000009021	-.0000000123	0.0000000001
PCB_107_124	0.0000002426	-.0000000064	0.0000003855	-.0000000036	0.0000000078
PCB_109	0.0000010206	0.0000002577	0.0000048017	-.0000000104	0.0000000164
PCB_123	-.0000000897	-.0000000228	-.0000003833	-.0000000102	0.0000000005
PCB_118	0.0000190190	0.0000023419	0.0000571543	-.0000001545	0.0000003983
PCB_122	-.0000000186	-.0000000238	-.0000003057	0.0000000003	0.0000000007
PCB_114	0.0000001931	-.0000000147	0.0000001970	0.0000000195	0.0000000034

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_48	PCB_44_47_65	PCB_59_62_75	PCB_42
PCB_42	0.0000057129	-.0000001158	0.0000060355	0.0000007704	0.0000016275
PCB_40_41_71	0.0000061493	-.0000002203	0.0000077858	0.0000000766	0.0000010392
PCB_64	0.0000028925	-.0000000479	-.0000030560	0.0000012577	-.0000002949
PCB_72	0.0000064482	-.0000001933	0.0000023707	0.0000011282	0.0000003522
PCB_68	0.0000045433	-.0000001564	0.0000027698	0.0000005350	0.0000002699
PCB_57	0.0000026738	-.0000000731	0.0000004783	0.0000005786	0.0000001177
PCB_58	0.0000004560	-.0000000112	0.0000001076	0.0000001004	0.0000000360
PCB_67	0.0000015941	-.0000000382	0.0000000005	0.0000004022	0.0000000579
PCB_63	0.0000011871	-.0000000414	0.0000006022	0.0000001472	0.0000000365
PCB_61_70_74_76	0.0000065463	-.0000004338	0.0000112141	-.0000015005	-.0000003177
PCB_66	0.0000151220	-.0000006526	0.0000138939	0.0000003106	0.0000004562
PCB_56	-.0000056590	0.0000002303	-.0000047251	-.0000003051	-.0000002487
PCB_60	-.0000024445	0.0000000876	-.0000019348	-.0000002244	-.0000002113
PCB_79	-.0000002521	0.0000000059	0.0000004052	-.0000001183	0.0000000706
PCB_81	-.0000001305	0.0000000049	-.0000000848	-.0000000127	-.0000000051
PCB_77	-.0000016894	0.0000000749	-.0000017241	-.0000000253	-.0000000845
PCB_104	0.0000001675	-.0000000068	0.0000001607	0.0000000059	0.0000000114
PCB_96	0.0000006844	-.0000000191	0.0000003503	0.0000001156	0.0000000719
PCB_103	0.0000023561	-.0000000728	0.0000010977	0.0000003662	0.0000001515
PCB_94	0.0000015758	-.0000000646	0.0000016536	0.0000000345	0.0000001301
PCB_95	0.0000042656	0.0000004228	0.0000133751	0.0000025070	0.0000081632
PCB_93_98_100_102	0.0000026766	-.0000001109	0.0000040578	-.0000001274	0.0000004484
PCB_88_91	0.0000060343	-.0000001298	0.0000024780	0.0000012665	0.0000008501
PCB_84	0.0000000098	0.0000000367	0.0000022420	-.0000001188	0.0000007862
PCB_89	-.0000012271	0.0000000497	-.0000007697	-.0000001003	-.0000000045
PCB_121	0.0000001587	-.0000000052	0.0000000767	0.0000000226	0.0000000079
PCB_92	0.0000141403	-.0000003790	0.0000059130	0.0000025153	0.0000012666
PCB_90_101_113	0.0000278977	-.0000012807	0.0000403698	-.0000018788	0.0000029853
PCB_83	0.0000004902	0.0000000093	-.0000012605	0.0000004033	-.0000000325
PCB_99	0.0000450009	-.0000016854	0.0000383308	0.0000029473	0.0000034071
PCB_86_87_97_108_119_125	0.0000083951	-.0000005442	0.0000279509	-.0000036594	0.0000024205
PCB_85_117_116	0.0000009999	-.0000000977	0.0000037274	-.0000006944	0.0000000301
PCB_110_115	0.0000167730	-.0000004289	0.0000231163	0.0000009303	0.0000048976
PCB_82	-.0000040842	0.0000001119	-.0000003870	-.0000009239	-.0000001056
PCB_111	0.0000004688	-.0000000135	0.0000001564	0.0000000871	0.0000000278
PCB_120	0.0000012301	-.0000000337	0.0000002757	0.0000002557	0.0000000626
PCB_107_124	0.0000000337	-.0000000094	0.0000008633	-.0000001691	0.0000000785
PCB_109	0.0000053941	-.0000002051	0.0000038578	0.0000004430	0.0000002379
PCB_123	-.0000005162	0.0000000255	-.0000003174	-.0000000254	0.0000000379
PCB_118	0.0000505728	-.0000023731	0.0000686188	-.0000024386	0.0000044916
PCB_122	-.0000004529	0.0000000146	-.0000000870	-.0000000866	-.0000000006
PCB_114	0.0000000132	-.0000000179	0.0000006561	-.0000001919	-.0000000480

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_40_41_71	PCB_64	PCB_72	PCB_68	PCB_57
PCB_42	0.0000010392	-.0000002949	0.0000003522	0.0000002699	0.0000001177
PCB_40_41_71	0.0000011551	-.0000005075	0.0000002661	0.0000003356	0.0000000366
PCB_64	-.0000005075	0.0000007548	0.0000003119	0.0000000557	0.0000002037
PCB_72	0.0000002661	0.0000003119	0.0000004327	0.0000002645	0.0000001961
PCB_68	0.0000003356	0.0000000557	0.0000002645	0.0000002061	0.0000001011
PCB_57	0.0000000366	0.0000002037	0.0000001961	0.0000001011	0.0000000973
PCB_58	0.0000000140	0.0000000314	0.0000000340	0.0000000173	0.0000000166
PCB_67	-.0000000126	0.0000001664	0.0000001271	0.0000000556	0.0000000670
PCB_63	0.0000000673	0.0000000336	0.0000000709	0.0000000527	0.0000000285
PCB_61_70_74_76	0.0000013411	-.0000009757	0.0000000433	0.0000004537	-.0000001530
PCB_66	0.0000016829	-.0000004945	0.0000006637	0.0000007873	0.0000001439
PCB_56	-.0000005616	0.0000001241	-.0000002722	-.0000002827	-.0000000760
PCB_60	-.0000002453	0.0000000393	-.0000001307	-.0000001169	-.0000000432
PCB_79	0.0000000720	-.0000000861	-.0000000284	-.0000000036	-.0000000198
PCB_81	-.0000000096	-.0000000007	-.0000000071	-.0000000061	-.0000000026
PCB_77	-.0000002056	0.0000000862	-.0000000698	-.0000000897	-.0000000125
PCB_104	0.0000000204	-.0000000066	0.0000000076	0.0000000086	0.0000000018
PCB_96	0.0000000481	0.0000000185	0.0000000452	0.0000000289	0.0000000195
PCB_103	0.0000001339	0.0000000803	0.0000001514	0.0000001004	0.0000000649
PCB_94	0.0000002150	-.0000000838	0.0000000684	0.0000000833	0.0000000131
PCB_95	0.0000032997	-.0000015331	0.0000005461	0.0000001617	0.0000002138
PCB_93_98_100_102	0.0000005830	-.0000003238	0.0000000893	0.0000001583	-.0000000075
PCB_88_91	0.0000004149	0.0000002679	0.0000004437	0.0000002383	0.0000002063
PCB_84	0.0000004755	-.0000003194	-.0000000129	0.0000000199	-.0000000296
PCB_89	-.0000000785	-.0000000110	-.0000000644	-.0000000580	-.0000000223
PCB_121	0.0000000089	0.0000000050	0.0000000099	0.0000000069	0.0000000041
PCB_92	0.0000008392	0.0000006086	0.0000009702	0.0000005815	0.0000004342
PCB_90_101_113	0.0000055143	-.0000030811	0.0000008544	0.0000016651	-.0000001176
PCB_83	-.0000001759	0.0000002406	0.0000000833	-.0000000047	0.0000000615
PCB_99	0.0000049672	-.0000010403	0.0000022720	0.0000022250	0.0000006638
PCB_86_87_97_108_119_125	0.0000040937	-.0000032527	-.0000002094	0.0000007519	-.0000004949
PCB_85_117_116	0.0000004944	-.0000004448	-.0000000631	0.0000001047	-.0000000893
PCB_110_115	0.0000038355	-.0000016458	0.0000008411	0.0000008911	0.0000001627
PCB_82	0.0000000027	-.0000003627	-.0000003062	-.0000001503	-.0000001559
PCB_111	0.0000000179	0.0000000252	0.0000000323	0.0000000189	0.0000000150
PCB_120	0.0000000272	0.0000000861	0.0000000890	0.0000000474	0.0000000433
PCB_107_124	0.0000001360	-.0000001215	-.0000000230	0.0000000152	-.0000000242
PCB_109	0.0000004584	-.0000000183	0.0000002849	0.0000002578	0.0000000949
PCB_123	-.0000000198	-.0000000034	-.0000000234	-.0000000253	-.0000000072
PCB_118	0.0000088878	-.0000050596	0.0000016190	0.0000029475	-.0000001012
PCB_122	-.0000000018	-.0000000329	-.0000000312	-.0000000177	-.0000000151
PCB_114	0.0000000793	-.0000000952	-.0000000283	0.0000000142	-.0000000255

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_67	PCB_63	PCB_61_70_74_76	PCB_66
PCB_42	0.0000000360	0.0000000579	0.0000000365	-.0000003177	0.0000004562
PCB_40_41_71	0.0000000140	-.0000000126	0.0000000673	0.0000013411	0.0000016829
PCB_64	0.0000000314	0.0000001664	0.0000000336	-.0000009757	-.0000004945
PCB_72	0.0000000340	0.0000001271	0.0000000709	0.0000000433	0.0000006637
PCB_68	0.0000000173	0.0000000556	0.0000000527	0.0000004537	0.0000007873
PCB_57	0.0000000166	0.0000000670	0.0000000285	-.0000001530	0.0000001439
PCB_58	0.0000000031	0.0000000116	0.0000000046	-.0000000372	0.0000000179
PCB_67	0.0000000116	0.0000000495	0.0000000171	-.0000001756	0.0000000217
PCB_63	0.0000000046	0.0000000171	0.0000000148	0.0000001277	0.0000002094
PCB_61_70_74_76	-.0000000372	-.0000001756	0.0000001277	0.0000049157	0.0000042660
PCB_66	0.0000000179	0.0000000217	0.0000002094	0.0000042660	0.0000046478
PCB_56	-.0000000111	-.0000000230	-.0000000717	-.0000012163	-.0000014599
PCB_60	-.0000000078	-.0000000177	-.0000000268	-.0000003065	-.0000004765
PCB_79	-.0000000026	-.0000000166	-.0000000038	0.0000000741	0.0000000395
PCB_81	-.0000000004	-.0000000013	-.0000000016	-.0000000190	-.0000000268
PCB_77	-.0000000014	0.0000000036	-.0000000214	-.0000004630	-.0000005114
PCB_104	0.0000000003	0.0000000003	0.0000000021	0.0000000391	0.0000000459
PCB_96	0.0000000038	0.0000000121	0.0000000067	-.0000000084	0.0000000642
PCB_103	0.0000000115	0.0000000406	0.0000000261	0.0000000814	0.0000002942
PCB_94	0.0000000024	-.0000000009	0.0000000194	0.0000003898	0.0000004513
PCB_95	0.0000001317	0.0000001034	-.0000001691	-.0000075219	-.0000044255
PCB_93_98_100_102	0.0000000015	-.0000000283	0.0000000307	0.0000008499	0.0000009312
PCB_88_91	0.0000000430	0.0000001422	0.0000000541	-.0000005904	0.0000002030
PCB_84	0.0000000046	-.0000000270	-.0000000147	-.0000002318	-.0000000912
PCB_89	-.0000000029	-.0000000106	-.0000000163	-.0000002351	-.0000002900
PCB_121	0.0000000007	0.0000000025	0.0000000018	0.0000000103	0.0000000232
PCB_92	0.0000000830	0.0000002930	0.0000001499	-.0000002066	0.0000012852
PCB_90_101_113	-.0000000110	-.0000003128	0.0000003709	0.0000107829	0.0000109816
PCB_83	0.0000000107	0.0000000535	0.0000000033	-.0000004910	-.0000003260
PCB_99	0.0000001196	0.0000002529	0.0000005415	0.0000080695	0.0000105624
PCB_86_87_97_108_119_125	-.0000000687	-.0000005103	0.0000001205	0.0000076022	0.0000067337
PCB_85_117_116	-.0000000167	-.0000000852	0.0000000246	0.0000014937	0.0000012179
PCB_110_115	0.0000000749	0.0000000142	0.0000001271	0.0000012763	0.0000030142
PCB_82	-.0000000259	-.0000001099	-.0000000449	0.0000002570	-.0000001949
PCB_111	0.0000000026	0.0000000099	0.0000000051	-.0000000064	0.0000000413
PCB_120	0.0000000075	0.0000000298	0.0000000132	-.0000000565	0.0000000776
PCB_107_124	-.0000000034	-.0000000211	0.0000000016	0.0000002558	0.0000002037
PCB_109	0.0000000150	0.0000000440	0.0000000672	0.0000009101	0.0000012054
PCB_123	-.0000000002	-.0000000018	-.0000000076	-.0000001464	-.0000001532
PCB_118	-.0000000201	-.0000005307	0.0000006461	0.0000181808	0.0000187582
PCB_122	-.0000000023	-.0000000099	-.0000000053	-.0000000032	-.0000000442
PCB_114	-.0000000052	-.0000000223	0.0000000041	0.0000003567	0.0000002643

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_56	PCB_60	PCB_79	PCB_81	PCB_77
PCB_42	-.0000002487	-.0000002113	0.0000000706	-.0000000051	-.0000000845
PCB_40_41_71	-.0000005616	-.0000002453	0.0000000720	-.0000000096	-.0000002056
PCB_64	0.0000001241	0.0000000393	-.0000000861	-.0000000007	0.0000000862
PCB_72	-.0000002722	-.0000001307	-.0000000284	-.0000000071	-.0000000698
PCB_68	-.0000002827	-.0000001169	-.0000000036	-.0000000061	-.0000000897
PCB_57	-.0000000760	-.0000000432	-.0000000198	-.0000000026	-.0000000125
PCB_58	-.0000000111	-.0000000078	-.0000000026	-.0000000004	-.0000000014
PCB_67	-.0000000230	-.0000000177	-.0000000166	-.0000000013	0.0000000036
PCB_63	-.0000000717	-.0000000268	-.0000000038	-.0000000016	-.0000000214
PCB_61_70_74_76	-.0000012163	-.0000003065	0.0000000741	-.0000000190	-.0000004630
PCB_66	-.0000014599	-.0000004765	0.0000000395	-.0000000268	-.0000005114
PCB_56	0.0000004868	0.0000001748	-.0000000115	0.0000000093	0.0000001707
PCB_60	0.0000001748	0.0000000755	-.0000000069	0.0000000035	0.0000000608
PCB_79	-.0000000115	-.0000000069	0.0000000108	0.0000000001	-.0000000085
PCB_81	0.0000000093	0.0000000035	0.0000000001	0.0000000002	0.0000000031
PCB_77	0.0000001707	0.0000000608	-.0000000085	0.0000000031	0.0000000633
PCB_104	-.0000000152	-.0000000056	0.0000000007	-.0000000003	-.0000000054
PCB_96	-.0000000287	-.0000000165	-.0000000005	-.0000000007	-.0000000080
PCB_103	-.0000001138	-.0000000527	-.0000000065	-.0000000028	-.0000000319
PCB_94	-.0000001495	-.0000000563	0.0000000098	-.0000000027	-.0000000544
PCB_95	0.0000008052	-.0000004421	0.0000003959	0.0000000148	0.0000002414
PCB_93_98_100_102	-.0000003047	-.0000001235	0.0000000412	-.0000000049	-.0000001173
PCB_88_91	-.0000001423	-.0000001260	-.0000000083	-.0000000048	-.0000000199
PCB_84	0.0000000058	-.0000000519	0.0000000551	0.0000000009	-.0000000071
PCB_89	0.0000000958	0.0000000317	0.0000000027	0.0000000019	0.0000000318
PCB_121	-.0000000085	-.0000000036	-.0000000005	-.0000000002	-.0000000025
PCB_92	-.0000005278	-.0000002900	-.0000000401	-.0000000142	-.0000001195
PCB_90_101_113	-.0000034349	-.0000012176	0.0000003480	-.0000000559	-.0000013002
PCB_83	0.0000000910	0.0000000241	-.0000000249	0.0000000007	0.0000000459
PCB_99	-.0000035625	-.0000013899	0.0000001403	-.0000000685	-.0000012250
PCB_86_87_97_108_119_125	-.0000020263	-.0000007189	0.0000003755	-.0000000270	-.0000008456
PCB_85_117_116	-.0000003415	-.0000000898	0.0000000422	-.0000000046	-.0000001390
PCB_110_115	-.0000011682	-.0000007267	0.0000002857	-.0000000198	-.0000004332
PCB_82	0.0000001047	0.0000000571	0.0000000376	0.0000000038	0.0000000125
PCB_111	-.0000000178	-.0000000091	-.0000000022	-.0000000005	-.0000000042
PCB_120	-.0000000376	-.0000000208	-.0000000081	-.0000000012	-.0000000068
PCB_107_124	-.0000000558	-.0000000183	0.0000000140	-.0000000006	-.0000000243
PCB_109	-.0000004064	-.0000001501	0.0000000013	-.0000000081	-.0000001359
PCB_123	0.0000000503	0.0000000140	0.0000000022	0.0000000010	0.0000000179
PCB_118	-.0000060905	-.0000021888	0.0000005538	-.0000001014	-.0000023425
PCB_122	0.0000000184	0.0000000076	0.0000000038	0.0000000005	0.0000000045
PCB_114	-.0000000698	-.0000000133	0.0000000076	-.0000000009	-.0000000292

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_104	PCB_96	PCB_103	PCB_94	PCB_95
PCB_42	0.0000000114	0.0000000719	0.0000001515	0.0000001301	0.0000081632
PCB_40_41_71	0.0000000204	0.0000000481	0.0000001339	0.0000002150	0.0000032997
PCB_64	-.0000000066	0.0000000185	0.0000000803	-.0000000838	-.0000015331
PCB_72	0.0000000076	0.0000000452	0.0000001514	0.0000000684	0.0000005461
PCB_68	0.0000000086	0.0000000289	0.0000001004	0.0000000833	0.0000001617
PCB_57	0.0000000018	0.0000000195	0.0000000649	0.0000000131	0.0000002138
PCB_58	0.0000000003	0.0000000038	0.0000000115	0.0000000024	0.0000001317
PCB_67	0.0000000003	0.0000000121	0.0000000406	-.0000000009	0.0000001034
PCB_63	0.0000000021	0.0000000067	0.0000000261	0.0000000194	-.0000001691
PCB_61_70_74_76	0.0000000391	-.0000000084	0.0000000814	0.0000003898	-.0000075219
PCB_66	0.0000000459	0.0000000642	0.0000002942	0.0000004513	-.0000044255
PCB_56	-.0000000152	-.0000000287	-.0000001138	-.0000001495	0.0000008052
PCB_60	-.0000000056	-.0000000165	-.0000000527	-.0000000563	-.0000004421
PCB_79	0.0000000007	-.0000000005	-.0000000065	0.0000000098	0.0000003959
PCB_81	-.0000000003	-.0000000007	-.0000000028	-.0000000027	0.0000000148
PCB_77	-.0000000054	-.0000000080	-.0000000319	-.0000000544	0.0000002414
PCB_104	0.0000000005	0.0000000009	0.0000000034	0.0000000049	-.0000000046
PCB_96	0.0000000009	0.0000000057	0.0000000165	0.0000000089	0.0000002651
PCB_103	0.0000000034	0.0000000165	0.0000000547	0.0000000316	0.0000002680
PCB_94	0.0000000049	0.0000000089	0.0000000316	0.0000000500	0.0000000713
PCB_95	-.0000000046	0.0000002651	0.0000002680	0.0000000713	0.0000517868
PCB_93_98_100_102	0.0000000109	0.0000000187	0.0000000534	0.0000001156	0.0000012239
PCB_88_91	0.0000000050	0.0000000590	0.0000001582	0.0000000492	0.0000038733
PCB_84	0.0000000025	0.0000000193	0.0000000121	0.0000000381	0.0000045602
PCB_89	-.0000000028	-.0000000054	-.0000000248	-.0000000263	0.0000004324
PCB_121	0.0000000002	0.0000000010	0.0000000036	0.0000000023	0.0000000008
PCB_92	0.0000000164	0.0000001128	0.0000003476	0.0000001518	0.0000039854
PCB_90_101_113	0.0000001180	0.0000001419	0.0000005192	0.0000012190	0.0000014390
PCB_83	-.0000000035	0.0000000062	0.0000000192	-.0000000393	0.0000000900
PCB_99	0.0000001153	0.0000002735	0.0000009530	0.0000011499	0.0000025487
PCB_86_87_97_108_119_125	0.0000000757	0.0000000408	0.0000001077	0.0000008167	0.0000052681
PCB_85_117_116	0.0000000118	-.0000000056	0.0000000029	0.0000001222	-.0000013539
PCB_110_115	0.0000000496	0.0000001959	0.0000004187	0.0000005544	0.0000225985
PCB_82	-.0000000021	-.0000000284	-.0000000992	-.0000000121	0.0000000826
PCB_111	0.0000000005	0.0000000034	0.0000000112	0.0000000044	0.0000000593
PCB_120	0.0000000009	0.0000000091	0.0000000299	0.0000000075	0.0000001288
PCB_107_124	0.0000000023	-.0000000001	-.0000000016	0.0000000249	0.0000001962
PCB_109	0.0000000125	0.0000000295	0.0000001132	0.0000001213	-.0000005910
PCB_123	-.0000000014	-.0000000010	-.0000000089	-.0000000126	0.0000004285
PCB_118	0.0000002038	0.0000002468	0.0000009162	0.0000020977	-.0000000891
PCB_122	-.0000000004	-.0000000026	-.0000000103	-.0000000033	0.0000000921
PCB_114	0.0000000023	-.0000000039	-.0000000051	0.0000000238	-.0000005836

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_93_98_100_102	PCB_88_91	PCB_84	PCB_89	PCB_121
PCB_42	0.0000004484	0.0000008501	0.0000007862	-.0000000045	0.0000000079
PCB_40_41_71	0.0000005830	0.0000004149	0.0000004755	-.0000000785	0.0000000089
PCB_64	-.0000003238	0.0000002679	-.0000003194	-.0000000110	0.0000000050
PCB_72	0.0000000893	0.0000004437	-.0000000129	-.0000000644	0.0000000099
PCB_68	0.0000001583	0.0000002383	0.0000000199	-.0000000580	0.0000000069
PCB_57	-.0000000075	0.0000002063	-.0000000296	-.0000000223	0.0000000041
PCB_58	0.0000000015	0.0000000430	0.0000000046	-.0000000029	0.0000000007
PCB_67	-.0000000283	0.0000001422	-.0000000270	-.0000000106	0.0000000025
PCB_63	0.0000000307	0.0000000541	-.0000000147	-.0000000163	0.0000000018
PCB_61_70_74_76	0.0000008499	-.0000005904	-.0000002318	-.0000002351	0.0000000103
PCB_66	0.0000009312	0.0000002030	-.0000000912	-.0000002900	0.0000000232
PCB_56	-.0000003047	-.0000001423	0.0000000058	0.0000000958	-.0000000085
PCB_60	-.0000001235	-.0000001260	-.0000000519	0.0000000317	-.0000000036
PCB_79	0.0000000412	-.0000000083	0.0000000551	0.0000000027	-.0000000005
PCB_81	-.0000000049	-.0000000048	0.0000000009	0.0000000019	-.0000000002
PCB_77	-.0000001173	-.0000000199	-.0000000071	0.0000000318	-.0000000025
PCB_104	0.0000000109	0.0000000050	0.0000000025	-.0000000028	0.0000000002
PCB_96	0.0000000187	0.0000000590	0.0000000193	-.0000000054	0.0000000010
PCB_103	0.0000000534	0.0000001582	0.0000000121	-.0000000248	0.0000000036
PCB_94	0.0000001156	0.0000000492	0.0000000381	-.0000000263	0.0000000023
PCB_95	0.0000012239	0.0000038733	0.0000045602	0.0000004324	0.0000000008
PCB_93_98_100_102	0.0000003102	0.0000001209	0.0000002129	-.0000000431	0.0000000038
PCB_88_91	0.0000001209	0.0000007110	0.0000002894	-.0000000228	0.0000000091
PCB_84	0.0000002129	0.0000002894	0.0000004780	0.0000000326	-.0000000004
PCB_89	-.0000000431	-.0000000228	0.0000000326	0.0000000214	-.0000000019
PCB_121	0.0000000038	0.0000000091	-.0000000004	-.0000000019	0.0000000002
PCB_92	0.0000002789	0.0000012433	0.0000002778	-.0000001123	0.0000000217
PCB_90_101_113	0.0000030415	0.0000004704	0.0000012647	-.0000005587	0.0000000408
PCB_83	-.0000001180	0.0000001166	-.0000000547	0.0000000092	0.0000000009
PCB_99	0.0000025373	0.0000019689	0.0000007967	-.0000006601	0.0000000675
PCB_86_87_97_108_119_125	0.0000023213	-.0000001935	0.0000014894	-.0000002551	0.0000000108
PCB_85_117_116	0.0000003074	-.0000001970	0.0000000429	-.0000000562	0.0000000015
PCB_110_115	0.0000017956	0.0000021771	0.0000024767	-.0000000754	0.0000000230
PCB_82	0.0000000423	-.0000003007	0.0000000912	0.0000000355	-.0000000064
PCB_111	0.0000000052	0.0000000349	0.0000000001	-.0000000043	0.0000000007
PCB_120	0.0000000018	0.0000000963	-.0000000076	-.0000000103	0.0000000019
PCB_107_124	0.0000000770	-.0000000155	0.0000000583	-.0000000055	0.0000000000
PCB_109	0.0000002361	0.0000001924	-.0000000125	-.0000000829	0.0000000082
PCB_123	-.0000000160	0.0000000157	0.0000000373	0.0000000120	-.0000000008
PCB_118	0.0000050388	0.0000004555	0.0000016007	-.0000010208	0.0000000727
PCB_122	0.0000000014	-.0000000225	0.0000000161	0.0000000054	-.0000000007
PCB_114	0.0000000562	-.0000000758	-.0000000158	-.0000000126	0.0000000000

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_90_101_113	PCB_83	PCB_99	PCB_86_87_97_108_119_125
PCB_42	0.0000012666	0.0000029853	-.0000000325	0.0000034071	0.0000024205
PCB_40_41_71	0.0000008392	0.0000055143	-.0000001759	0.0000049672	0.0000040937
PCB_64	0.0000006086	-.0000030811	0.0000002406	-.0000010403	-.0000032527
PCB_72	0.0000009702	0.0000008544	0.0000000833	0.0000022720	-.0000002094
PCB_68	0.0000005815	0.0000016651	-.0000000047	0.0000022250	0.0000007519
PCB_57	0.0000004342	-.0000001176	0.0000000615	0.0000006638	-.0000004949
PCB_58	0.0000000830	-.0000000110	0.0000000107	0.0000001196	-.0000000687
PCB_67	0.0000002930	-.0000003128	0.0000000535	0.0000002529	-.0000005103
PCB_63	0.0000001499	0.0000003709	0.0000000033	0.0000005415	0.0000001205
PCB_61_70_74_76	-.0000002066	0.0000107829	-.0000004910	0.0000080695	0.0000076022
PCB_66	0.0000012852	0.0000109816	-.0000003260	0.0000105624	0.0000067337
PCB_56	-.0000005278	-.0000034349	0.0000000910	-.0000035625	-.0000020263
PCB_60	-.0000002900	-.0000012176	0.0000000241	-.0000013899	-.0000007189
PCB_79	-.0000000401	0.0000003480	-.0000000249	0.0000001403	0.0000003755
PCB_81	-.0000000142	-.0000000559	0.0000000007	-.0000000685	-.0000000270
PCB_77	-.0000001195	-.0000013002	0.0000000459	-.0000012250	-.0000008456
PCB_104	0.0000000164	0.0000001180	-.0000000035	0.0000001153	0.0000000757
PCB_96	0.0000001128	0.0000001419	0.0000000062	0.0000002735	0.0000000408
PCB_103	0.0000003476	0.0000005192	0.0000000192	0.0000009530	0.0000001077
PCB_94	0.0000001518	0.0000012190	-.0000000393	0.0000011499	0.0000008167
PCB_95	0.0000039854	0.0000014390	0.0000000900	0.0000025487	0.0000052681
PCB_93_98_100_102	0.0000002789	0.0000030415	-.0000001180	0.0000025373	0.0000023213
PCB_88_91	0.0000012433	0.0000004704	0.0000001166	0.0000019689	-.0000001935
PCB_84	0.0000002778	0.0000012647	-.0000000547	0.0000007967	0.0000014894
PCB_89	-.0000001123	-.0000005587	0.0000000092	-.0000006601	-.0000002551
PCB_121	0.0000000217	0.0000000408	0.0000000009	0.0000000675	0.0000000108
PCB_92	0.0000024785	0.0000021904	0.0000001990	0.0000052022	0.0000000288
PCB_90_101_113	0.0000021904	0.0000322153	-.0000012673	0.0000266339	0.0000236003
PCB_83	0.0000001990	-.0000012673	0.0000000873	-.0000006115	-.0000011664
PCB_99	0.0000052022	0.0000266339	-.0000006115	0.0000280284	0.0000162630
PCB_86_87_97_108_119_125	0.0000000288	0.0000236003	-.0000011664	0.0000162630	0.0000195296
PCB_85_117_116	-.0000001737	0.0000035875	-.0000001854	0.0000023746	0.0000028150
PCB_110_115	0.0000033451	0.0000142084	-.0000003941	0.0000132005	0.0000116588
PCB_82	-.0000006586	0.0000004148	-.0000001077	-.0000008712	0.0000009970
PCB_111	0.0000000739	0.0000000441	0.0000000072	0.0000001548	-.0000000292
PCB_120	0.0000002019	-.0000000040	0.0000000260	0.0000003353	-.0000001825
PCB_107_124	-.0000000219	0.0000007807	-.0000000414	0.0000004718	0.0000006830
PCB_109	0.0000005874	0.0000026639	-.0000000467	0.0000030385	0.0000014151
PCB_123	-.0000000152	-.0000002634	0.0000000081	-.0000002916	-.0000001122
PCB_118	0.0000031951	0.0000536650	-.0000021781	0.0000454413	0.0000386399
PCB_122	-.0000000589	-.0000000066	-.0000000080	-.0000001266	0.0000000717
PCB_114	-.0000000868	0.0000007305	-.0000000424	0.0000004282	0.0000005751

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_117_116	PCB_110_115	PCB_82	PCB_111	PCB_120
PCB_42	0.0000000301	0.0000048976	-.0000001056	0.0000000278	0.0000000626
PCB_40_41_71	0.0000004944	0.0000038355	0.0000000027	0.0000000179	0.0000000272
PCB_64	-.0000004448	-.0000016458	-.0000003627	0.0000000252	0.0000000861
PCB_72	-.0000000631	0.0000008411	-.0000003062	0.0000000323	0.0000000890
PCB_68	0.0000001047	0.0000008911	-.0000001503	0.0000000189	0.0000000474
PCB_57	-.0000000893	0.0000001627	-.0000001559	0.0000000150	0.0000000433
PCB_58	-.0000000167	0.0000000749	-.0000000259	0.0000000026	0.0000000075
PCB_67	-.0000000852	0.0000000142	-.0000001099	0.0000000099	0.0000000298
PCB_63	0.0000000246	0.0000001271	-.0000000449	0.0000000051	0.0000000132
PCB_61_70_74_76	0.0000014937	0.0000012763	0.0000002570	-.0000000064	-.0000000565
PCB_66	0.0000012179	0.0000030142	-.0000001949	0.0000000413	0.0000000776
PCB_56	-.0000003415	-.0000011682	0.0000001047	-.0000000178	-.0000000376
PCB_60	-.0000000898	-.0000007267	0.0000000571	-.0000000091	-.0000000208
PCB_79	0.0000000422	0.0000002857	0.0000000376	-.0000000022	-.0000000081
PCB_81	-.0000000046	-.0000000198	0.0000000038	-.0000000005	-.0000000012
PCB_77	-.0000001390	-.0000004332	0.0000000125	-.0000000042	-.0000000068
PCB_104	0.0000000118	0.0000000496	-.0000000021	0.0000000005	0.0000000009
PCB_96	-.0000000056	0.0000001959	-.0000000284	0.0000000034	0.0000000091
PCB_103	0.0000000029	0.0000004187	-.0000000992	0.0000000112	0.0000000299
PCB_94	0.0000001222	0.0000005544	-.0000000121	0.0000000044	0.0000000075
PCB_95	-.0000013539	0.0000225985	0.0000000826	0.0000000593	0.0000001288
PCB_93_98_100_102	0.0000003074	0.0000017956	0.0000000423	0.0000000052	0.0000000018
PCB_88_91	-.0000001970	0.0000021771	-.0000003007	0.0000000349	0.0000000963
PCB_84	0.0000000429	0.0000024767	0.0000000912	0.0000000001	-.0000000076
PCB_89	-.0000000562	-.0000000754	0.0000000355	-.0000000043	-.0000000103
PCB_121	0.0000000015	0.0000000230	-.0000000064	0.0000000007	0.0000000019
PCB_92	-.0000001737	0.0000033451	-.0000006586	0.0000000739	0.0000002019
PCB_90_101_113	0.0000035875	0.0000142084	0.0000004148	0.0000000441	-.0000000040
PCB_83	-.0000001854	-.0000003941	-.0000001077	0.0000000072	0.0000000260
PCB_99	0.0000023746	0.0000132005	-.0000008712	0.0000001548	0.0000003353
PCB_86_87_97_108_119_125	0.0000028150	0.0000116588	0.0000009970	-.0000000292	-.0000001825
PCB_85_117_116	0.0000004948	0.0000008583	0.0000001566	-.0000000076	-.0000000352
PCB_110_115	0.0000008583	0.0000159885	0.0000000078	0.0000000634	0.0000001107
PCB_82	0.0000001566	0.0000000078	0.0000002551	-.0000000234	-.0000000689
PCB_111	-.0000000076	0.0000000634	-.0000000234	0.0000000024	0.0000000068
PCB_120	-.0000000352	0.0000001107	-.0000000689	0.0000000068	0.0000000194
PCB_107_124	0.0000000986	0.0000003984	0.0000000454	-.0000000021	-.0000000093
PCB_109	0.0000002385	0.0000009869	-.0000001395	0.0000000195	0.0000000455
PCB_123	-.0000000343	0.0000000763	0.0000000129	-.0000000014	-.0000000031
PCB_118	0.0000059439	0.0000218097	0.0000005432	0.0000000840	0.0000000199
PCB_122	0.0000000080	0.0000000211	0.0000000249	-.0000000023	-.0000000066
PCB_114	0.0000001141	0.0000000345	0.0000000413	-.0000000028	-.0000000107

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_107_124	PCB_109	PCB_123	PCB_118	PCB_122
PCB_42	0.0000000785	0.0000002379	0.0000000379	0.0000044916	-.0000000006
PCB_40_41_71	0.0000001360	0.0000004584	-.0000000198	0.0000088878	-.0000000018
PCB_64	-.0000001215	-.0000000183	-.0000000034	-.0000050596	-.0000000329
PCB_72	-.0000000230	0.0000002849	-.0000000234	0.0000016190	-.0000000312
PCB_68	0.0000000152	0.0000002578	-.0000000253	0.0000029475	-.0000000177
PCB_57	-.0000000242	0.0000000949	-.0000000072	-.0000001012	-.0000000151
PCB_58	-.0000000034	0.0000000150	-.0000000002	-.0000000201	-.0000000023
PCB_67	-.0000000211	0.0000000440	-.0000000018	-.0000005307	-.0000000099
PCB_63	0.0000000016	0.0000000672	-.0000000076	0.0000006461	-.0000000053
PCB_61_70_74_76	0.0000002558	0.0000009101	-.0000001464	0.0000181808	-.0000000032
PCB_66	0.0000002037	0.0000012054	-.0000001532	0.0000187582	-.0000000442
PCB_56	-.0000000558	-.0000004064	0.0000000503	-.0000060905	0.0000000184
PCB_60	-.0000000183	-.0000001501	0.0000000140	-.0000021888	0.0000000076
PCB_79	0.0000000140	0.0000000013	0.0000000022	0.0000005538	0.0000000038
PCB_81	-.0000000006	-.0000000081	0.0000000010	-.0000001014	0.0000000005
PCB_77	-.0000000243	-.0000001359	0.0000000179	-.0000023425	0.0000000045
PCB_104	0.0000000023	0.0000000125	-.0000000014	0.0000002038	-.0000000004
PCB_96	-.0000000001	0.0000000295	-.0000000010	0.0000002468	-.0000000026
PCB_103	-.0000000016	0.0000001132	-.0000000089	0.0000009162	-.0000000103
PCB_94	0.0000000249	0.0000001213	-.0000000126	0.0000020977	-.0000000033
PCB_95	0.0000001962	-.0000005910	0.0000004285	-.0000000891	0.0000000921
PCB_93_98_100_102	0.0000000770	0.0000002361	-.0000000160	0.0000050388	0.0000000014
PCB_88_91	-.0000000155	0.0000001924	0.0000000157	0.0000004555	-.0000000225
PCB_84	0.0000000583	-.0000000125	0.0000000373	0.0000016007	0.0000000161
PCB_89	-.0000000055	-.0000000829	0.0000000120	-.0000010208	0.0000000054
PCB_121	0.0000000000	0.0000000082	-.0000000008	0.0000000727	-.0000000007
PCB_92	-.0000000219	0.0000005874	-.0000000152	0.0000031951	-.0000000589
PCB_90_101_113	0.0000007807	0.0000026639	-.0000002634	0.0000536650	-.0000000066
PCB_83	-.0000000414	-.0000000467	0.0000000081	-.0000021781	-.0000000080
PCB_99	0.0000004718	0.0000030385	-.0000002916	0.0000454413	-.0000001266
PCB_86_87_97_108_119_125	0.0000006830	0.0000014151	-.0000001122	0.0000386399	0.0000000717
PCB_85_117_116	0.0000000986	0.0000002385	-.0000000343	0.0000059439	0.0000000080
PCB_110_115	0.0000003984	0.0000009869	0.0000000763	0.0000218097	0.0000000211
PCB_82	0.0000000454	-.0000001395	0.0000000129	0.0000005432	0.0000000249
PCB_111	-.0000000021	0.0000000195	-.0000000014	0.0000000840	-.0000000023
PCB_120	-.0000000093	0.0000000455	-.0000000031	0.0000000199	-.0000000066
PCB_107_124	0.0000000252	0.0000000364	-.0000000017	0.0000012161	0.0000000039
PCB_109	0.0000000364	0.0000003529	-.0000000409	0.0000046784	-.0000000196
PCB_123	-.0000000017	-.0000000409	0.0000000083	-.0000005419	0.0000000028
PCB_118	0.0000012161	0.0000046784	-.0000005419	0.0000932685	-.0000000497
PCB_122	0.0000000039	-.0000000196	0.0000000028	-.0000000497	0.0000000028
PCB_114	0.0000000204	0.0000000462	-.0000000091	0.0000012254	0.0000000020

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_105	PCB_127	PCB_155	PCB_152
PCB_42	-.0000000480	-.0000003374	0.0000000011	0.0000000016	-.0000000006
PCB_40_41_71	0.0000000793	0.0000015396	-.0000000012	0.0000000010	0.0000000041
PCB_64	-.0000000952	-.0000016082	-.0000000028	-.0000000006	-.0000000036
PCB_72	-.0000000283	-.0000002922	-.0000000038	0.0000000002	-.0000000005
PCB_68	0.0000000142	0.0000003556	-.0000000027	0.0000000002	0.0000000009
PCB_57	-.0000000255	-.0000003479	-.0000000017	0.0000000000	-.0000000008
PCB_58	-.0000000052	-.0000000721	-.0000000002	0.0000000000	-.0000000002
PCB_67	-.0000000223	-.0000003417	-.0000000009	-.0000000000	-.0000000007
PCB_63	0.0000000041	0.0000000841	-.0000000008	0.0000000000	0.0000000003
PCB_61_70_74_76	0.0000003567	0.0000056314	-.0000000063	-.0000000002	0.0000000142
PCB_66	0.0000002643	0.0000044707	-.0000000105	0.0000000003	0.0000000114
PCB_56	-.0000000698	-.0000012841	0.0000000039	-.0000000002	-.0000000031
PCB_60	-.0000000133	-.0000003218	0.0000000014	-.0000000002	-.0000000007
PCB_79	0.0000000076	0.0000001399	0.0000000004	0.0000000001	0.0000000003
PCB_81	-.0000000009	-.0000000176	0.0000000001	-.0000000000	-.0000000000
PCB_77	-.0000000292	-.0000005368	0.0000000012	-.0000000001	-.0000000012
PCB_104	0.0000000023	0.0000000425	-.0000000001	0.0000000000	0.0000000001
PCB_96	-.0000000039	-.0000000355	-.0000000003	0.0000000001	-.0000000001
PCB_103	-.0000000051	-.0000000194	-.0000000013	0.0000000001	0.0000000000
PCB_94	0.0000000238	0.0000004386	-.0000000009	0.0000000001	0.0000000011
PCB_95	-.0000005836	-.0000071440	0.0000000235	0.0000000087	-.0000000180
PCB_93_98_100_102	0.0000000562	0.0000010409	-.0000000007	0.0000000005	0.0000000026
PCB_88_91	-.0000000758	-.0000010108	-.0000000014	0.0000000006	-.0000000020
PCB_84	-.0000000158	-.0000001085	0.0000000028	0.0000000008	-.0000000001
PCB_89	-.0000000126	-.0000002231	0.0000000010	0.0000000000	-.0000000005
PCB_121	0.0000000000	0.0000000042	-.0000000001	0.0000000000	0.0000000000
PCB_92	-.0000000868	-.0000010876	-.0000000059	0.0000000007	-.0000000016
PCB_90_101_113	0.0000007305	0.0000126478	-.0000000126	0.0000000033	0.0000000318
PCB_83	-.0000000424	-.0000007060	-.0000000003	-.0000000001	-.0000000016
PCB_99	0.0000004282	0.0000082092	-.0000000246	0.0000000030	0.0000000210
PCB_86_87_97_108_119_125	0.0000005751	0.0000098332	0.0000000008	0.0000000031	0.0000000243
PCB_85_117_116	0.0000001141	0.0000018230	-.0000000007	0.0000000001	0.0000000045
PCB_110_115	0.0000000345	0.0000017418	0.0000000039	0.0000000049	0.0000000054
PCB_82	0.0000000413	0.0000005931	0.0000000028	0.0000000001	0.0000000013
PCB_111	-.0000000028	-.0000000337	-.0000000003	0.0000000000	-.0000000001
PCB_120	-.0000000107	-.0000001440	-.0000000007	0.0000000000	-.0000000003
PCB_107_124	0.0000000204	0.0000003318	0.0000000003	0.0000000001	0.0000000009
PCB_109	0.0000000462	0.0000008709	-.0000000036	0.0000000002	0.0000000022
PCB_123	-.0000000091	-.0000001576	0.0000000006	0.0000000000	-.0000000003
PCB_118	0.0000012254	0.0000220070	-.0000000303	0.0000000057	0.0000000517
PCB_122	0.0000000020	0.0000000231	0.0000000004	0.0000000000	0.0000000001
PCB_114	0.0000000282	0.0000004358	-.0000000002	-.0000000000	0.0000000011

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_136	PCB_145	PCB_148	PCB_135_151
PCB_42	0.0000000005	-.0000008474	-.0000000017	0.0000000006	-.0000035643
PCB_40_41_71	-.0000000003	-.0000010722	-.0000000009	-.0000000020	-.0000058719
PCB_64	0.0000000045	0.0000004707	0.0000000000	0.0000000015	0.0000019140
PCB_72	0.0000000034	-.0000003003	-.0000000005	-.0000000000	-.0000022748
PCB_68	0.0000000016	-.0000003702	-.0000000003	-.0000000007	-.0000025172
PCB_57	0.0000000017	-.0000000527	-.0000000002	0.0000000002	-.0000005532
PCB_58	0.0000000003	-.0000000124	-.0000000001	0.0000000001	-.0000000925
PCB_67	0.0000000013	0.0000000135	-.0000000001	0.0000000003	-.0000000887
PCB_63	0.0000000005	-.0000000768	-.0000000000	-.0000000002	-.0000005932
PCB_61_70_74_76	-.0000000023	-.0000015164	0.0000000009	-.0000000075	-.0000106359
PCB_66	0.0000000025	-.0000018634	-.0000000002	-.0000000065	-.0000128745
PCB_56	-.0000000010	0.0000006462	0.0000000002	0.0000000019	0.0000043615
PCB_60	-.0000000005	0.0000002694	0.0000000002	0.0000000005	0.0000016641
PCB_79	-.0000000005	-.0000000617	-.0000000000	-.0000000001	-.0000002241
PCB_81	-.0000000000	0.0000000114	0.0000000000	0.0000000000	0.0000000808
PCB_77	-.0000000000	0.0000002418	0.0000000000	0.0000000007	0.0000015704
PCB_104	0.0000000000	-.0000000220	-.0000000000	-.0000000001	-.0000001409
PCB_96	0.0000000003	-.0000000469	-.0000000001	0.0000000000	-.0000002798
PCB_103	0.0000000011	-.0000001423	-.0000000002	-.0000000001	-.0000009946
PCB_94	0.0000000001	-.0000002285	-.0000000001	-.0000000006	-.0000014172
PCB_95	-.0000000062	-.0000021018	-.0000000090	0.0000000117	-.0000010247
PCB_93_98_100_102	-.0000000007	-.0000005672	-.0000000004	-.0000000013	-.0000031516
PCB_88_91	0.0000000033	-.0000003123	-.0000000011	0.0000000010	-.0000015833
PCB_84	-.0000000013	-.0000003248	-.0000000008	0.0000000004	-.0000008076
PCB_89	-.0000000004	0.0000001023	-.0000000000	0.0000000004	0.0000007934
PCB_121	0.0000000001	-.0000000099	-.0000000000	-.0000000000	-.0000000726
PCB_92	0.0000000076	-.0000007300	-.0000000016	0.0000000005	-.0000047784
PCB_90_101_113	-.0000000054	-.0000055738	-.0000000019	-.0000000164	-.0000333909
PCB_83	0.0000000013	0.0000001886	-.0000000001	0.0000000008	0.0000009945
PCB_99	0.0000000089	-.0000052027	-.0000000031	-.0000000122	-.0000331204
PCB_86_87_97_108_119_125	-.0000000122	-.0000039440	-.0000000013	-.0000000116	-.0000214100
PCB_85_117_116	-.0000000017	-.0000005161	0.0000000002	-.0000000023	-.0000032218
PCB_110_115	-.0000000019	-.0000032288	-.0000000049	-.0000000016	-.0000147969
PCB_82	-.0000000029	0.0000000284	0.0000000003	-.0000000004	0.0000006468
PCB_111	0.0000000003	-.0000000195	-.0000000000	0.0000000000	-.0000001483
PCB_120	0.0000000008	-.0000000315	-.0000000001	0.0000000001	-.0000002875
PCB_107_124	-.0000000005	-.0000001204	-.0000000000	-.0000000004	-.0000006193
PCB_109	0.0000000015	-.0000005179	-.0000000002	-.0000000014	-.0000035828
PCB_123	-.0000000001	0.0000000441	-.0000000000	0.0000000002	0.0000003927
PCB_118	-.0000000099	-.0000096512	-.0000000026	-.0000000282	-.0000586774
PCB_122	-.0000000003	0.0000000102	0.0000000000	0.0000000000	0.0000001280
PCB_114	-.0000000004	-.0000000907	0.0000000001	-.0000000005	-.0000006203

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_154	PCB_144	PCB_147_149	PCB_134_143	PCB_139_140
PCB_42	-.0000000112	-.0000005774	-.0000059602	-.0000003687	-.0000001276
PCB_40_41_71	-.0000000330	-.0000007128	-.0000095377	-.0000003968	-.0000000914
PCB_64	0.0000000636	0.0000001349	0.0000033312	0.0000001798	0.0000000587
PCB_72	0.0000000329	-.0000003537	-.0000035369	-.0000000959	-.0000000070
PCB_68	0.0000000095	-.0000003277	-.0000039918	-.0000001189	-.0000000139
PCB_57	0.0000000198	-.0000001116	-.0000008254	-.0000000147	0.0000000024
PCB_58	0.0000000032	-.0000000203	-.0000001398	-.0000000050	-.0000000008
PCB_67	0.0000000154	-.0000000439	-.0000000853	0.0000000052	0.0000000049
PCB_63	0.0000000038	-.0000000761	-.0000009247	-.0000000228	0.0000000000
PCB_61_70_74_76	-.0000000814	-.0000009694	-.0000169251	-.0000004384	-.0000000088
PCB_66	-.0000000297	-.0000014092	-.0000204430	-.0000005697	-.0000000392
PCB_56	0.0000000049	0.0000005024	0.0000069637	0.0000001987	0.0000000201
PCB_60	0.0000000001	0.0000002107	0.0000026833	0.0000000896	0.0000000163
PCB_79	-.0000000070	-.0000000212	-.0000003945	-.0000000256	-.0000000093
PCB_81	-.0000000002	0.0000000099	0.0000001282	0.0000000034	0.0000000003
PCB_77	0.0000000054	0.0000001746	0.0000025293	0.0000000745	0.0000000095
PCB_104	-.0000000004	-.0000000162	-.0000002260	-.0000000071	-.0000000010
PCB_96	0.0000000025	-.0000000444	-.0000004469	-.0000000174	-.0000000040
PCB_103	0.0000000093	-.0000001449	-.0000015621	-.0000000473	-.0000000056
PCB_94	-.0000000052	-.0000001628	-.0000022822	-.0000000755	-.0000000121
PCB_95	-.0000000732	-.0000010423	-.0000036268	-.0000012407	-.0000006776
PCB_93_98_100_102	-.0000000229	-.0000003609	-.0000051358	-.0000002028	-.0000000448
PCB_88_91	0.0000000314	-.0000003350	-.0000025034	-.0000001429	-.0000000436
PCB_84	-.0000000225	-.0000001460	-.0000014783	-.0000001643	-.0000000705
PCB_89	-.0000000018	0.0000000910	0.0000012484	0.0000000276	-.0000000010
PCB_121	0.0000000006	-.0000000100	-.0000001137	-.0000000031	-.0000000002
PCB_92	0.0000000673	-.0000007970	-.0000074269	-.0000002808	-.0000000489
PCB_90_101_113	-.0000002253	-.0000036208	-.0000539277	-.0000018888	-.0000003247
PCB_83	0.0000000203	0.0000000777	0.0000016618	0.0000000627	0.0000000141
PCB_99	-.0000000372	-.0000039919	-.0000529834	-.0000017274	-.0000002568
PCB_86_87_97_108_119_125	-.0000002557	-.0000021857	-.0000350780	-.0000014035	-.0000003095
PCB_85_117_116	-.0000000372	-.0000002874	-.0000051973	-.0000001640	-.0000000194
PCB_110_115	-.0000000993	-.0000020572	-.0000245110	-.0000013341	-.0000004128
PCB_82	-.0000000341	0.0000001457	0.0000009156	0.0000000009	-.0000000116
PCB_111	0.0000000026	-.0000000245	-.0000002294	-.0000000064	-.0000000005
PCB_120	0.0000000085	-.0000000547	-.0000004332	-.0000000099	0.0000000003
PCB_107_124	-.0000000099	-.0000000590	-.0000010168	-.0000000449	-.0000000105
PCB_109	0.0000000036	-.0000004294	-.0000056857	-.0000001601	-.0000000139
PCB_123	-.0000000005	0.0000000399	0.0000006191	0.0000000082	-.0000000029
PCB_118	-.0000003607	-.0000063824	-.0000950821	-.0000031527	-.0000005314
PCB_122	-.0000000031	0.0000000200	0.0000001933	0.0000000012	-.0000000016
PCB_114	-.0000000084	-.0000000461	-.0000009947	-.0000000255	-.0000000003

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_131	PCB_142	PCB_132	PCB_133	PCB_165
PCB_42	-.0000001385	-.0000000031	-.0000021895	-.0000000606	0.0000000114
PCB_40_41_71	-.0000001419	-.0000000023	-.0000024576	-.0000001390	0.0000000021
PCB_64	-.0000000088	0.0000000004	0.0000004753	0.0000001146	0.0000000158
PCB_72	-.0000001006	-.0000000011	-.0000011717	0.0000000045	0.0000000146
PCB_68	-.0000000785	-.0000000008	-.0000010684	-.0000000314	0.0000000069
PCB_57	-.0000000381	-.0000000004	-.0000003712	0.0000000167	0.0000000074
PCB_58	-.0000000069	-.0000000001	-.0000000721	0.0000000028	0.0000000013
PCB_67	-.0000000200	-.0000000002	-.0000001536	0.0000000190	0.0000000052
PCB_63	-.0000000188	-.0000000002	-.0000002433	-.0000000057	0.0000000019
PCB_61_70_74_76	-.0000001399	-.0000000004	-.0000028977	-.0000003074	-.0000000193
PCB_66	-.0000002780	-.0000000022	-.0000044341	-.0000002729	0.0000000042
PCB_56	0.0000001050	0.0000000009	0.0000015889	0.0000000849	-.0000000038
PCB_60	0.0000000472	0.0000000006	0.0000006909	0.0000000288	-.0000000029
PCB_79	-.0000000010	-.0000000001	-.0000000819	-.0000000124	-.0000000014
PCB_81	0.0000000023	0.0000000000	0.0000000313	0.0000000012	-.0000000002
PCB_77	0.0000000342	0.0000000003	0.0000005477	0.0000000354	-.0000000002
PCB_104	-.0000000033	-.0000000000	-.0000000523	-.0000000030	0.0000000001
PCB_96	-.0000000120	-.0000000002	-.0000001540	-.0000000011	0.0000000015
PCB_103	-.0000000385	-.0000000004	-.0000004825	-.0000000047	0.0000000048
PCB_94	-.0000000324	-.0000000004	-.0000005288	-.0000000316	0.0000000005
PCB_95	-.0000003043	-.0000000131	-.0000052392	-.0000000133	0.0000000392
PCB_93_98_100_102	-.0000000668	-.0000000010	-.0000012173	-.0000000829	-.0000000012
PCB_88_91	-.0000001032	-.0000000018	-.0000012608	0.0000000220	0.0000000171
PCB_84	-.0000000278	-.0000000013	-.0000006593	-.0000000341	-.0000000005
PCB_89	0.0000000201	0.0000000001	0.0000002776	0.0000000124	-.0000000012
PCB_121	-.0000000026	-.0000000000	-.0000000325	-.0000000005	0.0000000003
PCB_92	-.0000002282	-.0000000031	-.0000028040	0.0000000145	0.0000000336
PCB_90_101_113	-.0000006463	-.0000000079	-.0000118489	-.0000008772	-.0000000213
PCB_83	0.0000000034	0.0000000001	0.0000002391	0.0000000445	0.0000000052
PCB_99	-.0000008554	-.0000000096	-.0000130709	-.0000006244	0.0000000398
PCB_86_87_97_108_119_125	-.0000003212	-.0000000053	-.0000073091	-.0000007001	-.0000000442
PCB_85_117_116	-.0000000349	-.0000000003	-.0000008907	-.0000001077	-.0000000087
PCB_110_115	-.0000004380	-.0000000094	-.0000075899	-.0000003427	0.0000000171
PCB_82	0.0000000543	0.0000000004	0.0000004741	-.0000000333	-.0000000118
PCB_111	-.0000000072	-.0000000001	-.0000000822	0.0000000010	0.0000000011
PCB_120	-.0000000179	-.0000000002	-.0000001840	0.0000000064	0.0000000033
PCB_107_124	-.0000000067	-.0000000002	-.0000002037	-.0000000233	-.0000000020
PCB_109	-.0000000950	-.0000000009	-.0000013705	-.0000000594	0.0000000057
PCB_123	0.0000000081	-.0000000000	0.0000001085	0.0000000072	-.0000000002
PCB_118	-.0000011601	-.0000000128	-.0000204718	-.0000015108	-.0000000307
PCB_122	0.0000000062	0.0000000000	0.0000000603	-.0000000016	-.0000000011
PCB_114	-.0000000031	0.0000000000	-.0000001294	-.0000000231	-.0000000025

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_146	PCB_153_168	PCB_141	PCB_130	PCB_137
PCB_42	-.0000014717	-.0000125850	-.0000002930	-.0000006015	0.0000000009
PCB_40_41_71	-.0000021761	-.0000205413	-.0000003472	-.0000005919	0.0000000224
PCB_64	0.0000008280	0.0000083169	-.0000000711	0.0000001544	-.0000000963
PCB_72	-.0000007230	-.0000060703	-.0000002977	-.0000002549	-.0000000832
PCB_68	-.0000008443	-.0000076295	-.0000002282	-.0000002355	-.0000000429
PCB_57	-.0000001528	-.0000010362	-.0000001163	-.0000000785	-.0000000429
PCB_58	-.0000000288	-.0000002027	-.0000000195	-.0000000164	-.0000000063
PCB_67	-.0000000022	0.0000001809	-.0000000623	-.0000000279	-.0000000268
PCB_63	-.0000001907	-.0000017688	-.0000000572	-.0000000490	-.0000000118
PCB_61_70_74_76	-.0000036134	-.0000368788	-.0000004425	-.0000005403	0.0000000677
PCB_66	-.0000043511	-.0000421479	-.0000008292	-.0000009113	-.0000000547
PCB_56	0.0000014761	0.0000137991	0.0000003104	0.0000003444	0.0000000387
PCB_60	0.0000005787	0.0000051750	0.0000001320	0.0000001625	0.0000000201
PCB_79	-.0000001021	-.0000009830	0.0000000050	-.0000000266	0.0000000109
PCB_81	0.0000000268	0.0000002450	0.0000000068	0.0000000067	0.0000000013
PCB_77	0.0000005390	0.0000050178	0.0000001001	0.0000001227	0.0000000098
PCB_104	-.0000000488	-.0000004594	-.0000000093	-.0000000116	-.0000000007
PCB_96	-.0000000976	-.0000008142	-.0000000326	-.0000000371	-.0000000073
PCB_103	-.0000003281	-.0000028649	-.0000001115	-.0000001066	-.0000000260
PCB_94	-.0000004970	-.0000046717	-.0000000900	-.0000001201	-.0000000045
PCB_95	-.0000019178	-.0000088852	-.0000002416	-.0000019673	0.0000001380
PCB_93_98_100_102	-.0000011608	-.0000109975	-.0000001656	-.0000002931	0.0000000157
PCB_88_91	-.0000005893	-.0000046148	-.0000002600	-.0000003139	-.0000000573
PCB_84	-.0000004552	-.0000040425	-.0000000116	-.0000002132	0.0000000481
PCB_89	0.0000002550	0.0000023936	0.0000000640	0.0000000549	0.0000000122
PCB_121	-.0000000236	-.0000002109	-.0000000076	-.0000000070	-.0000000017
PCB_92	-.0000016191	-.0000140604	-.0000006267	-.0000006292	-.0000001363
PCB_90_101_113	-.0000119546	-.0001156397	-.0000017149	-.0000026839	0.0000001453
PCB_83	0.0000003784	0.0000037731	0.0000000027	0.0000000613	-.0000000248
PCB_99	-.0000114809	-.0001072658	-.0000023998	-.0000029216	-.0000002287
PCB_86_87_97_108_119_125	-.0000080223	-.0000786005	-.0000007276	-.0000017587	0.0000003081
PCB_85_117_116	-.0000011466	-.0000117011	-.0000000959	-.0000001844	0.0000000449
PCB_110_115	-.0000059185	-.0000537913	-.0000009257	-.0000020074	0.0000001094
PCB_82	0.0000001468	0.0000008163	0.0000001728	0.0000000912	0.0000000700
PCB_111	-.0000000468	-.0000003840	-.0000000212	-.0000000180	-.0000000062
PCB_120	-.0000000841	-.0000006282	-.0000000537	-.0000000392	-.0000000181
PCB_107_124	-.0000002400	-.0000024481	-.0000000110	-.0000000488	0.0000000162
PCB_109	-.0000012006	-.0000111880	-.0000002814	-.0000002927	-.0000000421
PCB_123	0.0000001198	0.0000011122	0.0000000296	0.0000000194	0.0000000078
PCB_118	-.0000207676	-.0001964387	-.0000031961	-.0000047139	0.0000000185
PCB_122	0.0000000342	0.0000002617	0.0000000208	0.0000000114	0.0000000080
PCB_114	-.0000002145	-.0000022737	-.0000000112	-.0000000219	0.0000000107

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159
PCB_42	-.0000004692	-.0000126506	-.0000016034	-.0000022185	-.0000000031
PCB_40_41_71	-.0000005361	-.0000122550	-.0000011850	-.0000015711	-.0000000023
PCB_64	0.0000000873	0.0000042130	0.0000003217	0.0000007141	0.0000000004
PCB_72	-.0000002852	-.0000041847	-.0000004675	-.0000003562	-.0000000011
PCB_68	-.0000002546	-.0000041983	-.0000003899	-.0000003585	-.0000000008
PCB_57	-.0000000944	-.0000011054	-.0000001537	-.0000000782	-.0000000004
PCB_58	-.0000000171	-.0000002688	-.0000000388	-.0000000336	-.0000000001
PCB_67	-.0000000386	-.0000002770	-.0000000640	-.0000000026	-.0000000002
PCB_63	-.0000000580	-.0000008260	-.0000000667	-.0000000387	-.0000000002
PCB_61_70_74_76	-.0000006543	-.0000107423	-.0000002034	-.0000000766	-.0000000004
PCB_66	-.0000010288	-.0000170194	-.0000010686	-.0000009164	-.0000000022
PCB_56	0.0000003794	0.0000062945	0.0000004716	0.0000004384	0.0000000009
PCB_60	0.0000001651	0.0000030213	0.0000002891	0.0000003184	0.0000000006
PCB_79	-.0000000154	-.0000006788	-.0000000691	-.0000001279	-.0000000001
PCB_81	0.0000000076	0.0000001171	0.0000000094	0.0000000075	0.0000000000
PCB_77	0.0000001321	0.0000022834	0.0000001677	0.0000001743	0.0000000003
PCB_104	-.0000000122	-.0000002218	-.0000000177	-.0000000192	-.0000000000
PCB_96	-.0000000362	-.0000006779	-.0000000814	-.0000000883	-.0000000002
PCB_103	-.0000001149	-.0000018490	-.0000001961	-.0000001731	-.0000000004
PCB_94	-.0000001225	-.0000023257	-.0000001912	-.0000002200	-.0000000004
PCB_95	-.0000010288	-.0000450357	-.0000072133	-.0000110748	-.0000000133
PCB_93_98_100_102	-.0000002698	-.0000060717	-.0000005467	-.0000007373	-.0000000010
PCB_88_91	-.0000002782	-.0000059626	-.0000008355	-.0000009653	-.0000000018
PCB_84	-.0000001178	-.0000051665	-.0000006945	-.0000011144	-.0000000013
PCB_89	0.0000000684	0.0000009096	0.0000000523	0.0000000145	0.0000000001
PCB_121	-.0000000078	-.0000001188	-.0000000114	-.0000000089	-.0000000000
PCB_92	-.0000006339	-.0000113833	-.0000013756	-.0000013609	-.0000000031
PCB_90_101_113	-.0000026437	-.0000547499	-.0000042201	-.0000053828	-.0000000079
PCB_83	0.0000000524	0.0000014619	0.0000000740	0.0000001589	0.0000000001
PCB_99	-.0000030233	-.0000554664	-.0000047950	-.0000051655	-.0000000096
PCB_86_87_97_108_119_125	-.0000015652	-.0000385732	-.0000030439	-.0000045946	-.0000000053
PCB_85_117_116	-.0000001926	-.0000040115	-.0000001607	-.0000002425	-.0000000002
PCB_110_115	-.0000016045	-.0000429778	-.0000049472	-.0000069767	-.0000000094
PCB_82	0.0000001244	0.0000010382	0.0000001597	-.0000000006	0.0000000005
PCB_111	-.0000000199	-.0000002943	-.0000000349	-.0000000272	-.0000000001
PCB_120	-.0000000454	-.0000005903	-.0000000780	-.0000000485	-.0000000002
PCB_107_124	-.0000000397	-.0000011633	-.0000000881	-.0000001487	-.0000000002
PCB_109	-.0000003256	-.0000052689	-.0000004158	-.0000003608	-.0000000009
PCB_123	0.0000000301	0.0000002548	-.0000000051	-.0000000379	-.0000000000
PCB_118	-.0000047618	-.0000930318	-.0000071310	-.0000087516	-.0000000128
PCB_122	0.0000000165	0.0000001296	0.0000000122	-.0000000087	0.0000000000
PCB_114	-.0000000280	-.0000004971	0.0000000174	0.0000000179	0.0000000000

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_162	PCB_167	PCB_156_57	PCB_169	PCB_188
PCB_42	0.0000000053	0.0000001949	0.0000000240	-.0000000296	0.0000000001
PCB_40_41_71	-.0000000322	-.0000002451	0.0000000782	-.0000000142	-.0000000041
PCB_64	0.0000000067	0.0000001982	-.0000000176	-.0000000027	0.0000000002
PCB_72	-.0000000157	0.0000000016	0.0000000216	-.0000000105	-.0000000026
PCB_68	-.0000000186	-.0000000968	0.0000000272	-.0000000058	-.0000000026
PCB_57	-.0000000036	0.0000000385	0.0000000030	-.0000000047	-.0000000008
PCB_58	-.0000000003	0.0000000106	0.0000000008	-.0000000011	-.0000000001
PCB_67	-.0000000008	0.0000000421	0.0000000022	-.0000000030	-.0000000003
PCB_63	-.0000000054	-.0000000301	0.0000000085	-.0000000010	-.0000000008
PCB_61_70_74_76	-.0000001122	-.0000011995	0.0000001877	0.0000000207	-.0000000131
PCB_66	-.0000001171	-.0000010061	0.0000001907	-.0000000007	-.0000000148
PCB_56	0.0000000359	0.0000002816	-.0000000491	0.0000000031	0.0000000047
PCB_60	0.0000000104	0.0000000617	-.0000000129	0.0000000038	0.0000000015
PCB_79	0.0000000001	-.0000000110	0.0000000016	-.0000000004	0.0000000001
PCB_81	0.0000000007	0.0000000044	-.0000000009	0.0000000001	0.0000000001
PCB_77	0.0000000124	0.0000001071	-.0000000148	0.0000000006	0.0000000016
PCB_104	-.0000000011	-.0000000087	0.0000000017	-.0000000001	-.0000000001
PCB_96	-.0000000011	0.0000000061	0.0000000020	-.0000000017	-.0000000002
PCB_103	-.0000000067	-.0000000129	0.0000000107	-.0000000039	-.0000000011
PCB_94	-.0000000103	-.0000000854	0.0000000164	-.0000000015	-.0000000013
PCB_95	0.0000002059	0.0000024326	-.0000001947	-.0000001534	0.0000000235
PCB_93_98_100_102	-.0000000189	-.0000001701	0.0000000381	-.0000000049	-.0000000023
PCB_88_91	0.0000000017	0.0000001945	0.0000000176	-.0000000200	-.0000000005
PCB_84	0.0000000117	0.0000001206	0.0000000076	-.0000000122	0.0000000015
PCB_89	0.0000000077	0.0000000584	-.0000000098	0.0000000001	0.0000000010
PCB_121	-.0000000006	-.0000000022	0.0000000008	-.0000000002	-.0000000001
PCB_92	-.0000000246	0.0000001186	0.0000000729	-.0000000314	-.0000000044
PCB_90_101_113	-.0000002486	-.0000023637	0.0000004647	-.0000000188	-.0000000301
PCB_83	0.0000000072	0.0000001120	-.0000000102	-.0000000022	0.0000000007
PCB_99	-.0000002430	-.0000017380	0.0000004089	-.0000000521	-.0000000322
PCB_86_87_97_108_119_125	-.0000001402	-.0000016101	0.0000002981	-.0000000078	-.0000000156
PCB_85_117_116	-.0000000301	-.0000003513	0.0000000552	0.0000000054	-.0000000033
PCB_110_115	-.0000000241	0.0000000641	0.0000001622	-.0000000786	-.0000000037
PCB_82	0.0000000059	-.0000000583	-.0000000044	0.0000000063	0.0000000012
PCB_111	-.0000000009	0.0000000026	0.0000000014	-.0000000008	-.0000000002
PCB_120	-.0000000019	0.0000000152	0.0000000025	-.0000000022	-.0000000004
PCB_107_124	-.0000000041	-.0000000535	0.0000000116	0.0000000000	-.0000000004
PCB_109	-.0000000297	-.0000002092	0.0000000437	-.0000000041	-.0000000040
PCB_123	0.0000000045	0.0000000393	-.0000000031	-.0000000007	0.0000000006
PCB_118	-.0000004319	-.0000040559	0.0000006292	-.0000000273	-.0000000537
PCB_122	0.0000000013	0.0000000020	-.0000000006	0.0000000004	0.0000000002
PCB_114	-.0000000071	-.0000000879	0.0000000119	0.0000000023	-.0000000008

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_184	PCB_176	PCB_178	PCB_175
PCB_42	-.0000012186	-.0000000004	-.0000004951	-.0000006903	-.0000001595
PCB_40_41_71	-.0000020100	0.0000000001	-.0000006780	-.0000011607	-.0000002376
PCB_64	0.0000004426	0.0000000004	0.0000001646	0.0000002524	0.0000000494
PCB_72	-.0000009462	0.0000000004	-.0000003008	-.0000005488	-.0000001137
PCB_68	-.0000009478	0.0000000003	-.0000002979	-.0000005501	-.0000001109
PCB_57	-.0000002729	0.0000000002	-.0000000866	-.0000001582	-.0000000338
PCB_58	-.0000000452	0.0000000000	-.0000000157	-.0000000261	-.0000000058
PCB_67	-.0000000924	0.0000000001	-.0000000292	-.0000000538	-.0000000123
PCB_63	-.0000002320	0.0000000001	-.0000000700	-.0000001353	-.0000000268
PCB_61_70_74_76	-.0000036293	0.0000000012	-.0000010403	-.0000021245	-.0000003950
PCB_66	-.0000046107	0.0000000015	-.0000013852	-.0000026879	-.0000005205
PCB_56	0.0000015641	-.0000000005	0.0000004783	0.0000009096	0.0000001787
PCB_60	0.0000005960	-.0000000001	0.0000001922	0.0000003448	0.0000000701
PCB_79	-.0000000528	-.0000000001	-.0000000225	-.0000000297	-.0000000064
PCB_81	0.0000000300	-.0000000000	0.0000000092	0.0000000174	0.0000000035
PCB_77	0.0000005459	-.0000000001	0.0000001676	0.0000003172	0.0000000622
PCB_104	-.0000000498	0.0000000000	-.0000000155	-.0000000289	-.0000000057
PCB_96	-.0000001093	0.0000000000	-.0000000376	-.0000000629	-.0000000135
PCB_103	-.0000003955	0.0000000001	-.0000001267	-.0000002292	-.0000000472
PCB_94	-.0000004943	0.0000000001	-.0000001560	-.0000002868	-.0000000569
PCB_95	0.0000002184	-.0000000048	-.0000006489	0.0000002426	-.0000000917
PCB_93_98_100_102	-.0000010557	0.0000000001	-.0000003492	-.0000006102	-.0000001231
PCB_88_91	-.0000006883	0.0000000001	-.0000002669	-.0000003927	-.0000000915
PCB_84	-.0000001971	-.0000000004	-.0000001270	-.0000001050	-.0000000317
PCB_89	0.0000002963	-.0000000001	0.0000000865	0.0000001730	0.0000000334
PCB_121	-.0000000286	0.0000000000	-.0000000089	-.0000000166	-.0000000034
PCB_92	-.0000020056	0.0000000007	-.0000006787	-.0000011593	-.0000002473
PCB_90_101_113	-.0000113346	0.0000000019	-.0000035879	-.0000065790	-.0000012957
PCB_83	0.0000002816	0.0000000000	0.0000000884	0.0000001632	0.0000000306
PCB_99	-.0000119008	0.0000000030	-.0000037627	-.0000069063	-.0000013803
PCB_86_87_97_108_119_125	-.0000068325	0.0000000001	-.0000022339	-.0000039549	-.0000007811
PCB_85_117_116	-.0000010481	0.0000000002	-.0000003129	-.0000006116	-.0000001148
PCB_110_115	-.0000049415	-.0000000009	-.0000018686	-.0000028224	-.0000006169
PCB_82	0.0000003627	-.0000000003	0.0000001094	0.0000002113	0.0000000447
PCB_111	-.0000000634	0.0000000000	-.0000000204	-.0000000367	-.0000000077
PCB_120	-.0000001359	0.0000000001	-.0000000436	-.0000000788	-.0000000168
PCB_107_124	-.0000001911	-.0000000000	-.0000000635	-.0000001106	-.0000000217
PCB_109	-.0000013175	0.0000000004	-.0000004037	-.0000007664	-.0000001514
PCB_123	0.0000001437	-.0000000001	0.0000000388	0.0000000842	0.0000000157
PCB_118	-.0000198539	0.0000000034	-.0000062350	-.0000115182	-.0000022671
PCB_122	0.0000000577	-.0000000000	0.0000000165	0.0000000337	0.0000000067
PCB_114	-.0000001988	0.0000000001	-.0000000550	-.0000001167	-.0000000209

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_182	PCB_183_185	PCB_174	PCB_177
PCB_42	-.0000052485	-.0000000054	-.0000028549	-.0000005098	-.0000024763
PCB_40_41_71	-.0000075980	-.0000000074	-.0000035221	-.0000010401	-.0000029066
PCB_64	0.0000017001	0.0000000012	0.0000009125	0.0000001659	0.0000007268
PCB_72	-.0000035004	-.0000000040	-.0000014971	-.0000005598	-.0000012472
PCB_68	-.0000034468	-.0000000037	-.0000014727	-.0000005478	-.0000012037
PCB_57	-.0000010224	-.0000000013	-.0000004298	-.0000001702	-.0000003659
PCB_58	-.0000001802	-.0000000002	-.0000000829	-.0000000257	-.0000000722
PCB_67	-.0000003602	-.0000000005	-.0000001434	-.0000000630	-.0000001296
PCB_63	-.0000008254	-.0000000009	-.0000003353	-.0000001390	-.0000002715
PCB_61_70_74_76	-.0000123049	-.0000000116	-.0000047854	-.0000021427	-.0000036827
PCB_66	-.0000162012	-.0000000164	-.0000066198	-.0000026904	-.0000052653
PCB_56	0.0000055562	0.0000000058	0.0000023189	0.0000009099	0.0000018592
PCB_60	0.0000021920	0.0000000024	0.0000009694	0.0000003343	0.0000007934
PCB_79	-.0000002257	-.0000000002	-.0000001336	-.0000000157	-.0000001116
PCB_81	0.0000001068	0.0000000001	0.0000000443	0.0000000177	0.0000000357
PCB_77	0.0000019366	0.0000000020	0.0000008159	0.0000003152	0.0000006516
PCB_104	-.0000001790	-.0000000002	-.0000000765	-.0000000282	-.0000000617
PCB_96	-.0000004240	-.0000000005	-.0000001978	-.0000000593	-.0000001674
PCB_103	-.0000014646	-.0000000016	-.0000006343	-.0000002285	-.0000005263
PCB_94	-.0000017883	-.0000000018	-.0000007747	-.0000002767	-.0000006260
PCB_95	-.0000044621	-.0000000048	-.0000058200	0.0000012605	-.0000057108
PCB_93_98_100_102	-.0000039258	-.0000000038	-.0000017919	-.0000005553	-.0000014637
PCB_88_91	-.0000029309	-.0000000033	-.0000014990	-.0000003322	-.0000013201
PCB_84	-.0000011804	-.0000000009	-.0000008646	0.0000000104	-.0000007823
PCB_89	0.0000010259	0.0000000011	0.0000004041	0.0000001807	0.0000003199
PCB_121	-.0000001037	-.0000000001	-.0000000437	-.0000000168	-.0000000358
PCB_92	-.0000077564	-.0000000084	-.0000035228	-.0000011038	-.0000029944
PCB_90_101_113	-.0000409855	-.0000000399	-.0000178509	-.0000062139	-.0000143722
PCB_83	0.0000009873	0.0000000009	0.0000004386	0.0000001465	0.0000003391
PCB_99	-.0000432551	-.0000000446	-.0000186924	-.0000067038	-.0000151933
PCB_86_87_97_108_119_125	-.0000250749	-.0000000232	-.0000113789	-.0000035399	-.0000091761
PCB_85_117_116	-.0000036283	-.0000000033	-.0000014898	-.0000005887	-.0000011587
PCB_110_115	-.0000201791	-.0000000197	-.0000103879	-.0000022279	-.0000088341
PCB_82	0.0000013282	0.0000000017	0.0000005220	0.0000002404	0.0000004444
PCB_111	-.0000002374	-.0000000003	-.0000001027	-.0000000373	-.0000000863
PCB_120	-.0000005113	-.0000000006	-.0000002181	-.0000000825	-.0000001853
PCB_107_124	-.0000007078	-.0000000006	-.0000003273	-.0000000938	-.0000002640
PCB_109	-.0000047011	-.0000000050	-.0000019592	-.0000007692	-.0000015792
PCB_123	0.0000004714	0.0000000005	0.0000001695	0.0000000933	0.0000001282
PCB_118	-.0000713056	-.0000000720	-.0000308614	-.0000110794	-.0000247539
PCB_122	0.0000002004	0.0000000003	0.0000000753	0.0000000383	0.0000000610
PCB_114	-.0000006533	-.0000000006	-.0000002451	-.0000001172	-.0000001818

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_171_173	PCB_172	PCB_180_193	PCB_191
PCB_42	-.0000000201	-.0000016134	-.0000000346	-.0000020748	-.0000001168
PCB_40_41_71	-.0000000201	-.0000015997	-.0000000953	-.0000043224	-.0000001278
PCB_64	0.0000000090	0.0000004705	0.0000000148	0.0000009289	0.0000000358
PCB_72	-.0000000053	-.0000006093	-.0000000528	-.0000020807	-.0000000515
PCB_68	-.0000000062	-.0000005852	-.0000000528	-.0000021377	-.0000000502
PCB_57	-.0000000010	-.0000001742	-.0000000158	-.0000005863	-.0000000148
PCB_58	-.0000000003	-.0000000395	-.0000000022	-.0000000889	-.0000000031
PCB_67	0.0000000002	-.0000000581	-.0000000055	-.0000001885	-.0000000048
PCB_63	-.0000000011	-.0000001211	-.0000000137	-.0000005404	-.0000000109
PCB_61_70_74_76	-.0000000193	-.0000014796	-.0000002231	-.0000089998	-.0000001450
PCB_66	-.0000000273	-.0000023625	-.0000002698	-.0000109214	-.0000002139
PCB_56	0.0000000100	0.0000008644	0.0000000902	0.0000036387	0.0000000768
PCB_60	0.0000000048	0.0000004055	0.0000000318	0.0000013194	0.0000000340
PCB_79	-.0000000013	-.0000000784	-.0000000010	-.0000000917	-.0000000056
PCB_81	0.0000000002	0.0000000164	0.0000000017	0.0000000695	0.0000000015
PCB_77	0.0000000038	0.0000003067	0.0000000313	0.0000012695	0.0000000272
PCB_104	-.0000000004	-.0000000300	-.0000000028	-.0000001141	-.0000000026
PCB_96	-.0000000010	-.0000000925	-.0000000052	-.0000002238	-.0000000073
PCB_103	-.0000000025	-.0000002624	-.0000000215	-.0000008700	-.0000000220
PCB_94	-.0000000038	-.0000003107	-.0000000269	-.0000011247	-.0000000265
PCB_95	-.0000000739	-.0000053624	0.0000002150	0.0000049588	-.0000003254
PCB_93_98_100_102	-.0000000103	-.0000007869	-.0000000521	-.0000023188	-.0000000641
PCB_88_91	-.0000000080	-.0000008134	-.0000000242	-.0000012048	-.0000000596
PCB_84	-.0000000088	-.0000006225	0.0000000092	-.0000000713	-.0000000407
PCB_89	0.0000000014	0.0000001324	0.0000000183	0.0000007114	0.0000000126
PCB_121	-.0000000002	-.0000000170	-.0000000016	-.0000000645	-.0000000015
PCB_92	-.0000000149	-.0000016119	-.0000000977	-.0000041681	-.0000001277
PCB_90_101_113	-.0000000929	-.0000072128	-.0000006048	-.0000259033	-.0000006119
PCB_83	0.0000000031	0.0000001731	0.0000000149	0.0000006668	0.0000000150
PCB_99	-.0000000875	-.0000075288	-.0000006473	-.0000269338	-.0000006403
PCB_86_87_97_108_119_125	-.0000000690	-.0000048974	-.0000003388	-.0000153336	-.0000004026
PCB_85_117_116	-.0000000075	-.0000005233	-.0000000603	-.0000025393	-.0000000477
PCB_110_115	-.0000000702	-.0000054813	-.0000001758	-.0000093780	-.0000004085
PCB_82	0.0000000004	0.0000001881	0.0000000228	0.0000008046	0.0000000169
PCB_111	-.0000000004	-.0000000430	-.0000000035	-.0000001371	-.0000000036
PCB_120	-.0000000006	-.0000000905	-.0000000076	-.0000002912	-.0000000076
PCB_107_124	-.0000000021	-.0000001456	-.0000000089	-.0000004271	-.0000000117
PCB_109	-.0000000081	-.0000007346	-.0000000758	-.0000030513	-.0000000649
PCB_123	0.0000000004	0.0000000400	0.0000000099	0.0000003642	0.0000000047
PCB_118	-.0000001591	-.0000122304	-.0000010874	-.0000455582	-.0000010530
PCB_122	0.0000000001	0.0000000227	0.0000000039	0.0000001369	0.0000000023
PCB_114	-.0000000011	-.0000000657	-.0000000126	-.0000005113	-.0000000070

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201
PCB_42	-.0000005113	-.0000002303	-.0000000121	-.0000001275	-.0000001472
PCB_40_41_71	-.0000007509	-.0000005088	-.0000000205	-.0000003878	-.0000003023
PCB_64	0.0000001903	0.0000001987	0.0000000057	0.0000000539	0.0000000540
PCB_72	-.0000003391	-.0000001635	-.0000000090	-.0000002148	-.0000001545
PCB_68	-.0000003414	-.0000002081	-.0000000095	-.0000002150	-.0000001539
PCB_57	-.0000000967	-.0000000285	-.0000000024	-.0000000640	-.0000000455
PCB_58	-.0000000166	-.0000000041	-.0000000004	-.0000000089	-.0000000070
PCB_67	-.0000000292	0.0000000047	-.0000000006	-.0000000238	-.0000000165
PCB_63	-.0000000804	-.0000000509	-.0000000023	-.0000000569	-.0000000392
PCB_61_70_74_76	-.0000012369	-.0000010926	-.0000000380	-.0000009347	-.0000006242
PCB_66	-.0000016129	-.0000012040	-.0000000471	-.0000011172	-.0000007712
PCB_56	0.0000005600	0.0000003888	0.0000000161	0.0000003677	0.0000002577
PCB_60	0.0000002218	0.0000001366	0.0000000062	0.0000001271	0.0000000938
PCB_79	-.0000000243	-.0000000206	-.0000000007	-.0000000028	-.0000000052
PCB_81	0.0000000107	0.0000000070	0.0000000003	0.0000000071	0.0000000050
PCB_77	0.0000001985	0.0000001408	0.0000000058	0.0000001264	0.0000000891
PCB_104	-.0000000180	-.0000000126	-.0000000005	-.0000000113	-.0000000080
PCB_96	-.0000000414	-.0000000191	-.0000000011	-.0000000208	-.0000000164
PCB_103	-.0000001425	-.0000000759	-.0000000038	-.0000000877	-.0000000638
PCB_94	-.0000001801	-.0000001262	-.0000000051	-.0000001093	-.0000000790
PCB_95	-.0000004378	0.0000004605	0.0000000018	0.0000009988	0.0000003587
PCB_93_98_100_102	-.0000003944	-.0000002803	-.0000000110	-.0000002109	-.0000001609
PCB_88_91	-.0000002680	-.0000000752	-.0000000060	-.0000000968	-.0000000929
PCB_84	-.0000001109	-.0000000432	-.0000000020	0.0000000432	-.0000000019
PCB_89	0.0000001028	0.0000000718	0.0000000030	0.0000000755	0.0000000509
PCB_121	-.0000000101	-.0000000058	-.0000000003	-.0000000066	-.0000000047
PCB_92	-.0000007230	-.0000003327	-.0000000183	-.0000004051	-.0000003113
PCB_90_101_113	-.0000041088	-.0000030993	-.0000001180	-.0000024809	-.0000018017
PCB_83	0.0000001071	0.0000001023	0.0000000033	0.0000000593	0.0000000434
PCB_99	-.0000043023	-.0000028890	-.0000001210	-.0000026447	-.0000019105
PCB_86_87_97_108_119_125	-.0000025386	-.0000020332	-.0000000730	-.0000013812	-.0000010440
PCB_85_117_116	-.0000003671	-.0000003311	-.0000000112	-.0000002513	-.0000001736
PCB_110_115	-.0000019757	-.0000011394	-.0000000501	-.0000006893	-.0000006539
PCB_82	0.0000001229	0.0000000284	0.0000000031	0.0000000939	0.0000000638
PCB_111	-.0000000228	-.0000000101	-.0000000006	-.0000000141	-.0000000103
PCB_120	-.0000000481	-.0000000166	-.0000000012	-.0000000311	-.0000000224
PCB_107_124	-.0000000702	-.0000000620	-.0000000020	-.0000000370	-.0000000286
PCB_109	-.0000004683	-.0000003146	-.0000000134	-.0000003106	-.0000002177
PCB_123	0.0000000494	0.0000000369	0.0000000015	0.0000000403	0.0000000258
PCB_118	-.0000072818	-.0000053424	-.0000002104	-.0000043961	-.0000031694
PCB_122	0.0000000198	0.0000000090	0.0000000006	0.0000000157	0.0000000103
PCB_114	-.0000000669	-.0000000685	-.0000000022	-.0000000531	-.0000000347

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195
PCB_42	-.0000000803	-.0000001037	-.0000001174	-.0000005334	-.0000002901
PCB_40_41_71	-.0000001720	-.0000004395	-.0000002570	-.0000009979	-.0000003937
PCB_64	0.0000000324	0.0000000534	0.0000000509	0.0000002168	0.0000001015
PCB_72	-.0000000869	-.0000002545	-.0000001289	-.0000004721	-.0000001685
PCB_68	-.0000000876	-.0000002559	-.0000001310	-.0000004806	-.0000001690
PCB_57	-.0000000253	-.0000000761	-.0000000371	-.0000001338	-.0000000474
PCB_58	-.0000000038	-.0000000099	-.0000000055	-.0000000213	-.0000000088
PCB_67	-.0000000088	-.0000000280	-.0000000123	-.0000000444	-.0000000152
PCB_63	-.0000000223	-.0000000687	-.0000000333	-.0000001202	-.0000000395
PCB_61_70_74_76	-.0000003628	-.0000011491	-.0000005482	-.0000019576	-.0000005982
PCB_66	-.0000004437	-.0000013526	-.0000006669	-.0000024143	-.0000007913
PCB_56	0.0000001481	0.0000004435	0.0000002228	0.0000008074	0.0000002725
PCB_60	0.0000000535	0.0000001498	0.0000000804	0.0000002982	0.0000001097
PCB_79	-.0000000031	-.0000000008	-.0000000047	-.0000000234	-.0000000139
PCB_81	0.0000000028	0.0000000086	0.0000000043	0.0000000154	0.0000000052
PCB_77	0.0000000514	0.0000001526	0.0000000776	0.0000002812	0.0000000958
PCB_104	-.0000000046	-.0000000134	-.0000000069	-.0000000255	-.0000000089
PCB_96	-.0000000092	-.0000000234	-.0000000136	-.0000000524	-.0000000214
PCB_103	-.0000000360	-.0000001034	-.0000000535	-.0000001977	-.0000000715
PCB_94	-.0000000454	-.0000001298	-.0000000682	-.0000002523	-.0000000896
PCB_95	0.0000002274	0.0000014832	0.0000003546	0.0000006970	-.0000004142
PCB_93_98_100_102	-.0000000921	-.0000002430	-.0000001384	-.0000005293	-.0000002027
PCB_88_91	-.0000000498	-.0000000926	-.0000000711	-.0000003064	-.0000001526
PCB_84	0.0000000007	0.0000000801	0.0000000024	-.0000000549	-.0000000788
PCB_89	0.0000000293	0.0000000926	0.0000000440	0.0000001557	0.0000000488
PCB_121	-.0000000027	-.0000000079	-.0000000040	-.0000000145	-.0000000050
PCB_92	-.0000001728	-.0000004580	-.0000002531	-.0000009775	-.0000003849
PCB_90_101_113	-.0000010360	-.0000029309	-.0000015587	-.0000058184	-.0000020750
PCB_83	0.0000000257	0.0000000709	0.0000000395	0.0000001470	0.0000000523
PCB_99	-.0000010920	-.0000031330	-.0000016365	-.0000060601	-.0000021538
PCB_86_87_97_108_119_125	-.0000006022	-.0000015991	-.0000009089	-.0000034767	-.0000013078
PCB_85_117_116	-.0000001010	-.0000003042	-.0000001528	-.0000005582	-.0000001820
PCB_110_115	-.0000003648	-.0000006806	-.0000005396	-.0000022946	-.0000010962
PCB_82	0.0000000353	0.0000001140	0.0000000517	0.0000001811	0.0000000587
PCB_111	-.0000000058	-.0000000166	-.0000000085	-.0000000314	-.0000000114
PCB_120	-.0000000124	-.0000000366	-.0000000182	-.0000000668	-.0000000241
PCB_107_124	-.0000000165	-.0000000420	-.0000000249	-.0000000978	-.0000000377
PCB_109	-.0000001247	-.0000003738	-.0000001870	-.0000006790	-.0000002295
PCB_123	0.0000000151	0.0000000510	0.0000000229	0.0000000775	0.0000000216
PCB_118	-.0000018273	-.0000052385	-.0000027594	-.0000101721	-.0000035907
PCB_122	0.0000000058	0.0000000195	0.0000000087	0.0000000299	0.0000000090
PCB_114	-.0000000204	-.0000000660	-.0000000310	-.0000001098	-.0000000319

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_205	PCB_208	PCB_207	PCB_206
PCB_42	-.0000000189	-.0000000465	-.0000000031	-.0000000054	-.0000000233
PCB_40_41_71	-.0000000780	-.0000000576	-.0000000471	-.0000000239	-.0000001097
PCB_64	0.0000000129	0.0000000152	0.0000000024	0.0000000025	0.0000000126
PCB_72	-.0000000421	-.0000000238	-.0000000304	-.0000000141	-.0000000640
PCB_68	-.0000000437	-.0000000236	-.0000000302	-.0000000141	-.0000000644
PCB_57	-.0000000120	-.0000000067	-.0000000094	-.0000000043	-.0000000191
PCB_58	-.0000000015	-.0000000013	-.0000000011	-.0000000006	-.0000000025
PCB_67	-.0000000040	-.0000000022	-.0000000037	-.0000000016	-.0000000071
PCB_63	-.0000000117	-.0000000054	-.0000000084	-.0000000038	-.0000000174
PCB_61_70_74_76	-.0000002030	-.0000000786	-.0000001404	-.0000000629	-.0000002924
PCB_66	-.0000002354	-.0000001075	-.0000001627	-.0000000742	-.0000003425
PCB_56	0.0000000769	0.0000000373	0.0000000527	0.0000000243	0.0000001119
PCB_60	0.0000000259	0.0000000155	0.0000000171	0.0000000082	0.0000000375
PCB_79	-.0000000006	-.0000000022	0.0000000006	0.0000000000	-.0000000000
PCB_81	0.0000000015	0.0000000007	0.0000000010	0.0000000005	0.0000000022
PCB_77	0.0000000267	0.0000000131	0.0000000180	0.0000000083	0.0000000384
PCB_104	-.0000000023	-.0000000012	-.0000000016	-.0000000007	-.0000000034
PCB_96	-.0000000039	-.0000000032	-.0000000026	-.0000000013	-.0000000058
PCB_103	-.0000000174	-.0000000102	-.0000000122	-.0000000057	-.0000000260
PCB_94	-.0000000227	-.0000000125	-.0000000150	-.0000000071	-.0000000326
PCB_95	0.0000002502	-.0000000943	0.0000002322	0.0000000837	0.0000003930
PCB_93_98_100_102	-.0000000434	-.0000000292	-.0000000265	-.0000000132	-.0000000607
PCB_88_91	-.0000000144	-.0000000243	-.0000000079	-.0000000052	-.0000000223
PCB_84	0.0000000124	-.0000000145	0.0000000150	0.0000000046	0.0000000217
PCB_89	0.0000000159	0.0000000065	0.0000000114	0.0000000051	0.0000000235
PCB_121	-.0000000013	-.0000000007	-.0000000009	-.0000000004	-.0000000020
PCB_92	-.0000000755	-.0000000571	-.0000000520	-.0000000256	-.0000001147
PCB_90_101_113	-.0000005196	-.0000002915	-.0000003353	-.0000001596	-.0000007380
PCB_83	0.0000000134	0.0000000072	0.0000000077	0.0000000037	0.0000000178
PCB_99	-.0000005439	-.0000003023	-.0000003641	-.0000001715	-.0000007884
PCB_86_87_97_108_119_125	-.0000002912	-.0000001871	-.0000001736	-.0000000862	-.0000004009
PCB_85_117_116	-.0000000547	-.0000000246	-.0000000359	-.0000000166	-.0000000772
PCB_110_115	-.0000001242	-.0000001702	-.0000000527	-.0000000363	-.0000001640
PCB_82	0.0000000178	0.0000000081	0.0000000146	0.0000000065	0.0000000288
PCB_111	-.0000000027	-.0000000016	-.0000000020	-.0000000009	-.0000000042
PCB_120	-.0000000059	-.0000000034	-.0000000045	-.0000000021	-.0000000092
PCB_107_124	-.0000000078	-.0000000055	-.0000000044	-.0000000023	-.0000000105
PCB_109	-.0000000644	-.0000000315	-.0000000447	-.0000000205	-.0000000944
PCB_123	0.0000000088	0.0000000026	0.0000000064	0.0000000028	0.0000000129
PCB_118	-.0000009262	-.0000004987	-.0000006025	-.0000002844	-.0000013166
PCB_122	0.0000000032	0.0000000012	0.0000000025	0.0000000011	0.0000000049
PCB_114	-.0000000119	-.0000000041	-.0000000081	-.0000000036	-.0000000168

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_209
PCB_42	0.0000000017
PCB_40_41_71	-.0000000444
PCB_64	-.0000000006
PCB_72	-.0000000315
PCB_68	-.0000000306
PCB_57	-.0000000100
PCB_58	-.0000000012
PCB_67	-.0000000042
PCB_63	-.0000000087
PCB_61_70_74_76	-.0000001424
PCB_66	-.0000001650
PCB_56	0.0000000533
PCB_60	0.0000000169
PCB_79	0.0000000010
PCB_81	0.0000000011
PCB_77	0.0000000180
PCB_104	-.0000000016
PCB_96	-.0000000025
PCB_103	-.0000000124
PCB_94	-.0000000149
PCB_95	0.0000002642
PCB_93_98_100_102	-.0000000252
PCB_88_91	-.0000000069
PCB_84	0.0000000183
PCB_89	0.0000000118
PCB_121	-.0000000010
PCB_92	-.0000000525
PCB_90_101_113	-.0000003286
PCB_83	0.0000000071
PCB_99	-.0000003635
PCB_86_87_97_108_119_125	-.0000001629
PCB_85_117_116	-.0000000356
PCB_110_115	-.0000000373
PCB_82	0.0000000160
PCB_111	-.0000000020
PCB_120	-.0000000047
PCB_107_124	-.0000000040
PCB_109	-.0000000454
PCB_123	0.0000000067
PCB_118	-.0000005933
PCB_122	0.0000000027
PCB_114	-.0000000082

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_105	PCB 105	0.0000004953	0.0000000006	0.0000000559
PCB_127	PCB 127	-.0000000008	0.0000000000	-.0000000000
PCB_155	PCB 155	0.0000000001	0.0000000000	0.0000000000
PCB_152	PCB 152	0.0000000010	0.0000000000	0.0000000001
PCB_150	PCB 150	-.0000000004	-.0000000000	-.0000000001
PCB_136	PCB 136	-.0000001870	-.0000000002	-.0000000157
PCB_145	PCB 145	0.0000000000	-.0000000000	0.0000000000
PCB_148	PCB 148	-.0000000006	0.0000000000	-.0000000001
PCB_135_151	PCB 135/151	-.0000011526	0.0000000009	-.0000000893
PCB_154	PCB 154	-.0000000084	-.0000000001	-.0000000014
PCB_144	PCB 144	-.0000001193	0.0000000001	-.0000000076
PCB_147_149	PCB 147/149	-.0000018875	0.0000000009	-.0000001482
PCB_134_143	PCB 134/143	-.0000000562	-.0000000002	-.0000000049
PCB_139_140	PCB 139/140	-.0000000093	-.0000000001	-.0000000009
PCB_131	PCB 131	-.0000000203	0.0000000001	-.0000000007
PCB_142	PCB 142	-.0000000002	-.0000000000	-.0000000000
PCB_132	PCB 132	-.0000003633	0.0000000003	-.0000000227
PCB_133	PCB 133	-.0000000322	-.0000000001	-.0000000035
PCB_165	PCB 165	-.0000000013	-.0000000000	-.0000000003
PCB_146	PCB 146	-.0000004024	-.0000000001	-.0000000326
PCB_153_168	PCB 153/168	-.0000036807	-.0000000010	-.0000003145
PCB_141	PCB 141	-.0000000597	0.0000000003	-.0000000018
PCB_130	PCB 130	-.0000000871	-.0000000001	-.0000000056
PCB_137	PCB 137	-.0000000041	0.0000000002	0.0000000012
PCB_164	PCB 164	-.0000000916	0.0000000001	-.0000000055
PCB_129_138_163	PCB 129/138/163	-.0000016418	-.0000000037	-.0000001207
PCB_158	PCB 158	-.0000001133	-.0000000005	-.0000000060
PCB_128_166	PCB 128/166	-.0000001363	-.0000000013	-.0000000108
PCB_159	PCB 159	-.0000000002	-.0000000000	-.0000000000
PCB_162	PCB 162	-.0000000085	0.0000000000	-.0000000007
PCB_167	PCB 167	-.0000000867	0.0000000001	-.0000000092
PCB_156_57	PCB 156/57	0.0000000053	-.0000000000	0.0000000006
PCB_169	PCB 169	0.0000000003	-.0000000000	0.0000000002
PCB_188	PCB 188	-.0000000011	0.0000000000	-.0000000001
PCB_179	PCB 179	-.0000003776	0.0000000007	-.0000000267
PCB_184	PCB 184	0.0000000001	-.0000000000	-.0000000000
PCB_176	PCB 176	-.0000001160	0.0000000001	-.0000000082
PCB_178	PCB 178	-.0000002189	0.0000000004	-.0000000155
PCB_175	PCB 175	-.0000000426	0.0000000001	-.0000000029
PCB_187	PCB 187	-.0000013277	0.0000000018	-.0000000924
PCB_182	PCB 182	-.0000000014	0.0000000000	-.0000000001
PCB_183_185	PCB 183/185	-.0000005655	0.0000000002	-.0000000397

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_10	PCB_9	PCB_7	PCB_6
PCB_105	0.0000216609	0.0000009175	0.0000000470	0.0000000635	0.0000005165
PCB_127	-.0000000176	-.0000000009	-.0000000002	-.0000000001	-.0000000016
PCB_155	0.0000000044	0.0000000002	-.0000000000	-.0000000000	-.0000000002
PCB_152	0.0000000493	0.0000000021	0.0000000001	0.0000000001	0.0000000011
PCB_150	-.0000000214	-.0000000008	0.0000000000	-.0000000000	0.0000000001
PCB_136	-.0000077606	-.0000003316	0.0000000039	-.0000000121	-.0000000787
PCB_145	-.0000000001	0.0000000000	0.0000000000	0.0000000000	0.0000000002
PCB_148	-.0000000262	-.0000000011	-.0000000001	-.0000000001	-.0000000007
PCB_135_151	-.0000462393	-.0000020118	-.0000000427	-.0000000954	-.0000008873
PCB_154	-.0000004402	-.0000000174	0.0000000005	-.0000000009	-.0000000004
PCB_144	-.0000046206	-.0000002030	-.0000000006	-.0000000073	-.0000000724
PCB_147_149	-.0000754937	-.0000032781	-.0000000597	-.0000001530	-.0000013871
PCB_134_143	-.0000024873	-.0000001048	0.0000000047	-.0000000025	-.0000000036
PCB_139_140	-.0000004327	-.0000000172	0.0000000033	0.0000000005	0.0000000144
PCB_131	-.0000007114	-.0000000324	0.0000000002	-.0000000007	-.0000000117
PCB_142	-.0000000073	-.0000000003	0.0000000001	0.0000000000	0.0000000002
PCB_132	-.0000144946	-.0000006332	0.0000000095	-.0000000179	-.0000001578
PCB_133	-.0000014087	-.0000000592	-.0000000007	-.0000000031	-.0000000200
PCB_165	-.0000000802	-.0000000030	-.0000000001	-.0000000003	-.0000000009
PCB_146	-.0000165341	-.0000007132	-.0000000056	-.0000000307	-.0000002539
PCB_153_168	-.0001581011	-.0000067920	-.0000000752	-.0000003053	-.0000024633
PCB_141	-.0000019420	-.0000000905	-.0000000032	-.0000000034	-.0000000560
PCB_130	-.0000033889	-.0000001467	0.0000000058	-.0000000029	-.0000000162
PCB_137	0.0000002395	0.0000000065	-.0000000022	-.0000000000	-.0000000168
PCB_164	-.0000033929	-.0000001498	0.0000000003	-.0000000050	-.0000000514
PCB_129_138_163	-.0000687560	-.0000029260	0.0000001651	-.0000000451	0.0000000317
PCB_158	-.0000045990	-.0000001935	0.0000000312	0.0000000061	0.0000001139
PCB_128_166	-.0000062414	-.0000002514	0.0000000525	0.0000000108	0.0000002295
PCB_159	-.0000000073	-.0000000003	0.0000000001	0.0000000000	0.0000000002
PCB_162	-.0000003499	-.0000000155	-.0000000014	-.0000000011	-.0000000128
PCB_167	-.0000038248	-.0000001650	-.0000000144	-.0000000133	-.0000001282
PCB_156_57	0.0000004557	0.0000000193	0.0000000006	0.0000000009	0.0000000075
PCB_169	0.0000000196	0.0000000008	0.0000000007	0.0000000004	0.0000000042
PCB_188	-.0000000414	-.0000000019	-.0000000002	-.0000000001	-.0000000016
PCB_179	-.0000150093	-.0000006592	-.0000000180	-.0000000313	-.0000003201
PCB_184	0.0000000018	0.0000000001	0.0000000000	0.0000000000	0.0000000002
PCB_176	-.0000046606	-.0000002035	-.0000000018	-.0000000082	-.0000000767
PCB_178	-.0000087106	-.0000003827	-.0000000110	-.0000000184	-.0000001889
PCB_175	-.0000016888	-.0000000742	-.0000000015	-.0000000033	-.0000000331
PCB_187	-.0000532086	-.0000023299	-.0000000362	-.0000000990	-.0000009722
PCB_182	-.0000000527	-.0000000023	-.0000000000	-.0000000001	-.0000000011
PCB_183_185	-.0000228986	-.0000009951	0.0000000052	-.0000000344	-.0000002936

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_5	PCB_8	PCB_12_13	PCB_15	PCB_19
PCB_105	0.0000000144	0.0000011513	0.0000010280	0.0000012578	0.0000095405
PCB_127	-.0000000001	-.0000000032	-.0000000007	-.0000000018	-.0000000097
PCB_155	-.0000000000	-.0000000006	0.0000000002	-.0000000001	0.0000000020
PCB_152	0.0000000000	0.0000000024	0.0000000024	0.0000000030	0.0000000218
PCB_150	0.0000000000	-.0000000000	-.0000000010	-.0000000006	-.0000000078
PCB_136	0.0000000034	-.0000000476	-.0000003726	-.0000002844	-.0000035926
PCB_145	0.0000000000	0.0000000008	-.0000000000	0.0000000003	-.0000000002
PCB_148	-.0000000000	-.0000000016	-.0000000012	-.0000000017	-.0000000118
PCB_135_151	-.0000000059	-.0000013029	-.0000021987	-.0000021430	-.0000216854
PCB_154	0.0000000003	-.0000000021	-.0000000215	-.0000000166	-.0000001801
PCB_144	0.0000000010	-.0000000612	-.0000002201	-.0000001817	-.0000022234
PCB_147_149	-.0000000061	-.0000019900	-.0000035882	-.0000034170	-.0000353071
PCB_134_143	0.0000000025	0.0000000408	-.0000001213	-.0000000702	-.0000011499
PCB_139_140	0.0000000014	0.0000000455	-.0000000217	0.0000000057	-.0000001933
PCB_131	0.0000000003	-.0000000015	-.0000000337	-.0000000237	-.0000003637
PCB_142	0.0000000000	0.0000000009	-.0000000004	0.0000000001	-.0000000037
PCB_132	0.0000000078	-.0000000004	-.0000006970	-.0000004990	-.0000069998
PCB_133	0.0000000000	-.0000000356	-.0000000675	-.0000000640	-.0000006254
PCB_165	-.0000000000	-.0000000042	-.0000000039	-.0000000048	-.0000000289
PCB_146	0.0000000018	-.0000003166	-.0000007906	-.0000007058	-.0000077056
PCB_153_168	0.0000000113	-.0000033683	-.0000076044	-.0000071141	-.0000733653
PCB_141	-.0000000008	-.0000000625	-.0000000900	-.0000000871	-.0000010056
PCB_130	0.0000000032	0.0000000536	-.0000001627	-.0000000872	-.0000016231
PCB_137	-.0000000010	-.0000000282	0.0000000144	0.0000000048	0.0000000682
PCB_164	0.0000000009	-.0000000335	-.0000001606	-.0000001235	-.0000016427
PCB_129_138_163	0.0000000843	0.0000018090	-.0000033446	-.0000015647	-.0000324612
PCB_158	0.0000000138	0.0000004580	-.0000002281	0.0000000502	-.0000022430
PCB_128_166	0.0000000227	0.0000007639	-.0000003149	0.0000001233	-.0000029068
PCB_159	0.0000000000	0.0000000009	-.0000000004	0.0000000001	-.0000000037
PCB_162	-.0000000005	-.0000000266	-.0000000165	-.0000000244	-.0000001644
PCB_167	-.0000000048	-.0000002945	-.0000001810	-.0000002687	-.0000017149
PCB_156_57	-.0000000000	0.0000000131	0.0000000237	0.0000000301	0.0000002162
PCB_169	0.0000000003	0.0000000130	0.0000000007	0.0000000064	0.0000000043
PCB_188	-.0000000001	-.0000000032	-.0000000019	-.0000000029	-.0000000198
PCB_179	-.0000000033	-.0000004700	-.0000007136	-.0000007231	-.0000071427
PCB_184	0.0000000000	0.0000000005	0.0000000001	0.0000000003	0.0000000010
PCB_176	0.0000000005	-.0000000842	-.0000002228	-.0000001976	-.0000022184
PCB_178	-.0000000022	-.0000002816	-.0000004141	-.0000004241	-.0000041457
PCB_175	-.0000000002	-.0000000436	-.0000000804	-.0000000771	-.0000008067
PCB_187	-.0000000005	-.0000012080	-.0000025399	-.0000023703	-.0000253722
PCB_182	-.0000000000	-.0000000014	-.0000000025	-.0000000023	-.0000000254
PCB_183_185	0.0000000081	-.0000001883	-.0000010989	-.0000008718	-.0000108983

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_17	PCB_27	PCB_24	PCB_16
PCB_105	-.0000008094	0.0000058595	0.0000152388	-.0000000443	-.0000002303
PCB_127	-.0000000080	-.0000000094	-.0000000359	0.0000000002	-.0000000014
PCB_155	-.0000000014	0.0000000011	0.0000000064	0.0000000000	-.0000000007
PCB_152	-.0000000018	0.0000000136	0.0000000342	-.0000000001	-.0000000006
PCB_150	0.0000000067	-.0000000021	0.0000000012	-.0000000001	0.0000000011
PCB_136	0.0000005118	-.0000023694	-.0000087812	0.0000000183	0.0000003610
PCB_145	0.0000000008	-.0000000003	-.0000000047	-.0000000000	0.0000000006
PCB_148	0.0000000000	-.0000000076	-.0000000203	0.0000000001	0.0000000001
PCB_135_151	0.0000005822	-.0000149882	-.0000533220	0.0000001391	0.0000013980
PCB_154	0.0000000869	-.0000000843	-.0000001790	-.0000000001	0.0000000201
PCB_144	0.0000000440	-.0000015981	-.0000062778	0.0000000155	0.0000001933
PCB_147_149	0.0000014442	-.0000242090	-.0000864220	0.0000002194	0.0000023888
PCB_134_143	0.0000002638	-.0000007436	-.0000028894	0.0000000050	0.0000001564
PCB_139_140	0.0000001304	-.0000001039	-.0000005278	-.0000000001	0.0000000560
PCB_131	-.0000000306	-.0000002890	-.0000012793	0.0000000033	0.0000000365
PCB_142	0.0000000013	-.0000000027	-.0000000148	0.0000000000	0.0000000011
PCB_132	0.0000004043	-.0000050248	-.0000203417	0.0000000472	0.0000007459
PCB_133	0.0000001100	-.0000003807	-.0000011651	0.0000000025	0.0000000446
PCB_165	0.0000000184	-.0000000082	0.0000000294	-.0000000001	0.0000000007
PCB_146	0.0000005841	-.0000052196	-.0000187496	0.0000000452	0.0000006084
PCB_153_168	0.0000056015	-.0000494833	-.0001713115	0.0000004296	0.0000054894
PCB_141	-.0000002147	-.0000008294	-.0000035503	0.0000000104	0.0000000573
PCB_130	0.0000002257	-.0000011273	-.0000047983	0.0000000093	0.0000002159
PCB_137	-.0000001647	-.0000000192	-.0000003336	0.0000000017	-.0000000294
PCB_164	0.0000000315	-.0000011882	-.0000048387	0.0000000115	0.0000001522
PCB_129_138_163	0.0000069015	-.0000217596	-.0000915582	0.0000001586	0.0000048712
PCB_158	0.0000008844	-.0000015130	-.0000080354	0.0000000085	0.0000005811
PCB_128_166	0.0000017773	-.0000017277	-.0000093766	0.0000000029	0.0000008890
PCB_159	0.0000000013	-.0000000027	-.0000000148	0.0000000000	0.0000000011
PCB_162	-.0000000263	-.0000001192	-.0000003530	0.0000000014	-.0000000021
PCB_167	-.0000000951	-.0000011285	-.0000027610	0.0000000110	-.0000000285
PCB_156_57	0.0000000070	0.0000001595	0.0000004367	-.0000000018	-.0000000109
PCB_169	0.0000000098	-.0000000007	-.0000000747	-.0000000000	0.0000000088
PCB_188	-.0000000040	-.0000000148	-.0000000469	0.0000000002	-.0000000003
PCB_179	-.0000001497	-.0000051040	-.0000184535	0.0000000512	0.0000004193
PCB_184	0.0000000011	0.0000000011	0.0000000032	-.0000000000	0.0000000002
PCB_176	0.0000000606	-.0000015695	-.0000058946	0.0000000149	0.0000001762
PCB_178	-.0000001038	-.0000029658	-.0000106841	0.0000000299	0.0000002366
PCB_175	-.0000000076	-.0000005780	-.0000021415	0.0000000057	0.0000000542
PCB_187	0.0000001441	-.0000180856	-.0000671696	0.0000001769	0.0000018271
PCB_182	-.0000000007	-.0000000184	-.0000000706	0.0000000002	0.0000000017
PCB_183_185	0.0000006962	-.0000076480	-.0000295334	0.0000000697	0.0000010338

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25
PCB_105	0.0000020689	0.0000000612	-.0000000025	-.0000017302	0.0000004661
PCB_127	-.0000000067	-.0000000002	-.0000000000	-.0000000086	-.0000000049
PCB_155	0.0000000003	0.0000000000	-.0000000000	0.0000000001	0.0000000003
PCB_152	0.0000000046	0.0000000002	-.0000000000	-.0000000035	0.0000000012
PCB_150	0.0000000013	0.0000000000	0.0000000000	0.0000000096	0.0000000030
PCB_136	-.0000009582	-.0000000264	0.0000000014	-.0000003542	-.0000006184
PCB_145	-.0000000001	-.0000000000	0.0000000000	-.0000000012	-.0000000006
PCB_148	-.0000000030	-.0000000001	0.0000000000	0.0000000010	-.0000000010
PCB_135_151	-.0000066342	-.0000001829	0.0000000068	-.0000033954	-.0000042337
PCB_154	-.0000000066	-.0000000003	0.0000000001	0.0000001035	0.0000000209
PCB_144	-.0000007514	-.0000000203	0.0000000008	-.0000006462	-.0000005641
PCB_147_149	-.0000106142	-.0000002911	0.0000000114	-.0000050679	-.0000067101
PCB_134_143	-.0000002789	-.0000000079	0.0000000005	-.0000001126	-.0000001979
PCB_139_140	-.0000000223	-.0000000006	0.0000000001	0.0000000085	-.0000000232
PCB_131	-.0000001560	-.0000000041	0.0000000001	-.0000002129	-.0000001384
PCB_142	-.0000000012	-.0000000000	0.0000000000	-.0000000022	-.0000000014
PCB_132	-.0000023201	-.0000000632	0.0000000027	-.0000021827	-.0000018400
PCB_133	-.0000001304	-.0000000038	0.0000000002	0.0000000798	-.0000000463
PCB_165	0.0000000051	0.0000000001	0.0000000000	0.0000000398	0.0000000134
PCB_146	-.0000022155	-.0000000615	0.0000000026	-.0000009837	-.0000014124
PCB_153_168	-.0000204245	-.0000005851	0.0000000241	-.0000075788	-.0000125905
PCB_141	-.0000004762	-.0000000123	0.0000000003	-.0000006392	-.0000004037
PCB_130	-.0000005032	-.0000000132	0.0000000007	-.0000004522	-.0000004078
PCB_137	-.0000000763	-.0000000013	-.0000000001	-.0000002112	-.0000000835
PCB_164	-.0000005734	-.0000000150	0.0000000006	-.0000005315	-.0000004421
PCB_129_138_163	-.0000088840	-.0000002416	0.0000000152	-.0000067930	-.0000071783
PCB_158	-.0000006199	-.0000000157	0.0000000015	-.0000008885	-.0000006878
PCB_128_166	-.0000005097	-.0000000131	0.0000000022	-.0000005109	-.0000006218
PCB_159	-.0000000012	-.0000000000	0.0000000000	-.0000000022	-.0000000015
PCB_162	-.0000000560	-.0000000016	0.0000000000	-.0000000241	-.0000000305
PCB_167	-.0000004505	-.0000000137	0.0000000003	0.0000001668	-.0000001397
PCB_156_57	0.0000000596	0.0000000023	-.0000000000	0.0000000414	0.0000000419
PCB_169	-.0000000023	-.0000000000	0.0000000000	-.0000000261	-.0000000110
PCB_188	-.0000000074	-.0000000002	0.0000000000	-.0000000047	-.0000000045
PCB_179	-.0000023669	-.0000000654	0.0000000021	-.0000016307	-.0000016084
PCB_184	0.0000000007	0.0000000000	0.0000000000	0.0000000010	0.0000000005
PCB_176	-.0000007130	-.0000000197	0.0000000007	-.0000005192	-.0000005069
PCB_178	-.0000013770	-.0000000381	0.0000000012	-.0000009467	-.0000009331
PCB_175	-.0000002689	-.0000000074	0.0000000003	-.0000002006	-.0000001890
PCB_187	-.0000083126	-.0000002297	0.0000000081	-.0000061191	-.0000058640
PCB_182	-.0000000089	-.0000000002	0.0000000000	-.0000000073	-.0000000064
PCB_183_185	-.0000034177	-.0000000939	0.0000000040	-.0000025826	-.0000025111

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_31	PCB_20_28	PCB_21_33	PCB_22	PCB_39
PCB_105	-.0000006336	0.0000002361	-.0000004173	-.0000007892	-.0000000047
PCB_127	-.0000000042	-.0000000052	-.0000000001	0.0000000001	0.0000000000
PCB_155	-.0000000009	-.0000000014	-.0000000003	-.0000000004	0.0000000000
PCB_152	-.0000000013	0.0000000010	-.0000000010	-.0000000019	-.0000000000
PCB_150	0.0000000039	0.0000000037	0.0000000006	0.0000000009	-.0000000000
PCB_136	0.0000003943	0.0000004304	0.0000002764	0.0000004315	0.0000000034
PCB_145	0.0000000005	0.0000000011	0.0000000003	0.0000000003	0.0000000000
PCB_148	0.0000000002	-.0000000010	0.0000000005	0.0000000009	0.0000000000
PCB_135_151	0.0000009107	0.0000004601	0.0000013805	0.0000022788	0.0000000289
PCB_154	0.0000000527	0.0000000450	0.0000000132	0.0000000209	-.0000000002
PCB_144	0.0000000934	0.0000001250	0.0000001646	0.0000002595	0.0000000036
PCB_147_149	0.0000017768	0.0000011734	0.0000022816	0.0000037439	0.0000000451
PCB_134_143	0.0000001846	0.0000002265	0.0000001051	0.0000001577	0.0000000009
PCB_139_140	0.0000000824	0.0000001188	0.0000000287	0.0000000388	-.0000000001
PCB_131	-.0000000040	0.0000000164	0.0000000301	0.0000000459	0.0000000009
PCB_142	0.0000000009	0.0000000017	0.0000000006	0.0000000008	0.0000000000
PCB_132	0.0000004521	0.0000006634	0.0000005763	0.0000008855	0.0000000110
PCB_133	0.0000000769	0.0000000527	0.0000000392	0.0000000651	0.0000000003
PCB_165	0.0000000105	0.0000000047	0.0000000008	0.0000000019	-.0000000001
PCB_146	0.0000005415	0.0000004599	0.0000005321	0.0000008578	0.0000000089
PCB_153_168	0.0000050358	0.0000032621	0.0000049639	0.0000080957	0.0000000795
PCB_141	-.0000000864	-.0000000604	0.0000000663	0.0000001072	0.0000000029
PCB_130	0.0000001850	0.0000002870	0.0000001486	0.0000002210	0.0000000022
PCB_137	-.0000000905	-.0000000727	-.0000000128	-.0000000186	0.0000000008
PCB_164	0.0000000721	0.0000001218	0.0000001251	0.0000001946	0.0000000028
PCB_129_138_163	0.0000050220	0.0000071386	0.0000031785	0.0000046770	0.0000000333
PCB_158	0.0000006066	0.0000010429	0.0000003194	0.0000004350	0.0000000023
PCB_128_166	0.0000011437	0.0000017737	0.0000004598	0.0000006168	0.0000000003
PCB_159	0.0000000009	0.0000000017	0.0000000006	0.0000000008	0.0000000000
PCB_162	-.0000000119	-.0000000301	0.0000000056	0.0000000120	0.0000000003
PCB_167	-.0000000292	-.0000002596	0.0000000508	0.0000001159	0.0000000016
PCB_156_57	0.0000000022	0.0000000321	-.0000000143	-.0000000252	-.0000000003
PCB_169	0.0000000066	0.0000000178	0.0000000036	0.0000000040	0.0000000000
PCB_188	-.0000000019	-.0000000038	0.0000000007	0.0000000014	0.0000000000
PCB_179	0.0000001066	-.0000000595	0.0000004467	0.0000007432	0.0000000112
PCB_184	0.0000000006	0.0000000009	0.0000000000	0.0000000000	-.0000000000
PCB_176	0.0000000977	0.0000000915	0.0000001569	0.0000002514	0.0000000033
PCB_178	0.0000000515	-.0000000530	0.0000002567	0.0000004286	0.0000000066
PCB_175	0.0000000181	0.0000000078	0.0000000533	0.0000000872	0.0000000013
PCB_187	0.0000007905	0.0000005352	0.0000017244	0.0000027977	0.0000000391
PCB_182	0.0000000004	0.0000000003	0.0000000017	0.0000000027	0.0000000000
PCB_183_185	0.0000007201	0.0000008572	0.0000008369	0.0000013101	0.0000000153

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_38	PCB_35	PCB_37	PCB_54	PCB_50_53
PCB_105	-.0000000243	-.0000000363	-.0000001192	0.0000005344	0.0000046687
PCB_127	-.0000000002	0.0000000001	-.0000000004	-.0000000014	-.0000000343
PCB_155	-.0000000000	-.0000000000	-.0000000003	0.0000000002	0.0000000055
PCB_152	-.0000000001	-.0000000001	-.0000000002	0.0000000012	0.0000000098
PCB_150	0.0000000001	0.0000000000	0.0000000005	0.0000000002	0.0000000162
PCB_136	-.0000000034	0.0000000160	0.0000001531	-.0000002934	-.0000061253
PCB_145	-.0000000000	0.0000000000	0.0000000002	-.0000000001	-.0000000062
PCB_148	0.0000000000	0.0000000000	0.0000000001	-.0000000007	-.0000000079
PCB_135_151	-.0000000466	0.0000001030	0.0000006148	-.0000018590	-.0000375373
PCB_154	0.0000000017	0.0000000004	0.0000000083	-.0000000044	0.0000000712
PCB_144	-.0000000088	0.0000000114	0.0000000831	-.0000002172	-.0000050151
PCB_147_149	-.0000000691	0.0000001659	0.0000010614	-.0000029929	-.0000605212
PCB_134_143	-.0000000005	0.0000000050	0.0000000623	-.0000000943	-.0000020709
PCB_139_140	0.0000000006	0.0000000007	0.0000000228	-.0000000143	-.0000004048
PCB_131	-.0000000030	0.0000000022	0.0000000157	-.0000000448	-.0000011848
PCB_142	-.0000000000	0.0000000000	0.0000000004	-.0000000005	-.0000000146
PCB_132	-.0000000280	0.0000000359	0.0000003054	-.0000006980	-.0000166130
PCB_133	0.0000000014	0.0000000024	0.0000000196	-.0000000386	-.0000005425
PCB_165	0.0000000006	0.0000000000	0.0000000003	0.0000000013	0.0000000952
PCB_146	-.0000000120	0.0000000356	0.0000002591	-.0000006437	-.0000130396
PCB_153_168	-.0000000803	0.0000003351	0.0000022034	-.0000059448	-.0001138521
PCB_141	-.0000000097	0.0000000063	0.0000000285	-.0000001275	-.0000032993
PCB_130	-.0000000056	0.0000000080	0.0000000918	-.0000001590	-.0000039620
PCB_137	-.0000000038	0.0000000004	-.0000000061	-.0000000134	-.0000006073
PCB_164	-.0000000075	0.0000000085	0.0000000683	-.0000001659	-.0000039923
PCB_129_138_163	-.0000000676	0.0000001518	0.0000019815	-.0000029888	-.0000728334
PCB_158	-.0000000089	0.0000000111	0.0000002358	-.0000002484	-.0000074721
PCB_128_166	-.0000000004	0.0000000120	0.0000003556	-.0000002701	-.0000081669
PCB_159	-.0000000000	0.0000000000	0.0000000004	-.0000000005	-.0000000146
PCB_162	-.0000000004	0.0000000008	-.0000000009	-.0000000136	-.0000002124
PCB_167	0.0000000019	0.0000000072	-.0000000109	-.0000001059	-.0000008829
PCB_156_57	0.0000000002	-.0000000011	0.0000000013	0.0000000180	0.0000002412
PCB_169	-.0000000003	0.0000000000	0.0000000034	-.0000000021	-.0000001148
PCB_188	-.0000000001	0.0000000001	-.0000000001	-.0000000018	-.0000000318
PCB_179	-.0000000230	0.0000000357	0.0000001801	-.0000006539	-.0000136617
PCB_184	0.0000000000	-.0000000000	0.0000000001	0.0000000002	0.0000000028
PCB_176	-.0000000069	0.0000000110	0.0000000737	-.0000002052	-.0000044735
PCB_178	-.0000000134	0.0000000207	0.0000001015	-.0000003793	-.0000078922
PCB_175	-.0000000028	0.0000000041	0.0000000231	-.0000000754	-.0000016251
PCB_187	-.0000000830	0.0000001269	0.0000007646	-.0000023571	-.0000508329
PCB_182	-.0000000001	0.0000000001	0.0000000008	-.0000000025	-.0000000557
PCB_183_185	-.0000000327	0.0000000537	0.0000004275	-.0000010146	-.0000227876

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_46	PCB_52	PCB_73	PCB_43
PCB_105	0.0000037383	-.0000000195	0.0000058189	0.0000002345	0.0000000654
PCB_127	-.0000000062	-.0000000033	-.0000000452	-.0000000003	0.0000000001
PCB_155	0.0000000017	0.0000000003	0.0000000054	-.0000000003	0.0000000001
PCB_152	0.0000000089	-.0000000002	0.0000000163	0.0000000006	0.0000000002
PCB_150	-.0000000006	0.0000000022	0.0000000289	-.0000000002	-.0000000001
PCB_136	-.0000021576	-.0000003625	-.0000075293	0.0000000899	-.0000000502
PCB_145	-.0000000013	-.0000000005	-.0000000076	0.0000000003	-.0000000001
PCB_148	-.0000000049	-.0000000002	-.0000000115	-.0000000003	-.0000000001
PCB_135_151	-.0000126333	-.0000024196	-.0000483751	0.0000002490	-.0000002443
PCB_154	-.0000000593	0.0000000197	0.0000001483	-.0000000010	-.0000000023
PCB_144	-.0000014803	-.0000003522	-.0000064358	0.0000000642	-.0000000300
PCB_147_149	-.0000204977	-.0000038581	-.0000770371	0.0000004456	-.0000004008
PCB_134_143	-.0000007401	-.0000001173	-.0000025557	0.0000000453	-.0000000201
PCB_139_140	-.0000001475	-.0000000187	-.0000004050	0.0000000203	-.0000000055
PCB_131	-.0000002931	-.0000000926	-.0000015391	0.0000000185	-.0000000056
PCB_142	-.0000000038	-.0000000010	-.0000000182	0.0000000005	-.0000000001
PCB_132	-.0000048915	-.0000011574	-.0000214211	0.0000002648	-.0000001089
PCB_133	-.0000002941	-.0000000155	-.0000006270	-.0000000000	-.0000000068
PCB_165	0.0000000033	0.0000000109	0.0000001344	-.0000000025	-.0000000001
PCB_146	-.0000045286	-.0000008045	-.0000165981	0.0000001254	-.0000000960
PCB_153_168	-.0000420871	-.0000066850	-.0001498448	0.0000008493	-.0000009245
PCB_141	-.0000007792	-.0000002685	-.0000043227	0.0000000355	-.0000000115
PCB_130	-.0000011597	-.0000002703	-.0000048538	0.0000000815	-.0000000274
PCB_137	-.0000000213	-.0000000707	-.0000007129	0.0000000038	0.0000000037
PCB_164	-.0000011258	-.0000002870	-.0000050087	0.0000000571	-.0000000222
PCB_129_138_163	-.0000229389	-.0000046351	-.0000893733	0.0000017089	-.0000006058
PCB_158	-.0000020500	-.0000005067	-.0000088233	0.0000002539	-.0000000624
PCB_128_166	-.0000025482	-.0000004756	-.0000090879	0.0000003553	-.0000000906
PCB_159	-.0000000038	-.0000000010	-.0000000183	0.0000000005	-.0000000001
PCB_162	-.0000000804	-.0000000140	-.0000003196	-.0000000044	-.0000000010
PCB_167	-.0000006531	-.0000000157	-.0000014687	-.0000000704	-.0000000079
PCB_156_57	0.0000001293	0.0000000106	0.0000005351	0.0000000034	0.0000000040
PCB_169	-.0000000196	-.0000000095	-.0000001390	0.0000000055	-.0000000008
PCB_188	-.0000000104	-.0000000023	-.0000000461	-.0000000004	-.0000000001
PCB_179	-.0000043330	-.0000009334	-.0000180784	0.0000000850	-.0000000806
PCB_184	0.0000000006	0.0000000003	0.0000000050	0.0000000001	-.0000000000
PCB_176	-.0000014057	-.0000003022	-.0000058264	0.0000000478	-.0000000289
PCB_178	-.0000025072	-.0000005395	-.0000104733	0.0000000460	-.0000000463
PCB_175	-.0000005044	-.0000001120	-.0000021369	0.0000000136	-.0000000097
PCB_187	-.0000159336	-.0000034659	-.0000668199	0.0000004674	-.0000003170
PCB_182	-.0000000163	-.0000000040	-.0000000713	0.0000000005	-.0000000003
PCB_183_185	-.0000071185	-.0000015270	-.0000293275	0.0000003132	-.0000001559

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_48	PCB_44_47_65	PCB_59_62_75	PCB_42
PCB_105	0.0000030412	-.0000003812	0.0000128138	-.0000026492	-.0000003374
PCB_127	-.0000000638	0.0000000025	-.0000000235	-.0000000090	0.0000000011
PCB_155	0.0000000036	-.0000000001	0.0000000063	0.0000000003	0.0000000016
PCB_152	0.0000000091	-.0000000009	0.0000000314	-.0000000063	-.0000000006
PCB_150	0.0000000444	-.0000000012	0.0000000013	0.0000000101	0.0000000005
PCB_136	-.0000069401	0.0000002722	-.0000079275	-.0000001699	-.0000008474
PCB_145	-.0000000072	0.0000000001	-.0000000053	-.0000000014	-.0000000017
PCB_148	-.0000000099	0.0000000007	-.0000000171	0.0000000023	0.0000000006
PCB_135_151	-.0000491551	0.0000019761	-.0000466233	-.0000021139	-.0000035643
PCB_154	0.0000003524	-.0000000073	-.0000001841	0.0000001220	-.0000000112
PCB_144	-.0000067601	0.0000002457	-.0000055546	-.0000005549	-.0000005774
PCB_147_149	-.0000774674	0.0000031272	-.0000754562	-.0000030934	-.0000059602
PCB_134_143	-.0000021996	0.0000000798	-.0000027417	-.0000000480	-.0000003687
PCB_139_140	-.0000002144	0.0000000044	-.0000005408	0.0000000075	-.0000001276
PCB_131	-.0000017249	0.0000000577	-.0000011267	-.0000002087	-.0000001385
PCB_142	-.0000000176	0.0000000005	-.0000000148	-.0000000022	-.0000000031
PCB_132	-.0000220742	0.0000007742	-.0000184611	-.0000018802	-.0000021895
PCB_133	-.0000003930	0.0000000262	-.0000010353	0.0000001274	-.0000000606
PCB_165	0.0000001901	-.0000000047	0.0000000250	0.0000000451	0.0000000114
PCB_146	-.0000161590	0.0000006461	-.0000166887	-.0000005253	-.0000014717
PCB_153_168	-.0001427099	0.0000058477	-.0001552696	-.0000020082	-.0000125850
PCB_141	-.0000050758	0.0000001756	-.0000029945	-.0000006324	-.0000002930
PCB_130	-.0000048302	0.0000001651	-.0000043468	-.0000004197	-.0000006015
PCB_137	-.0000011590	0.0000000372	-.0000001069	-.0000002621	0.0000000009
PCB_164	-.0000053253	0.0000001903	-.0000042227	-.0000004931	-.0000004692
PCB_129_138_163	-.0000831814	0.0000028107	-.0000858397	-.0000056626	-.0000126506
PCB_158	-.0000081732	0.0000002286	-.0000077993	-.0000009361	-.0000016034
PCB_128_166	-.0000068742	0.0000001655	-.0000095702	-.0000005464	-.0000022185
PCB_159	-.0000000177	0.0000000005	-.0000000149	-.0000000022	-.0000000031
PCB_162	-.0000003606	0.0000000165	-.0000002964	-.0000000067	0.0000000053
PCB_167	-.0000013523	0.0000001022	-.0000022851	0.0000003761	0.0000001949
PCB_156_57	0.0000004975	-.0000000194	0.0000005105	-.0000000140	0.0000000240
PCB_169	-.0000001441	0.0000000027	-.0000000822	-.0000000307	-.0000000296
PCB_188	-.0000000539	0.0000000023	-.0000000387	-.0000000029	0.0000000001
PCB_179	-.0000191104	0.0000007422	-.0000161591	-.0000011904	-.0000012186
PCB_184	0.0000000071	-.0000000003	0.0000000024	0.0000000008	-.0000000004
PCB_176	-.0000060057	0.0000002255	-.0000052544	-.0000003956	-.0000004951
PCB_178	-.0000110914	0.0000004317	-.0000093513	-.0000006865	-.0000006903
PCB_175	-.0000022531	0.0000000856	-.0000018864	-.0000001544	-.0000001595
PCB_187	-.0000697117	0.0000026373	-.0000595980	-.0000046321	-.0000052485
PCB_182	-.0000000771	0.0000000029	-.0000000607	-.0000000064	-.0000000054
PCB_183_185	-.0000296786	0.0000010871	-.0000266422	-.0000020266	-.0000028549

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_40_41_71	PCB_64	PCB_72	PCB_68	PCB_57
PCB_105	0.0000015396	-.0000016082	-.0000002922	0.0000003556	-.0000003479
PCB_127	-.0000000012	-.0000000028	-.0000000038	-.0000000027	-.0000000017
PCB_155	0.0000000010	-.0000000006	0.0000000002	0.0000000002	0.0000000000
PCB_152	0.0000000041	-.0000000036	-.0000000005	0.0000000009	-.0000000008
PCB_150	-.0000000003	0.0000000045	0.0000000034	0.0000000016	0.0000000017
PCB_136	-.0000010722	0.0000004707	-.0000003003	-.0000003702	-.0000000527
PCB_145	-.0000000009	0.0000000000	-.0000000005	-.0000000003	-.0000000002
PCB_148	-.0000000020	0.0000000015	-.0000000000	-.0000000007	0.0000000002
PCB_135_151	-.0000058719	0.0000019140	-.0000022748	-.0000025172	-.0000005532
PCB_154	-.0000000330	0.0000000636	0.0000000329	0.0000000095	0.0000000198
PCB_144	-.0000007128	0.0000001349	-.0000003537	-.0000003277	-.0000001116
PCB_147_149	-.0000095377	0.0000033312	-.0000035369	-.0000039918	-.0000008254
PCB_134_143	-.0000003968	0.0000001798	-.0000000959	-.0000001189	-.0000000147
PCB_139_140	-.0000000914	0.0000000587	-.0000000070	-.0000000139	0.0000000024
PCB_131	-.0000001419	-.0000000088	-.0000001006	-.0000000785	-.0000000381
PCB_142	-.0000000023	0.0000000004	-.0000000011	-.0000000008	-.0000000004
PCB_132	-.0000024576	0.0000004753	-.0000011717	-.0000010684	-.0000003712
PCB_133	-.0000001390	0.0000001146	0.0000000045	-.0000000314	0.0000000167
PCB_165	0.0000000021	0.0000000158	0.0000000146	0.0000000069	0.0000000074
PCB_146	-.0000021761	0.0000008280	-.0000007230	-.0000008443	-.0000001528
PCB_153_168	-.0000205413	0.0000083169	-.0000060703	-.0000076295	-.0000010362
PCB_141	-.0000003472	-.0000000711	-.0000002977	-.0000002282	-.0000001163
PCB_130	-.0000005919	0.0000001544	-.0000002549	-.0000002355	-.0000000785
PCB_137	0.0000000224	-.0000000963	-.0000000832	-.0000000429	-.0000000429
PCB_164	-.0000005361	0.0000000873	-.0000002852	-.0000002546	-.0000000944
PCB_129_138_163	-.0000122550	0.0000042130	-.0000041847	-.0000041983	-.0000011054
PCB_158	-.0000011850	0.0000003217	-.0000004675	-.0000003899	-.0000001537
PCB_128_166	-.0000015711	0.0000007141	-.0000003562	-.0000003585	-.0000000782
PCB_159	-.0000000023	0.0000000004	-.0000000011	-.0000000008	-.0000000004
PCB_162	-.0000000322	0.0000000067	-.0000000157	-.0000000186	-.0000000036
PCB_167	-.0000002451	0.0000001982	0.0000000016	-.0000000968	0.0000000385
PCB_156_57	0.0000000782	-.0000000176	0.0000000216	0.0000000272	0.0000000030
PCB_169	-.0000000142	-.0000000027	-.0000000105	-.0000000058	-.0000000047
PCB_188	-.0000000041	0.0000000002	-.0000000026	-.0000000026	-.0000000008
PCB_179	-.0000020100	0.0000004426	-.0000009462	-.0000009478	-.0000002729
PCB_184	0.0000000001	0.0000000004	0.0000000004	0.0000000003	0.0000000002
PCB_176	-.0000006780	0.0000001646	-.0000003008	-.0000002979	-.0000000866
PCB_178	-.0000011607	0.0000002524	-.0000005488	-.0000005501	-.0000001582
PCB_175	-.0000002376	0.0000000494	-.0000001137	-.0000001109	-.0000000338
PCB_187	-.0000075980	0.0000017001	-.0000035004	-.0000034468	-.0000010224
PCB_182	-.0000000074	0.0000000012	-.0000000040	-.0000000037	-.0000000013
PCB_183_185	-.0000035221	0.0000009125	-.0000014971	-.0000014727	-.0000004298

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_67	PCB_63	PCB_61_70_74_76	PCB_66
PCB_105	-.0000000721	-.0000003417	0.0000000841	0.0000056314	0.0000044707
PCB_127	-.0000000002	-.0000000009	-.0000000008	-.0000000063	-.0000000105
PCB_155	0.0000000000	-.0000000000	0.0000000000	-.0000000002	0.0000000003
PCB_152	-.0000000002	-.0000000007	0.0000000003	0.0000000142	0.0000000114
PCB_150	0.0000000003	0.0000000013	0.0000000005	-.0000000023	0.0000000025
PCB_136	-.0000000124	0.0000000135	-.0000000768	-.0000015164	-.0000018634
PCB_145	-.0000000001	-.0000000001	-.0000000000	0.0000000009	-.0000000002
PCB_148	0.0000000001	0.0000000003	-.0000000002	-.0000000075	-.0000000065
PCB_135_151	-.0000000925	-.0000000887	-.0000005932	-.0000106359	-.0000128745
PCB_154	0.0000000032	0.0000000154	0.0000000038	-.0000000814	-.0000000297
PCB_144	-.0000000203	-.0000000439	-.0000000761	-.0000009694	-.0000014092
PCB_147_149	-.0000001398	-.0000000853	-.0000009247	-.0000169251	-.0000204430
PCB_134_143	-.0000000050	0.0000000052	-.0000000228	-.0000004384	-.0000005697
PCB_139_140	-.0000000008	0.0000000049	0.0000000000	-.0000000088	-.0000000392
PCB_131	-.0000000069	-.0000000200	-.0000000188	-.0000001399	-.0000002780
PCB_142	-.0000000001	-.0000000002	-.0000000002	-.0000000004	-.0000000022
PCB_132	-.0000000721	-.0000001536	-.0000002433	-.0000028977	-.0000044341
PCB_133	0.0000000028	0.0000000190	-.0000000057	-.0000003074	-.0000002729
PCB_165	0.0000000013	0.0000000052	0.0000000019	-.0000000193	0.0000000042
PCB_146	-.0000000288	-.0000000022	-.0000001907	-.0000036134	-.0000043511
PCB_153_168	-.0000002027	0.0000001809	-.0000017688	-.0000368788	-.0000421479
PCB_141	-.0000000195	-.0000000623	-.0000000572	-.0000004425	-.0000008292
PCB_130	-.0000000164	-.0000000279	-.0000000490	-.0000005403	-.0000009113
PCB_137	-.0000000063	-.0000000268	-.0000000118	0.0000000677	-.0000000547
PCB_164	-.0000000171	-.0000000386	-.0000000580	-.0000006543	-.0000010288
PCB_129_138_163	-.0000002688	-.0000002770	-.0000008260	-.0000107423	-.0000170194
PCB_158	-.0000000388	-.0000000640	-.0000000667	-.0000002034	-.0000010686
PCB_128_166	-.0000000336	-.0000000026	-.0000000387	-.0000000766	-.0000009164
PCB_159	-.0000000001	-.0000000002	-.0000000002	-.0000000004	-.0000000022
PCB_162	-.0000000003	-.0000000008	-.0000000054	-.0000001122	-.0000001171
PCB_167	0.0000000106	0.0000000421	-.0000000301	-.0000011995	-.0000010061
PCB_156_57	0.0000000008	0.0000000022	0.0000000085	0.0000001877	0.0000001907
PCB_169	-.0000000011	-.0000000030	-.0000000010	0.0000000207	-.0000000007
PCB_188	-.0000000001	-.0000000003	-.0000000008	-.0000000131	-.0000000148
PCB_179	-.0000000452	-.0000000924	-.0000002320	-.0000036293	-.0000046107
PCB_184	0.0000000000	0.0000000001	0.0000000001	0.0000000012	0.0000000015
PCB_176	-.0000000157	-.0000000292	-.0000000700	-.0000010403	-.0000013852
PCB_178	-.0000000261	-.0000000538	-.0000001353	-.0000021245	-.0000026879
PCB_175	-.0000000058	-.0000000123	-.0000000268	-.0000003950	-.0000005205
PCB_187	-.0000001802	-.0000003602	-.0000008254	-.0000123049	-.0000162012
PCB_182	-.0000000002	-.0000000005	-.0000000009	-.0000000116	-.0000000164
PCB_183_185	-.0000000829	-.0000001434	-.0000003353	-.0000047854	-.0000066198

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_56	PCB_60	PCB_79	PCB_81	PCB_77
PCB_105	-.0000012841	-.0000003218	0.0000001399	-.0000000176	-.0000005368
PCB_127	0.0000000039	0.0000000014	0.0000000004	0.0000000001	0.0000000012
PCB_155	-.0000000002	-.0000000002	0.0000000001	-.0000000000	-.0000000001
PCB_152	-.0000000031	-.0000000007	0.0000000003	-.0000000000	-.0000000012
PCB_150	-.0000000010	-.0000000005	-.0000000005	-.0000000000	-.0000000000
PCB_136	0.0000006462	0.0000002694	-.0000000617	0.0000000114	0.0000002418
PCB_145	0.0000000002	0.0000000002	-.0000000000	0.0000000000	0.0000000000
PCB_148	0.0000000019	0.0000000005	-.0000000001	0.0000000000	0.0000000007
PCB_135_151	0.0000043615	0.0000016641	-.0000002241	0.0000000808	0.0000015704
PCB_154	0.0000000049	0.0000000001	-.0000000070	-.0000000002	0.0000000054
PCB_144	0.0000005024	0.0000002107	-.0000000212	0.0000000099	0.0000001746
PCB_147_149	0.0000069637	0.0000026833	-.0000003945	0.0000001282	0.0000025293
PCB_134_143	0.0000001987	0.0000000896	-.0000000256	0.0000000034	0.0000000745
PCB_139_140	0.0000000201	0.0000000163	-.0000000093	0.0000000003	0.0000000095
PCB_131	0.0000001050	0.0000000472	-.0000000010	0.0000000023	0.0000000342
PCB_142	0.0000000009	0.0000000006	-.0000000001	0.0000000000	0.0000000003
PCB_132	0.0000015889	0.0000006909	-.0000000819	0.0000000313	0.0000005477
PCB_133	0.0000000849	0.0000000288	-.0000000124	0.0000000012	0.0000000354
PCB_165	-.0000000038	-.0000000029	-.0000000014	-.0000000002	-.0000000002
PCB_146	0.0000014761	0.0000005787	-.0000001021	0.0000000268	0.0000005390
PCB_153_168	0.0000137991	0.0000051750	-.0000009830	0.0000002450	0.0000050178
PCB_141	0.0000003104	0.0000001320	0.0000000050	0.0000000068	0.0000001001
PCB_130	0.0000003444	0.0000001625	-.0000000266	0.0000000067	0.0000001227
PCB_137	0.0000000387	0.0000000201	0.0000000109	0.0000000013	0.0000000098
PCB_164	0.0000003794	0.0000001651	-.0000000154	0.0000000076	0.0000001321
PCB_129_138_163	0.0000062945	0.0000030213	-.0000006788	0.0000001171	0.0000022834
PCB_158	0.0000004716	0.0000002891	-.0000000691	0.0000000094	0.0000001677
PCB_128_166	0.0000004384	0.0000003184	-.0000001279	0.0000000075	0.0000001743
PCB_159	0.0000000009	0.0000000006	-.0000000001	0.0000000000	0.0000000003
PCB_162	0.0000000359	0.0000000104	0.0000000001	0.0000000007	0.0000000124
PCB_167	0.0000002816	0.0000000617	-.0000000110	0.0000000044	0.0000001071
PCB_156_57	-.0000000491	-.0000000129	0.0000000016	-.0000000009	-.0000000148
PCB_169	0.0000000031	0.0000000038	-.0000000004	0.0000000001	0.0000000006
PCB_188	0.0000000047	0.0000000015	0.0000000001	0.0000000001	0.0000000016
PCB_179	0.0000015641	0.0000005960	-.0000000528	0.0000000300	0.0000005459
PCB_184	-.0000000005	-.0000000001	-.0000000001	-.0000000000	-.0000000001
PCB_176	0.0000004783	0.0000001922	-.0000000225	0.0000000092	0.0000001676
PCB_178	0.0000009096	0.0000003448	-.0000000297	0.0000000174	0.0000003172
PCB_175	0.0000001787	0.0000000701	-.0000000064	0.0000000035	0.0000000622
PCB_187	0.0000055562	0.0000021920	-.0000002257	0.0000001068	0.0000019366
PCB_182	0.0000000058	0.0000000024	-.0000000002	0.0000000001	0.0000000020
PCB_183_185	0.0000023189	0.0000009694	-.0000001336	0.0000000443	0.0000008159

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_104	PCB_96	PCB_103	PCB_94	PCB_95
PCB_105	0.0000000425	-.0000000355	-.0000000194	0.0000004386	-.0000071440
PCB_127	-.0000000001	-.0000000003	-.0000000013	-.0000000009	0.0000000235
PCB_155	0.0000000000	0.0000000001	0.0000000001	0.0000000001	0.0000000087
PCB_152	0.0000000001	-.0000000001	0.0000000000	0.0000000011	-.0000000180
PCB_150	0.0000000000	0.0000000003	0.0000000011	0.0000000001	-.0000000062
PCB_136	-.0000000220	-.0000000469	-.0000001423	-.0000002285	-.0000021018
PCB_145	-.0000000000	-.0000000001	-.0000000002	-.0000000001	-.0000000090
PCB_148	-.0000000001	0.0000000000	-.0000000001	-.0000000006	0.0000000117
PCB_135_151	-.0000001409	-.0000002798	-.0000009946	-.0000014172	-.0000010247
PCB_154	-.0000000004	0.0000000025	0.0000000093	-.0000000052	-.0000000732
PCB_144	-.0000000162	-.0000000444	-.0000001449	-.0000001628	-.0000010423
PCB_147_149	-.0000002260	-.0000004469	-.0000015621	-.0000022822	-.0000036268
PCB_134_143	-.0000000071	-.0000000174	-.0000000473	-.0000000755	-.0000012407
PCB_139_140	-.0000000010	-.0000000040	-.0000000056	-.0000000121	-.0000006776
PCB_131	-.0000000033	-.0000000120	-.0000000385	-.0000000324	-.0000003043
PCB_142	-.0000000000	-.0000000002	-.0000000004	-.0000000004	-.0000000131
PCB_132	-.0000000523	-.0000001540	-.0000004825	-.0000005288	-.0000052392
PCB_133	-.0000000030	-.0000000011	-.0000000047	-.0000000316	-.0000000133
PCB_165	0.0000000001	0.0000000015	0.0000000048	0.0000000005	0.0000000392
PCB_146	-.0000000488	-.0000000976	-.0000003281	-.0000004970	-.0000019178
PCB_153_168	-.0000004594	-.0000008142	-.0000028649	-.0000046717	-.0000088852
PCB_141	-.0000000093	-.0000000326	-.0000001115	-.0000000900	-.0000002416
PCB_130	-.0000000116	-.0000000371	-.0000001066	-.0000001201	-.0000019673
PCB_137	-.0000000007	-.0000000073	-.0000000260	-.0000000045	0.0000001380
PCB_164	-.0000000122	-.0000000362	-.0000001149	-.0000001225	-.0000010288
PCB_129_138_163	-.0000002218	-.0000006779	-.0000018490	-.0000023257	-.0000450357
PCB_158	-.0000000177	-.0000000814	-.0000001961	-.0000001912	-.0000072133
PCB_128_166	-.0000000192	-.0000000883	-.0000001731	-.0000002200	-.0000110748
PCB_159	-.0000000000	-.0000000002	-.0000000004	-.0000000004	-.0000000133
PCB_162	-.0000000011	-.0000000011	-.0000000067	-.0000000103	0.0000002059
PCB_167	-.0000000087	0.0000000061	-.0000000129	-.0000000854	0.0000024326
PCB_156_57	0.0000000017	0.0000000020	0.0000000107	0.0000000164	-.0000001947
PCB_169	-.0000000001	-.0000000017	-.0000000039	-.0000000015	-.0000001534
PCB_188	-.0000000001	-.0000000002	-.0000000011	-.0000000013	0.0000000235
PCB_179	-.0000000498	-.0000001093	-.0000003955	-.0000004943	0.0000002184
PCB_184	0.0000000000	0.0000000000	0.0000000001	0.0000000001	-.0000000048
PCB_176	-.0000000155	-.0000000376	-.0000001267	-.0000001560	-.0000006489
PCB_178	-.0000000289	-.0000000629	-.0000002292	-.0000002868	0.0000002426
PCB_175	-.0000000057	-.0000000135	-.0000000472	-.0000000569	-.0000000917
PCB_187	-.0000001790	-.0000004240	-.0000014646	-.0000017883	-.0000044621
PCB_182	-.0000000002	-.0000000005	-.0000000016	-.0000000018	-.0000000048
PCB_183_185	-.0000000765	-.0000001978	-.0000006343	-.0000007747	-.0000058200

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_93_98_100_102	PCB_88_91	PCB_84	PCB_89	PCB_121
PCB_105	0.0000010409	-.0000010108	-.0000001085	-.0000002231	0.0000000042
PCB_127	-.0000000007	-.0000000014	0.0000000028	0.0000000010	-.0000000001
PCB_155	0.0000000005	0.0000000006	0.0000000008	0.0000000000	0.0000000000
PCB_152	0.0000000026	-.0000000020	-.0000000001	-.0000000005	0.0000000000
PCB_150	-.0000000007	0.0000000033	-.0000000013	-.0000000004	0.0000000001
PCB_136	-.0000005672	-.0000003123	-.0000003248	0.0000001023	-.0000000099
PCB_145	-.0000000004	-.0000000011	-.0000000008	-.0000000000	-.0000000000
PCB_148	-.0000000013	0.0000000010	0.0000000004	0.0000000004	-.0000000000
PCB_135_151	-.0000031516	-.0000015833	-.0000008076	0.0000007934	-.0000000726
PCB_154	-.0000000229	0.0000000314	-.0000000225	-.0000000018	0.0000000006
PCB_144	-.0000003609	-.0000003350	-.0000001460	0.0000000910	-.0000000100
PCB_147_149	-.0000051358	-.0000025034	-.0000014783	0.0000012484	-.0000001137
PCB_134_143	-.0000002028	-.0000001429	-.0000001643	0.0000000276	-.0000000031
PCB_139_140	-.0000000448	-.0000000436	-.0000000705	-.0000000010	-.0000000002
PCB_131	-.0000000668	-.0000001032	-.0000000278	0.0000000201	-.0000000026
PCB_142	-.0000000010	-.0000000018	-.0000000013	0.0000000001	-.0000000000
PCB_132	-.0000012173	-.0000012608	-.0000006593	0.0000002776	-.0000000325
PCB_133	-.0000000829	0.0000000220	-.0000000341	0.0000000124	-.0000000005
PCB_165	-.0000000012	0.0000000171	-.0000000005	-.0000000012	0.0000000003
PCB_146	-.0000011608	-.0000005893	-.0000004552	0.0000002550	-.0000000236
PCB_153_168	-.0000109975	-.0000046148	-.0000040425	0.0000023936	-.0000002109
PCB_141	-.0000001656	-.0000002600	-.0000000116	0.0000000640	-.0000000076
PCB_130	-.0000002931	-.0000003139	-.0000002132	0.0000000549	-.0000000070
PCB_137	0.0000000157	-.0000000573	0.0000000481	0.0000000122	-.0000000017
PCB_164	-.0000002698	-.0000002782	-.0000001178	0.0000000684	-.0000000078
PCB_129_138_163	-.0000060717	-.0000059626	-.0000051665	0.0000009096	-.0000001188
PCB_158	-.0000005467	-.0000008355	-.0000006945	0.0000000523	-.0000000114
PCB_128_166	-.0000007373	-.0000009653	-.0000011144	0.0000000145	-.0000000089
PCB_159	-.0000000010	-.0000000018	-.0000000013	0.0000000001	-.0000000000
PCB_162	-.0000000189	0.0000000017	0.0000000117	0.0000000077	-.0000000006
PCB_167	-.0000001701	0.0000001945	0.0000001206	0.0000000584	-.0000000022
PCB_156_57	0.0000000381	0.0000000176	0.0000000076	-.0000000098	0.0000000008
PCB_169	-.0000000049	-.0000000200	-.0000000122	0.0000000001	-.0000000002
PCB_188	-.0000000023	-.0000000005	0.0000000015	0.0000000010	-.0000000001
PCB_179	-.0000010557	-.0000006883	-.0000001971	0.0000002963	-.0000000286
PCB_184	0.0000000001	0.0000000001	-.0000000004	-.0000000001	0.0000000000
PCB_176	-.0000003492	-.0000002669	-.0000001270	0.0000000865	-.0000000089
PCB_178	-.0000006102	-.0000003927	-.0000001050	0.0000001730	-.0000000166
PCB_175	-.0000001231	-.0000000915	-.0000000317	0.0000000334	-.0000000034
PCB_187	-.0000039258	-.0000029309	-.0000011804	0.0000010259	-.0000001037
PCB_182	-.0000000038	-.0000000033	-.0000000009	0.0000000011	-.0000000001
PCB_183_185	-.0000017919	-.0000014990	-.0000008646	0.0000004041	-.0000000437

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_90_101_113	PCB_83	PCB_99	PCB_86_87_97_108_119_125
PCB_105	-.0000010876	0.0000126478	-.0000007060	0.0000082092	0.0000098332
PCB_127	-.0000000059	-.0000000126	-.0000000003	-.0000000246	0.0000000008
PCB_155	0.0000000007	0.0000000033	-.0000000001	0.0000000030	0.0000000031
PCB_152	-.0000000016	0.0000000318	-.0000000016	0.0000000210	0.0000000243
PCB_150	0.0000000076	-.0000000054	0.0000000013	0.0000000089	-.0000000122
PCB_136	-.0000007300	-.0000055738	0.0000001886	-.0000052027	-.0000039440
PCB_145	-.0000000016	-.0000000019	-.0000000001	-.0000000031	-.0000000013
PCB_148	0.0000000005	-.0000000164	0.0000000008	-.0000000122	-.0000000116
PCB_135_151	-.0000047784	-.0000333909	0.0000009945	-.0000331204	-.0000214100
PCB_154	0.0000000673	-.0000002253	0.0000000203	-.0000000372	-.0000002557
PCB_144	-.0000007970	-.0000036208	0.0000000777	-.0000039919	-.0000021857
PCB_147_149	-.0000074269	-.0000539277	0.0000016618	-.0000529834	-.0000350780
PCB_134_143	-.0000002808	-.0000018888	0.0000000627	-.0000017274	-.0000014035
PCB_139_140	-.0000000489	-.0000003247	0.0000000141	-.0000002568	-.0000003095
PCB_131	-.0000002282	-.0000006463	0.0000000034	-.0000008554	-.0000003212
PCB_142	-.0000000031	-.0000000079	0.0000000001	-.0000000096	-.0000000053
PCB_132	-.0000028040	-.0000118489	0.0000002391	-.0000130709	-.0000073091
PCB_133	0.0000000145	-.0000008772	0.0000000445	-.0000006244	-.0000007001
PCB_165	0.0000000336	-.0000000213	0.0000000052	0.0000000398	-.0000000442
PCB_146	-.0000016191	-.0000119546	0.0000003784	-.0000114809	-.0000080223
PCB_153_168	-.0000140604	-.0001156397	0.0000037731	-.0001072658	-.0000786005
PCB_141	-.0000006267	-.0000017149	0.0000000027	-.0000023998	-.0000007276
PCB_130	-.0000006292	-.0000026839	0.0000000613	-.0000029216	-.0000017587
PCB_137	-.0000001363	0.0000001453	-.0000000248	-.0000002287	0.0000003081
PCB_164	-.0000006339	-.0000026437	0.0000000524	-.0000030233	-.0000015652
PCB_129_138_163	-.0000113833	-.0000547499	0.0000014619	-.0000554664	-.0000385732
PCB_158	-.0000013756	-.0000042201	0.0000000740	-.0000047950	-.0000030439
PCB_128_166	-.0000013609	-.0000053828	0.0000001589	-.0000051655	-.0000045946
PCB_159	-.0000000031	-.0000000079	0.0000000001	-.0000000096	-.0000000053
PCB_162	-.0000000246	-.0000002486	0.0000000072	-.0000002430	-.0000001402
PCB_167	0.0000001186	-.0000023637	0.0000001120	-.0000017380	-.0000016101
PCB_156_57	0.0000000729	0.0000004647	-.0000000102	0.0000004089	0.0000002981
PCB_169	-.0000000314	-.0000000188	-.0000000022	-.0000000521	-.0000000078
PCB_188	-.0000000044	-.0000000301	0.0000000007	-.0000000322	-.0000000156
PCB_179	-.0000020056	-.0000113346	0.0000002816	-.0000119008	-.0000068325
PCB_184	0.0000000007	0.0000000019	0.0000000000	0.0000000030	0.0000000001
PCB_176	-.0000006787	-.0000035879	0.0000000884	-.0000037627	-.0000022339
PCB_178	-.0000011593	-.0000065790	0.0000001632	-.0000069063	-.0000039549
PCB_175	-.0000002473	-.0000012957	0.0000000306	-.0000013803	-.0000007811
PCB_187	-.0000077564	-.0000409855	0.0000009873	-.0000432551	-.0000250749
PCB_182	-.0000000084	-.0000000399	0.0000000009	-.0000000446	-.0000000232
PCB_183_185	-.0000035228	-.0000178509	0.0000004386	-.0000186924	-.0000113789

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_117_116	PCB_110_115	PCB_82	PCB_111	PCB_120
PCB_105	0.0000018230	0.0000017418	0.0000005931	-.0000000337	-.0000001440
PCB_127	-.0000000007	0.0000000039	0.0000000028	-.0000000003	-.0000000007
PCB_155	0.0000000001	0.0000000049	0.0000000001	0.0000000000	0.0000000000
PCB_152	0.0000000045	0.0000000054	0.0000000013	-.0000000001	-.0000000003
PCB_150	-.0000000017	-.0000000019	-.0000000029	0.0000000003	0.0000000008
PCB_136	-.0000005161	-.0000032288	0.0000000284	-.0000000195	-.0000000315
PCB_145	0.0000000002	-.0000000049	0.0000000003	-.0000000000	-.0000000001
PCB_148	-.0000000023	-.0000000016	-.0000000004	0.0000000000	0.0000000001
PCB_135_151	-.0000032218	-.0000147969	0.0000006468	-.0000001483	-.0000002875
PCB_154	-.0000000372	-.0000000993	-.0000000341	0.0000000026	0.0000000085
PCB_144	-.0000002874	-.0000020572	0.0000001457	-.0000000245	-.0000000547
PCB_147_149	-.0000051973	-.0000245110	0.0000009156	-.0000002294	-.0000004332
PCB_134_143	-.0000001640	-.0000013341	0.0000000009	-.0000000064	-.0000000099
PCB_139_140	-.0000000194	-.0000004128	-.0000000116	-.0000000005	0.0000000003
PCB_131	-.0000000349	-.0000004380	0.0000000543	-.0000000072	-.0000000179
PCB_142	-.0000000003	-.0000000094	0.0000000004	-.0000000001	-.0000000002
PCB_132	-.0000008907	-.0000075899	0.0000004741	-.0000000822	-.0000001840
PCB_133	-.0000001077	-.0000003427	-.0000000333	0.0000000010	0.0000000064
PCB_165	-.0000000087	0.0000000171	-.0000000118	0.0000000011	0.0000000033
PCB_146	-.0000011466	-.0000059185	0.0000001468	-.0000000468	-.0000000841
PCB_153_168	-.0000117011	-.0000537913	0.0000008163	-.0000003840	-.0000006282
PCB_141	-.0000000959	-.0000009257	0.0000001728	-.0000000212	-.0000000537
PCB_130	-.0000001844	-.0000020074	0.0000000912	-.0000000180	-.0000000392
PCB_137	0.0000000449	0.0000001094	0.0000000700	-.0000000062	-.0000000181
PCB_164	-.0000001926	-.0000016045	0.0000001244	-.0000000199	-.0000000454
PCB_129_138_163	-.0000040115	-.0000429778	0.0000010382	-.0000002943	-.0000005903
PCB_158	-.0000001607	-.0000049472	0.0000001597	-.0000000349	-.0000000780
PCB_128_166	-.0000002425	-.0000069767	-.0000000006	-.0000000272	-.0000000485
PCB_159	-.0000000002	-.0000000094	0.0000000005	-.0000000001	-.0000000002
PCB_162	-.0000000301	-.0000000241	0.0000000059	-.0000000009	-.0000000019
PCB_167	-.0000003513	0.0000000641	-.0000000583	0.0000000026	0.0000000152
PCB_156_57	0.0000000552	0.0000001622	-.0000000044	0.0000000014	0.0000000025
PCB_169	0.0000000054	-.0000000786	0.0000000063	-.0000000008	-.0000000022
PCB_188	-.0000000033	-.0000000037	0.0000000012	-.0000000002	-.0000000004
PCB_179	-.0000010481	-.0000049415	0.0000003627	-.0000000634	-.0000001359
PCB_184	0.0000000002	-.0000000009	-.0000000003	0.0000000000	0.0000000001
PCB_176	-.0000003129	-.0000018686	0.0000001094	-.0000000204	-.0000000436
PCB_178	-.0000006116	-.0000028224	0.0000002113	-.0000000367	-.0000000788
PCB_175	-.0000001148	-.0000006169	0.0000000447	-.0000000077	-.0000000168
PCB_187	-.0000036283	-.0000201791	0.0000013282	-.0000002374	-.0000005113
PCB_182	-.0000000033	-.0000000197	0.0000000017	-.0000000003	-.0000000006
PCB_183_185	-.0000014898	-.0000103879	0.0000005220	-.0000001027	-.0000002181

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_107_124	PCB_109	PCB_123	PCB_118	PCB_122
PCB_105	0.0000003318	0.0000008709	-.0000001576	0.0000220070	0.0000000231
PCB_127	0.0000000003	-.0000000036	0.0000000006	-.0000000303	0.0000000004
PCB_155	0.0000000001	0.0000000002	0.0000000000	0.0000000057	0.0000000000
PCB_152	0.0000000009	0.0000000022	-.0000000003	0.0000000517	0.0000000001
PCB_150	-.0000000005	0.0000000015	-.0000000001	-.0000000099	-.0000000003
PCB_136	-.0000001204	-.0000005179	0.0000000441	-.0000096512	0.0000000102
PCB_145	-.0000000000	-.0000000002	-.0000000000	-.0000000026	0.0000000000
PCB_148	-.0000000004	-.0000000014	0.0000000002	-.0000000282	0.0000000000
PCB_135_151	-.0000006193	-.0000035828	0.0000003927	-.0000586774	0.0000001280
PCB_154	-.0000000099	0.0000000036	-.0000000005	-.0000003607	-.0000000031
PCB_144	-.0000000590	-.0000004294	0.0000000399	-.0000063824	0.0000000200
PCB_147_149	-.0000010168	-.0000056857	0.0000006191	-.0000950821	0.0000001933
PCB_134_143	-.0000000449	-.0000001601	0.0000000082	-.0000031527	0.0000000012
PCB_139_140	-.0000000105	-.0000000139	-.0000000029	-.0000005314	-.0000000016
PCB_131	-.0000000067	-.0000000950	0.0000000081	-.0000011601	0.0000000062
PCB_142	-.0000000002	-.0000000009	-.0000000000	-.0000000128	0.0000000000
PCB_132	-.0000002037	-.0000013705	0.0000001085	-.0000204718	0.0000000603
PCB_133	-.0000000233	-.0000000594	0.0000000072	-.0000015108	-.0000000016
PCB_165	-.0000000020	0.0000000057	-.0000000002	-.0000000307	-.0000000011
PCB_146	-.0000002400	-.0000012006	0.0000001198	-.0000207676	0.0000000342
PCB_153_168	-.0000024481	-.0000111880	0.0000011122	-.0001964387	0.0000002617
PCB_141	-.0000000110	-.0000002814	0.0000000296	-.0000031961	0.0000000208
PCB_130	-.0000000488	-.0000002927	0.0000000194	-.0000047139	0.0000000114
PCB_137	0.0000000162	-.0000000421	0.0000000078	0.0000000185	0.0000000080
PCB_164	-.0000000397	-.0000003256	0.0000000301	-.0000047618	0.0000000165
PCB_129_138_163	-.0000011633	-.0000052689	0.0000002548	-.0000930318	0.0000001296
PCB_158	-.0000000881	-.0000004158	-.0000000051	-.0000071310	0.0000000122
PCB_128_166	-.0000001487	-.0000003608	-.0000000379	-.0000087516	-.0000000087
PCB_159	-.0000000002	-.0000000009	-.0000000000	-.0000000128	0.0000000000
PCB_162	-.0000000041	-.0000000297	0.0000000045	-.0000004319	0.0000000013
PCB_167	-.0000000535	-.0000002092	0.0000000393	-.0000040559	0.0000000020
PCB_156_57	0.0000000116	0.0000000437	-.0000000031	0.0000006292	-.0000000006
PCB_169	0.0000000000	-.0000000041	-.0000000007	-.0000000273	0.0000000004
PCB_188	-.0000000004	-.0000000040	0.0000000006	-.0000000537	0.0000000002
PCB_179	-.0000001911	-.0000013175	0.0000001437	-.0000198539	0.0000000577
PCB_184	-.0000000000	0.0000000004	-.0000000001	0.0000000034	-.0000000000
PCB_176	-.0000000635	-.0000004037	0.0000000388	-.0000062350	0.0000000165
PCB_178	-.0000001106	-.0000007664	0.0000000842	-.0000115182	0.0000000337
PCB_175	-.0000000217	-.0000001514	0.0000000157	-.0000022671	0.0000000067
PCB_187	-.0000007078	-.0000047011	0.0000004714	-.0000713056	0.0000002004
PCB_182	-.0000000006	-.0000000050	0.0000000005	-.0000000720	0.0000000003
PCB_183_185	-.0000003273	-.0000019592	0.0000001695	-.0000308614	0.0000000753

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_105	PCB_127	PCB_155	PCB_152
PCB_105	0.0000004358	0.0000070738	-.0000000049	0.0000000002	0.0000000166
PCB_127	-.0000000002	-.0000000049	0.0000000001	0.0000000000	-.0000000000
PCB_155	-.0000000000	0.0000000002	0.0000000000	0.0000000000	-.0000000000
PCB_152	0.0000000011	0.0000000166	-.0000000000	-.0000000000	0.0000000000
PCB_150	-.0000000004	-.0000000069	-.0000000000	-.0000000000	-.0000000000
PCB_136	-.0000000907	-.0000018204	0.0000000032	-.0000000009	-.0000000042
PCB_145	0.0000000001	0.0000000012	-.0000000000	-.0000000000	0.0000000000
PCB_148	-.0000000005	-.0000000088	0.0000000000	0.0000000000	-.0000000000
PCB_135_151	-.0000006203	-.0000118225	0.0000000300	-.0000000037	-.0000000280
PCB_154	-.0000000084	-.0000001353	-.0000000003	-.0000000000	-.0000000003
PCB_144	-.0000000461	-.0000010125	0.0000000037	-.0000000006	-.0000000024
PCB_147_149	-.0000009947	-.0000191315	0.0000000469	-.0000000065	-.0000000448
PCB_134_143	-.0000000255	-.0000005326	0.0000000006	-.0000000004	-.0000000013
PCB_139_140	-.0000000003	-.0000000461	-.0000000002	-.0000000001	-.0000000001
PCB_131	-.0000000031	-.0000001152	0.0000000010	-.0000000001	-.0000000003
PCB_142	0.0000000000	-.0000000002	0.0000000000	-.0000000000	-.0000000000
PCB_132	-.0000001294	-.0000029685	0.0000000108	-.0000000021	-.0000000073
PCB_133	-.0000000231	-.0000004008	0.0000000002	-.0000000001	-.0000000009
PCB_165	-.0000000025	-.0000000347	-.0000000001	0.0000000000	-.0000000001
PCB_146	-.0000002145	-.0000041213	0.0000000088	-.0000000016	-.0000000098
PCB_153_168	-.0000022737	-.0000413688	0.0000000748	-.0000000129	-.0000001029
PCB_141	-.0000000112	-.0000003576	0.0000000033	-.0000000002	-.0000000008
PCB_130	-.0000000219	-.0000006105	0.0000000021	-.0000000006	-.0000000014
PCB_137	0.0000000107	0.0000001174	0.0000000011	0.0000000000	0.0000000004
PCB_164	-.0000000280	-.0000006904	0.0000000030	-.0000000005	-.0000000015
PCB_129_138_163	-.0000004971	-.0000126182	0.0000000274	-.0000000131	-.0000000301
PCB_158	0.0000000174	-.0000002868	0.0000000015	-.0000000016	-.0000000006
PCB_128_166	0.0000000179	-.0000004116	-.0000000015	-.0000000024	-.0000000008
PCB_159	0.0000000000	-.0000000002	0.0000000000	-.0000000000	-.0000000000
PCB_162	-.0000000071	-.0000001149	0.0000000003	0.0000000000	-.0000000003
PCB_167	-.0000000879	-.0000013642	0.0000000018	0.0000000002	-.0000000034
PCB_156_57	0.0000000119	0.0000001605	-.0000000001	-.0000000000	0.0000000006
PCB_169	0.0000000023	0.0000000273	0.0000000000	-.0000000000	0.0000000001
PCB_188	-.0000000008	-.0000000130	0.0000000000	0.0000000000	-.0000000000
PCB_179	-.0000001988	-.0000038077	0.0000000118	-.0000000011	-.0000000093
PCB_184	0.0000000001	0.0000000009	-.0000000000	-.0000000000	0.0000000000
PCB_176	-.0000000550	-.0000011034	0.0000000033	-.0000000005	-.0000000027
PCB_178	-.0000001167	-.0000022237	0.0000000069	-.0000000006	-.0000000054
PCB_175	-.0000000209	-.0000004121	0.0000000013	-.0000000002	-.0000000010
PCB_187	-.0000006533	-.0000128895	0.0000000400	-.0000000050	-.0000000316
PCB_182	-.0000000006	-.0000000122	0.0000000000	-.0000000000	-.0000000000
PCB_183_185	-.0000002451	-.0000051318	0.0000000150	-.0000000028	-.0000000125

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_136	PCB_145	PCB_148	PCB_135_151
PCB_105	-.0000000069	-.0000018204	0.0000000012	-.0000000088	-.0000118225
PCB_127	-.0000000000	0.0000000032	-.0000000000	0.0000000000	0.0000000300
PCB_155	-.0000000000	-.0000000009	-.0000000000	0.0000000000	-.0000000037
PCB_152	-.0000000000	-.0000000042	0.0000000000	-.0000000000	-.0000000280
PCB_150	0.0000000000	0.0000000003	-.0000000000	0.0000000000	-.0000000048
PCB_136	0.0000000003	0.0000011155	0.0000000007	0.0000000023	0.0000064620
PCB_145	-.0000000000	0.0000000007	0.0000000000	-.0000000000	0.0000000029
PCB_148	0.0000000000	0.0000000023	-.0000000000	0.0000000000	0.0000000165
PCB_135_151	-.0000000048	0.0000064620	0.0000000029	0.0000000165	0.0000408336
PCB_154	0.0000000004	0.0000000292	-.0000000000	0.0000000001	0.0000001031
PCB_144	-.0000000013	0.0000007677	0.0000000006	0.0000000015	0.0000047632
PCB_147_149	-.0000000058	0.0000105073	0.0000000049	0.0000000263	0.0000657019
PCB_134_143	0.0000000002	0.0000003842	0.0000000003	0.0000000007	0.0000020928
PCB_139_140	0.0000000002	0.0000000801	0.0000000001	0.0000000000	0.0000003193
PCB_131	-.0000000005	0.0000001540	0.0000000002	0.0000000002	0.0000009784
PCB_142	-.0000000000	0.0000000020	0.0000000000	0.0000000000	0.0000000105
PCB_132	-.0000000042	0.0000025424	0.0000000022	0.0000000044	0.0000153552
PCB_133	0.0000000004	0.0000001484	0.0000000000	0.0000000005	0.0000008545
PCB_165	0.0000000001	-.0000000025	-.0000000000	0.0000000000	-.0000000275
PCB_146	-.0000000007	0.0000023224	0.0000000012	0.0000000056	0.0000141708
PCB_153_168	-.0000000044	0.0000213743	0.0000000098	0.0000000563	0.0001315191
PCB_141	-.0000000017	0.0000004079	0.0000000003	0.0000000007	0.0000027706
PCB_130	-.0000000006	0.0000006109	0.0000000006	0.0000000008	0.0000034862
PCB_137	-.0000000007	0.0000000173	0.0000000000	-.0000000001	0.0000002605
PCB_164	-.0000000010	0.0000005889	0.0000000005	0.0000000010	0.0000036227
PCB_129_138_163	-.0000000042	0.0000120414	0.0000000124	0.0000000164	0.0000659664
PCB_158	-.0000000008	0.0000011066	0.0000000017	0.0000000003	0.0000054741
PCB_128_166	0.0000000014	0.0000013810	0.0000000023	0.0000000001	0.0000060048
PCB_159	-.0000000000	0.0000000021	0.0000000000	0.0000000000	0.0000000105
PCB_162	-.0000000001	0.0000000391	-.0000000000	0.0000000002	0.0000002991
PCB_167	0.0000000005	0.0000003069	-.0000000003	0.0000000018	0.0000023485
PCB_156_57	0.0000000002	-.0000000595	-.0000000000	-.0000000003	-.0000004216
PCB_169	-.0000000001	0.0000000114	0.0000000000	-.0000000000	0.0000000466
PCB_188	-.0000000000	0.0000000051	-.0000000000	0.0000000000	0.0000000393
PCB_179	-.0000000035	0.0000022129	0.0000000011	0.0000000056	0.0000143658
PCB_184	0.0000000000	-.0000000003	0.0000000000	-.0000000000	-.0000000033
PCB_176	-.0000000010	0.0000007230	0.0000000005	0.0000000016	0.0000045134
PCB_178	-.0000000020	0.0000012793	0.0000000006	0.0000000033	0.0000083346
PCB_175	-.0000000004	0.0000002587	0.0000000001	0.0000000006	0.0000016567
PCB_187	-.0000000124	0.0000081730	0.0000000048	0.0000000189	0.0000518375
PCB_182	-.0000000000	0.0000000084	0.0000000000	0.0000000000	0.0000000539
PCB_183_185	-.0000000044	0.0000036796	0.0000000027	0.0000000073	0.0000223337

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_154	PCB_144	PCB_147_149	PCB_134_143	PCB_139_140
PCB_105	-.0000001353	-.0000010125	-.0000191315	-.0000005326	-.0000000461
PCB_127	-.0000000003	0.0000000037	0.0000000469	0.0000000006	-.0000000002
PCB_155	-.0000000000	-.0000000006	-.0000000065	-.0000000004	-.0000000001
PCB_152	-.0000000003	-.0000000024	-.0000000448	-.0000000013	-.0000000001
PCB_150	0.0000000004	-.0000000013	-.0000000058	0.0000000002	0.0000000002
PCB_136	0.0000000292	0.0000007677	0.0000105073	0.0000003842	0.0000000801
PCB_145	-.0000000000	0.0000000006	0.0000000049	0.0000000003	0.0000000001
PCB_148	0.0000000001	0.0000000015	0.0000000263	0.0000000007	0.0000000000
PCB_135_151	0.0000001031	0.0000047632	0.0000657019	0.0000020928	0.0000003193
PCB_154	0.0000000055	0.0000000028	0.0000001855	0.0000000114	0.0000000039
PCB_144	0.0000000028	0.0000005933	0.0000076653	0.0000002562	0.0000000447
PCB_147_149	0.0000001855	0.0000076653	0.0001059170	0.0000034166	0.0000005478
PCB_134_143	0.0000000114	0.0000002562	0.0000034166	0.0000001400	0.0000000335
PCB_139_140	0.0000000039	0.0000000447	0.0000005478	0.0000000335	0.0000000121
PCB_131	-.0000000029	0.0000001307	0.0000015666	0.0000000515	0.0000000088
PCB_142	-.0000000000	0.0000000015	0.0000000171	0.0000000008	0.0000000002
PCB_132	0.0000000108	0.0000019475	0.0000247364	0.0000008751	0.0000001673
PCB_133	0.0000000090	0.0000000857	0.0000013983	0.0000000493	0.0000000095
PCB_165	0.0000000015	-.0000000073	-.0000000400	-.0000000009	0.0000000000
PCB_146	0.0000000489	0.0000016585	0.0000228840	0.0000007736	0.0000001356
PCB_153_168	0.0000005300	0.0000150526	0.0002117280	0.0000071435	0.0000011710
PCB_141	-.0000000117	0.0000003646	0.0000044129	0.0000001280	0.0000000159
PCB_130	0.0000000055	0.0000004520	0.0000056698	0.0000002156	0.0000000492
PCB_137	-.0000000093	0.0000000477	0.0000004047	-.0000000019	-.0000000037
PCB_164	0.0000000003	0.0000004599	0.0000058453	0.0000001963	0.0000000363
PCB_129_138_163	0.0000002160	0.0000084872	0.0001076252	0.0000043900	0.0000010706
PCB_158	0.0000000109	0.0000007902	0.0000090366	0.0000004322	0.0000001289
PCB_128_166	0.0000000411	0.0000008728	0.0000101034	0.0000005699	0.0000001928
PCB_159	-.0000000000	0.0000000015	0.0000000171	0.0000000008	0.0000000002
PCB_162	0.0000000004	0.0000000312	0.0000004705	0.0000000107	-.0000000005
PCB_167	0.0000000173	0.0000001995	0.0000037137	0.0000000787	-.0000000078
PCB_156_57	-.0000000014	-.0000000441	-.0000006463	-.0000000215	-.0000000005
PCB_169	-.0000000005	0.0000000099	0.0000000776	0.0000000052	0.0000000020
PCB_188	-.0000000000	0.0000000043	0.0000000618	0.0000000014	-.0000000000
PCB_179	0.0000000163	0.0000017042	0.0000230012	0.0000007108	0.0000000961
PCB_184	0.0000000000	-.0000000004	-.0000000049	-.0000000000	0.0000000001
PCB_176	0.0000000066	0.0000005473	0.0000072540	0.0000002404	0.0000000397
PCB_178	0.0000000092	0.0000009868	0.0000133382	0.0000004099	0.0000000542
PCB_175	0.0000000016	0.0000001996	0.0000026557	0.0000000842	0.0000000124
PCB_187	0.0000000618	0.0000062510	0.0000831516	0.0000026868	0.0000004126
PCB_182	0.0000000000	0.0000000066	0.0000000867	0.0000000027	0.0000000004
PCB_183_185	0.0000000381	0.0000027502	0.0000359991	0.0000012516	0.0000002309

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_131	PCB_142	PCB_132	PCB_133	PCB_165
PCB_105	-.0000001152	-.0000000002	-.0000029685	-.0000004008	-.0000000347
PCB_127	0.0000000010	0.0000000000	0.0000000108	0.0000000002	-.0000000001
PCB_155	-.0000000001	-.0000000000	-.0000000021	-.0000000001	0.0000000000
PCB_152	-.0000000003	-.0000000000	-.0000000073	-.0000000009	-.0000000001
PCB_150	-.0000000005	-.0000000000	-.0000000042	0.0000000004	0.0000000001
PCB_136	0.0000001540	0.0000000020	0.0000025424	0.0000001484	-.0000000025
PCB_145	0.0000000002	0.0000000000	0.0000000022	0.0000000000	-.0000000000
PCB_148	0.0000000002	0.0000000000	0.0000000044	0.0000000005	0.0000000000
PCB_135_151	0.0000009784	0.0000000105	0.0000153552	0.0000008545	-.0000000275
PCB_154	-.0000000029	-.0000000000	0.0000000108	0.0000000090	0.0000000015
PCB_144	0.0000001307	0.0000000015	0.0000019475	0.0000000857	-.0000000073
PCB_147_149	0.0000015666	0.0000000171	0.0000247364	0.0000013983	-.0000000400
PCB_134_143	0.0000000515	0.0000000008	0.0000008751	0.0000000493	-.0000000009
PCB_139_140	0.0000000088	0.0000000002	0.0000001673	0.0000000095	0.0000000000
PCB_131	0.0000000313	0.0000000004	0.0000004321	0.0000000129	-.0000000027
PCB_142	0.0000000004	0.0000000000	0.0000000055	0.0000000002	-.0000000000
PCB_132	0.0000004321	0.0000000055	0.0000064858	0.0000002743	-.0000000252
PCB_133	0.0000000129	0.0000000002	0.0000002743	0.0000000269	0.0000000016
PCB_165	-.0000000027	-.0000000000	-.0000000252	0.0000000016	0.0000000006
PCB_146	0.0000003357	0.0000000039	0.0000054097	0.0000003105	-.0000000072
PCB_153_168	0.0000029659	0.0000000344	0.0000491522	0.0000029869	-.0000000336
PCB_141	0.0000000883	0.0000000009	0.0000011779	0.0000000333	-.0000000080
PCB_130	0.0000001002	0.0000000014	0.0000015215	0.0000000651	-.0000000056
PCB_137	0.0000000165	0.0000000001	0.0000001357	-.0000000069	-.0000000031
PCB_164	0.0000001032	0.0000000012	0.0000015096	0.0000000626	-.0000000064
PCB_129_138_163	0.0000018248	0.0000000280	0.0000290248	0.0000013580	-.0000000802
PCB_158	0.0000001833	0.0000000033	0.0000028063	0.0000000969	-.0000000130
PCB_128_166	0.0000001906	0.0000000042	0.0000032162	0.0000001382	-.0000000087
PCB_159	0.0000000004	0.0000000000	0.0000000055	0.0000000002	-.0000000000
PCB_162	0.0000000061	0.0000000000	0.0000000944	0.0000000061	-.0000000001
PCB_167	0.0000000263	-.0000000001	0.0000005619	0.0000000686	0.0000000050
PCB_156_57	-.0000000081	-.0000000001	-.0000001510	-.0000000092	-.0000000000
PCB_169	0.0000000029	0.0000000001	0.0000000377	-.0000000002	-.0000000004
PCB_188	0.0000000009	0.0000000000	0.0000000131	0.0000000007	-.0000000000
PCB_179	0.0000003622	0.0000000037	0.0000054935	0.0000002749	-.0000000155
PCB_184	-.0000000001	-.0000000000	-.0000000011	-.0000000000	0.0000000000
PCB_176	0.0000001171	0.0000000014	0.0000017909	0.0000000868	-.0000000053
PCB_178	0.0000002096	0.0000000021	0.0000031778	0.0000001593	-.0000000089
PCB_175	0.0000000429	0.0000000005	0.0000006475	0.0000000311	-.0000000020
PCB_187	0.0000013394	0.0000000149	0.0000203616	0.0000009851	-.0000000612
PCB_182	0.0000000015	0.0000000000	0.0000000214	0.0000000010	-.0000000001
PCB_183_185	0.0000005913	0.0000000073	0.0000090939	0.0000004320	-.0000000273

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_146	PCB_153_168	PCB_141	PCB_130	PCB_137
PCB_105	-.0000041213	-.0000413688	-.0000003576	-.0000006105	0.0000001174
PCB_127	0.0000000088	0.0000000748	0.0000000033	0.0000000021	0.0000000011
PCB_155	-.0000000016	-.0000000129	-.0000000002	-.0000000006	0.0000000000
PCB_152	-.0000000098	-.0000001029	-.0000000008	-.0000000014	0.0000000004
PCB_150	-.0000000007	-.0000000044	-.0000000017	-.0000000006	-.0000000007
PCB_136	0.0000023224	0.0000213743	0.0000004079	0.0000006109	0.0000000173
PCB_145	0.0000000012	0.0000000098	0.0000000003	0.0000000006	0.0000000000
PCB_148	0.0000000056	0.0000000563	0.0000000007	0.0000000008	-.0000000001
PCB_135_151	0.0000141708	0.0001315191	0.0000027706	0.0000034862	0.0000002605
PCB_154	0.0000000489	0.0000005300	-.0000000117	0.0000000055	-.0000000093
PCB_144	0.0000016585	0.0000150526	0.0000003646	0.0000004520	0.0000000477
PCB_147_149	0.0000228840	0.0002117280	0.0000044129	0.0000056698	0.0000004047
PCB_134_143	0.0000007736	0.0000071435	0.0000001280	0.0000002156	-.0000000019
PCB_139_140	0.0000001356	0.0000011710	0.0000000159	0.0000000492	-.0000000037
PCB_131	0.0000003357	0.0000029659	0.0000000883	0.0000001002	0.0000000165
PCB_142	0.0000000039	0.0000000344	0.0000000009	0.0000000014	0.0000000001
PCB_132	0.0000054097	0.0000491522	0.0000011779	0.0000015215	0.0000001357
PCB_133	0.0000003105	0.0000029869	0.0000000333	0.0000000651	-.0000000069
PCB_165	-.0000000072	-.0000000336	-.0000000080	-.0000000056	-.0000000031
PCB_146	0.0000049907	0.0000463465	0.0000009246	0.0000012528	0.0000000610
PCB_153_168	0.0000463465	0.0004386447	0.0000081412	0.0000111374	0.0000002264
PCB_141	0.0000009246	0.0000081412	0.0000002592	0.0000002653	0.0000000563
PCB_130	0.0000012528	0.0000111374	0.0000002653	0.0000003733	0.0000000306
PCB_137	0.0000000610	0.0000002264	0.0000000563	0.0000000306	0.0000000281
PCB_164	0.0000012614	0.0000112544	0.0000002880	0.0000003563	0.0000000442
PCB_129_138_163	0.0000242073	0.0002182534	0.0000046346	0.0000072027	0.0000002715
PCB_158	0.0000020866	0.0000179377	0.0000004409	0.0000007385	0.0000000388
PCB_128_166	0.0000024392	0.0000210471	0.0000004017	0.0000008957	-.0000000170
PCB_159	0.0000000040	0.0000000345	0.0000000009	0.0000000014	0.0000000001
PCB_162	0.0000000976	0.0000009600	0.0000000196	0.0000000176	0.0000000019
PCB_167	0.0000007745	0.0000080254	0.0000000944	0.0000000914	-.0000000120
PCB_156_57	-.0000001463	-.0000016305	-.0000000217	-.0000000249	0.0000000066
PCB_169	0.0000000190	0.0000001399	0.0000000067	0.0000000104	0.0000000013
PCB_188	0.0000000127	0.0000001222	0.0000000029	0.0000000025	0.0000000004
PCB_179	0.0000049323	0.0000457958	0.0000010388	0.0000012240	0.0000001202
PCB_184	-.0000000009	-.0000000094	-.0000000003	-.0000000001	-.0000000001
PCB_176	0.0000015726	0.0000144976	0.0000003268	0.0000004099	0.0000000344
PCB_178	0.0000028582	0.0000265707	0.0000006023	0.0000007058	0.0000000697
PCB_175	0.0000005714	0.0000052761	0.0000001219	0.0000001459	0.0000000144
PCB_187	0.0000179539	0.0001660119	0.0000037756	0.0000046082	0.0000004158
PCB_182	0.0000000185	0.0000001676	0.0000000042	0.0000000049	0.0000000006
PCB_183_185	0.0000078651	0.0000721215	0.0000016178	0.0000021205	0.0000001582

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159
PCB_105	-.0000006904	-.0000126182	-.0000002868	-.0000004116	-.0000000002
PCB_127	0.0000000030	0.0000000274	0.0000000015	-.0000000015	0.0000000000
PCB_155	-.0000000005	-.0000000131	-.0000000016	-.0000000024	-.0000000000
PCB_152	-.0000000015	-.0000000301	-.0000000006	-.0000000008	-.0000000000
PCB_150	-.0000000010	-.0000000042	-.0000000008	0.0000000014	-.0000000000
PCB_136	0.0000005889	0.0000120414	0.0000011066	0.0000013810	0.0000000021
PCB_145	0.0000000005	0.0000000124	0.0000000017	0.0000000023	0.0000000000
PCB_148	0.0000000010	0.0000000164	0.0000000003	0.0000000001	0.0000000000
PCB_135_151	0.0000036227	0.0000659664	0.0000054741	0.0000060048	0.0000000105
PCB_154	0.0000000003	0.0000002160	0.0000000109	0.0000000411	-.0000000000
PCB_144	0.0000004599	0.0000084872	0.0000007902	0.0000008728	0.0000000015
PCB_147_149	0.0000058453	0.0001076252	0.0000090366	0.0000101034	0.0000000171
PCB_134_143	0.0000001963	0.0000043900	0.0000004322	0.0000005699	0.0000000008
PCB_139_140	0.0000000363	0.0000010706	0.0000001289	0.0000001928	0.0000000002
PCB_131	0.0000001032	0.0000018248	0.0000001833	0.0000001906	0.0000000004
PCB_142	0.0000000012	0.0000000280	0.0000000033	0.0000000042	0.0000000000
PCB_132	0.0000015096	0.0000290248	0.0000028063	0.0000032162	0.0000000055
PCB_133	0.0000000626	0.0000013580	0.0000000969	0.0000001382	0.0000000002
PCB_165	-.0000000064	-.0000000802	-.0000000130	-.0000000087	-.0000000000
PCB_146	0.0000012614	0.0000242073	0.0000020866	0.0000024392	0.0000000040
PCB_153_168	0.0000112544	0.0002182534	0.0000179377	0.0000210471	0.0000000345
PCB_141	0.0000002880	0.0000046346	0.0000004409	0.0000004017	0.0000000009
PCB_130	0.0000003563	0.0000072027	0.0000007385	0.0000008957	0.0000000014
PCB_137	0.0000000442	0.0000002715	0.0000000388	-.0000000170	0.0000000001
PCB_164	0.0000003610	0.0000066296	0.0000006384	0.0000007067	0.0000000012
PCB_129_138_163	0.0000066296	0.0001432286	0.0000147982	0.0000188596	0.0000000281
PCB_158	0.0000006384	0.0000147982	0.0000017318	0.0000022717	0.0000000033
PCB_128_166	0.0000007067	0.0000188596	0.0000022717	0.0000032140	0.0000000042
PCB_159	0.0000000012	0.0000000281	0.0000000033	0.0000000042	0.0000000000
PCB_162	0.0000000224	0.0000003089	0.0000000111	-.0000000009	0.0000000000
PCB_167	0.0000001307	0.0000017149	-.0000000616	-.0000001459	-.0000000001
PCB_156_57	-.0000000273	-.0000005609	-.0000000271	-.0000000245	-.0000000001
PCB_169	0.0000000085	0.0000002053	0.0000000291	0.0000000373	0.0000000001
PCB_188	0.0000000032	0.0000000434	0.0000000021	0.0000000005	0.0000000000
PCB_179	0.0000012961	0.0000228162	0.0000018937	0.0000019543	0.0000000037
PCB_184	-.0000000003	-.0000000014	0.0000000001	0.0000000006	-.0000000000
PCB_176	0.0000004190	0.0000077717	0.0000006919	0.0000007667	0.0000000014
PCB_178	0.0000007497	0.0000131435	0.0000010830	0.0000011095	0.0000000021
PCB_175	0.0000001525	0.0000027299	0.0000002355	0.0000002491	0.0000000005
PCB_187	0.0000047732	0.0000868042	0.0000075607	0.0000081573	0.0000000149
PCB_182	0.0000000051	0.0000000900	0.0000000080	0.0000000084	0.0000000000
PCB_183_185	0.0000021160	0.0000406438	0.0000037752	0.0000043494	0.0000000073

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_162	PCB_167	PCB_156_57	PCB_169	PCB_188
PCB_105	-.0000001149	-.0000013642	0.0000001605	0.0000000273	-.0000000130
PCB_127	0.0000000003	0.0000000018	-.0000000001	0.0000000000	0.0000000000
PCB_155	0.0000000000	0.0000000002	-.0000000000	-.0000000000	0.0000000000
PCB_152	-.0000000003	-.0000000034	0.0000000006	0.0000000001	-.0000000000
PCB_150	-.0000000001	0.0000000005	0.0000000002	-.0000000001	-.0000000000
PCB_136	0.0000000391	0.0000003069	-.0000000595	0.0000000114	0.0000000051
PCB_145	-.0000000000	-.0000000003	-.0000000000	0.0000000000	-.0000000000
PCB_148	0.0000000002	0.0000000018	-.0000000003	-.0000000000	0.0000000000
PCB_135_151	0.0000002991	0.0000023485	-.0000004216	0.0000000466	0.0000000393
PCB_154	0.0000000004	0.0000000173	-.0000000014	-.0000000005	-.0000000000
PCB_144	0.0000000312	0.0000001995	-.0000000441	0.0000000099	0.0000000043
PCB_147_149	0.0000004705	0.0000037137	-.0000006463	0.0000000776	0.0000000618
PCB_134_143	0.0000000107	0.0000000787	-.0000000215	0.0000000052	0.0000000014
PCB_139_140	-.0000000005	-.0000000078	-.0000000005	0.0000000020	-.0000000000
PCB_131	0.0000000061	0.0000000263	-.0000000081	0.0000000029	0.0000000009
PCB_142	0.0000000000	-.0000000001	-.0000000001	0.0000000001	0.0000000000
PCB_132	0.0000000944	0.0000005619	-.0000001510	0.0000000377	0.0000000131
PCB_133	0.0000000061	0.0000000686	-.0000000092	-.0000000002	0.0000000007
PCB_165	-.0000000001	0.0000000050	-.0000000000	-.0000000004	-.0000000000
PCB_146	0.0000000976	0.0000007745	-.0000001463	0.0000000190	0.0000000127
PCB_153_168	0.0000009600	0.0000080254	-.0000016305	0.0000001399	0.0000001222
PCB_141	0.0000000196	0.0000000944	-.0000000217	0.0000000067	0.0000000029
PCB_130	0.0000000176	0.0000000914	-.0000000249	0.0000000104	0.0000000025
PCB_137	0.0000000019	-.0000000120	0.0000000066	0.0000000013	0.0000000004
PCB_164	0.0000000224	0.0000001307	-.0000000273	0.0000000085	0.0000000032
PCB_129_138_163	0.0000003089	0.0000017149	-.0000005609	0.0000002053	0.0000000434
PCB_158	0.0000000111	-.0000000616	-.0000000271	0.0000000291	0.0000000021
PCB_128_166	-.0000000009	-.0000001459	-.0000000245	0.0000000373	0.0000000005
PCB_159	0.0000000000	-.0000000001	-.0000000001	0.0000000001	0.0000000000
PCB_162	0.0000000031	0.0000000278	-.0000000048	-.0000000003	0.0000000004
PCB_167	0.0000000278	0.0000003019	-.0000000428	-.0000000069	0.0000000032
PCB_156_57	-.0000000048	-.0000000428	0.0000000151	0.0000000001	-.0000000005
PCB_169	-.0000000003	-.0000000069	0.0000000001	0.0000000006	-.0000000000
PCB_188	0.0000000004	0.0000000032	-.0000000005	-.0000000000	0.0000000001
PCB_179	0.0000001088	0.0000008066	-.0000001589	0.0000000180	0.0000000145
PCB_184	-.0000000000	-.0000000003	0.0000000001	0.0000000000	-.0000000000
PCB_176	0.0000000313	0.0000002206	-.0000000477	0.0000000077	0.0000000042
PCB_178	0.0000000637	0.0000004737	-.0000000933	0.0000000101	0.0000000084
PCB_175	0.0000000121	0.0000000861	-.0000000178	0.0000000025	0.0000000016
PCB_187	0.0000003721	0.0000026550	-.0000005645	0.0000000812	0.0000000498
PCB_182	0.0000000004	0.0000000025	-.0000000005	0.0000000001	0.0000000001
PCB_183_185	0.0000001440	0.0000009727	-.0000002267	0.0000000454	0.0000000195

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_184	PCB_176	PCB_178	PCB_175
PCB_105	-.0000038077	0.0000000009	-.0000011034	-.0000022237	-.0000004121
PCB_127	0.0000000118	-.0000000000	0.0000000033	0.0000000069	0.0000000013
PCB_155	-.0000000011	-.0000000000	-.0000000005	-.0000000006	-.0000000002
PCB_152	-.0000000093	0.0000000000	-.0000000027	-.0000000054	-.0000000010
PCB_150	-.0000000035	0.0000000000	-.0000000010	-.0000000020	-.0000000004
PCB_136	0.0000022129	-.0000000003	0.0000007230	0.0000012793	0.0000002587
PCB_145	0.0000000011	0.0000000000	0.0000000005	0.0000000006	0.0000000001
PCB_148	0.0000000056	-.0000000000	0.0000000016	0.0000000033	0.0000000006
PCB_135_151	0.0000143658	-.0000000033	0.0000045134	0.0000083346	0.0000016567
PCB_154	0.0000000163	0.0000000000	0.0000000066	0.0000000092	0.0000000016
PCB_144	0.0000017042	-.0000000004	0.0000005473	0.0000009868	0.0000001996
PCB_147_149	0.0000230012	-.0000000049	0.0000072540	0.0000133382	0.0000026557
PCB_134_143	0.0000007108	-.0000000000	0.0000002404	0.0000004099	0.0000000842
PCB_139_140	0.0000000961	0.0000000001	0.0000000397	0.0000000542	0.0000000124
PCB_131	0.0000003622	-.0000000001	0.0000001171	0.0000002096	0.0000000429
PCB_142	0.0000000037	-.0000000000	0.0000000014	0.0000000021	0.0000000005
PCB_132	0.0000054935	-.0000000011	0.0000017909	0.0000031778	0.0000006475
PCB_133	0.0000002749	-.0000000000	0.0000000868	0.0000001593	0.0000000311
PCB_165	-.0000000155	0.0000000000	-.0000000053	-.0000000089	-.0000000020
PCB_146	0.0000049323	-.0000000009	0.0000015726	0.0000028582	0.0000005714
PCB_153_168	0.0000457958	-.0000000094	0.0000144976	0.0000265707	0.0000052761
PCB_141	0.0000010388	-.0000000003	0.0000003268	0.0000006023	0.0000001219
PCB_130	0.0000012240	-.0000000001	0.0000004099	0.0000007058	0.0000001459
PCB_137	0.0000001202	-.0000000001	0.0000000344	0.0000000697	0.0000000144
PCB_164	0.0000012961	-.0000000003	0.0000004190	0.0000007497	0.0000001525
PCB_129_138_163	0.0000228162	-.0000000014	0.0000077717	0.0000131435	0.0000027299
PCB_158	0.0000018937	0.0000000001	0.0000006919	0.0000010830	0.0000002355
PCB_128_166	0.0000019543	0.0000000006	0.0000007667	0.0000011095	0.0000002491
PCB_159	0.0000000037	-.0000000000	0.0000000014	0.0000000021	0.0000000005
PCB_162	0.0000001088	-.0000000000	0.0000000313	0.0000000637	0.0000000121
PCB_167	0.0000008066	-.0000000003	0.0000002206	0.0000004737	0.0000000861
PCB_156_57	-.0000001589	0.0000000001	-.0000000477	-.0000000933	-.0000000178
PCB_169	0.0000000180	0.0000000000	0.0000000077	0.0000000101	0.0000000025
PCB_188	0.0000000145	-.0000000000	0.0000000042	0.0000000084	0.0000000016
PCB_179	0.0000051435	-.0000000014	0.0000016068	0.0000029863	0.0000005935
PCB_184	-.0000000014	0.0000000000	-.0000000004	-.0000000008	-.0000000002
PCB_176	0.0000016068	-.0000000004	0.0000005120	0.0000009313	0.0000001870
PCB_178	0.0000029863	-.0000000008	0.0000009313	0.0000017342	0.0000003443
PCB_175	0.0000005935	-.0000000002	0.0000001870	0.0000003443	0.0000000688
PCB_187	0.0000185294	-.0000000045	0.0000058615	0.0000107473	0.0000021503
PCB_182	0.0000000194	-.0000000000	0.0000000061	0.0000000112	0.0000000023
PCB_183_185	0.0000079147	-.0000000015	0.0000025583	0.0000045817	0.0000009268

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_182	PCB_183_185	PCB_174	PCB_177
PCB_105	-.0000128895	-.0000000122	-.0000051318	-.0000022130	-.0000039210
PCB_127	0.0000000400	0.0000000000	0.0000000150	0.0000000077	0.0000000118
PCB_155	-.0000000050	-.0000000000	-.0000000028	-.0000000005	-.0000000024
PCB_152	-.0000000316	-.0000000000	-.0000000125	-.0000000053	-.0000000096
PCB_150	-.0000000124	-.0000000000	-.0000000044	-.0000000024	-.0000000037
PCB_136	0.0000081730	0.0000000084	0.0000036796	0.0000012014	0.0000030034
PCB_145	0.0000000048	0.0000000000	0.0000000027	0.0000000004	0.0000000024
PCB_148	0.0000000189	0.0000000000	0.0000000073	0.0000000033	0.0000000056
PCB_135_151	0.0000518375	0.0000000539	0.0000223337	0.0000081358	0.0000180431
PCB_154	0.0000000618	0.0000000000	0.0000000381	0.0000000027	0.0000000287
PCB_144	0.0000062510	0.0000000066	0.0000027502	0.0000009549	0.0000022469
PCB_147_149	0.0000831516	0.0000000867	0.0000359991	0.0000129814	0.0000291018
PCB_134_143	0.0000026868	0.0000000027	0.0000012516	0.0000003699	0.0000010326
PCB_139_140	0.0000004126	0.0000000004	0.0000002309	0.0000000379	0.0000001980
PCB_131	0.0000013394	0.0000000015	0.0000005913	0.0000002045	0.0000004870
PCB_142	0.0000000149	0.0000000000	0.0000000073	0.0000000019	0.0000000062
PCB_132	0.0000203616	0.0000000214	0.0000090939	0.0000030284	0.0000074699
PCB_133	0.0000009851	0.0000000010	0.0000004320	0.0000001497	0.0000003441
PCB_165	-.0000000612	-.0000000001	-.0000000273	-.0000000095	-.0000000239
PCB_146	0.0000179539	0.0000000185	0.0000078651	0.0000027459	0.0000063787
PCB_153_168	0.0001660119	0.0000001676	0.0000721215	0.0000254802	0.0000583330
PCB_141	0.0000037756	0.0000000042	0.0000016178	0.0000006047	0.0000013219
PCB_130	0.0000046082	0.0000000049	0.0000021205	0.0000006591	0.0000017528
PCB_137	0.0000004158	0.0000000006	0.0000001582	0.0000000854	0.0000001288
PCB_164	0.0000047732	0.0000000051	0.0000021160	0.0000007260	0.0000017330
PCB_129_138_163	0.0000868042	0.0000000900	0.0000406438	0.0000119482	0.0000337046
PCB_158	0.0000075607	0.0000000080	0.0000037752	0.0000009289	0.0000031964
PCB_128_166	0.0000081573	0.0000000084	0.0000043494	0.0000008539	0.0000037207
PCB_159	0.0000000149	0.0000000000	0.0000000073	0.0000000019	0.0000000062
PCB_162	0.0000003721	0.0000000004	0.0000001440	0.0000000659	0.0000001125
PCB_167	0.0000026550	0.0000000025	0.0000009727	0.0000004936	0.0000007294
PCB_156_57	-.0000005645	-.0000000005	-.0000002267	-.0000000884	-.0000001819
PCB_169	0.0000000812	0.0000000001	0.0000000454	0.0000000076	0.0000000403
PCB_188	0.0000000498	0.0000000001	0.0000000195	0.0000000088	0.0000000154
PCB_179	0.0000185294	0.0000000194	0.0000079147	0.0000029380	0.0000063993
PCB_184	-.0000000045	-.0000000000	-.0000000015	-.0000000009	-.0000000012
PCB_176	0.0000058615	0.0000000061	0.0000025583	0.0000009013	0.0000020823
PCB_178	0.0000107473	0.0000000112	0.0000045817	0.0000017080	0.0000037024
PCB_175	0.0000021503	0.0000000023	0.0000009268	0.0000003369	0.0000007519
PCB_187	0.0000673024	0.0000000703	0.0000291377	0.0000104655	0.0000236675
PCB_182	0.0000000703	0.0000000001	0.0000000304	0.0000000111	0.0000000247
PCB_183_185	0.0000291377	0.0000000304	0.0000129157	0.0000043797	0.0000105605

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_171_173	PCB_172	PCB_180_193	PCB_191
PCB_105	-.0000000247	-.0000016398	-.0000002315	-.0000094163	-.0000001590
PCB_127	0.0000000000	0.0000000043	0.0000000008	0.0000000286	0.0000000005
PCB_155	-.0000000000	-.0000000016	-.0000000000	-.0000000019	-.0000000001
PCB_152	-.0000000001	-.0000000040	-.0000000006	-.0000000230	-.0000000004
PCB_150	0.0000000000	-.0000000013	-.0000000002	-.0000000081	-.0000000001
PCB_136	0.0000000200	0.0000015778	0.0000001139	0.0000048841	0.0000001305
PCB_145	0.0000000000	0.0000000016	0.0000000000	0.0000000017	0.0000000001
PCB_148	0.0000000000	0.0000000022	0.0000000003	0.0000000139	0.0000000002
PCB_135_151	0.0000001072	0.0000088596	0.0000007930	0.0000327350	0.0000007620
PCB_154	0.0000000005	0.0000000213	0.0000000002	0.0000000354	0.0000000016
PCB_144	0.0000000134	0.0000011413	0.0000000912	0.0000037949	0.0000000959
PCB_147_149	0.0000001758	0.0000143935	0.0000012628	0.0000522542	0.0000012337
PCB_134_143	0.0000000073	0.0000005699	0.0000000339	0.0000015213	0.0000000457
PCB_139_140	0.0000000018	0.0000001318	0.0000000026	0.0000001632	0.0000000096
PCB_131	0.0000000028	0.0000002488	0.0000000193	0.0000007962	0.0000000208
PCB_142	0.0000000000	0.0000000037	0.0000000002	0.0000000074	0.0000000003
PCB_132	0.0000000458	0.0000038866	0.0000002854	0.0000120710	0.0000003214
PCB_133	0.0000000025	0.0000001733	0.0000000148	0.0000006328	0.0000000148
PCB_165	-.0000000001	-.0000000125	-.0000000008	-.0000000306	-.0000000010
PCB_146	0.0000000397	0.0000032184	0.0000002650	0.0000111143	0.0000002723
PCB_153_168	0.0000003586	0.0000291205	0.0000024706	0.0001040544	0.0000024750
PCB_141	0.0000000069	0.0000006430	0.0000000583	0.0000023358	0.0000000553
PCB_130	0.0000000116	0.0000009487	0.0000000608	0.0000026219	0.0000000769
PCB_137	0.0000000002	0.0000000470	0.0000000086	0.0000002774	0.0000000050
PCB_164	0.0000000105	0.0000008887	0.0000000690	0.0000028635	0.0000000744
PCB_129_138_163	0.0000002324	0.0000186994	0.0000010858	0.0000482472	0.0000014923
PCB_158	0.0000000237	0.0000019102	0.0000000777	0.0000036944	0.0000001459
PCB_128_166	0.0000000311	0.0000023759	0.0000000639	0.0000035216	0.0000001753
PCB_159	0.0000000000	0.0000000037	0.0000000002	0.0000000074	0.0000000003
PCB_162	0.0000000005	0.0000000448	0.0000000068	0.0000002663	0.0000000044
PCB_167	0.0000000032	0.0000002473	0.0000000527	0.0000020658	0.0000000273
PCB_156_57	-.0000000008	-.0000000820	-.0000000087	-.0000003810	-.0000000071
PCB_169	0.0000000003	0.0000000267	0.0000000004	0.0000000271	0.0000000019
PCB_188	0.0000000001	0.0000000063	0.0000000009	0.0000000350	0.0000000006
PCB_179	0.0000000363	0.0000031022	0.0000002867	0.0000117546	0.0000002682
PCB_184	-.0000000000	-.0000000003	-.0000000001	-.0000000035	-.0000000000
PCB_176	0.0000000124	0.0000010458	0.0000000867	0.0000036107	0.0000000885
PCB_178	0.0000000209	0.0000017892	0.0000001669	0.0000068347	0.0000001549
PCB_175	0.0000000043	0.0000003700	0.0000000327	0.0000013459	0.0000000317
PCB_187	0.0000001379	0.0000117366	0.0000010116	0.0000418907	0.0000010001
PCB_182	0.0000000001	0.0000000122	0.0000000011	0.0000000437	0.0000000010
PCB_183_185	0.0000000650	0.0000054318	0.0000004165	0.0000175614	0.0000004529

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201
PCB_105	-.0000013429	-.0000012120	-.0000000417	-.0000009509	-.0000006422
PCB_127	0.0000000041	0.0000000025	0.0000000001	0.0000000032	0.0000000021
PCB_155	-.0000000005	-.0000000002	-.0000000000	-.0000000001	-.0000000001
PCB_152	-.0000000031	-.0000000030	-.0000000001	-.0000000023	-.0000000016
PCB_150	-.0000000010	-.0000000002	-.0000000000	-.0000000010	-.0000000007
PCB_136	0.0000008298	0.0000005546	0.0000000232	0.0000004555	0.0000003419
PCB_145	0.0000000005	0.0000000001	0.0000000000	0.0000000001	0.0000000001
PCB_148	0.0000000019	0.0000000017	0.0000000001	0.0000000014	0.0000000010
PCB_135_151	0.0000052435	0.0000035824	0.0000001493	0.0000032087	0.0000023077
PCB_154	0.0000000077	0.0000000127	0.0000000003	0.0000000007	0.0000000015
PCB_144	0.0000006292	0.0000003991	0.0000000175	0.0000003670	0.0000002694
PCB_147_149	0.0000084347	0.0000057434	0.0000002399	0.0000050949	0.0000036792
PCB_134_143	0.0000002698	0.0000001770	0.0000000074	0.0000001357	0.0000001063
PCB_139_140	0.0000000425	0.0000000226	0.0000000011	0.0000000085	0.0000000109
PCB_131	0.0000001339	0.0000000779	0.0000000037	0.0000000775	0.0000000572
PCB_142	0.0000000015	0.0000000008	0.0000000000	0.0000000006	0.0000000005
PCB_132	0.0000020367	0.0000012747	0.0000000561	0.0000011492	0.0000008574
PCB_133	0.0000001020	0.0000000806	0.0000000030	0.0000000594	0.0000000433
PCB_165	-.0000000056	-.0000000006	-.0000000001	-.0000000033	-.0000000025
PCB_146	0.0000018153	0.0000012386	0.0000000514	0.0000010697	0.0000007812
PCB_153_168	0.0000166467	0.0000117880	0.0000004734	0.0000100770	0.0000073056
PCB_141	0.0000003793	0.0000002230	0.0000000105	0.0000002346	0.0000001682
PCB_130	0.0000004661	0.0000002793	0.0000000127	0.0000002406	0.0000001856
PCB_137	0.0000000456	0.0000000114	0.0000000013	0.0000000322	0.0000000212
PCB_164	0.0000004835	0.0000002964	0.0000000134	0.0000002752	0.0000002035
PCB_129_138_163	0.0000087274	0.0000053466	0.0000002361	0.0000043049	0.0000033972
PCB_158	0.0000007592	0.0000003944	0.0000000195	0.0000002970	0.0000002617
PCB_128_166	0.0000008221	0.0000004225	0.0000000205	0.0000002328	0.0000002443
PCB_159	0.0000000015	0.0000000008	0.0000000000	0.0000000006	0.0000000005
PCB_162	0.0000000371	0.0000000289	0.0000000011	0.0000000283	0.0000000189
PCB_167	0.0000002685	0.0000002488	0.0000000085	0.0000002215	0.0000001434
PCB_156_57	-.0000000501	-.0000000451	-.0000000014	-.0000000394	-.0000000271
PCB_169	0.0000000078	0.0000000018	0.0000000002	0.0000000015	0.0000000021
PCB_188	0.0000000050	0.0000000037	0.0000000001	0.0000000037	0.0000000025
PCB_179	0.0000018611	0.0000012559	0.0000000529	0.0000011658	0.0000008329
PCB_184	-.0000000004	-.0000000003	-.0000000000	-.0000000004	-.0000000003
PCB_176	0.0000005883	0.0000003876	0.0000000165	0.0000003509	0.0000002557
PCB_178	0.0000010790	0.0000007301	0.0000000307	0.0000006790	0.0000004843
PCB_175	0.0000002159	0.0000001432	0.0000000061	0.0000001325	0.0000000954
PCB_187	0.0000067486	0.0000044792	0.0000001901	0.0000041053	0.0000029686
PCB_182	0.0000000071	0.0000000046	0.0000000002	0.0000000043	0.0000000031
PCB_183_185	0.0000029239	0.0000018927	0.0000000814	0.0000016799	0.0000012427

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195
PCB_105	-.0000003759	-.0000011703	-.0000005723	-.0000020421	-.0000006379
PCB_127	0.0000000012	0.0000000040	0.0000000018	0.0000000062	0.0000000018
PCB_155	-.0000000001	-.0000000001	-.0000000001	-.0000000005	-.0000000003
PCB_152	-.0000000009	-.0000000029	-.0000000014	-.0000000050	-.0000000016
PCB_150	-.0000000004	-.0000000013	-.0000000005	-.0000000018	-.0000000005
PCB_136	0.0000001958	0.0000005314	0.0000002947	0.0000011078	0.0000004165
PCB_145	0.0000000001	0.0000000001	0.0000000001	0.0000000004	0.0000000003
PCB_148	0.0000000006	0.0000000018	0.0000000008	0.0000000030	0.0000000009
PCB_135_151	0.0000013243	0.0000038240	0.0000019930	0.0000073255	0.0000025834
PCB_154	0.0000000010	0.0000000002	0.0000000017	0.0000000083	0.0000000044
PCB_144	0.0000001539	0.0000004327	0.0000002309	0.0000008570	0.0000003128
PCB_147_149	0.0000021118	0.0000060637	0.0000031799	0.0000117030	0.0000041541
PCB_134_143	0.0000000606	0.0000001542	0.0000000908	0.0000003506	0.0000001393
PCB_139_140	0.0000000061	0.0000000063	0.0000000091	0.0000000417	0.0000000235
PCB_131	0.0000000325	0.0000000911	0.0000000486	0.0000001806	0.0000000666
PCB_142	0.0000000003	0.0000000007	0.0000000004	0.0000000018	0.0000000008
PCB_132	0.0000004884	0.0000013416	0.0000007316	0.0000027448	0.0000010261
PCB_133	0.0000000251	0.0000000706	0.0000000380	0.0000001412	0.0000000504
PCB_165	-.0000000013	-.0000000038	-.0000000019	-.0000000072	-.0000000029
PCB_146	0.0000004479	0.0000012648	0.0000006739	0.0000025002	0.0000009028
PCB_153_168	0.0000041900	0.0000119289	0.0000062968	0.0000233806	0.0000083377
PCB_141	0.0000000959	0.0000002801	0.0000001438	0.0000005240	0.0000001849
PCB_130	0.0000001056	0.0000002768	0.0000001584	0.0000006013	0.0000002354
PCB_137	0.0000000121	0.0000000410	0.0000000184	0.0000000595	0.0000000180
PCB_164	0.0000001162	0.0000003240	0.0000001745	0.0000006476	0.0000002392
PCB_129_138_163	0.0000019298	0.0000048777	0.0000028905	0.0000111545	0.0000044858
PCB_158	0.0000001468	0.0000003145	0.0000002187	0.0000008837	0.0000004005
PCB_128_166	0.0000001359	0.0000002144	0.0000002021	0.0000008757	0.0000004493
PCB_159	0.0000000003	0.0000000007	0.0000000004	0.0000000018	0.0000000008
PCB_162	0.0000000109	0.0000000348	0.0000000164	0.0000000581	0.0000000178
PCB_167	0.0000000837	0.0000002764	0.0000001267	0.0000004433	0.0000001262
PCB_156_57	-.0000000154	-.0000000467	-.0000000227	-.0000000857	-.0000000277
PCB_169	0.0000000011	0.0000000009	0.0000000016	0.0000000074	0.0000000044
PCB_188	0.0000000014	0.0000000046	0.0000000022	0.0000000076	0.0000000024
PCB_179	0.0000004773	0.0000013921	0.0000007170	0.0000026289	0.0000009176
PCB_184	-.0000000001	-.0000000005	-.0000000002	-.0000000008	-.0000000002
PCB_176	0.0000001462	0.0000004149	0.0000002195	0.0000008133	0.0000002931
PCB_178	0.0000002776	0.0000008114	0.0000004170	0.0000015278	0.0000005318
PCB_175	0.0000000546	0.0000001576	0.0000000820	0.0000003020	0.0000001068
PCB_187	0.0000016984	0.0000048709	0.0000025495	0.0000094134	0.0000033521
PCB_182	0.0000000018	0.0000000051	0.0000000027	0.0000000098	0.0000000035
PCB_183_185	0.0000007096	0.0000019706	0.0000010645	0.0000039772	0.0000014669

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_205	PCB_208	PCB_207	PCB_206
PCB_105	-.0000002098	-.0000000836	-.0000001404	-.0000000635	-.0000002967
PCB_127	0.0000000007	0.0000000002	0.0000000005	0.0000000002	0.0000000010
PCB_155	-.0000000000	-.0000000000	0.0000000000	-.0000000000	-.0000000000
PCB_152	-.0000000005	-.0000000002	-.0000000003	-.0000000002	-.0000000007
PCB_150	-.0000000002	-.0000000001	-.0000000002	-.0000000001	-.0000000003
PCB_136	0.0000000936	0.0000000593	0.0000000591	0.0000000288	0.0000001328
PCB_145	0.0000000000	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_148	0.0000000003	0.0000000001	0.0000000002	0.0000000001	0.0000000005
PCB_135_151	0.0000006670	0.0000003594	0.0000004441	0.0000002085	0.0000009612
PCB_154	0.0000000004	0.0000000007	-.0000000002	-.0000000000	0.0000000000
PCB_144	0.0000000750	0.0000000442	0.0000000496	0.0000000236	0.0000001084
PCB_147_149	0.0000010591	0.0000005788	0.0000007012	0.0000003303	0.0000015229
PCB_134_143	0.0000000274	0.0000000203	0.0000000164	0.0000000083	0.0000000384
PCB_139_140	0.0000000013	0.0000000037	-.0000000001	0.0000000003	0.0000000013
PCB_131	0.0000000156	0.0000000095	0.0000000105	0.0000000050	0.0000000228
PCB_142	0.0000000001	0.0000000001	0.0000000001	0.0000000000	0.0000000002
PCB_132	0.0000002328	0.0000001464	0.0000001515	0.0000000732	0.0000003357
PCB_133	0.0000000127	0.0000000070	0.0000000080	0.0000000038	0.0000000177
PCB_165	-.0000000006	-.0000000004	-.0000000005	-.0000000002	-.0000000009
PCB_146	0.0000002215	0.0000001268	0.0000001447	0.0000000689	0.0000003174
PCB_153_168	0.0000020929	0.0000011696	0.0000013737	0.0000006507	0.0000030006
PCB_141	0.0000000478	0.0000000257	0.0000000330	0.0000000154	0.0000000703
PCB_130	0.0000000482	0.0000000340	0.0000000302	0.0000000150	0.0000000688
PCB_137	0.0000000065	0.0000000022	0.0000000052	0.0000000023	0.0000000102
PCB_164	0.0000000561	0.0000000338	0.0000000369	0.0000000176	0.0000000810
PCB_129_138_163	0.0000008574	0.0000006558	0.0000005170	0.0000002640	0.0000012101
PCB_158	0.0000000553	0.0000000607	0.0000000288	0.0000000168	0.0000000763
PCB_128_166	0.0000000398	0.0000000704	0.0000000119	0.0000000111	0.0000000497
PCB_159	0.0000000001	0.0000000001	0.0000000001	0.0000000000	0.0000000002
PCB_162	0.0000000060	0.0000000023	0.0000000043	0.0000000019	0.0000000088
PCB_167	0.0000000487	0.0000000160	0.0000000345	0.0000000152	0.0000000705
PCB_156_57	-.0000000081	-.0000000039	-.0000000057	-.0000000026	-.0000000120
PCB_169	0.0000000001	0.0000000007	-.0000000000	0.0000000000	0.0000000002
PCB_188	0.0000000008	0.0000000003	0.0000000006	0.0000000003	0.0000000012
PCB_179	0.0000002416	0.0000001274	0.0000001631	0.0000000761	0.0000003504
PCB_184	-.0000000001	-.0000000000	-.0000000001	-.0000000000	-.0000000001
PCB_176	0.0000000721	0.0000000412	0.0000000478	0.0000000227	0.0000001042
PCB_178	0.0000001408	0.0000000738	0.0000000952	0.0000000444	0.0000002043
PCB_175	0.0000000273	0.0000000149	0.0000000184	0.0000000086	0.0000000396
PCB_187	0.0000008458	0.0000004694	0.0000005650	0.0000002662	0.0000012242
PCB_182	0.0000000009	0.0000000005	0.0000000006	0.0000000003	0.0000000013
PCB_183_185	0.0000003431	0.0000002081	0.0000002238	0.0000001075	0.0000004937

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_209
PCB_105	-.0000001403
PCB_127	0.0000000005
PCB_155	0.0000000000
PCB_152	-.0000000003
PCB_150	-.0000000002
PCB_136	0.0000000573
PCB_145	-.0000000000
PCB_148	0.0000000002
PCB_135_151	0.0000004425
PCB_154	-.0000000005
PCB_144	0.0000000492
PCB_147_149	0.0000006967
PCB_134_143	0.0000000154
PCB_139_140	-.0000000006
PCB_131	0.0000000105
PCB_142	0.0000000001
PCB_132	0.0000001492
PCB_133	0.0000000077
PCB_165	-.0000000005
PCB_146	0.0000001428
PCB_153_168	0.0000013582
PCB_141	0.0000000335
PCB_130	0.0000000291
PCB_137	0.0000000057
PCB_164	0.0000000365
PCB_129_138_163	0.0000004879
PCB_158	0.0000000247
PCB_128_166	0.0000000045
PCB_159	0.0000000001
PCB_162	0.0000000044
PCB_167	0.0000000354
PCB_156_57	-.0000000058
PCB_169	-.0000000001
PCB_188	0.0000000006
PCB_179	0.0000001636
PCB_184	-.0000000001
PCB_176	0.0000000475
PCB_178	0.0000000955
PCB_175	0.0000000183
PCB_187	0.0000005636
PCB_182	0.0000000006
PCB_183_185	0.0000002206

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_174	PCB 174	-.0000002172	0.0000000006	-.0000000148
PCB_177	PCB 177	-.0000004465	0.0000000001	-.0000000306
PCB_181	PCB 181	-.0000000030	-.0000000000	-.0000000002
PCB_171_173	PCB 171/173	-.0000002117	-.0000000003	-.0000000147
PCB_172	PCB 172	-.0000000218	0.0000000001	-.0000000015
PCB_180_193	PCB 180/193	-.0000008818	0.0000000020	-.0000000637
PCB_191	PCB 191	-.0000000190	-.0000000000	-.0000000013
PCB_170	PCB 170	-.0000001419	0.0000000002	-.0000000101
PCB_190	PCB 190	-.0000001038	0.0000000001	-.0000000088
PCB_189	PCB 189	-.0000000042	0.0000000000	-.0000000003
PCB_202	PCB 202	-.0000000859	0.0000000003	-.0000000060
PCB_201	PCB 201	-.0000000608	0.0000000002	-.0000000042
PCB_197_200	PCB 197/200	-.0000000354	0.0000000001	-.0000000025
PCB_198_199	PCB 198/199	-.0000001043	0.0000000004	-.0000000073
PCB_196	PCB 196	-.0000000540	0.0000000001	-.0000000038
PCB_203	PCB 203	-.0000001938	0.0000000004	-.0000000139
PCB_195	PCB 195	-.0000000664	0.0000000001	-.0000000048
PCB_194	PCB 194	-.0000000185	0.0000000001	-.0000000013
PCB_205	PCB 205	-.0000000090	0.0000000000	-.0000000006
PCB_208	PCB 208	-.0000000121	0.0000000001	-.0000000008
PCB_207	PCB 207	-.0000000056	0.0000000000	-.0000000004
PCB_206	PCB 206	-.0000000261	0.0000000001	-.0000000018
PCB_209	PCB 209	-.0000000120	0.0000000001	-.0000000008

Covariance Matrix

	PCB_4	PCB_10	PCB_9	PCB_7	PCB_6
PCB_174	-.0000083607	-.0000003709	-.0000000169	-.0000000201	-.0000002227
PCB_177	-.0000181349	-.0000007874	0.0000000096	-.0000000246	-.0000002011
PCB_181	-.0000001247	-.0000000053	0.0000000003	-.0000000001	-.0000000000
PCB_171_173	-.0000088370	-.0000003785	0.0000000187	-.0000000064	-.0000000135
PCB_172	-.0000008343	-.0000000371	-.0000000022	-.0000000022	-.0000000249
PCB_180_193	-.0000349788	-.0000015412	-.0000000644	-.0000000827	-.0000008751
PCB_191	-.0000007738	-.0000000334	0.0000000008	-.0000000009	-.0000000060
PCB_170	-.0000055419	-.0000002427	-.0000000043	-.0000000107	-.0000001051
PCB_190	-.0000043544	-.0000001885	-.0000000060	-.0000000100	-.0000000917
PCB_189	-.0000001638	-.0000000072	-.0000000002	-.0000000004	-.0000000035
PCB_202	-.0000033528	-.0000001492	-.0000000091	-.0000000090	-.0000001021
PCB_201	-.0000023990	-.0000001061	-.0000000046	-.0000000057	-.0000000616

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_10	PCB_9	PCB_7	PCB_6
PCB_197_200	-.0000013930	-.0000000616	-.0000000028	-.0000000034	-.0000000363
PCB_198_199	-.0000040243	-.0000001796	-.0000000125	-.0000000115	-.0000001324
PCB_196	-.0000021158	-.0000000935	-.0000000043	-.0000000051	-.0000000555
PCB_203	-.0000077498	-.0000003408	-.0000000120	-.0000000173	-.0000001805
PCB_195	-.0000026950	-.0000001174	-.0000000007	-.0000000046	-.0000000421
PCB_194	-.0000007207	-.0000000320	-.0000000021	-.0000000020	-.0000000229
PCB_205	-.0000003698	-.0000000160	0.0000000001	-.0000000005	-.0000000045
PCB_208	-.0000004618	-.0000000208	-.0000000018	-.0000000014	-.0000000173
PCB_207	-.0000002172	-.0000000097	-.0000000007	-.0000000006	-.0000000073
PCB_206	-.0000010114	-.0000000452	-.0000000032	-.0000000029	-.0000000338
PCB_209	-.0000004515	-.0000000204	-.0000000020	-.0000000015	-.0000000183

Covariance Matrix

	PCB_5	PCB_8	PCB_12_13	PCB_15	PCB_19
PCB_174	-.0000000047	-.0000003717	-.0000003941	-.0000004461	-.0000039979
PCB_177	0.0000000087	-.0000000542	-.0000008724	-.0000006507	-.0000086567
PCB_181	0.0000000001	0.0000000026	-.0000000060	-.0000000031	-.0000000578
PCB_171_173	0.0000000099	0.0000001985	-.0000004298	-.0000002197	-.0000042090
PCB_172	-.0000000007	-.0000000449	-.0000000392	-.0000000478	-.0000003978
PCB_180_193	-.0000000169	-.0000014649	-.0000016569	-.0000018506	-.0000166047
PCB_191	0.0000000005	0.0000000044	-.0000000373	-.0000000246	-.0000003682
PCB_170	-.0000000004	-.0000001387	-.0000002630	-.0000002463	-.0000026290
PCB_190	-.0000000013	-.0000001565	-.0000002078	-.0000002223	-.0000020213
PCB_189	-.0000000000	-.0000000054	-.0000000077	-.0000000078	-.0000000773
PCB_202	-.0000000028	-.0000001860	-.0000001579	-.0000001977	-.0000016011
PCB_201	-.0000000012	-.0000001025	-.0000001136	-.0000001280	-.0000011446
PCB_197_200	-.0000000008	-.0000000614	-.0000000659	-.0000000749	-.0000006633
PCB_198_199	-.0000000040	-.0000002498	-.0000001888	-.0000002477	-.0000019211
PCB_196	-.0000000012	-.0000000947	-.0000001000	-.0000001140	-.0000010059
PCB_203	-.0000000028	-.0000002874	-.0000003682	-.0000003954	-.0000036830
PCB_195	0.0000000004	-.0000000440	-.0000001291	-.0000001127	-.0000012801
PCB_194	-.0000000007	-.0000000431	-.0000000339	-.0000000437	-.0000003423
PCB_205	0.0000000001	-.0000000025	-.0000000178	-.0000000141	-.0000001759
PCB_208	-.0000000006	-.0000000340	-.0000000216	-.0000000308	-.0000002213
PCB_207	-.0000000002	-.0000000137	-.0000000102	-.0000000135	-.0000001039
PCB_206	-.0000000010	-.0000000642	-.0000000475	-.0000000631	-.0000004829
PCB_209	-.0000000007	-.0000000365	-.0000000210	-.0000000316	-.0000002173

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_17	PCB_27	PCB_24	PCB_16
PCB_174	-.0000003192	-.0000029098	-.0000103118	0.0000000310	0.0000001536
PCB_177	0.0000006545	-.0000060875	-.0000239461	0.0000000550	0.0000008896
PCB_181	0.0000000140	-.0000000373	-.0000001512	0.0000000002	0.0000000083
PCB_171_173	0.0000007353	-.0000028872	-.0000121138	0.0000000228	0.0000006006
PCB_172	-.0000000426	-.0000002898	-.0000009954	0.0000000032	0.0000000095
PCB_180_193	-.0000009001	-.0000119083	-.0000414593	0.0000001232	0.0000006996
PCB_191	0.0000000428	-.0000002552	-.0000010266	0.0000000022	0.0000000430
PCB_170	0.0000000297	-.0000018536	-.0000068685	0.0000000177	0.0000001822
PCB_190	0.0000000419	-.0000013802	-.0000045833	0.0000000128	0.0000001042
PCB_189	-.0000000003	-.0000000542	-.0000001944	0.0000000005	0.0000000044
PCB_202	-.0000001896	-.0000011742	-.0000039770	0.0000000130	0.0000000332
PCB_201	-.0000000794	-.0000008297	-.0000029118	0.0000000088	0.0000000466
PCB_197_200	-.0000000461	-.0000004794	-.0000016715	0.0000000051	0.0000000257
PCB_198_199	-.0000002716	-.0000014141	-.0000047107	0.0000000160	0.0000000204
PCB_196	-.0000000684	-.0000007248	-.0000025203	0.0000000076	0.0000000380
PCB_203	-.0000001454	-.0000026384	-.0000093140	0.0000000270	0.0000001823
PCB_195	0.0000000493	-.0000009010	-.0000033790	0.0000000085	0.0000001052
PCB_194	-.0000000417	-.0000002492	-.0000008250	0.0000000028	0.0000000048
PCB_205	0.0000000123	-.0000001233	-.0000004734	0.0000000011	0.0000000170
PCB_208	-.0000000426	-.0000001655	-.0000005372	0.0000000020	-.0000000016
PCB_207	-.0000000156	-.0000000769	-.0000002557	0.0000000009	0.0000000009
PCB_206	-.0000000712	-.0000003562	-.0000011796	0.0000000040	0.0000000040
PCB_209	-.0000000498	-.0000001648	-.0000005292	0.0000000020	-.0000000040

Covariance Matrix

	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25
PCB_174	-.0000014026	-.0000000384	0.0000000010	-.0000009923	-.0000009325
PCB_177	-.0000027199	-.0000000747	0.0000000033	-.0000021935	-.0000020575
PCB_181	-.0000000143	-.0000000004	0.0000000000	-.0000000066	-.0000000105
PCB_171_173	-.0000012227	-.0000000335	0.0000000019	-.0000010576	-.0000010034
PCB_172	-.0000001407	-.0000000039	0.0000000001	-.0000000917	-.0000000896
PCB_180_193	-.0000055668	-.0000001547	0.0000000044	-.0000035215	-.0000036110
PCB_191	-.0000001115	-.0000000030	0.0000000001	-.0000000887	-.0000000858
PCB_170	-.0000008513	-.0000000231	0.0000000008	-.0000005677	-.0000005814
PCB_190	-.0000005893	-.0000000168	0.0000000006	-.0000002024	-.0000003427
PCB_189	-.0000000248	-.0000000007	0.0000000000	-.0000000144	-.0000000161
PCB_202	-.0000005688	-.0000000158	0.0000000004	-.0000003794	-.0000003636
PCB_201	-.0000003937	-.0000000109	0.0000000003	-.0000002712	-.0000002609

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25
PCB_197_200	-.0000002270	-.0000000063	0.0000000002	-.0000001505	-.0000001484
PCB_198_199	-.0000006926	-.0000000192	0.0000000004	-.0000004478	-.0000004327
PCB_196	-.0000003427	-.0000000095	0.0000000003	-.0000002203	-.0000002218
PCB_203	-.0000012258	-.0000000341	0.0000000010	-.0000008071	-.0000008126
PCB_195	-.0000004047	-.0000000112	0.0000000004	-.0000002869	-.0000002870
PCB_194	-.0000001200	-.0000000033	0.0000000001	-.0000000716	-.0000000736
PCB_205	-.0000000545	-.0000000015	0.0000000001	-.0000000410	-.0000000402
PCB_208	-.0000000830	-.0000000023	0.0000000000	-.0000000549	-.0000000511
PCB_207	-.0000000378	-.0000000011	0.0000000000	-.0000000252	-.0000000238
PCB_206	-.0000001746	-.0000000049	0.0000000001	-.0000001128	-.0000001088
PCB_209	-.0000000843	-.0000000023	0.0000000000	-.0000000581	-.0000000518

Covariance Matrix

	PCB_31	PCB_20_28	PCB_21_33	PCB_22	PCB_39
PCB_174	-.0000000772	-.0000002303	0.0000002185	0.0000003792	0.0000000070
PCB_177	0.0000006362	0.0000008182	0.0000006937	0.0000010739	0.0000000122
PCB_181	0.0000000098	0.0000000130	0.0000000054	0.0000000081	0.0000000000
PCB_171_173	0.0000005589	0.0000008074	0.0000004030	0.0000005969	0.0000000050
PCB_172	-.0000000143	-.0000000353	0.0000000194	0.0000000350	0.0000000007
PCB_180_193	-.0000000926	-.0000007775	0.0000009280	0.0000016030	0.0000000268
PCB_191	0.0000000360	0.0000000490	0.0000000314	0.0000000478	0.0000000005
PCB_170	0.0000000916	0.0000000691	0.0000001739	0.0000002831	0.0000000039
PCB_190	0.0000000718	-.0000000194	0.0000001180	0.0000002014	0.0000000024
PCB_189	0.0000000019	0.0000000003	0.0000000047	0.0000000079	0.0000000001
PCB_202	-.0000000696	-.0000001666	0.0000000767	0.0000001401	0.0000000029
PCB_201	-.0000000160	-.0000000630	0.0000000637	0.0000001103	0.0000000019
PCB_197_200	-.0000000094	-.0000000380	0.0000000363	0.0000000632	0.0000000011
PCB_198_199	-.0000001097	-.0000002427	0.0000000841	0.0000001589	0.0000000036
PCB_196	-.0000000135	-.0000000571	0.0000000545	0.0000000950	0.0000000017
PCB_203	0.0000000121	-.0000001155	0.0000002171	0.0000003687	0.0000000059
PCB_195	0.0000000644	0.0000000619	0.0000000918	0.0000001466	0.0000000018
PCB_194	-.0000000158	-.0000000391	0.0000000153	0.0000000287	0.0000000006
PCB_205	0.0000000121	0.0000000140	0.0000000137	0.0000000214	0.0000000002
PCB_208	-.0000000194	-.0000000384	0.0000000082	0.0000000166	0.0000000004
PCB_207	-.0000000065	-.0000000139	0.0000000045	0.0000000085	0.0000000002
PCB_206	-.0000000294	-.0000000643	0.0000000207	0.0000000395	0.0000000009
PCB_209	-.0000000237	-.0000000445	0.0000000071	0.0000000153	0.0000000005

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_38	PCB_35	PCB_37	PCB_54	PCB_50_53
PCB_174	-.0000000151	0.0000000204	0.0000000724	-.0000003714	-.0000076307
PCB_177	-.0000000274	0.0000000429	0.0000003644	-.0000008193	-.0000187980
PCB_181	-.0000000000	0.0000000003	0.0000000035	-.0000000049	-.0000001126
PCB_171_173	-.0000000115	0.0000000204	0.0000002417	-.0000004013	-.0000098000
PCB_172	-.0000000015	0.0000000020	0.0000000051	-.0000000362	-.0000007157
PCB_180_193	-.0000000520	0.0000000829	0.0000003100	-.0000014905	-.0000297124
PCB_191	-.0000000011	0.0000000018	0.0000000177	-.0000000346	-.0000008105
PCB_170	-.0000000080	0.0000000129	0.0000000810	-.0000002392	-.0000051329
PCB_190	-.0000000026	0.0000000093	0.0000000435	-.0000001623	-.0000029446
PCB_189	-.0000000002	0.0000000004	0.0000000020	-.0000000068	-.0000001402
PCB_202	-.0000000059	0.0000000082	0.0000000163	-.0000001463	-.0000028396
PCB_201	-.0000000040	0.0000000058	0.0000000205	-.0000001051	-.0000021265
PCB_197_200	-.0000000022	0.0000000034	0.0000000115	-.0000000603	-.0000012094
PCB_198_199	-.0000000072	0.0000000099	0.0000000128	-.0000001746	-.0000033207
PCB_196	-.0000000033	0.0000000051	0.0000000175	-.0000000909	-.0000018129
PCB_203	-.0000000116	0.0000000184	0.0000000781	-.0000003332	-.0000067585
PCB_195	-.0000000037	0.0000000063	0.0000000436	-.0000001174	-.0000025486
PCB_194	-.0000000012	0.0000000017	0.0000000027	-.0000000304	-.0000005707
PCB_205	-.0000000005	0.0000000009	0.0000000069	-.0000000163	-.0000003632
PCB_208	-.0000000009	0.0000000012	-.0000000001	-.0000000203	-.0000003752
PCB_207	-.0000000004	0.0000000005	0.0000000006	-.0000000095	-.0000001810
PCB_206	-.0000000018	0.0000000025	0.0000000027	-.0000000439	-.0000008283
PCB_209	-.0000000010	0.0000000012	-.0000000011	-.0000000202	-.0000003712

Covariance Matrix

	PCB_45_51	PCB_46	PCB_52	PCB_73	PCB_43
PCB_174	-.0000023610	-.0000005397	-.0000101812	0.0000000174	-.0000000378
PCB_177	-.0000057966	-.0000012661	-.0000241588	0.0000002859	-.0000001304
PCB_181	-.0000000381	-.0000000067	-.0000001336	0.0000000027	-.0000000010
PCB_171_173	-.0000030142	-.0000006427	-.0000122761	0.0000002143	-.0000000775
PCB_172	-.0000002250	-.0000000507	-.0000009620	-.0000000012	-.0000000032
PCB_180_193	-.0000096337	-.0000020295	-.0000399243	0.0000000573	-.0000001643
PCB_191	-.0000002506	-.0000000538	-.0000010237	0.0000000144	-.0000000059
PCB_170	-.0000016118	-.0000003483	-.0000065864	0.0000000453	-.0000000308
PCB_190	-.0000011004	-.0000001760	-.0000039363	0.0000000026	-.0000000212
PCB_189	-.0000000453	-.0000000094	-.0000001802	0.0000000008	-.0000000008
PCB_202	-.0000009054	-.0000002009	-.0000039113	-.0000000082	-.0000000132
PCB_201	-.0000006743	-.0000001480	-.0000028725	0.0000000045	-.0000000113

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_46	PCB_52	PCB_73	PCB_43
PCB_197_200	-.0000003863	-.0000000838	-.0000016303	0.0000000018	-.0000000064
PCB_198_199	-.0000010597	-.0000002370	-.0000045907	-.0000000184	-.0000000140
PCB_196	-.0000005811	-.0000001253	-.0000024327	0.0000000022	-.0000000095
PCB_203	-.0000021807	-.0000004604	-.0000090668	0.0000000254	-.0000000391
PCB_195	-.0000008101	-.0000001703	-.0000033193	0.0000000283	-.0000000170
PCB_194	-.0000001867	-.0000000399	-.0000007857	-.0000000032	-.0000000026
PCB_205	-.0000001150	-.0000000241	-.0000004720	0.0000000050	-.0000000026
PCB_208	-.0000001188	-.0000000275	-.0000005303	-.0000000038	-.0000000013
PCB_207	-.0000000575	-.0000000130	-.0000002522	-.0000000011	-.0000000008
PCB_206	-.0000002653	-.0000000592	-.0000011521	-.0000000052	-.0000000035
PCB_209	-.0000001156	-.0000000278	-.0000005313	-.0000000046	-.0000000011

Covariance Matrix

	PCB_49_69	PCB_48	PCB_44_47_65	PCB_59_62_75	PCB_42
PCB_174	-.0000111785	0.0000004426	-.0000087961	-.0000007500	-.0000005098
PCB_177	-.0000243805	0.0000008764	-.0000217510	-.0000017702	-.0000024763
PCB_181	-.0000001171	0.0000000042	-.0000001407	-.0000000046	-.0000000201
PCB_171_173	-.0000117888	0.0000003983	-.0000113363	-.0000008938	-.0000016134
PCB_172	-.0000010727	0.0000000438	-.0000008348	-.0000000663	-.0000000346
PCB_180_193	-.0000428778	0.0000017218	-.0000358169	-.0000023885	-.0000020748
PCB_191	-.0000010109	0.0000000357	-.0000009391	-.0000000729	-.0000001168
PCB_170	-.0000068675	0.0000002646	-.0000059872	-.0000004377	-.0000005113
PCB_190	-.0000039038	0.0000001677	-.0000040416	-.0000000426	-.0000002303
PCB_189	-.0000001886	0.0000000075	-.0000001674	-.0000000102	-.0000000121
PCB_202	-.0000043643	0.0000001780	-.0000033724	-.0000002611	-.0000001275
PCB_201	-.0000031186	0.0000001237	-.0000025153	-.0000001933	-.0000001472
PCB_197_200	-.0000017699	0.0000000708	-.0000014383	-.0000001056	-.0000000803
PCB_198_199	-.0000051994	0.0000002156	-.0000039371	-.0000003053	-.0000001037
PCB_196	-.0000026404	0.0000001063	-.0000021596	-.0000001537	-.0000001174
PCB_203	-.0000096518	0.0000003817	-.0000081258	-.0000005571	-.0000005334
PCB_195	-.0000033902	0.0000001273	-.0000030268	-.0000002135	-.0000002901
PCB_194	-.0000008790	0.0000000368	-.0000006917	-.0000000459	-.0000000189
PCB_205	-.0000004740	0.0000000173	-.0000004312	-.0000000310	-.0000000465
PCB_208	-.0000006180	0.0000000260	-.0000004418	-.0000000373	-.0000000031
PCB_207	-.0000002867	0.0000000118	-.0000002142	-.0000000173	-.0000000054
PCB_206	-.0000013081	0.0000000544	-.0000009860	-.0000000759	-.0000000233
PCB_209	-.0000006314	0.0000000266	-.0000004306	-.0000000403	0.0000000017

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_40_41_71	PCB_64	PCB_72	PCB_68	PCB_57
PCB_174	-.0000010401	0.0000001659	-.0000005598	-.0000005478	-.0000001702
PCB_177	-.0000029066	0.0000007268	-.0000012472	-.0000012037	-.0000003659
PCB_181	-.0000000201	0.00000000090	-.0000000053	-.0000000062	-.0000000010
PCB_171_173	-.0000015997	0.0000004705	-.0000006093	-.0000005852	-.0000001742
PCB_172	-.0000000953	0.0000000148	-.0000000528	-.0000000528	-.0000000158
PCB_180_193	-.0000043224	0.0000009289	-.0000020807	-.0000021377	-.0000005863
PCB_191	-.0000001278	0.0000000358	-.0000000515	-.0000000502	-.0000000148
PCB_170	-.0000007509	0.0000001903	-.0000003391	-.0000003414	-.0000000967
PCB_190	-.0000005088	0.0000001987	-.0000001635	-.0000002081	-.0000000285
PCB_189	-.0000000205	0.0000000057	-.0000000090	-.0000000095	-.0000000024
PCB_202	-.0000003878	0.0000000539	-.0000002148	-.0000002150	-.0000000640
PCB_201	-.0000003023	0.0000000540	-.0000001545	-.0000001539	-.0000000455
PCB_197_200	-.0000001720	0.0000000324	-.0000000869	-.0000000876	-.0000000253
PCB_198_199	-.0000004395	0.0000000534	-.0000002545	-.0000002559	-.0000000761
PCB_196	-.0000002570	0.0000000509	-.0000001289	-.0000001310	-.0000000371
PCB_203	-.0000009979	0.0000002168	-.0000004721	-.0000004806	-.0000001338
PCB_195	-.0000003937	0.0000001015	-.0000001685	-.0000001690	-.0000000474
PCB_194	-.0000000780	0.0000000129	-.0000000421	-.0000000437	-.0000000120
PCB_205	-.0000000576	0.0000000152	-.0000000238	-.0000000236	-.0000000067
PCB_208	-.0000000471	0.0000000024	-.0000000304	-.0000000302	-.0000000094
PCB_207	-.0000000239	0.0000000025	-.0000000141	-.0000000141	-.0000000043
PCB_206	-.0000001097	0.0000000126	-.0000000640	-.0000000644	-.0000000191
PCB_209	-.0000000444	-.0000000006	-.0000000315	-.0000000306	-.0000000100

Covariance Matrix

	PCB_58	PCB_67	PCB_63	PCB_61_70_74_76	PCB_66
PCB_174	-.0000000257	-.0000000630	-.0000001390	-.0000021427	-.0000026904
PCB_177	-.0000000722	-.0000001296	-.0000002715	-.0000036827	-.0000052653
PCB_181	-.0000000003	0.0000000002	-.0000000011	-.0000000193	-.0000000273
PCB_171_173	-.0000000395	-.0000000581	-.0000001211	-.0000014796	-.0000023625
PCB_172	-.0000000022	-.0000000055	-.0000000137	-.0000002231	-.0000002698
PCB_180_193	-.0000000889	-.0000001885	-.0000005404	-.0000089998	-.0000109214
PCB_191	-.0000000031	-.0000000048	-.0000000109	-.0000001450	-.0000002139
PCB_170	-.0000000166	-.0000000292	-.0000000804	-.0000012369	-.0000016129
PCB_190	-.0000000041	0.0000000047	-.0000000509	-.0000010926	-.0000012040
PCB_189	-.0000000004	-.0000000006	-.0000000023	-.0000000380	-.0000000471
PCB_202	-.0000000089	-.0000000238	-.0000000569	-.0000009347	-.0000011172
PCB_201	-.0000000070	-.0000000165	-.0000000392	-.0000006242	-.0000007712

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_67	PCB_63	PCB_61_70_74_76	PCB_66
PCB_197_200	-.0000000038	-.0000000088	-.0000000223	-.0000003628	-.0000004437
PCB_198_199	-.0000000099	-.0000000280	-.0000000687	-.0000011491	-.0000013526
PCB_196	-.0000000055	-.0000000123	-.0000000333	-.0000005482	-.0000006669
PCB_203	-.0000000213	-.0000000444	-.0000001202	-.0000019576	-.0000024143
PCB_195	-.0000000088	-.0000000152	-.0000000395	-.0000005982	-.0000007913
PCB_194	-.0000000015	-.0000000040	-.0000000117	-.0000002030	-.0000002354
PCB_205	-.0000000013	-.0000000022	-.0000000054	-.0000000786	-.0000001075
PCB_208	-.0000000011	-.0000000037	-.0000000084	-.0000001404	-.0000001627
PCB_207	-.0000000006	-.0000000016	-.0000000038	-.0000000629	-.0000000742
PCB_206	-.0000000025	-.0000000071	-.0000000174	-.0000002924	-.0000003425
PCB_209	-.0000000012	-.0000000042	-.0000000087	-.0000001424	-.0000001650

Covariance Matrix

	PCB_56	PCB_60	PCB_79	PCB_81	PCB_77
PCB_174	0.0000009099	0.0000003343	-.0000000157	0.0000000177	0.0000003152
PCB_177	0.0000018592	0.0000007934	-.0000001116	0.0000000357	0.0000006516
PCB_181	0.0000000100	0.0000000048	-.0000000013	0.0000000002	0.0000000038
PCB_171_173	0.0000008644	0.0000004055	-.0000000784	0.0000000164	0.0000003067
PCB_172	0.0000000902	0.0000000318	-.0000000010	0.0000000017	0.0000000313
PCB_180_193	0.0000036387	0.0000013194	-.0000000917	0.0000000695	0.0000012695
PCB_191	0.0000000768	0.0000000340	-.0000000056	0.0000000015	0.0000000272
PCB_170	0.0000005600	0.0000002218	-.0000000243	0.0000000107	0.0000001985
PCB_190	0.0000003888	0.0000001366	-.0000000206	0.0000000070	0.0000001408
PCB_189	0.0000000161	0.0000000062	-.0000000007	0.0000000003	0.0000000058
PCB_202	0.0000003677	0.0000001271	-.0000000028	0.0000000071	0.0000001264
PCB_201	0.0000002577	0.0000000938	-.0000000052	0.0000000050	0.0000000891
PCB_197_200	0.0000001481	0.0000000535	-.0000000031	0.0000000028	0.0000000514
PCB_198_199	0.0000004435	0.0000001498	-.0000000008	0.0000000086	0.0000001526
PCB_196	0.0000002228	0.0000000804	-.0000000047	0.0000000043	0.0000000776
PCB_203	0.0000008074	0.0000002982	-.0000000234	0.0000000154	0.0000002812
PCB_195	0.0000002725	0.0000001097	-.0000000139	0.0000000052	0.0000000958
PCB_194	0.0000000769	0.0000000259	-.0000000006	0.0000000015	0.0000000267
PCB_205	0.0000000373	0.0000000155	-.0000000022	0.0000000007	0.0000000131
PCB_208	0.0000000527	0.0000000171	0.0000000006	0.0000000010	0.0000000180
PCB_207	0.0000000243	0.0000000082	0.0000000000	0.0000000005	0.0000000083
PCB_206	0.0000001119	0.0000000375	-.0000000000	0.0000000022	0.0000000384
PCB_209	0.0000000533	0.0000000169	0.0000000010	0.0000000011	0.0000000180

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_104	PCB_96	PCB_103	PCB_94	PCB_95
PCB_174	-.0000000282	-.0000000593	-.0000002285	-.0000002767	0.0000012605
PCB_177	-.0000000617	-.0000001674	-.0000005263	-.0000006260	-.0000057108
PCB_181	-.0000000004	-.00000000010	-.0000000025	-.0000000038	-.0000000739
PCB_171_173	-.0000000300	-.0000000925	-.0000002624	-.0000003107	-.0000053624
PCB_172	-.0000000028	-.0000000052	-.0000000215	-.0000000269	0.0000002150
PCB_180_193	-.0000001141	-.0000002238	-.0000008700	-.0000011247	0.0000049588
PCB_191	-.0000000026	-.0000000073	-.0000000220	-.0000000265	-.0000003254
PCB_170	-.0000000180	-.0000000414	-.0000001425	-.0000001801	-.0000004378
PCB_190	-.0000000126	-.0000000191	-.0000000759	-.0000001262	0.0000004605
PCB_189	-.0000000005	-.0000000011	-.0000000038	-.0000000051	0.0000000018
PCB_202	-.0000000113	-.0000000208	-.0000000877	-.0000001093	0.0000009988
PCB_201	-.0000000080	-.0000000164	-.0000000638	-.0000000790	0.0000003587
PCB_197_200	-.0000000046	-.0000000092	-.0000000360	-.0000000454	0.0000002274
PCB_198_199	-.0000000134	-.0000000234	-.0000001034	-.0000001298	0.0000014832
PCB_196	-.0000000069	-.0000000136	-.0000000535	-.0000000682	0.0000003546
PCB_203	-.0000000255	-.0000000524	-.0000001977	-.0000002523	0.0000006970
PCB_195	-.0000000089	-.0000000214	-.0000000715	-.0000000896	-.0000004142
PCB_194	-.0000000023	-.0000000039	-.0000000174	-.0000000227	0.0000002502
PCB_205	-.0000000012	-.0000000032	-.0000000102	-.0000000125	-.0000000943
PCB_208	-.0000000016	-.0000000026	-.0000000122	-.0000000150	0.0000002322
PCB_207	-.0000000007	-.0000000013	-.0000000057	-.0000000071	0.0000000837
PCB_206	-.0000000034	-.0000000058	-.0000000260	-.0000000326	0.0000003930
PCB_209	-.0000000016	-.0000000025	-.0000000124	-.0000000149	0.0000002642

Covariance Matrix

	PCB_93_98_ 100_102	PCB_88_91	PCB_84	PCB_89	PCB_121
PCB_174	-.0000005553	-.0000003322	0.0000000104	0.0000001807	-.0000000168
PCB_177	-.0000014637	-.0000013201	-.0000007823	0.0000003199	-.0000000358
PCB_181	-.0000000103	-.0000000080	-.0000000088	0.0000000014	-.0000000002
PCB_171_173	-.0000007869	-.0000008134	-.0000006225	0.0000001324	-.0000000170
PCB_172	-.0000000521	-.0000000242	0.0000000092	0.0000000183	-.0000000016
PCB_180_193	-.0000023188	-.0000012048	-.0000000713	0.0000007114	-.0000000645
PCB_191	-.0000000641	-.0000000596	-.0000000407	0.0000000126	-.0000000015
PCB_170	-.0000003944	-.0000002680	-.0000001109	0.0000001028	-.0000000101
PCB_190	-.0000002803	-.0000000752	-.0000000432	0.0000000718	-.0000000058
PCB_189	-.0000000110	-.00000000060	-.0000000020	0.0000000030	-.0000000003
PCB_202	-.0000002109	-.0000000968	0.0000000432	0.0000000755	-.0000000066
PCB_201	-.0000001609	-.0000000929	-.0000000019	0.0000000509	-.0000000047

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_93_98_ 100_102	PCB_88_91	PCB_84	PCB_89	PCB_121
PCB_197_200	-.0000000921	-.0000000498	0.0000000007	0.0000000293	-.0000000027
PCB_198_199	-.0000002430	-.0000000926	0.0000000801	0.0000000926	-.0000000079
PCB_196	-.0000001384	-.0000000711	0.0000000024	0.0000000440	-.0000000040
PCB_203	-.0000005293	-.0000003064	-.0000000549	0.0000001557	-.0000000145
PCB_195	-.0000002027	-.0000001526	-.0000000788	0.0000000488	-.0000000050
PCB_194	-.0000000434	-.0000000144	0.0000000124	0.0000000159	-.0000000013
PCB_205	-.0000000292	-.0000000243	-.0000000145	0.0000000065	-.0000000007
PCB_208	-.0000000265	-.0000000079	0.0000000150	0.0000000114	-.0000000009
PCB_207	-.0000000132	-.0000000052	0.0000000046	0.0000000051	-.0000000004
PCB_206	-.0000000607	-.0000000223	0.0000000217	0.0000000235	-.0000000020
PCB_209	-.0000000252	-.0000000069	0.0000000183	0.0000000118	-.0000000010

Covariance Matrix

	PCB_92	PCB_90_ 101_113	PCB_83	PCB_99	PCB_86_87_ 97_108_ 119_125
PCB_174	-.0000011038	-.0000062139	0.0000001465	-.0000067038	-.0000035399
PCB_177	-.0000029944	-.0000143722	0.0000003391	-.0000151933	-.0000091761
PCB_181	-.0000000149	-.0000000929	0.0000000031	-.0000000875	-.0000000690
PCB_171_173	-.0000016119	-.0000072128	0.0000001731	-.0000075288	-.0000048974
PCB_172	-.0000000977	-.0000006048	0.0000000149	-.0000006473	-.0000003388
PCB_180_193	-.0000041681	-.0000259033	0.0000006668	-.0000269338	-.0000153336
PCB_191	-.0000001277	-.0000006119	0.0000000150	-.0000006403	-.0000004026
PCB_170	-.0000007230	-.0000041088	0.0000001071	-.0000043023	-.0000025386
PCB_190	-.0000003327	-.0000030993	0.0000001023	-.0000028890	-.0000020332
PCB_189	-.0000000183	-.0000001180	0.0000000033	-.0000001210	-.0000000730
PCB_202	-.0000004051	-.0000024809	0.0000000593	-.0000026447	-.0000013812
PCB_201	-.0000003113	-.0000018017	0.0000000434	-.0000019105	-.0000010440
PCB_197_200	-.0000001728	-.0000010360	0.0000000257	-.0000010920	-.0000006022
PCB_198_199	-.0000004580	-.0000029309	0.0000000709	-.0000031330	-.0000015991
PCB_196	-.0000002531	-.0000015587	0.0000000395	-.0000016365	-.0000009089
PCB_203	-.0000009775	-.0000058184	0.0000001470	-.0000060601	-.0000034767
PCB_195	-.0000003849	-.0000020750	0.0000000523	-.0000021538	-.0000013078
PCB_194	-.0000000755	-.0000005196	0.0000000134	-.0000005439	-.0000002912
PCB_205	-.0000000571	-.0000002915	0.0000000072	-.0000003023	-.0000001871
PCB_208	-.0000000520	-.0000003353	0.0000000077	-.0000003641	-.0000001736
PCB_207	-.0000000256	-.0000001596	0.0000000037	-.0000001715	-.0000000862
PCB_206	-.0000001147	-.0000007380	0.0000000178	-.0000007884	-.0000004009
PCB_209	-.0000000525	-.0000003286	0.0000000071	-.0000003635	-.0000001629

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_117_116	PCB_110_115	PCB_82	PCB_111	PCB_120
PCB_174	-.0000005887	-.0000022279	0.0000002404	-.0000000373	-.0000000825
PCB_177	-.0000011587	-.0000088341	0.0000004444	-.0000000863	-.0000001853
PCB_181	-.0000000075	-.0000000702	0.0000000004	-.0000000004	-.0000000006
PCB_171_173	-.0000005233	-.0000054813	0.0000001881	-.0000000430	-.0000000905
PCB_172	-.0000000603	-.0000001758	0.0000000228	-.0000000035	-.0000000076
PCB_180_193	-.0000025393	-.0000093780	0.0000008046	-.0000001371	-.0000002912
PCB_191	-.0000000477	-.0000004085	0.0000000169	-.0000000036	-.0000000076
PCB_170	-.0000003671	-.0000019757	0.0000001229	-.0000000228	-.0000000481
PCB_190	-.0000003311	-.0000011394	0.0000000284	-.0000000101	-.0000000166
PCB_189	-.0000000112	-.0000000501	0.0000000031	-.0000000006	-.0000000012
PCB_202	-.0000002513	-.0000006893	0.0000000939	-.0000000141	-.0000000311
PCB_201	-.0000001736	-.0000006539	0.0000000638	-.0000000103	-.0000000224
PCB_197_200	-.0000001010	-.0000003648	0.0000000353	-.0000000058	-.0000000124
PCB_198_199	-.0000003042	-.0000006806	0.0000001140	-.0000000166	-.0000000366
PCB_196	-.0000001528	-.0000005396	0.0000000517	-.0000000085	-.0000000182
PCB_203	-.0000005582	-.0000022946	0.0000001811	-.0000000314	-.0000000668
PCB_195	-.0000001820	-.0000010962	0.0000000587	-.0000000114	-.0000000241
PCB_194	-.0000000547	-.0000001242	0.0000000178	-.0000000027	-.0000000059
PCB_205	-.0000000246	-.0000001702	0.0000000081	-.0000000016	-.0000000034
PCB_208	-.0000000359	-.0000000527	0.0000000146	-.0000000020	-.0000000045
PCB_207	-.0000000166	-.0000000363	0.0000000065	-.0000000009	-.0000000021
PCB_206	-.0000000772	-.0000001640	0.0000000288	-.0000000042	-.0000000092
PCB_209	-.0000000356	-.0000000373	0.0000000160	-.0000000020	-.0000000047

Covariance Matrix

	PCB_107_124	PCB_109	PCB_123	PCB_118	PCB_122
PCB_174	-.0000000938	-.0000007692	0.0000000933	-.0000110794	0.0000000383
PCB_177	-.0000002640	-.0000015792	0.0000001282	-.0000247539	0.0000000610
PCB_181	-.0000000021	-.0000000081	0.0000000004	-.0000001591	0.0000000001
PCB_171_173	-.0000001456	-.0000007346	0.0000000400	-.0000122304	0.0000000227
PCB_172	-.0000000089	-.0000000758	0.0000000099	-.0000010874	0.0000000039
PCB_180_193	-.0000004271	-.0000030513	0.0000003642	-.0000455582	0.0000001369
PCB_191	-.0000000117	-.0000000649	0.0000000047	-.0000010530	0.0000000023
PCB_170	-.0000000702	-.0000004683	0.0000000494	-.0000072818	0.0000000198
PCB_190	-.0000000620	-.0000003146	0.0000000369	-.0000053424	0.0000000090
PCB_189	-.0000000020	-.0000000134	0.0000000015	-.0000002104	0.0000000006
PCB_202	-.0000000370	-.0000003106	0.0000000403	-.0000043961	0.0000000157
PCB_201	-.0000000286	-.0000002177	0.0000000258	-.0000031694	0.0000000103

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_107_124	PCB_109	PCB_123	PCB_118	PCB_122
PCB_197_200	-.0000000165	-.0000001247	0.0000000151	-.0000018273	0.0000000058
PCB_198_199	-.0000000420	-.0000003738	0.0000000510	-.0000052385	0.0000000195
PCB_196	-.0000000249	-.0000001870	0.0000000229	-.0000027594	0.0000000087
PCB_203	-.0000000978	-.0000006790	0.0000000775	-.0000101721	0.0000000299
PCB_195	-.0000000377	-.0000002295	0.0000000216	-.0000035907	0.0000000090
PCB_194	-.0000000078	-.0000000644	0.0000000088	-.0000009262	0.0000000032
PCB_205	-.0000000055	-.0000000315	0.0000000026	-.0000004987	0.0000000012
PCB_208	-.0000000044	-.0000000447	0.0000000064	-.0000006025	0.0000000025
PCB_207	-.0000000023	-.0000000205	0.0000000028	-.0000002844	0.0000000011
PCB_206	-.0000000105	-.0000000944	0.0000000129	-.0000013166	0.0000000049
PCB_209	-.0000000040	-.0000000454	0.0000000067	-.0000005933	0.0000000027

Covariance Matrix

	PCB_114	PCB_105	PCB_127	PCB_155	PCB_152
PCB_174	-.0000001172	-.0000022130	0.0000000077	-.0000000005	-.0000000053
PCB_177	-.0000001818	-.0000039210	0.0000000118	-.0000000024	-.0000000096
PCB_181	-.0000000011	-.0000000247	0.0000000000	-.0000000000	-.0000000001
PCB_171_173	-.0000000657	-.0000016398	0.0000000043	-.0000000016	-.0000000040
PCB_172	-.0000000126	-.0000002315	0.0000000008	-.0000000000	-.0000000006
PCB_180_193	-.0000005113	-.0000094163	0.0000000286	-.0000000019	-.0000000230
PCB_191	-.0000000070	-.0000001590	0.0000000005	-.0000000001	-.0000000004
PCB_170	-.0000000669	-.0000013429	0.0000000041	-.0000000005	-.0000000031
PCB_190	-.0000000685	-.0000012120	0.0000000025	-.0000000002	-.0000000030
PCB_189	-.0000000022	-.0000000417	0.0000000001	-.0000000000	-.0000000001
PCB_202	-.0000000531	-.0000009509	0.0000000032	-.0000000001	-.0000000023
PCB_201	-.0000000347	-.0000006422	0.0000000021	-.0000000001	-.0000000016
PCB_197_200	-.0000000204	-.0000003759	0.0000000012	-.0000000001	-.0000000009
PCB_198_199	-.0000000660	-.0000011703	0.0000000040	-.0000000001	-.0000000029
PCB_196	-.0000000310	-.0000005723	0.0000000018	-.0000000001	-.0000000014
PCB_203	-.0000001098	-.0000020421	0.0000000062	-.0000000005	-.0000000050
PCB_195	-.0000000319	-.0000006379	0.0000000018	-.0000000003	-.0000000016
PCB_194	-.0000000119	-.0000002098	0.0000000007	-.0000000000	-.0000000005
PCB_205	-.0000000041	-.0000000836	0.0000000002	-.0000000000	-.0000000002
PCB_208	-.0000000081	-.0000001404	0.0000000005	0.0000000000	-.0000000003
PCB_207	-.0000000036	-.0000000635	0.0000000002	-.0000000000	-.0000000002
PCB_206	-.0000000168	-.0000002967	0.0000000010	-.0000000000	-.0000000007
PCB_209	-.0000000082	-.0000001403	0.0000000005	0.0000000000	-.0000000003

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_136	PCB_145	PCB_148	PCB_135_151
PCB_174	-.0000000024	0.0000012014	0.0000000004	0.0000000033	0.0000081358
PCB_177	-.0000000037	0.0000030034	0.0000000024	0.0000000056	0.0000180431
PCB_181	0.0000000000	0.0000000200	0.0000000000	0.0000000000	0.0000001072
PCB_171_173	-.0000000013	0.0000015778	0.0000000016	0.0000000022	0.0000088596
PCB_172	-.0000000002	0.0000001139	0.0000000000	0.0000000003	0.0000007930
PCB_180_193	-.0000000081	0.0000048841	0.0000000017	0.0000000139	0.0000327350
PCB_191	-.0000000001	0.0000001305	0.0000000001	0.0000000002	0.0000007620
PCB_170	-.0000000010	0.0000008298	0.0000000005	0.0000000019	0.0000052435
PCB_190	-.0000000002	0.0000005546	0.0000000001	0.0000000017	0.0000035824
PCB_189	-.0000000000	0.0000000232	0.0000000000	0.0000000001	0.0000001493
PCB_202	-.0000000010	0.0000004555	0.0000000001	0.0000000014	0.0000032087
PCB_201	-.0000000007	0.0000003419	0.0000000001	0.0000000010	0.0000023077
PCB_197_200	-.0000000004	0.0000001958	0.0000000001	0.0000000006	0.0000013243
PCB_198_199	-.0000000013	0.0000005314	0.0000000001	0.0000000018	0.0000038240
PCB_196	-.0000000005	0.0000002947	0.0000000001	0.0000000008	0.0000019930
PCB_203	-.0000000018	0.0000011078	0.0000000004	0.0000000030	0.0000073255
PCB_195	-.0000000005	0.0000004165	0.0000000003	0.0000000009	0.0000025834
PCB_194	-.0000000002	0.0000000936	0.0000000000	0.0000000003	0.0000006670
PCB_205	-.0000000001	0.0000000593	0.0000000000	0.0000000001	0.0000003594
PCB_208	-.0000000002	0.0000000591	-.0000000000	0.0000000002	0.0000004441
PCB_207	-.0000000001	0.0000000288	0.0000000000	0.0000000001	0.0000002085
PCB_206	-.0000000003	0.0000001328	0.0000000000	0.0000000005	0.0000009612
PCB_209	-.0000000002	0.0000000573	-.0000000000	0.0000000002	0.0000004425

Covariance Matrix

	PCB_154	PCB_144	PCB_147_149	PCB_134_143	PCB_139_140
PCB_174	0.0000000027	0.0000009549	0.0000129814	0.0000003699	0.0000000379
PCB_177	0.0000000287	0.0000022469	0.0000291018	0.0000010326	0.0000001980
PCB_181	0.0000000005	0.0000000134	0.0000001758	0.0000000073	0.0000000018
PCB_171_173	0.0000000213	0.0000011413	0.0000143935	0.0000005699	0.0000001318
PCB_172	0.0000000002	0.0000000912	0.0000012628	0.0000000339	0.0000000026
PCB_180_193	0.0000000354	0.0000037949	0.0000522542	0.0000015213	0.0000001632
PCB_191	0.0000000016	0.0000000959	0.0000012337	0.0000000457	0.0000000096
PCB_170	0.0000000077	0.0000006292	0.0000084347	0.0000002698	0.0000000425
PCB_190	0.0000000127	0.0000003991	0.0000057434	0.0000001770	0.0000000226
PCB_189	0.0000000003	0.0000000175	0.0000002399	0.0000000074	0.0000000011
PCB_202	0.0000000007	0.0000003670	0.0000050949	0.0000001357	0.0000000085
PCB_201	0.0000000015	0.0000002694	0.0000036792	0.0000001063	0.0000000109

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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Covariance Matrix

	PCB_154	PCB_144	PCB_147_149	PCB_134_143	PCB_139_140
PCB_197_200	0.0000000010	0.0000001539	0.0000021118	0.0000000606	0.0000000061
PCB_198_199	0.0000000002	0.0000004327	0.0000060637	0.0000001542	0.0000000063
PCB_196	0.0000000017	0.0000002309	0.0000031799	0.0000000908	0.0000000091
PCB_203	0.0000000083	0.0000008570	0.0000117030	0.0000003506	0.0000000417
PCB_195	0.0000000044	0.0000003128	0.0000041541	0.0000001393	0.0000000235
PCB_194	0.0000000004	0.0000000750	0.0000010591	0.0000000274	0.0000000013
PCB_205	0.0000000007	0.0000000442	0.0000005788	0.0000000203	0.0000000037
PCB_208	-.0000000002	0.0000000496	0.0000007012	0.0000000164	-.0000000001
PCB_207	-.0000000000	0.0000000236	0.0000003303	0.0000000083	0.0000000003
PCB_206	0.0000000000	0.0000001084	0.0000015229	0.0000000384	0.0000000013
PCB_209	-.0000000005	0.0000000492	0.0000006967	0.0000000154	-.0000000006

Covariance Matrix

	PCB_131	PCB_142	PCB_132	PCB_133	PCB_165
PCB_174	0.0000002045	0.0000000019	0.0000030284	0.0000001497	-.0000000095
PCB_177	0.0000004870	0.0000000062	0.0000074699	0.0000003441	-.0000000239
PCB_181	0.0000000028	0.0000000000	0.0000000458	0.0000000025	-.0000000001
PCB_171_173	0.0000002488	0.0000000037	0.0000038866	0.0000001733	-.0000000125
PCB_172	0.0000000193	0.0000000002	0.0000002854	0.0000000148	-.0000000008
PCB_180_193	0.0000007962	0.0000000074	0.0000120710	0.0000006328	-.0000000306
PCB_191	0.0000000208	0.0000000003	0.0000003214	0.0000000148	-.0000000010
PCB_170	0.0000001339	0.0000000015	0.0000020367	0.0000001020	-.0000000056
PCB_190	0.0000000779	0.0000000008	0.0000012747	0.0000000806	-.0000000006
PCB_189	0.0000000037	0.0000000000	0.0000000561	0.0000000030	-.0000000001
PCB_202	0.0000000775	0.0000000006	0.0000011492	0.0000000594	-.0000000033
PCB_201	0.0000000572	0.0000000005	0.0000008574	0.0000000433	-.0000000025
PCB_197_200	0.0000000325	0.0000000003	0.0000004884	0.0000000251	-.0000000013
PCB_198_199	0.0000000911	0.0000000007	0.0000013416	0.0000000706	-.0000000038
PCB_196	0.0000000486	0.0000000004	0.0000007316	0.0000000380	-.0000000019
PCB_203	0.0000001806	0.0000000018	0.0000027448	0.0000001412	-.0000000072
PCB_195	0.0000000666	0.0000000008	0.0000010261	0.0000000504	-.0000000029
PCB_194	0.0000000156	0.0000000001	0.0000002328	0.0000000127	-.0000000006
PCB_205	0.0000000095	0.0000000001	0.0000001464	0.0000000070	-.0000000004
PCB_208	0.0000000105	0.0000000001	0.0000001515	0.0000000080	-.0000000005
PCB_207	0.0000000050	0.0000000000	0.0000000732	0.0000000038	-.0000000002
PCB_206	0.0000000228	0.0000000002	0.0000003357	0.0000000177	-.0000000009
PCB_209	0.0000000105	0.0000000001	0.0000001492	0.0000000077	-.0000000005

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_146	PCB_153_168	PCB_141	PCB_130	PCB_137
PCB_174	0.0000027459	0.0000254802	0.0000006047	0.0000006591	0.0000000854
PCB_177	0.0000063787	0.0000583330	0.0000013219	0.0000017528	0.0000001288
PCB_181	0.0000000397	0.0000003586	0.0000000069	0.0000000116	0.0000000002
PCB_171_173	0.0000032184	0.0000291205	0.0000006430	0.0000009487	0.0000000470
PCB_172	0.0000002650	0.0000024706	0.0000000583	0.0000000608	0.0000000086
PCB_180_193	0.0000111143	0.0001040544	0.0000023358	0.0000026219	0.0000002774
PCB_191	0.0000002723	0.0000024750	0.0000000553	0.0000000769	0.0000000050
PCB_170	0.0000018153	0.0000166467	0.0000003793	0.0000004661	0.0000000456
PCB_190	0.0000012386	0.0000117880	0.0000002230	0.0000002793	0.0000000114
PCB_189	0.0000000514	0.0000004734	0.0000000105	0.0000000127	0.0000000013
PCB_202	0.0000010697	0.0000100770	0.0000002346	0.0000002406	0.0000000322
PCB_201	0.0000007812	0.0000073056	0.0000001682	0.0000001856	0.0000000212
PCB_197_200	0.0000004479	0.0000041900	0.0000000959	0.0000001056	0.0000000121
PCB_198_199	0.0000012648	0.0000119289	0.0000002801	0.0000002768	0.0000000410
PCB_196	0.0000006739	0.0000062968	0.0000001438	0.0000001584	0.0000000184
PCB_203	0.0000025002	0.0000233806	0.0000005240	0.0000006013	0.0000000595
PCB_195	0.0000009028	0.0000083377	0.0000001849	0.0000002354	0.0000000180
PCB_194	0.0000002215	0.0000020929	0.0000000478	0.0000000482	0.0000000065
PCB_205	0.0000001268	0.0000011696	0.0000000257	0.0000000340	0.0000000022
PCB_208	0.0000001447	0.0000013737	0.0000000330	0.0000000302	0.0000000052
PCB_207	0.0000000689	0.0000006507	0.0000000154	0.0000000150	0.0000000023
PCB_206	0.0000003174	0.0000030006	0.0000000703	0.0000000688	0.0000000102
PCB_209	0.0000001428	0.0000013582	0.0000000335	0.0000000291	0.0000000057

Covariance Matrix

	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159
PCB_174	0.0000007260	0.0000119482	0.0000009289	0.0000008539	0.0000000019
PCB_177	0.0000017330	0.0000337046	0.0000031964	0.0000037207	0.0000000062
PCB_181	0.0000000105	0.0000002324	0.0000000237	0.0000000311	0.0000000000
PCB_171_173	0.0000008887	0.0000186994	0.0000019102	0.0000023759	0.0000000037
PCB_172	0.0000000690	0.0000010858	0.0000000777	0.0000000639	0.0000000002
PCB_180_193	0.0000028635	0.0000482472	0.0000036944	0.0000035216	0.0000000074
PCB_191	0.0000000744	0.0000014923	0.0000001459	0.0000001753	0.0000000003
PCB_170	0.0000004835	0.0000087274	0.0000007592	0.0000008221	0.0000000015
PCB_190	0.0000002964	0.0000053466	0.0000003944	0.0000004225	0.0000000008
PCB_189	0.0000000134	0.0000002361	0.0000000195	0.0000000205	0.0000000000
PCB_202	0.0000002752	0.0000043049	0.0000002970	0.0000002328	0.0000000006
PCB_201	0.0000002035	0.0000033972	0.0000002617	0.0000002443	0.0000000005

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
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Covariance Matrix

	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159
PCB_197_200	0.0000001162	0.0000019298	0.0000001468	0.0000001359	0.0000000003
PCB_198_199	0.0000003240	0.0000048777	0.0000003145	0.0000002144	0.0000000007
PCB_196	0.0000001745	0.0000028905	0.0000002187	0.0000002021	0.0000000004
PCB_203	0.0000006476	0.0000111545	0.0000008837	0.0000008757	0.0000000018
PCB_195	0.0000002392	0.0000044858	0.0000004005	0.0000004493	0.0000000008
PCB_194	0.0000000561	0.0000008574	0.0000000553	0.0000000398	0.0000000001
PCB_205	0.0000000338	0.0000006558	0.0000000607	0.0000000704	0.0000000001
PCB_208	0.0000000369	0.0000005170	0.0000000288	0.0000000119	0.0000000001
PCB_207	0.0000000176	0.0000002640	0.0000000168	0.0000000111	0.0000000000
PCB_206	0.0000000810	0.0000012101	0.0000000763	0.0000000497	0.0000000002
PCB_209	0.0000000365	0.0000004879	0.0000000247	0.0000000045	0.0000000001

Covariance Matrix

	PCB_162	PCB_167	PCB_156_57	PCB_169	PCB_188
PCB_174	0.0000000659	0.0000004936	-.0000000884	0.0000000076	0.0000000088
PCB_177	0.0000001125	0.0000007294	-.0000001819	0.0000000403	0.0000000154
PCB_181	0.0000000005	0.0000000032	-.0000000008	0.0000000003	0.0000000001
PCB_171_173	0.0000000448	0.0000002473	-.0000000820	0.0000000267	0.0000000063
PCB_172	0.0000000068	0.0000000527	-.0000000087	0.0000000004	0.0000000009
PCB_180_193	0.0000002663	0.0000020658	-.0000003810	0.0000000271	0.0000000350
PCB_191	0.0000000044	0.0000000273	-.0000000071	0.0000000019	0.0000000006
PCB_170	0.0000000371	0.0000002685	-.0000000501	0.0000000078	0.0000000050
PCB_190	0.0000000289	0.0000002488	-.0000000451	0.0000000018	0.0000000037
PCB_189	0.0000000011	0.0000000085	-.0000000014	0.0000000002	0.0000000001
PCB_202	0.0000000283	0.0000002215	-.0000000394	0.0000000015	0.0000000037
PCB_201	0.0000000189	0.0000001434	-.0000000271	0.0000000021	0.0000000025
PCB_197_200	0.0000000109	0.0000000837	-.0000000154	0.0000000011	0.0000000014
PCB_198_199	0.0000000348	0.0000002764	-.0000000467	0.0000000009	0.0000000046
PCB_196	0.0000000164	0.0000001267	-.0000000227	0.0000000016	0.0000000022
PCB_203	0.0000000581	0.0000004433	-.0000000857	0.0000000074	0.0000000076
PCB_195	0.0000000178	0.0000001262	-.0000000277	0.0000000044	0.0000000024
PCB_194	0.0000000060	0.0000000487	-.0000000081	0.0000000001	0.0000000008
PCB_205	0.0000000023	0.0000000160	-.0000000039	0.0000000007	0.0000000003
PCB_208	0.0000000043	0.0000000345	-.0000000057	-.0000000000	0.0000000006
PCB_207	0.0000000019	0.0000000152	-.0000000026	0.0000000000	0.0000000003
PCB_206	0.0000000088	0.0000000705	-.0000000120	0.0000000002	0.0000000012
PCB_209	0.0000000044	0.0000000354	-.0000000058	-.0000000001	0.0000000006

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_184	PCB_176	PCB_178	PCB_175
PCB_174	0.0000029380	-.0000000009	0.0000009013	0.0000017080	0.0000003369
PCB_177	0.0000063993	-.0000000012	0.0000020823	0.0000037024	0.0000007519
PCB_181	0.0000000363	-.0000000000	0.0000000124	0.0000000209	0.0000000043
PCB_171_173	0.0000031022	-.0000000003	0.0000010458	0.0000017892	0.0000003700
PCB_172	0.0000002867	-.0000000001	0.0000000867	0.0000001669	0.0000000327
PCB_180_193	0.0000117546	-.0000000035	0.0000036107	0.0000068347	0.0000013459
PCB_191	0.0000002682	-.0000000000	0.0000000885	0.0000001549	0.0000000317
PCB_170	0.0000018611	-.0000000004	0.0000005883	0.0000010790	0.0000002159
PCB_190	0.0000012559	-.0000000003	0.0000003876	0.0000007301	0.0000001432
PCB_189	0.0000000529	-.0000000000	0.0000000165	0.0000000307	0.0000000061
PCB_202	0.0000011658	-.0000000004	0.0000003509	0.0000006790	0.0000001325
PCB_201	0.0000008329	-.0000000003	0.0000002557	0.0000004843	0.0000000954
PCB_197_200	0.0000004773	-.0000000001	0.0000001462	0.0000002776	0.0000000546
PCB_198_199	0.0000013921	-.0000000005	0.0000004149	0.0000008114	0.0000001576
PCB_196	0.0000007170	-.0000000002	0.0000002195	0.0000004170	0.0000000820
PCB_203	0.0000026289	-.0000000008	0.0000008133	0.0000015278	0.0000003020
PCB_195	0.0000009176	-.0000000002	0.0000002931	0.0000005318	0.0000001068
PCB_194	0.0000002416	-.0000000001	0.0000000721	0.0000001408	0.0000000273
PCB_205	0.0000001274	-.0000000000	0.0000000412	0.0000000738	0.0000000149
PCB_208	0.0000001631	-.0000000001	0.0000000478	0.0000000952	0.0000000184
PCB_207	0.0000000761	-.0000000000	0.0000000227	0.0000000444	0.0000000086
PCB_206	0.0000003504	-.0000000001	0.0000001042	0.0000002043	0.0000000396
PCB_209	0.0000001636	-.0000000001	0.0000000475	0.0000000955	0.0000000183

Covariance Matrix

	PCB_187	PCB_182	PCB_183_185	PCB_174	PCB_177
PCB_174	0.0000104655	0.0000000111	0.0000043797	0.0000017108	0.0000035206
PCB_177	0.0000236675	0.0000000247	0.0000105605	0.0000035206	0.0000086567
PCB_181	0.0000001379	0.0000000001	0.0000000650	0.0000000188	0.0000000537
PCB_171_173	0.0000117366	0.0000000122	0.0000054318	0.0000016450	0.0000044977
PCB_172	0.0000010116	0.0000000011	0.0000004165	0.0000001690	0.0000003328
PCB_180_193	0.0000418907	0.0000000437	0.0000175614	0.0000068074	0.0000141095
PCB_191	0.0000010001	0.0000000010	0.0000004529	0.0000001456	0.0000003726
PCB_170	0.0000067486	0.0000000071	0.0000029239	0.0000010541	0.0000023715
PCB_190	0.0000044792	0.0000000046	0.0000018927	0.0000007161	0.0000015171
PCB_189	0.0000001901	0.0000000002	0.0000000814	0.0000000302	0.0000000657
PCB_202	0.0000041053	0.0000000043	0.0000016799	0.0000006880	0.0000013410
PCB_201	0.0000029686	0.0000000031	0.0000012427	0.0000004833	0.0000009991

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_182	PCB_183_185	PCB_174	PCB_177
PCB_197_200	0.0000016984	0.0000000018	0.0000007096	0.0000002774	0.0000005698
PCB_198_199	0.0000048709	0.0000000051	0.0000019706	0.0000008290	0.0000015668
PCB_196	0.0000025495	0.0000000027	0.0000010645	0.0000004171	0.0000008542
PCB_203	0.0000094134	0.0000000098	0.0000039772	0.0000015124	0.0000032045
PCB_195	0.0000033521	0.0000000035	0.0000014669	0.0000005130	0.0000011945
PCB_194	0.0000008458	0.0000000009	0.0000003431	0.0000001434	0.0000002727
PCB_205	0.0000004694	0.0000000005	0.0000002081	0.0000000703	0.0000001702
PCB_208	0.0000005650	0.0000000006	0.0000002238	0.0000000985	0.0000001769
PCB_207	0.0000002662	0.0000000003	0.0000001075	0.0000000454	0.0000000854
PCB_206	0.0000012242	0.0000000013	0.0000004937	0.0000002090	0.0000003922
PCB_209	0.0000005636	0.0000000006	0.0000002206	0.0000000997	0.0000001738

Covariance Matrix

	PCB_181	PCB_171_173	PCB_172	PCB_180_193	PCB_191
PCB_174	0.0000000188	0.0000016450	0.0000001690	0.0000068074	0.0000001456
PCB_177	0.0000000537	0.0000044977	0.0000003328	0.0000141095	0.0000003726
PCB_181	0.0000000004	0.0000000300	0.0000000017	0.0000000766	0.0000000024
PCB_171_173	0.0000000300	0.0000024595	0.0000001507	0.0000066199	0.0000001977
PCB_172	0.0000000017	0.0000001507	0.0000000169	0.0000006723	0.0000000136
PCB_180_193	0.0000000766	0.0000066199	0.0000006723	0.0000272511	0.0000005841
PCB_191	0.0000000024	0.0000001977	0.0000000136	0.0000005841	0.0000000162
PCB_170	0.0000000140	0.0000011748	0.0000001021	0.0000042092	0.0000001004
PCB_190	0.0000000088	0.0000007222	0.0000000707	0.0000029133	0.0000000633
PCB_189	0.0000000004	0.0000000319	0.0000000030	0.0000001208	0.0000000028
PCB_202	0.0000000067	0.0000006015	0.0000000688	0.0000027447	0.0000000545
PCB_201	0.0000000054	0.0000004677	0.0000000477	0.0000019306	0.0000000413
PCB_197_200	0.0000000030	0.0000002657	0.0000000274	0.0000011083	0.0000000235
PCB_198_199	0.0000000076	0.0000006864	0.0000000834	0.0000033021	0.0000000632
PCB_196	0.0000000046	0.0000003976	0.0000000413	0.0000016664	0.0000000353
PCB_203	0.0000000177	0.0000015253	0.0000001486	0.0000060592	0.0000001333
PCB_195	0.0000000072	0.0000006026	0.0000000493	0.0000020588	0.0000000508
PCB_194	0.0000000014	0.0000001201	0.0000000144	0.0000005727	0.0000000110
PCB_205	0.0000000010	0.0000000877	0.0000000067	0.0000002827	0.0000000073
PCB_208	0.0000000008	0.0000000741	0.0000000100	0.0000003918	0.0000000070
PCB_207	0.0000000004	0.0000000373	0.0000000046	0.0000001808	0.0000000034
PCB_206	0.0000000019	0.0000001708	0.0000000211	0.0000008328	0.0000000158
PCB_209	0.0000000007	0.0000000709	0.0000000102	0.0000003954	0.0000000068

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201
PCB_174	0.0000010541	0.0000007161	0.0000000302	0.0000006880	0.0000004833
PCB_177	0.0000023715	0.0000015171	0.0000000657	0.0000013410	0.0000009991
PCB_181	0.0000000140	0.0000000088	0.0000000004	0.0000000067	0.0000000054
PCB_171_173	0.0000011748	0.0000007222	0.0000000319	0.0000006015	0.0000004677
PCB_172	0.0000001021	0.0000000707	0.0000000030	0.0000000688	0.0000000477
PCB_180_193	0.0000042092	0.0000029133	0.0000001208	0.0000027447	0.0000019306
PCB_191	0.0000001004	0.0000000633	0.0000000028	0.0000000545	0.0000000413
PCB_170	0.0000006824	0.0000004506	0.0000000193	0.0000004118	0.0000002978
PCB_190	0.0000004506	0.0000003268	0.0000000130	0.0000002894	0.0000002048
PCB_189	0.0000000193	0.0000000130	0.0000000005	0.0000000119	0.0000000085
PCB_202	0.0000004118	0.0000002894	0.0000000119	0.0000002821	0.0000001949
PCB_201	0.0000002978	0.0000002048	0.0000000085	0.0000001949	0.0000001370
PCB_197_200	0.0000001706	0.0000001178	0.0000000049	0.0000001120	0.0000000786
PCB_198_199	0.0000004897	0.0000003470	0.0000000143	0.0000003422	0.0000002346
PCB_196	0.0000002566	0.0000001772	0.0000000074	0.0000001685	0.0000001181
PCB_203	0.0000009442	0.0000006485	0.0000000270	0.0000006064	0.0000004293
PCB_195	0.0000003362	0.0000002222	0.0000000094	0.0000001995	0.0000001457
PCB_194	0.0000000851	0.0000000607	0.0000000025	0.0000000592	0.0000000406
PCB_205	0.0000000469	0.0000000306	0.0000000013	0.0000000270	0.0000000200
PCB_208	0.0000000567	0.0000000408	0.0000000017	0.0000000412	0.0000000279
PCB_207	0.0000000267	0.0000000190	0.0000000008	0.0000000188	0.0000000128
PCB_206	0.0000001229	0.0000000875	0.0000000036	0.0000000865	0.0000000592
PCB_209	0.0000000565	0.0000000409	0.0000000017	0.0000000420	0.0000000282

Covariance Matrix

	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195
PCB_174	0.0000002774	0.0000008290	0.0000004171	0.0000015124	0.0000005130
PCB_177	0.0000005698	0.0000015668	0.0000008542	0.0000032045	0.0000011945
PCB_181	0.0000000030	0.0000000076	0.0000000046	0.0000000177	0.0000000072
PCB_171_173	0.0000002657	0.0000006864	0.0000003976	0.0000015253	0.0000006026
PCB_172	0.0000000274	0.0000000834	0.0000000413	0.0000001486	0.0000000493
PCB_180_193	0.0000011083	0.0000033021	0.0000016664	0.0000060592	0.0000020588
PCB_191	0.0000000235	0.0000000632	0.0000000353	0.0000001333	0.0000000508
PCB_170	0.0000001706	0.0000004897	0.0000002566	0.0000009442	0.0000003362
PCB_190	0.0000001178	0.0000003470	0.0000001772	0.0000006485	0.0000002222
PCB_189	0.0000000049	0.0000000143	0.0000000074	0.0000000270	0.0000000094
PCB_202	0.0000001120	0.0000003422	0.0000001685	0.0000006064	0.0000001995
PCB_201	0.0000000786	0.0000002346	0.0000001181	0.0000004293	0.0000001457

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Covariance Matrix

	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195
PCB_197_200	0.0000000451	0.0000001350	0.0000000678	0.0000002462	0.0000000833
PCB_198_199	0.0000001350	0.0000004169	0.0000002031	0.0000007270	0.0000002355
PCB_196	0.0000000678	0.0000002031	0.0000001020	0.0000003700	0.0000001250
PCB_203	0.0000002462	0.0000007270	0.0000003700	0.0000013509	0.0000004642
PCB_195	0.0000000833	0.0000002355	0.0000001250	0.0000004642	0.0000001679
PCB_194	0.0000000234	0.0000000720	0.0000000352	0.0000001261	0.0000000410
PCB_205	0.0000000114	0.0000000317	0.0000000171	0.0000000641	0.0000000237
PCB_208	0.0000000161	0.0000000505	0.0000000242	0.0000000858	0.0000000271
PCB_207	0.0000000074	0.0000000229	0.0000000111	0.0000000398	0.0000000129
PCB_206	0.0000000340	0.0000001055	0.0000000512	0.0000001833	0.0000000591
PCB_209	0.0000000162	0.0000000516	0.0000000244	0.0000000864	0.0000000268

Covariance Matrix

	PCB_194	PCB_205	PCB_208	PCB_207	PCB_206
PCB_174	0.0000001434	0.0000000703	0.0000000985	0.0000000454	0.0000002090
PCB_177	0.0000002727	0.0000001702	0.0000001769	0.0000000854	0.0000003922
PCB_181	0.0000000014	0.0000000010	0.0000000008	0.0000000004	0.0000000019
PCB_171_173	0.0000001201	0.0000000877	0.0000000741	0.0000000373	0.0000001708
PCB_172	0.0000000144	0.0000000067	0.0000000100	0.0000000046	0.0000000211
PCB_180_193	0.0000005727	0.0000002827	0.0000003918	0.0000001808	0.0000008328
PCB_191	0.0000000110	0.0000000073	0.0000000070	0.0000000034	0.0000000158
PCB_170	0.0000000851	0.0000000469	0.0000000567	0.0000000267	0.0000001229
PCB_190	0.0000000607	0.0000000306	0.0000000408	0.0000000190	0.0000000875
PCB_189	0.0000000025	0.0000000013	0.0000000017	0.0000000008	0.0000000036
PCB_202	0.0000000592	0.0000000270	0.0000000412	0.0000000188	0.0000000865
PCB_201	0.0000000406	0.0000000200	0.0000000279	0.0000000128	0.0000000592
PCB_197_200	0.0000000234	0.0000000114	0.0000000161	0.0000000074	0.0000000340
PCB_198_199	0.0000000720	0.0000000317	0.0000000505	0.0000000229	0.0000001055
PCB_196	0.0000000352	0.0000000171	0.0000000242	0.0000000111	0.0000000512
PCB_203	0.0000001261	0.0000000641	0.0000000858	0.0000000398	0.0000001833
PCB_195	0.0000000410	0.0000000237	0.0000000271	0.0000000129	0.0000000591
PCB_194	0.0000000125	0.0000000055	0.0000000087	0.0000000040	0.0000000182
PCB_205	0.0000000055	0.0000000034	0.0000000036	0.0000000017	0.0000000079
PCB_208	0.0000000087	0.0000000036	0.0000000062	0.0000000028	0.0000000128
PCB_207	0.0000000040	0.0000000017	0.0000000028	0.0000000013	0.0000000058
PCB_206	0.0000000182	0.0000000079	0.0000000128	0.0000000058	0.0000000267
PCB_209	0.0000000089	0.0000000035	0.0000000064	0.0000000028	0.0000000131

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Covariance Matrix

	PCB_209
PCB_174	0.0000000997
PCB_177	0.0000001738
PCB_181	0.0000000007
PCB_171_173	0.0000000709
PCB_172	0.0000000102
PCB_180_193	0.0000003954
PCB_191	0.0000000068
PCB_170	0.0000000565
PCB_190	0.0000000409
PCB_189	0.0000000017
PCB_202	0.0000000420
PCB_201	0.0000000282
PCB_197_200	0.0000000162
PCB_198_199	0.0000000516
PCB_196	0.0000000244
PCB_203	0.0000000864
PCB_195	0.0000000268
PCB_194	0.0000000089
PCB_205	0.0000000035
PCB_208	0.0000000064
PCB_207	0.0000000028
PCB_206	0.0000000131
PCB_209	0.0000000066

Total Variance 0.001618774

Eigenvalues of the Covariance Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	0.00135933	0.00121036	0.8397	0.8397
2	0.00014897	0.00005005	0.0920	0.9318
3	0.00009893	0.00008738	0.0611	0.9929
4	0.00001155	0.00001155	0.0071	1.0000
5	0.00000000		0.0000	1.0000

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_1	PCB 1	-.004697	-.007555
PCB_2	PCB 2	0.000000	-.000043
PCB_3	PCB 3	-.000371	-.001357
PCB_4	PCB 4	-.194531	-.381762
PCB_10	PCB 10	-.008401	-.015449
PCB_9	PCB 9	-.000047	-.001345
PCB_7	PCB 7	-.000348	-.001537
PCB_6	PCB 6	-.002887	-.010606
PCB_5	PCB 5	0.000031	-.000481
PCB_8	PCB 8	-.003315	-.031440
PCB_12_13	PCB 12/13	-.009325	-.018100
PCB_15	PCB 15	-.008209	-.027386
PCB_19	PCB 19	-.091097	-.151653
PCB_18_30	PCB 18/30	0.006473	0.034433
PCB_17	PCB 17	-.062295	-.071307
PCB_27	PCB 27	-.226244	-.018760
PCB_24	PCB 24	0.000549	0.000168
PCB_16	PCB 16	0.007450	-.004786
PCB_32	PCB 32	-.026674	-.007666
PCB_34	PCB 34	-.000744	-.000386
PCB_23	PCB 23	0.000031	0.000029
PCB_26_29	PCB 26/29	-.013872	0.118489
PCB_25	PCB 25	-.017632	0.031857
PCB_31	PCB 31	0.006170	0.020268
PCB_20_28	PCB 20/28	0.005413	-.009867
PCB_21_33	PCB 21/33	0.006437	0.002190
PCB_22	PCB 22	0.010325	0.007543
PCB_39	PCB 39	0.000110	-.000162
PCB_38	PCB 38	-.000168	0.001669
PCB_35	PCB 35	0.000428	0.000313
PCB_37	PCB 37	0.003097	-.001359
PCB_54	PCB 54	-.007795	-.000566
PCB_50_53	PCB 50/53	-.160795	0.248132
PCB_45_51	PCB 45/51	-.054831	-.010878
PCB_46	PCB 46	-.010098	0.030252
PCB_52	PCB 52	-.207268	0.336174
PCB_73	PCB 73	0.001665	-.012282
PCB_43	PCB 43	-.001183	-.000029
PCB_49_69	PCB 49/69	-.203574	0.475812
PCB_48	PCB 48	0.007958	-.008068
PCB_44_47_65	PCB 44/47/65	-.203094	0.003073
PCB_59_62_75	PCB 59/62/75	-.008241	0.141896
PCB_42	PCB 42	-.018628	0.053135
PCB_40_41_71	PCB 40/41/71	-.026673	0.002591

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_1	0.000459	-.025996	-.003330
PCB_2	-.000130	0.000029	0.000025
PCB_3	-.000392	-.001610	0.000077
PCB_4	-.075490	-.327751	0.058113
PCB_10	-.001233	-.016411	-.004148
PCB_9	0.003545	-.002449	-.000585
PCB_7	0.001124	-.001897	-.000252
PCB_6	0.021639	-.025414	-.007467
PCB_5	0.001432	-.001330	-.000446
PCB_8	0.053632	-.054121	-.018230
PCB_12_13	-.004821	-.008982	0.007622
PCB_15	0.020787	-.009164	-.009924
PCB_19	-.019117	-.138916	-.095377
PCB_18_30	0.138153	-.020367	-.033226
PCB_17	0.025101	-.067792	-.013511
PCB_27	-.015799	-.416744	-.065989
PCB_24	-.001443	0.000075	0.000246
PCB_16	0.043378	-.016102	-.009106
PCB_32	0.042026	-.065604	0.020646
PCB_34	0.001145	0.000082	-.001066
PCB_23	0.000089	0.000054	-.000002
PCB_26_29	0.070040	0.046563	-.015008
PCB_25	0.025623	-.006755	0.019622
PCB_31	0.081260	0.000504	-.002194
PCB_20_28	0.115837	0.034652	-.012780
PCB_21_33	0.016740	-.006594	-.001820
PCB_22	0.019611	-.008335	-.006060
PCB_39	-.000428	0.000301	0.000100
PCB_38	0.001449	-.000742	-.000666
PCB_35	-.000260	0.000407	-.000211
PCB_37	0.017056	0.012413	0.002815
PCB_54	0.003585	-.008627	-.003849
PCB_50_53	0.017584	-.341441	-.023569
PCB_45_51	-.030091	-.011620	0.058547
PCB_46	0.012384	-.034345	-.010053
PCB_52	0.137325	0.161229	0.048796
PCB_73	0.015655	0.000906	-.002745
PCB_43	-.003407	0.005869	0.002253
PCB_49_69	0.379495	-.028650	0.059166
PCB_48	-.017164	0.010912	0.010872
PCB_44_47_65	-.098998	0.075229	-.247897
PCB_59_62_75	0.063553	-.056959	-.027975
PCB_42	-.085107	0.040191	0.018504
PCB_40_41_71	-.037116	0.066290	0.022039

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_64	PCB 64	0.009281	0.048780
PCB_72	PCB 72	-.009403	0.040986
PCB_68	PCB 68	-.010508	0.015543
PCB_57	PCB 57	-.002175	0.022189
PCB_58	PCB 58	-.000415	0.004260
PCB_67	PCB 67	-.000294	0.016233
PCB_63	PCB 63	-.002399	0.003833
PCB_61_70_74_76	PCB 61/70/74/76	-.042901	-.110811
PCB_66	PCB 66	-.052875	-.033821
PCB_56	PCB 56	0.017930	0.001914
PCB_60	PCB 60	0.007081	-.006108
PCB_79	PCB 79	-.001177	-.003731
PCB_81	PCB 81	0.000329	-.000239
PCB_77	PCB 77	0.006464	0.004066
PCB_104	PCB 104	-.000593	-.000124
PCB_96	PCB 96	-.001254	0.004862
PCB_103	PCB 103	-.004196	0.013093
PCB_94	PCB 94	-.006025	-.001824
PCB_95	PCB 95	-.026040	0.288385
PCB_93_98_100_102	PCB 93/98/100/102	-.014041	-.007766
PCB_88_91	PCB 88/91	-.008164	0.061765
PCB_84	PCB 84	-.005733	0.011402
PCB_89	PCB 89	0.003114	-.000347
PCB_121	PCB 121	-.000299	0.000723
PCB_92	PCB 92	-.021582	0.105268
PCB_90_101_113	PCB 90/101/113	-.144161	-.144790
PCB_83	PCB 83	0.004298	0.018890
PCB_99	PCB 99	-.140872	0.047753
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	-.095555	-.172812
PCB_85_117_116	PCB 85/117/116	-.013525	-.039505
PCB_110_115	PCB 110/115	-.073546	0.090221
PCB_82	PCB 82	0.002297	-.034496
PCB_111	PCB 111	-.000620	0.003303
PCB_120	PCB 120	-.001172	0.009891
PCB_107_124	PCB 107/124	-.002860	-.007106
PCB_109	PCB 109	-.014747	0.006590
PCB_123	PCB 123	0.001414	0.001779
PCB_118	PCB 118	-.248585	-.244698
PCB_122	PCB 122	0.000449	-.002689
PCB_114	PCB 114	-.002484	-.011113
PCB_105	PCB 105	-.047876	-.160823
PCB_127	PCB 127	0.000108	-.000173
PCB_155	PCB 155	-.000019	0.000032
PCB_152	PCB 152	-.000116	-.000372

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_64	0.053430	0.008252	-.003162
PCB_72	0.025077	0.001815	-.003522
PCB_68	0.014226	0.001150	-.005199
PCB_57	0.013271	-.002702	-.007279
PCB_58	0.001055	0.001470	-.000278
PCB_67	0.009714	0.008029	-.002074
PCB_63	0.006739	0.004640	-.003120
PCB_61_70_74_76	0.068281	0.103383	-.014865
PCB_66	0.077649	0.083523	0.027851
PCB_56	-.022111	0.008648	-.019727
PCB_60	-.001281	0.011945	-.002129
PCB_79	-.008346	0.000173	0.001641
PCB_81	-.000599	0.000260	-.000051
PCB_77	-.004923	0.011977	0.004880
PCB_104	0.000326	0.000195	0.000057
PCB_96	-.000193	0.000081	0.000577
PCB_103	0.007143	0.003833	-.001742
PCB_94	0.001018	0.001248	-.000807
PCB_95	-.623327	-.058134	0.075661
PCB_93_98_100_102	-.017385	0.017058	-.009483
PCB_88_91	-.015630	0.049162	-.000147
PCB_84	-.063164	0.040883	0.008472
PCB_89	-.009060	0.001702	0.003048
PCB_121	0.000659	0.000239	-.000549
PCB_92	0.019835	0.116088	0.002272
PCB_90_101_113	-.044041	0.237317	0.123211
PCB_83	0.009145	0.008114	-.002809
PCB_99	0.071336	0.134708	0.009188
PCB_86_87_97_108_119_125	-.152891	0.175694	0.039674
PCB_85_117_116	0.001828	0.033919	0.002602
PCB_110_115	-.263762	0.216462	0.099655
PCB_82	-.026710	0.001651	0.008223
PCB_111	0.001690	0.000456	-.000448
PCB_120	0.005462	0.001250	-.002267
PCB_107_124	-.006642	0.013890	0.003020
PCB_109	0.022583	0.005304	0.011795
PCB_123	-.006614	0.008461	0.001613
PCB_118	-.024616	-.158257	0.019323
PCB_122	-.003654	0.002719	0.000735
PCB_114	0.003079	0.006353	0.000967
PCB_105	0.031552	-.023886	0.030935
PCB_127	-.000572	0.000847	0.000299
PCB_155	-.000106	-.000079	0.000015
PCB_152	0.000094	0.000508	0.000161

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_150	PCB 150	-.000016	0.000373
PCB_136	PCB 136	0.028110	0.001859
PCB_145	PCB 145	0.000016	-.000081
PCB_148	PCB 148	0.000066	0.000173
PCB_135_151	PCB 135/151	0.171823	0.016031
PCB_154	PCB 154	0.000524	0.004779
PCB_144	PCB 144	0.020306	-.013663
PCB_147_149	PCB 147/149	0.277048	0.032497
PCB_134_143	PCB 134/143	0.009425	-.001523
PCB_139_140	PCB 139/140	0.001644	-.001389
PCB_131	PCB 131	0.004165	-.006850
PCB_142	PCB 142	0.000050	-.000113
PCB_132	PCB 132	0.066520	-.055839
PCB_133	PCB 133	0.003662	0.007146
PCB_165	PCB 165	-.000114	0.001854
PCB_146	PCB 146	0.060494	0.007584
PCB_153_168	PCB 153/168	0.562560	0.199298
PCB_141	PCB 141	0.011445	-.018474
PCB_130	PCB 130	0.015342	-.014801
PCB_137	PCB 137	0.000776	-.008484
PCB_164	PCB 164	0.015432	-.013686
PCB_129_138_163	PCB 129/138/163	0.296575	-.227582
PCB_158	PCB 158	0.025862	-.049807
PCB_128_166	PCB 128/166	0.030057	-.047831
PCB_159	PCB 159	0.000050	-.000114
PCB_162	PCB 162	0.001182	0.001195
PCB_167	PCB 167	0.009123	0.029228
PCB_156_57	PCB 156/57	-.001862	-.001603
PCB_169	PCB 169	0.000253	-.001671
PCB_188	PCB 188	0.000155	0.000068
PCB_179	PCB 179	0.060164	-.010554
PCB_184	PCB 184	-.000012	0.000007
PCB_176	PCB 176	0.019218	-.006871
PCB_178	PCB 178	0.034866	-.005575
PCB_175	PCB 175	0.006981	-.002322
PCB_187	PCB 187	0.219464	-.071746
PCB_182	PCB 182	0.000226	-.000127
PCB_183_185	PCB 183/185	0.096231	-.046475
PCB_174	PCB 174	0.033445	-.004319
PCB_177	PCB 177	0.078180	-.046754
PCB_181	PCB 181	0.000483	-.000183
PCB_171_173	PCB 171/173	0.039545	-.033606
PCB_172	PCB 172	0.003218	0.000208
PCB_180_193	PCB 180/193	0.135285	0.005211

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The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_150	0.000364	0.000419	-.000026
PCB_136	0.019014	0.021043	-.003382
PCB_145	0.000081	-.000037	-.000001
PCB_148	-.000107	-.000068	-.000004
PCB_135_151	-.072085	0.113760	0.153535
PCB_154	0.004220	-.000421	-.001538
PCB_144	-.004449	0.016192	0.044066
PCB_147_149	-.080415	0.260517	-.310437
PCB_134_143	0.013709	-.005468	-.004176
PCB_139_140	0.009050	0.002515	-.003095
PCB_131	-.002276	0.004411	0.000918
PCB_142	0.000107	-.000055	-.000034
PCB_132	0.007812	0.005839	0.119386
PCB_133	0.003060	0.002911	0.000447
PCB_165	0.000722	-.000146	-.000241
PCB_146	0.001382	0.025357	-.015716
PCB_153_168	-.035010	-.457224	0.045887
PCB_141	-.015764	0.022173	0.010419
PCB_130	0.012555	0.021152	-.007160
PCB_137	-.008894	0.027570	0.006087
PCB_164	-.002013	0.027881	0.017362
PCB_129_138_163	0.400728	0.074683	0.099934
PCB_158	0.067170	0.024143	0.000046
PCB_128_166	0.128874	0.013517	-.023325
PCB_159	0.000108	-.000055	-.000043
PCB_162	-.003165	-.001844	-.000829
PCB_167	-.024122	-.018447	0.002805
PCB_156_57	0.002802	0.028269	0.004422
PCB_169	0.001179	-.000055	-.000186
PCB_188	-.000422	-.000060	0.000099
PCB_179	-.045547	0.010673	-.006161
PCB_184	0.000089	0.000056	-.000012
PCB_176	-.005322	0.002454	-.019587
PCB_178	-.027879	0.004271	-.037327
PCB_175	-.004156	0.001541	-.001483
PCB_187	-.103690	0.007978	-.040093
PCB_182	-.000144	0.000348	-.000131
PCB_183_185	0.006632	0.012090	0.102063
PCB_174	-.042888	0.021880	0.021950
PCB_177	0.015139	0.002040	-.121374
PCB_181	0.000789	0.000426	0.000146
PCB_171_173	0.040889	-.003714	0.023101
PCB_172	-.005220	0.002761	0.000740
PCB_180_193	-.154628	0.016824	-.001123

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The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_191	PCB 191	0.003336	-.002199
PCB_170	PCB 170	0.022089	-.005455
PCB_190	PCB 190	0.014985	0.008666
PCB_189	PCB 189	0.000623	-.000012
PCB_202	PCB 202	0.013027	0.001337
PCB_201	PCB 201	0.009527	-.000602
PCB_197_200	PCB 197/200	0.005456	-.000035
PCB_198_199	PCB 198/199	0.015374	0.003018
PCB_196	PCB 196	0.008199	0.000239
PCB_203	PCB 203	0.030481	-.001414
PCB_195	PCB 195	0.011033	-.003623
PCB_194	PCB 194	0.002689	0.000783
PCB_205	PCB 205	0.001554	-.000705
PCB_208	PCB 208	0.001759	0.000499
PCB_207	PCB 207	0.000838	0.000147
PCB_206	PCB 206	0.003859	0.000852
PCB_209	PCB 209	0.001737	0.000492

Eigenvectors

	Prin3	Prin4	Prin5
PCB_191	0.001821	0.000828	0.000666
PCB_170	-.009620	0.021950	0.028715
PCB_190	-.009955	-.007029	0.003272
PCB_189	-.000403	0.000735	-.000511
PCB_202	-.022750	0.000549	0.011587
PCB_201	-.011709	0.000414	0.013290
PCB_197_200	-.006854	0.000921	0.009774
PCB_198_199	-.030827	0.004611	0.006779
PCB_196	-.010324	0.002975	0.013563
PCB_203	-.029764	-.002004	0.018421
PCB_195	-.002139	-.000145	0.007713
PCB_194	-.005065	0.000777	-.001716
PCB_205	0.000152	-.000562	-.001277
PCB_208	-.004431	0.000341	-.015125
PCB_207	-.001737	0.000076	0.032616
PCB_206	-.008002	0.000620	0.829855
PCB_209	-.004942	0.000303	-.003242

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
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Location	Prin1	Prin2	Prin3	PCB_1	PCB_2	PCB_3	PCB_4	PCB_10
2-AC-3	-0.044329	-0.010502	-0.010010	.000591156	.000004354	.000064558	0.025374	.001074830
5-AC-3	-0.014674	0.011711	0.003995	.000163739	.000001731	.000010057	0.008470	.000385269
4-AC-3	-0.011651	0.011520	0.004125	.000400781	.000001441	.000024609	0.011094	.000520313
3-AC-3	0.017646	-0.014571	0.012363	.000335656	.000001625	.000037951	0.013115	.000586066
1-AC-3	0.053008	0.001842	-0.010474	.000034207	.000003897	.000011448	0.001683	.000063034

Location	PCB_9	PCB_7	PCB_6	PCB_5	PCB_8	PCB_12_13	PCB_15	PCB_19
2-AC-3	.000053061	.000076190	.000714286	.000007823	.001122449	.001183673	.001401361	0.011633
5-AC-3	.000059490	.000038244	.000572238	.000011615	.000813031	.000393768	.000796034	0.004618
4-AC-3	.000083594	.000055859	.000812500	.000024766	.001335938	.000454688	.000867188	0.005703
3-AC-3	.000134426	.000085656	.001057377	.000043443	.002233607	.000569672	.001467213	0.006148
1-AC-3	.000029655	.000022414	.000286207	.000003897	.000373793	.000052621	.000252414	0.000869

Location	PCB_18_30	PCB_17	PCB_27	PCB_24	PCB_16	PCB_32	PCB_34	PCB_23
2-AC-3	.003496599	.009047619	0.023401	.000000531	.001047619	.004346939	.000081633	.000000531
5-AC-3	.006288952	.005637394	0.014023	.000000724	.001691218	.003654391	.000067422	.000003598
4-AC-3	.006515625	.006117188	0.017344	.000001441	.001875000	.004210938	.000064609	.000003180
3-AC-3	.006844262	.006024590	0.009016	.000001625	.002495902	.003651639	.000062705	.000004344
1-AC-3	.004482759	.002075862	0.001055	.000056759	.001689655	.001620690	.000003897	.000003897

Location	PCB_26_29	PCB_25	PCB_31	PCB_20_28	PCB_21_33	PCB_22	PCB_39	PCB_38
2-AC-3	.002605442	.002605442	.001455782	.004074830	.000204082	.000609524	.000044218	.000000531
5-AC-3	.006033994	.003116147	.003229462	.005807365	.000645892	.001317280	.000039377	.000049292
4-AC-3	.005531250	.003125000	.003250000	.005507813	.000730469	.001429688	.000036797	.000055781
3-AC-3	.002840164	.001954918	.003573770	.007049180	.000967213	.001655738	.000042213	.000015574
1-AC-3	.002696552	.001268966	.002268966	.004434483	.000848276	.001696552	.000053241	.000003897

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Location	PCB_35	PCB_37	PCB_54	PCB_50_ 53	PCB_45_ 51	PCB_46	PCB_52	PCB_73
2-AC-3	.000023946	.000582313	.000816327	0.020816	0.010136	.001802721	0.046395	.000000531
5-AC-3	.000041926	.000943343	.000580737	0.020142	0.007790	.002181303	0.050425	.000000724
4-AC-3	.000039219	.000835938	.000640625	0.022891	0.007734	.002476563	0.048203	.000001441
3-AC-3	.000043443	.001163934	.000413934	0.010164	0.006107	.001323770	0.035287	.000504098
1-AC-3	.000069655	.000862069	.000046828	0.008138	0.004676	.001179310	0.030345	.000003897

Location	PCB_43	PCB_49_ 69	PCB_48	PCB_44_ 47_65	PCB_59_ 62_75	PCB_42	PCB_40_ 41_71	PCB_64
2-AC-3	.000544898	0.025986	.001204082	0.049184	.001210884	.009659864	0.011497	.004000000
5-AC-3	.000490085	0.035694	.001073654	0.042210	.004730878	.009291785	0.010567	.006147309
4-AC-3	.000429688	0.035313	.000992188	0.040859	.005234375	.008828125	0.009844	.006093750
3-AC-3	.000396721	0.019918	.001348361	0.034385	.001532787	.006393443	0.009016	.005573770
1-AC-3	.000432414	0.011862	.001889655	0.029517	.002117241	.008551724	0.008966	.005482759

Location	PCB_72	PCB_68	PCB_57	PCB_58	PCB_67	PCB_63	PCB_61_ 70_74_76	PCB_66
2-AC-3	.000761905	.001047619	.000115646	.000120408	.000365306	.000602721	0.022585	0.015442
5-AC-3	.001753541	.001286119	.000716714	.000224646	.000892351	.000733711	0.020312	0.014618
4-AC-3	.001703125	.001242188	.000733594	.000208594	.000812500	.000682031	0.019219	0.013672
3-AC-3	.000573770	.000651639	.000186885	.000101230	.000500000	.000590164	0.021926	0.014057
1-AC-3	.000341379	.000210345	.000171034	.000132414	.000534483	.000414483	0.017034	0.009862

Location	PCB_56	PCB_60	PCB_79	PCB_81	PCB_77	PCB_104	PCB_96	PCB_103
2-AC-3	.002639456	.000755102	.000687075	.000030476	.000280952	.000063265	.000461224	.000734694
5-AC-3	.002946176	.000869688	.000453258	.000027790	.000552408	.000048442	.000529745	.001019830
4-AC-3	.002914063	.000777344	.000447656	.000026250	.000455469	.000044844	.000524219	.000968750
3-AC-3	.003250000	.001192623	.000442623	.000038484	.000557377	.000034344	.000359426	.000581967
1-AC-3	.004420690	.001372414	.000530345	.000059862	.000965517	.000003897	.000399310	.000485517

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Location	PCB_94	PCB_95	PCB_93_98_ 100_102	PCB_88_ 91	PCB_84	PCB_89	PCB_121	PCB_92
2-AC-3	.000986395	0.064286	.004346939	0.009048	0.012585	.000301361	.000024354	0.013265
5-AC-3	.000787535	0.060907	.003597734	0.010198	0.011983	.000267422	.000041926	0.015807
4-AC-3	.000757813	0.061250	.003390625	0.009688	0.011563	.000259375	.000038672	0.014609
3-AC-3	.000643443	0.047541	.003122951	0.007951	0.010779	.000293443	.000017664	0.011967
1-AC-3	.000377241	0.065586	.002896552	0.009034	0.012207	.000604828	.000003897	0.012483

Location	PCB_90_ 101_113	PCB_83	PCB_99	PCB_86_87_ 97_108_ 119_125	PCB_85_ 117_116	PCB_110_ 115	PCB_82	PCB_111
2-AC-3	0.068707	.002571429	0.038571	0.044218	.009727891	0.069388	.004265306	.000050000
5-AC-3	0.061756	.003286119	0.037110	0.036261	.008640227	0.066572	.003201133	.000130878
4-AC-3	0.059063	.003218750	0.035391	0.034297	.008281250	0.064219	.003195313	.000124219
3-AC-3	0.059426	.002967213	0.031270	0.035615	.009098361	0.058607	.003950820	.000036066
1-AC-3	0.052966	.003220690	0.025448	0.032897	.007931034	0.063517	.004075862	.000029793

Location	PCB_120	PCB_107_ 124	PCB_109	PCB_123	PCB_118	PCB_122	PCB_114	PCB_105
2-AC-3	.000168707	.001925170	.003659864	.000938776	0.074830	.000480952	.000931973	0.016735
5-AC-3	.000436261	.001657224	.003711048	.000968839	0.060907	.000396601	.000685552	0.012068
4-AC-3	.000419531	.001515625	.003617188	.000890625	0.061719	.000371875	.000619531	0.012188
3-AC-3	.000178279	.001631148	.003225410	.000872951	0.059836	.000438525	.000893443	0.015123
1-AC-3	.000174483	.001565517	.002296552	.001103448	0.047586	.000493793	.000553103	0.010069

Location	PCB_127	PCB_155	PCB_152	PCB_150	PCB_136	PCB_145	PCB_148	PCB_135_ 151
2-AC-3	.000045034	.000005340	.000082993	.000068027	.004761905	.000022449	.000072789	0.011293
5-AC-3	.000040510	.000003598	.000075071	.000083003	.006005666	.000022068	.000076771	0.016289
4-AC-3	.000032656	.000004281	.000069922	.000078906	.005890625	.000022500	.000077578	0.015703
3-AC-3	.000039795	.000001625	.000079508	.000073770	.006926230	.000025574	.000073770	0.020287
1-AC-3	.000053862	.000003897	.000067172	.000071034	.007517241	.000022966	.000081379	0.028276

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Location	PCB_154	PCB_144	PCB_147_149	PCB_134_143	PCB_139_140	PCB_131	PCB_142	PCB_132
2-AC-3	.000523810	.001503401	0.031429	.002591837	.001095238	.000911565	.000000531	0.014286
5-AC-3	.000702550	.001818697	0.040510	.003002833	.001252125	.000872521	.000000724	0.015156
4-AC-3	.000707813	.001726563	0.038828	.003085938	.001234375	.000843750	.000001441	0.015313
3-AC-3	.000631148	.002721311	0.046721	.003487705	.001405738	.001147541	.000006434	0.018811
1-AC-3	.000631724	.003317241	0.058897	.003482759	.001234483	.001234483	.000003897	0.020069

Location	PCB_133	PCB_165	PCB_146	PCB_153_168	PCB_141	PCB_130	PCB_137	PCB_164
2-AC-3	.000638776	.000015102	0.006082	0.06150	.001149660	.002965986	.001659864	.001707483
5-AC-3	.000963173	.000062323	0.008187	0.07989	.000966006	.003371105	.001504249	.001968839
4-AC-3	.000945313	.000063125	0.008125	0.08594	.000789063	.003218750	.001242188	.001750000
3-AC-3	.000905738	.000016639	0.009836	0.09467	.001586066	.004262295	.001549180	.002680328
1-AC-3	.001082759	.000026552	0.012069	0.11862	.002048276	.004275862	.001641379	.003048276

Location	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159	PCB_162	PCB_167	PCB_156_57	PCB_169
2-AC-3	0.052041	.005088435	0.006204	.000000531	.000084354	.003530612	.003823129	.000017959
5-AC-3	0.061756	.005807365	0.007904	.000000724	.000092635	.004022663	.003909348	.000004589
4-AC-3	0.062031	.005671875	0.007891	.000001441	.000113281	.004218750	.003632813	.000006352
3-AC-3	0.080328	.008401639	0.011148	.000006475	.000081557	.003433607	.003782787	.000066803
1-AC-3	0.077931	.006965517	0.008483	.000003897	.000215172	.004786207	.003627586	.000021379

Location	PCB_188	PCB_179	PCB_184	PCB_176	PCB_178	PCB_175	PCB_187	PCB_182
2-AC-3	.000007007	.000843537	.000004980	.000342177	.000468027	.000105442	0.002646	.000011293
5-AC-3	.000006912	.001807365	.000006317	.000696884	.001008499	.000210198	0.006147	.000014844
4-AC-3	.000007891	.001882813	.000005758	.000732031	.001070313	.000216406	0.006734	.000012188
3-AC-3	.000006885	.003598361	.000006230	.001442623	.002028689	.000454918	0.014221	.000022664
1-AC-3	.000023103	.006593103	.000003897	.002131034	.003806897	.000758621	0.023172	.000031862

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Location	PCB_183_ 185	PCB_174	PCB_177	PCB_181	PCB_171_ 173	PCB_172	PCB_180_ 193	PCB_191
2-AC-3	0.001483	.000524490	.001387755	.000072109	.001047619	.000070068	0.002347	.000076190
5-AC-3	0.003456	.000926346	.002889518	.000095467	.002028329	.000110482	0.004391	.000155807
4-AC-3	0.003641	.000812500	.003117188	.000092969	.002195313	.000092969	0.004617	.000158594
3-AC-3	0.007787	.001659836	.006762295	.000120492	.004549180	.000152459	0.007254	.000332787
1-AC-3	0.010276	.003751724	.008413793	.000116552	.004462069	.000388966	0.015655	.000373103

Location	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201	PCB_197_ 200	PCB_198_ 199	PCB_196
2-AC-3	.000700680	.000465986	.000030884	.000097959	.000060816	.000037007	.000112925	.000055578
5-AC-3	.001206799	.000929178	.000047025	.000198017	.000167989	.000106516	.000226629	.000173938
4-AC-3	.001062500	.001039063	.000041797	.000228906	.000191406	.000113281	.000224219	.000168750
3-AC-3	.001881148	.001135246	.000060656	.000390984	.000391803	.000222131	.000364754	.000332377
1-AC-3	.002793103	.002034483	.000091724	.001393103	.000986207	.000571034	.001662069	.000862069

Location	PCB_203	PCB_195	PCB_194	PCB_205	PCB_208	PCB_207	PCB_206	PCB_209
2-AC-3	.000251020	.000087075	.000024694	.000013537	.000016327	.000008912	.000038299	.000017687
5-AC-3	.000696884	.000303116	.000054674	.000043343	.000019178	.000013059	.000062606	.000012380
4-AC-3	.000804688	.000338281	.000054531	.000053594	.000020547	.000014609	.000067109	.000013984
3-AC-3	.001479508	.000737705	.000075000	.000115984	.000024262	.000021393	.000095082	.000012828
1-AC-3	.003213793	.001117241	.000298621	.000155862	.000195862	.000093103	.000428276	.000195172

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Cornell-Dubilier Site, WA #0-360

Obs	Location	PCB_1	PCB_2	PCB_3	PCB_4	PCB_10	PCB_9	PCB_7
1	1-AC-3	.000034207	.000003897	.000011448	0.001683	.000063034	.000029655	.000022414
2	2-AC-3	.000591156	.000004354	.000064558	0.025374	.001074830	.000053061	.000076190
3	3-AC-3	.000335656	.000001625	.000037951	0.013115	.000586066	.000134426	.000085656
4	4-AC-3	.000400781	.000001441	.000024609	0.011094	.000520313	.000083594	.000055859
5	5-AC-3	.000163739	.000001731	.000010057	0.008470	.000385269	.000059490	.000038244

Obs	PCB_6	PCB_5	PCB_8	PCB_12_13	PCB_15	PCB_19	PCB_18_30	PCB_17
1	.000286207	.000003897	.000373793	.000052621	.000252414	0.000869	.004482759	.002075862
2	.000714286	.000007823	.001122449	.001183673	.001401361	0.011633	.003496599	.009047619
3	.001057377	.000043443	.002233607	.000569672	.001467213	0.006148	.006844262	.006024590
4	.000812500	.000024766	.001335938	.000454688	.000867188	0.005703	.006515625	.006117188
5	.000572238	.000011615	.000813031	.000393768	.000796034	0.004618	.006288952	.005637394

Obs	PCB_27	PCB_24	PCB_16	PCB_32	PCB_34	PCB_23	PCB_26_29	PCB_25
1	0.001055	.000056759	.001689655	.001620690	.000003897	.000003897	.002696552	.001268966
2	0.023401	.000000531	.001047619	.004346939	.000081633	.000000531	.002605442	.002605442
3	0.009016	.000001625	.002495902	.003651639	.000062705	.000004344	.002840164	.001954918
4	0.017344	.000001441	.001875000	.004210938	.000064609	.000003180	.005531250	.003125000
5	0.014023	.000000724	.001691218	.003654391	.000067422	.000003598	.006033994	.003116147

Obs	PCB_31	PCB_20_28	PCB_21_33	PCB_22	PCB_39	PCB_38	PCB_35	PCB_37
1	.002268966	.004434483	.000848276	.001696552	.000053241	.000003897	.000069655	.000862069
2	.001455782	.004074830	.000204082	.000609524	.000044218	.000000531	.000023946	.000582313
3	.003573770	.007049180	.000967213	.001655738	.000042213	.000015574	.000043443	.001163934
4	.003250000	.005507813	.000730469	.001429688	.000036797	.000055781	.000039219	.000835938
5	.003229462	.005807365	.000645892	.001317280	.000039377	.000049292	.000041926	.000943343

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Obs	PCB_54	PCB_50_ 53	PCB_45_ 51	PCB_46	PCB_52	PCB_73	PCB_43	PCB_49_ 69	PCB_48
1	.000046828	0.008138	0.004676	.001179310	0.030345	.000003897	.000432414	0.011862	.001889655
2	.000816327	0.020816	0.010136	.001802721	0.046395	.000000531	.000544898	0.025986	.001204082
3	.000413934	0.010164	0.006107	.001323770	0.035287	.000504098	.000396721	0.019918	.001348361
4	.000640625	0.022891	0.007734	.002476563	0.048203	.000001441	.000429688	0.035313	.000992188
5	.000580737	0.020142	0.007790	.002181303	0.050425	.000000724	.000490085	0.035694	.001073654

Obs	PCB_44_ 47_65	PCB_59_ 62_75	PCB_42	PCB_40_ 41_71	PCB_64	PCB_72	PCB_68	PCB_57
1	0.029517	.002117241	.008551724	0.008966	.005482759	.000341379	.000210345	.000171034
2	0.049184	.001210884	.009659864	0.011497	.004000000	.000761905	.001047619	.000115646
3	0.034385	.001532787	.006393443	0.009016	.005573770	.000573770	.000651639	.000186885
4	0.040859	.005234375	.008828125	0.009844	.006093750	.001703125	.001242188	.000733594
5	0.042210	.004730878	.009291785	0.010567	.006147309	.001753541	.001286119	.000716714

Obs	PCB_58	PCB_67	PCB_63	PCB_61_ 70_74_76	PCB_66	PCB_56	PCB_60	PCB_79
1	.000132414	.000534483	.000414483	0.017034	0.009862	.004420690	.001372414	.000530345
2	.000120408	.000365306	.000602721	0.022585	0.015442	.002639456	.000755102	.000687075
3	.000101230	.000500000	.000590164	0.021926	0.014057	.003250000	.001192623	.000442623
4	.000208594	.000812500	.000682031	0.019219	0.013672	.002914063	.000777344	.000447656
5	.000224646	.000892351	.000733711	0.020312	0.014618	.002946176	.000869688	.000453258

Obs	PCB_81	PCB_77	PCB_104	PCB_96	PCB_103	PCB_94	PCB_95	PCB_93_98_ 100_102
1	.000059862	.000965517	.000003897	.000399310	.000485517	.000377241	0.065586	.002896552
2	.000030476	.000280952	.000063265	.000461224	.000734694	.000986395	0.064286	.004346939
3	.000038484	.000557377	.000034344	.000359426	.000581967	.000643443	0.047541	.003122951
4	.000026250	.000455469	.000044844	.000524219	.000968750	.000757813	0.061250	.003390625
5	.000027790	.000552408	.000048442	.000529745	.001019830	.000787535	0.060907	.003597734

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

Obs	PCB_88_91	PCB_84	PCB_89	PCB_121	PCB_92	PCB_90_101_113	PCB_83	PCB_99	PCB_86_87_97_108_119_125
1	0.009034	0.012207	.000604828	.000003897	0.012483	0.052966	.003220690	0.025448	0.032897
2	0.009048	0.012585	.000301361	.000024354	0.013265	0.068707	.002571429	0.038571	0.044218
3	0.007951	0.010779	.000293443	.000017664	0.011967	0.059426	.002967213	0.031270	0.035615
4	0.009688	0.011563	.000259375	.000038672	0.014609	0.059063	.003218750	0.035391	0.034297
5	0.010198	0.011983	.000267422	.000041926	0.015807	0.061756	.003286119	0.037110	0.036261

Obs	PCB_85_117_116	PCB_110_115	PCB_82	PCB_111	PCB_120	PCB_107_124	PCB_109	PCB_123
1	.007931034	0.063517	.004075862	.000029793	.000174483	.001565517	.002296552	.001103448
2	.009727891	0.069388	.004265306	.000050000	.000168707	.001925170	.003659864	.000938776
3	.009098361	0.058607	.003950820	.000036066	.000178279	.001631148	.003225410	.000872951
4	.008281250	0.064219	.003195313	.000124219	.000419531	.001515625	.003617188	.000890625
5	.008640227	0.066572	.003201133	.000130878	.000436261	.001657224	.003711048	.000968839

Obs	PCB_118	PCB_122	PCB_114	PCB_105	PCB_127	PCB_155	PCB_152	PCB_150
1	0.047586	.000493793	.000553103	0.010069	.000053862	.000003897	.000067172	.000071034
2	0.074830	.000480952	.000931973	0.016735	.000045034	.000005340	.000082993	.000068027
3	0.059836	.000438525	.000893443	0.015123	.000039795	.000001625	.000079508	.000073770
4	0.061719	.000371875	.000619531	0.012188	.000032656	.000004281	.000069922	.000078906
5	0.060907	.000396601	.000685552	0.012068	.000040510	.000003598	.000075071	.000083003

Obs	PCB_136	PCB_145	PCB_148	PCB_135_151	PCB_154	PCB_144	PCB_147_149	PCB_134_143
1	.007517241	.000022966	.000081379	0.028276	.000631724	.003317241	0.058897	.003482759
2	.004761905	.000022449	.000072789	0.011293	.000523810	.001503401	0.031429	.002591837
3	.006926230	.000025574	.000073770	0.020287	.000631148	.002721311	0.046721	.003487705
4	.005890625	.000022500	.000077578	0.015703	.000707813	.001726563	0.038828	.003085938
5	.006005666	.000022068	.000076771	0.016289	.000702550	.001818697	0.040510	.003002833

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
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Obs	PCB_139_140	PCB_131	PCB_142	PCB_132	PCB_133	PCB_165	PCB_146	PCB_153_168	PCB_141
1	.001234483	.001234483	.000003897	0.020069	.001082759	.000026552	0.012069	0.11862	.002048276
2	.001095238	.000911565	.000000531	0.014286	.000638776	.000015102	0.006082	0.06150	.001149660
3	.001405738	.001147541	.000006434	0.018811	.000905738	.000016639	0.009836	0.09467	.001586066
4	.001234375	.000843750	.000001441	0.015313	.000945313	.000063125	0.008125	0.08594	.000789063
5	.001252125	.000872521	.000000724	0.015156	.000963173	.000062323	0.008187	0.07989	.000966006

Obs	PCB_130	PCB_137	PCB_164	PCB_129_138_163	PCB_158	PCB_128_166	PCB_159	PCB_162
1	.004275862	.001641379	.003048276	0.077931	.006965517	0.008483	.000003897	.000215172
2	.002965986	.001659864	.001707483	0.052041	.005088435	0.006204	.000000531	.000084354
3	.004262295	.001549180	.002680328	0.080328	.008401639	0.011148	.000006475	.000081557
4	.003218750	.001242188	.001750000	0.062031	.005671875	0.007891	.000001441	.000113281
5	.003371105	.001504249	.001968839	0.061756	.005807365	0.007904	.000000724	.000092635

Obs	PCB_167	PCB_156_57	PCB_169	PCB_188	PCB_179	PCB_184	PCB_176	PCB_178
1	.004786207	.003627586	.000021379	.000023103	.006593103	.000003897	.002131034	.003806897
2	.003530612	.003823129	.000017959	.000007007	.000843537	.000004980	.000342177	.000468027
3	.003433607	.003782787	.000066803	.000006885	.003598361	.000006230	.001442623	.002028689
4	.004218750	.003632813	.000006352	.000007891	.001882813	.000005758	.000732031	.001070313
5	.004022663	.003909348	.000004589	.000006912	.001807365	.000006317	.000696884	.001008499

Obs	PCB_175	PCB_187	PCB_182	PCB_183_185	PCB_174	PCB_177	PCB_181	PCB_171_173
1	.000758621	0.023172	.000031862	0.010276	.003751724	.008413793	.000116552	.004462069
2	.000105442	0.002646	.000011293	0.001483	.000524490	.001387755	.000072109	.001047619
3	.000454918	0.014221	.000022664	0.007787	.001659836	.006762295	.000120492	.004549180
4	.000216406	0.006734	.000012188	0.003641	.000812500	.003117188	.000092969	.002195313
5	.000210198	0.006147	.000014844	0.003456	.000926346	.002889518	.000095467	.002028329

Asiatic Clams: PCB Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
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Obs	PCB_172	PCB_180_193	PCB_191	PCB_170	PCB_190	PCB_189	PCB_202	PCB_201
1	.000388966	0.015655	.000373103	.002793103	.002034483	.000091724	.001393103	.000986207
2	.000070068	0.002347	.000076190	.000700680	.000465986	.000030884	.000097959	.000060816
3	.000152459	0.007254	.000332787	.001881148	.001135246	.000060656	.000390984	.000391803
4	.000092969	0.004617	.000158594	.001062500	.001039063	.000041797	.000228906	.000191406
5	.000110482	0.004391	.000155807	.001206799	.000929178	.000047025	.000198017	.000167989

Obs	PCB_197_200	PCB_198_199	PCB_196	PCB_203	PCB_195	PCB_194	PCB_205	PCB_208
1	.000571034	.001662069	.000862069	.003213793	.001117241	.000298621	.000155862	.000195862
2	.000037007	.000112925	.000055578	.000251020	.000087075	.000024694	.000013537	.000016327
3	.000222131	.000364754	.000332377	.001479508	.000737705	.000075000	.000115984	.000024262
4	.000113281	.000224219	.000168750	.000804688	.000338281	.000054531	.000053594	.000020547
5	.000106516	.000226629	.000173938	.000696884	.000303116	.000054674	.000043343	.000019178

Obs	PCB_207	PCB_206	PCB_209
1	.000093103	.000428276	.000195172
2	.000008912	.000038299	.000017687
3	.000021393	.000095082	.000012828
4	.000014609	.000067109	.000013984
5	.000013059	.000062606	.000012380

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Observations	8
Variables	163

Simple Statistics

	PCB_1	PCB_2	PCB_3	PCB_4	PCB_5	PCB_6
Mean	0.0001437275	2.768657E-6	0.0000158744	0.0022113032	8.0547826E-6	0.0002749039
StD	0.0000759450	2.0510121E-6	0.0000073836	0.0011706496	3.2645285E-6	0.0000993575

Simple Statistics

	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11	PCB_14
Mean	0.0000465514	0.0008604313	0.0000671550	0.0001940173	0.0000351425	1.9356716E-6
StD	0.0000191585	0.0003141138	0.0000232934	0.0001048337	0.0000398035	2.3145562E-6

Simple Statistics

	PCB_15	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
Mean	0.0002688226	0.0003667829	0.0032660667	0.0012279229	0.0011612849	4.9007066E-6
StD	0.0000993728	0.0001198254	0.0015725917	0.0007211852	0.0002474582	1.532661E-6

Simple Statistics

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32	PCB_34
Mean	0.0000555853	0.0026458203	0.0025805098	0.0039763274	0.0031527790	0.0000488638
StD	0.0000546465	0.0010249064	0.0013954507	0.0010282624	0.0011642341	0.0000206868

Simple Statistics

	PCB_35	PCB_36	PCB_37	PCB_38	PCB_39	PCB_42
Mean	3.6062978E-6	1.9356716E-6	0.0005116614	0.0000226011	0.0000227865	0.0044125838
StD	2.9007746E-6	2.3145562E-6	0.0000881639	0.0000112449	0.0000053874	0.0013626136

Simple Statistics

	PCB_43	PCB_46	PCB_48	PCB_52	PCB_54	PCB_55
Mean	0.0001794213	0.0002980603	0.0005837856	0.0537116392	0.0002515512	1.9356716E-6
StD	0.0002077908	0.0001583442	0.0001090860	0.0179805688	0.0001539657	2.3145562E-6

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_56	PCB_57	PCB_58	PCB_60	PCB_63	PCB_64
Mean	0.0024808874	0.0006468415	0.0002113947	0.0011288925	0.0007620326	0.0059782742
StD	0.0003902074	0.0003275365	0.0000790731	0.0002492032	0.0001904234	0.0016750757

Simple Statistics

	PCB_66	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
Mean	0.0152019444	0.0008004398	0.0012476405	0.0018005890	1.9356716E-6	0.0005422484
StD	0.0027226985	0.0002939501	0.0005271058	0.0007870603	2.3145562E-6	0.0001355486

Simple Statistics

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82	PCB_83
Mean	3.5309755E-6	0.0004122548	2.0560634E-6	0.0000332910	0.0032438316	0.0015016148
StD	6.7319109E-6	0.0000834064	2.2773841E-6	0.0000161690	0.0008391181	0.0004936365

Simple Statistics

	PCB_84	PCB_89	PCB_92	PCB_94	PCB_95	PCB_96
Mean	0.0054902464	0.0001125190	0.0197824836	0.0002100287	0.0347328301	0.0001771487
StD	0.0014431376	0.0000462905	0.0039745018	0.0000850864	0.0069151393	0.0000795047

Simple Statistics

	PCB_99	PCB_103	PCB_104	PCB_105	PCB_106	PCB_109
Mean	0.0465070865	0.0009923056	0.0000297813	0.0151845108	1.9356716E-6	0.0048144405
StD	0.0103550013	0.0002900842	0.0000116778	0.0031266469	2.3145562E-6	0.0011126625

Simple Statistics

	PCB_111	PCB_112	PCB_114	PCB_118	PCB_120	PCB_121
Mean	0.0001270601	1.9356716E-6	0.0009161470	0.0525437293	0.0004670782	0.0000404657
StD	0.0000540082	2.3145562E-6	0.0003198975	0.0116602599	0.0001883183	0.0000175847

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_122	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
Mean	0.0004926151	0.0010096183	0.0001067976	0.0001075390	0.0041989309	0.0004835403
StD	0.0000416586	0.0001531839	0.0000239493	0.0000179256	0.0008144857	0.0000539177

Simple Statistics

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141	PCB_142
Mean	0.0128415143	0.0013249474	0.0043023333	0.0047879940	0.0088063075	1.9356716E-6
StD	0.0012914011	0.0002374268	0.0008629975	0.0012245739	0.0020081068	2.3145562E-6

Simple Statistics

	PCB_144	PCB_145	PCB_146	PCB_148	PCB_150	PCB_152
Mean	0.0022683358	0.0000152629	0.0127435823	0.0000851449	0.0000632984	0.0000461757
StD	0.0005576109	0.0000021744	0.0027268250	0.0000149144	0.0000079075	0.0000064861

Simple Statistics

	PCB_154	PCB_155	PCB_158	PCB_159	PCB_160	PCB_161
Mean	0.0008904732	4.1092114E-6	0.0075509468	0.0000260504	1.9356716E-6	1.9356716E-6
StD	0.0001532406	1.9960922E-6	0.0015615401	0.0000268579	2.3145562E-6	2.3145562E-6

Simple Statistics

	PCB_162	PCB_164	PCB_165	PCB_167	PCB_169	PCB_170
Mean	0.0002308136	0.0042530373	0.0000716490	0.0025003944	0.0000166277	0.0056974048
StD	0.0000419835	0.0011630261	0.0000268205	0.0006914389	0.0000205195	0.0024356415

Simple Statistics

	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
Mean	0.0011172635	0.0045296011	0.0002722857	0.0005421429	0.0034744384	0.0016197817
StD	0.0007543907	0.0036242498	0.0001778239	0.0003386946	0.0023697932	0.0012253589

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
Mean	0.0019029180	0.0001560923	0.0000418719	9.1601226E-6	3.152877E-6	0.0218272956
StD	0.0015301893	0.0000389406	0.0000191114	4.8547421E-6	1.743144E-6	0.0252396466

Simple Statistics

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192	PCB_194
Mean	0.0000115954	0.0002473944	0.0007768080	0.0002374477	1.9811773E-6	0.0008591828
StD	0.0000079475	0.0000908444	0.0005243717	0.0001287613	2.2793219E-6	0.0008206221

Simple Statistics

	PCB_195	PCB_196	PCB_201	PCB_202	PCB_203	PCB_204
Mean	0.0005147789	0.0006657070	0.0002417150	0.0003458326	0.0012258200	2.0731071E-6
StD	0.0004863993	0.0006806585	0.0003002846	0.0004452394	0.0013412643	2.3666768E-6

Simple Statistics

	PCB_205	PCB_206	PCB_207	PCB_208	PCB_209	PCB_12_13
Mean	0.0000689561	0.0004190696	0.0000521997	0.0001345444	0.0002037553	0.0000783906
StD	0.0000726385	0.0005323631	0.0000600158	0.0001867373	0.0003452204	0.0000354416

Simple Statistics

	PCB_107_124	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
Mean	0.0022582124	0.0686677836	0.0117550348	0.0851728031	0.0029754149	0.0213989958
StD	0.0003478144	0.0133632737	0.0024540832	0.0162184511	0.0003906982	0.0066431839

Simple Statistics

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
Mean	0.0017204327	0.0503330490	0.0619823027	0.0068347829	0.0023334186	0.0023633037
StD	0.0003498187	0.0143399186	0.0121372136	0.0019168028	0.0010702313	0.0009799503

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Simple Statistics

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28	PCB_21_33
Mean	0.0110307612	0.0049515422	0.0002182499	0.0016662393	0.0067342075	0.0004834392
StD	0.0073401413	0.0029472497	0.0002404049	0.0021116052	0.0016495797	0.0001103883

Simple Statistics

	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51	PCB_49_69	PCB_50_53
Mean	0.0063261219	0.0056832381	0.0288863649	0.0037413212	0.0356962018	0.0038128931
StD	0.0026963484	0.0017379934	0.0088956648	0.0016083518	0.0141241891	0.0019748194

Simple Statistics

	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113
Mean	0.0025605381	0.0214618110	0.0124486212	0.0359471715	0.0095583275	0.0709542491
StD	0.0009821814	0.0034579832	0.0021810726	0.0052565431	0.0013917116	0.0101507006

Simple Statistics

	PCB_93_98_100_102
Mean	0.0022890548
StD	0.0004273896

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_1	PCB 1	0.0000000058	-.0000000001	0.0000000005
PCB_2	PCB 2	-.0000000001	0.0000000000	-.0000000000
PCB_3	PCB 3	0.0000000005	-.0000000000	0.0000000001
PCB_4	PCB 4	0.0000000658	-.0000000017	0.0000000020
PCB_5	PCB 5	0.0000000001	-.0000000000	0.0000000000
PCB_6	PCB 6	0.0000000048	-.0000000001	0.0000000004
PCB_7	PCB 7	0.0000000013	-.0000000000	0.0000000001
PCB_8	PCB 8	0.0000000199	-.0000000004	0.0000000019
PCB_9	PCB 9	0.0000000015	-.0000000000	0.0000000001
PCB_10	PCB 10	0.0000000064	-.0000000002	0.0000000002
PCB_11	PCB 11	-.0000000016	0.0000000001	-.0000000000
PCB_14	PCB 14	-.0000000001	0.0000000000	-.0000000000
PCB_15	PCB 15	0.0000000049	-.0000000001	0.0000000006
PCB_16	PCB 16	0.0000000029	-.0000000001	-.0000000001
PCB_17	PCB 17	0.0000000808	-.0000000023	0.0000000017
PCB_19	PCB 19	0.0000000327	-.0000000010	0.0000000002
PCB_22	PCB 22	0.0000000080	-.0000000002	0.0000000003
PCB_23	PCB 23	-.0000000000	0.0000000000	-.0000000000
PCB_24	PCB 24	0.0000000018	-.0000000000	0.0000000001
PCB_25	PCB 25	0.0000000432	-.0000000012	0.0000000016
PCB_27	PCB 27	0.0000000411	-.0000000017	0.0000000014
PCB_31	PCB 31	0.0000000394	-.0000000010	0.0000000020
PCB_32	PCB 32	0.0000000553	-.0000000015	0.0000000017
PCB_34	PCB 34	0.0000000007	-.0000000000	0.0000000001
PCB_35	PCB 35	-.0000000000	0.0000000000	-.0000000000
PCB_36	PCB 36	-.0000000001	0.0000000000	-.0000000000
PCB_37	PCB 37	0.0000000037	0.0000000000	0.0000000005
PCB_38	PCB 38	0.0000000004	-.0000000000	0.0000000000
PCB_39	PCB 39	0.0000000003	-.0000000000	0.0000000000
PCB_42	PCB 42	0.0000000551	-.0000000016	0.0000000001
PCB_43	PCB 43	-.0000000049	0.0000000000	-.0000000003
PCB_46	PCB 46	0.0000000021	-.0000000001	-.0000000003
PCB_48	PCB 48	0.0000000002	0.0000000000	-.0000000002
PCB_52	PCB 52	0.0000008668	-.0000000243	0.0000000180
PCB_54	PCB 54	0.0000000071	-.0000000002	0.0000000001
PCB_55	PCB 55	-.0000000001	0.0000000000	-.0000000000
PCB_56	PCB 56	0.0000000069	0.0000000001	-.0000000003
PCB_57	PCB 57	0.0000000062	-.0000000003	0.0000000004
PCB_58	PCB 58	0.0000000018	-.0000000001	0.0000000001
PCB_60	PCB 60	-.0000000109	0.0000000005	-.0000000006

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_1	0.0000000658	0.0000000001	0.0000000048	0.0000000013	0.0000000199
PCB_2	-.0000000017	-.0000000000	-.0000000001	-.0000000000	-.0000000004
PCB_3	0.0000000020	0.0000000000	0.0000000004	0.0000000001	0.0000000019
PCB_4	0.0000013704	0.0000000027	0.0000000678	0.0000000204	0.0000001984
PCB_5	0.0000000027	0.0000000000	-.0000000000	0.0000000000	0.0000000002
PCB_6	0.0000000678	-.0000000000	0.0000000099	0.0000000015	0.0000000263
PCB_7	0.0000000204	0.0000000000	0.0000000015	0.0000000004	0.0000000050
PCB_8	0.0000001984	0.0000000002	0.0000000263	0.0000000050	0.0000000987
PCB_9	0.0000000235	0.0000000000	0.0000000021	0.0000000004	0.0000000063
PCB_10	0.0000001197	0.0000000003	0.0000000053	0.0000000018	0.0000000192
PCB_11	-.0000000392	-.0000000001	-.0000000017	-.0000000006	-.0000000057
PCB_14	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_15	0.0000000236	-.0000000001	0.0000000076	0.0000000010	0.0000000265
PCB_16	0.0000000981	0.0000000001	0.0000000073	0.0000000013	0.0000000078
PCB_17	0.0000018056	0.0000000036	0.0000000912	0.0000000267	0.0000002464
PCB_19	0.0000008168	0.0000000015	0.0000000383	0.0000000112	0.0000000857
PCB_22	0.0000001627	0.0000000001	0.0000000183	0.0000000030	0.0000000397
PCB_23	-.0000000003	-.0000000000	-.0000000000	-.0000000000	-.0000000002
PCB_24	0.0000000277	0.0000000000	0.0000000011	0.0000000004	0.0000000040
PCB_25	0.0000009081	0.0000000007	0.0000000906	0.0000000161	0.0000002056
PCB_27	0.0000009537	-.0000000004	0.0000001252	0.0000000181	0.0000002512
PCB_31	0.0000007247	0.0000000003	0.0000000892	0.0000000144	0.0000002117
PCB_32	0.0000011841	0.0000000014	0.0000000927	0.0000000195	0.0000002239
PCB_34	0.0000000115	-.0000000000	0.0000000020	0.0000000003	0.0000000043
PCB_35	-.0000000006	0.0000000000	-.0000000002	-.0000000000	-.0000000004
PCB_36	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_37	0.0000000039	-.0000000000	0.0000000051	0.0000000005	0.0000000169
PCB_38	0.0000000106	0.0000000000	0.0000000007	0.0000000002	0.0000000014
PCB_39	0.0000000048	0.0000000000	0.0000000003	0.0000000001	0.0000000007
PCB_42	0.0000014139	0.0000000025	0.0000000815	0.0000000202	0.0000001645
PCB_43	-.0000000601	-.0000000004	0.0000000060	-.0000000009	-.0000000097
PCB_46	0.0000001206	0.0000000001	0.0000000076	0.0000000014	0.0000000019
PCB_48	0.0000000350	0.0000000001	0.0000000019	0.0000000003	-.0000000049
PCB_52	0.0000197241	0.0000000329	0.0000012303	0.0000002953	0.0000027820
PCB_54	0.0000001766	0.0000000003	0.0000000085	0.0000000025	0.0000000202
PCB_55	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_56	0.0000001750	0.0000000008	-.0000000029	0.0000000012	-.0000000199
PCB_57	0.0000001537	-.0000000002	0.0000000274	0.0000000033	0.0000000506
PCB_58	0.0000000430	-.0000000000	0.0000000068	0.0000000009	0.0000000120
PCB_60	-.0000002004	-.0000000002	-.0000000163	-.0000000037	-.0000000538

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_1	0.0000000015	0.0000000064	-.0000000016	-.0000000001	0.0000000049
PCB_2	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_3	0.0000000001	0.0000000002	-.0000000000	-.0000000000	0.0000000006
PCB_4	0.0000000235	0.0000001197	-.0000000392	-.0000000019	0.0000000236
PCB_5	0.0000000000	0.0000000003	-.0000000001	-.0000000000	-.0000000001
PCB_6	0.0000000021	0.0000000053	-.0000000017	-.0000000001	0.0000000076
PCB_7	0.0000000004	0.0000000018	-.0000000006	-.0000000000	0.0000000010
PCB_8	0.0000000063	0.0000000192	-.0000000057	-.0000000005	0.0000000265
PCB_9	0.0000000005	0.0000000021	-.0000000006	-.0000000000	0.0000000014
PCB_10	0.0000000021	0.0000000110	-.0000000035	-.0000000002	0.0000000020
PCB_11	-.0000000006	-.0000000035	0.0000000016	0.0000000001	-.0000000003
PCB_14	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_15	0.0000000014	0.0000000020	-.0000000003	-.0000000001	0.0000000099
PCB_16	0.0000000018	0.0000000071	-.0000000024	-.0000000001	0.0000000010
PCB_17	0.0000000311	0.0000001576	-.0000000513	-.0000000024	0.0000000192
PCB_19	0.0000000132	0.0000000687	-.0000000237	-.0000000011	0.0000000047
PCB_22	0.0000000041	0.0000000135	-.0000000038	-.0000000002	0.0000000063
PCB_23	-.0000000000	-.0000000000	0.0000000000	0.0000000000	-.0000000001
PCB_24	0.0000000004	0.0000000024	-.0000000007	-.0000000000	0.0000000010
PCB_25	0.0000000211	0.0000000728	-.0000000235	-.0000000014	0.0000000415
PCB_27	0.0000000251	0.0000000684	-.0000000277	-.0000000020	0.0000000634
PCB_31	0.0000000193	0.0000000593	-.0000000180	-.0000000012	0.0000000437
PCB_32	0.0000000243	0.0000000990	-.0000000323	-.0000000017	0.0000000355
PCB_34	0.0000000004	0.0000000008	-.0000000002	-.0000000000	0.0000000013
PCB_35	-.0000000000	-.0000000000	0.0000000000	0.0000000000	-.0000000001
PCB_36	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_37	0.0000000009	0.0000000006	0.0000000007	0.0000000000	0.0000000064
PCB_38	0.0000000002	0.0000000009	-.0000000002	-.0000000000	0.0000000001
PCB_39	0.0000000001	0.0000000004	-.0000000001	-.0000000000	0.0000000000
PCB_42	0.0000000246	0.0000001187	-.0000000376	-.0000000016	0.0000000059
PCB_43	-.0000000003	-.0000000090	0.0000000022	0.0000000000	0.0000000038
PCB_46	0.0000000019	0.0000000083	-.0000000029	-.0000000001	-.0000000012
PCB_48	0.0000000005	0.0000000026	-.0000000003	0.0000000000	-.0000000032
PCB_52	0.0000003611	0.0000016441	-.0000005307	-.0000000257	0.0000003582
PCB_54	0.0000000029	0.0000000149	-.0000000050	-.0000000002	0.0000000014
PCB_55	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_56	0.0000000013	0.0000000169	-.0000000020	0.0000000002	-.0000000152
PCB_57	0.0000000049	0.0000000086	-.0000000027	-.0000000003	0.0000000176
PCB_58	0.0000000013	0.0000000027	-.0000000008	-.0000000001	0.0000000039
PCB_60	-.0000000044	-.0000000168	0.0000000076	0.0000000005	-.0000000134

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_1	0.0000000029	0.0000000808	0.0000000327	0.0000000080	-.0000000000
PCB_2	-.0000000001	-.0000000023	-.0000000010	-.0000000002	0.0000000000
PCB_3	-.0000000001	0.0000000017	0.0000000002	0.0000000003	-.0000000000
PCB_4	0.0000000981	0.0000018056	0.0000008168	0.0000001627	-.0000000003
PCB_5	0.0000000001	0.0000000036	0.0000000015	0.0000000001	-.0000000000
PCB_6	0.0000000073	0.0000000912	0.0000000383	0.0000000183	-.0000000000
PCB_7	0.0000000013	0.0000000267	0.0000000112	0.0000000030	-.0000000000
PCB_8	0.0000000078	0.0000002464	0.0000000857	0.0000000397	-.0000000002
PCB_9	0.0000000018	0.0000000311	0.0000000132	0.0000000041	-.0000000000
PCB_10	0.0000000071	0.0000001576	0.0000000687	0.0000000135	-.0000000000
PCB_11	-.0000000024	-.0000000513	-.0000000237	-.0000000038	0.0000000000
PCB_14	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_15	0.0000000010	0.0000000192	0.0000000047	0.0000000063	-.0000000001
PCB_16	0.0000000144	0.0000001434	0.0000000716	0.0000000215	0.0000000001
PCB_17	0.0000001434	0.0000024730	0.0000011039	0.0000002584	-.0000000001
PCB_19	0.0000000716	0.0000011039	0.0000005201	0.0000001059	-.0000000000
PCB_22	0.0000000215	0.0000002584	0.0000001059	0.0000000612	0.0000000002
PCB_23	0.0000000001	-.0000000001	-.0000000000	0.0000000002	0.0000000000
PCB_24	0.0000000008	0.0000000276	0.0000000143	0.0000000024	-.0000000000
PCB_25	0.0000001023	0.0000013057	0.0000005704	0.0000002319	0.0000000002
PCB_27	0.0000001359	0.0000013843	0.0000006397	0.0000002915	0.0000000002
PCB_31	0.0000000874	0.0000010946	0.0000004477	0.0000002475	0.0000000004
PCB_32	0.0000001119	0.0000016527	0.0000007265	0.0000002522	0.0000000002
PCB_34	0.0000000018	0.0000000166	0.0000000075	0.0000000040	0.0000000000
PCB_35	-.0000000002	-.0000000012	-.0000000005	-.0000000004	0.0000000000
PCB_36	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_37	0.0000000012	0.0000000052	-.0000000027	0.0000000110	0.0000000000
PCB_38	0.0000000011	0.0000000157	0.0000000067	0.0000000024	0.0000000000
PCB_39	0.0000000005	0.0000000070	0.0000000030	0.0000000011	0.0000000000
PCB_42	0.0000001433	0.0000020299	0.0000009187	0.0000002767	0.0000000005
PCB_43	0.0000000111	-.0000000675	-.0000000108	0.0000000109	0.0000000001
PCB_46	0.0000000185	0.0000001762	0.0000000917	0.0000000254	0.0000000001
PCB_48	0.0000000088	0.0000000700	0.0000000334	0.0000000196	0.0000000001
PCB_52	0.0000019153	0.0000273585	0.0000125450	0.0000033513	0.0000000023
PCB_54	0.0000000146	0.0000002374	0.0000001097	0.0000000230	-.0000000000
PCB_55	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_56	0.0000000209	0.0000002871	0.0000001287	0.0000000470	0.0000000004
PCB_57	0.0000000277	0.0000002236	0.0000001041	0.0000000480	0.0000000000
PCB_58	0.0000000078	0.0000000643	0.0000000304	0.0000000141	0.0000000000
PCB_60	-.0000000105	-.0000002347	-.0000001082	-.0000000121	0.0000000003

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_1	0.0000000018	0.0000000432	0.0000000411	0.0000000394	0.0000000553
PCB_2	-.0000000000	-.0000000012	-.0000000017	-.0000000010	-.0000000015
PCB_3	0.0000000001	0.0000000016	0.0000000014	0.0000000020	0.0000000017
PCB_4	0.0000000277	0.0000009081	0.0000009537	0.0000007247	0.0000011841
PCB_5	0.0000000000	0.0000000007	-.0000000004	0.0000000003	0.0000000014
PCB_6	0.0000000011	0.0000000906	0.0000001252	0.0000000892	0.0000000927
PCB_7	0.0000000004	0.0000000161	0.0000000181	0.0000000144	0.0000000195
PCB_8	0.0000000040	0.0000002056	0.0000002512	0.0000002117	0.0000002239
PCB_9	0.0000000004	0.0000000211	0.0000000251	0.0000000193	0.0000000243
PCB_10	0.0000000024	0.0000000728	0.0000000684	0.0000000593	0.0000000990
PCB_11	-.0000000007	-.0000000235	-.0000000277	-.0000000180	-.0000000323
PCB_14	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_15	0.0000000010	0.0000000415	0.0000000634	0.0000000437	0.0000000355
PCB_16	0.0000000008	0.0000001023	0.0000001359	0.0000000874	0.0000001119
PCB_17	0.0000000276	0.0000013057	0.0000013843	0.0000010946	0.0000016527
PCB_19	0.0000000143	0.0000005704	0.0000006397	0.0000004477	0.0000007265
PCB_22	0.0000000024	0.0000002319	0.0000002915	0.0000002475	0.0000002522
PCB_23	-.0000000000	0.0000000002	0.0000000002	0.0000000004	0.0000000002
PCB_24	0.0000000030	0.0000000129	0.0000000128	0.0000000114	0.0000000256
PCB_25	0.0000000129	0.0000010504	0.0000013501	0.0000010126	0.0000011521
PCB_27	0.0000000128	0.0000013501	0.0000019473	0.0000013115	0.0000013941
PCB_31	0.0000000114	0.0000010126	0.0000013115	0.0000010573	0.0000010861
PCB_32	0.0000000256	0.0000011521	0.0000013941	0.0000010861	0.0000013554
PCB_34	0.0000000001	0.0000000187	0.0000000273	0.0000000184	0.0000000181
PCB_35	0.0000000000	-.0000000016	-.0000000027	-.0000000019	-.0000000014
PCB_36	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_37	0.0000000012	0.0000000346	0.0000000465	0.0000000480	0.0000000305
PCB_38	0.0000000001	0.0000000101	0.0000000109	0.0000000095	0.0000000120
PCB_39	0.0000000001	0.0000000041	0.0000000042	0.0000000041	0.0000000051
PCB_42	0.0000000218	0.0000012330	0.0000014050	0.0000011095	0.0000014907
PCB_43	-.0000000023	0.0000000467	0.0000001386	0.0000000475	0.0000000070
PCB_46	0.0000000017	0.0000001216	0.0000001634	0.0000001002	0.0000001370
PCB_48	0.0000000005	0.0000000571	0.0000000679	0.0000000630	0.0000000641
PCB_52	0.0000002854	0.0000165007	0.0000193249	0.0000142003	0.0000196598
PCB_54	0.0000000034	0.0000001243	0.0000001355	0.0000000991	0.0000001594
PCB_55	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_56	0.0000000055	0.0000001129	0.0000000447	0.0000001205	0.0000001767
PCB_57	-.0000000021	0.0000002619	0.0000003901	0.0000002384	0.0000002381
PCB_58	-.0000000003	0.0000000696	0.0000001020	0.0000000651	0.0000000657
PCB_60	-.0000000035	-.0000001378	-.0000001893	-.0000000976	-.0000001638

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_1	0.0000000007	-.0000000000	-.0000000001	0.0000000037	0.0000000004
PCB_2	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_3	0.0000000001	-.0000000000	-.0000000000	0.0000000005	0.0000000000
PCB_4	0.0000000115	-.0000000006	-.0000000019	0.0000000039	0.0000000106
PCB_5	-.0000000000	0.0000000000	-.0000000000	-.0000000000	0.0000000000
PCB_6	0.0000000020	-.0000000002	-.0000000001	0.0000000051	0.0000000007
PCB_7	0.0000000003	-.0000000000	-.0000000000	0.0000000005	0.0000000002
PCB_8	0.0000000043	-.0000000004	-.0000000005	0.0000000169	0.0000000014
PCB_9	0.0000000004	-.0000000000	-.0000000000	0.0000000009	0.0000000002
PCB_10	0.0000000008	-.0000000000	-.0000000002	0.0000000006	0.0000000009
PCB_11	-.0000000002	0.0000000000	0.0000000001	0.0000000007	-.0000000002
PCB_14	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_15	0.0000000013	-.0000000001	-.0000000001	0.0000000064	0.0000000001
PCB_16	0.0000000018	-.0000000002	-.0000000001	0.0000000012	0.0000000011
PCB_17	0.0000000166	-.0000000012	-.0000000024	0.0000000052	0.0000000157
PCB_19	0.0000000075	-.0000000005	-.0000000011	-.0000000027	0.0000000067
PCB_22	0.0000000040	-.0000000004	-.0000000002	0.0000000110	0.0000000024
PCB_23	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_24	0.0000000001	0.0000000000	-.0000000000	0.0000000012	0.0000000001
PCB_25	0.0000000187	-.0000000016	-.0000000014	0.0000000346	0.0000000101
PCB_27	0.0000000273	-.0000000027	-.0000000020	0.0000000465	0.0000000109
PCB_31	0.0000000184	-.0000000019	-.0000000012	0.0000000480	0.0000000095
PCB_32	0.0000000181	-.0000000014	-.0000000017	0.0000000305	0.0000000120
PCB_34	0.0000000004	-.0000000000	-.0000000000	0.0000000010	0.0000000001
PCB_35	-.0000000000	0.0000000000	0.0000000000	-.0000000001	-.0000000000
PCB_36	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_37	0.0000000010	-.0000000001	0.0000000000	0.0000000078	0.0000000002
PCB_38	0.0000000001	-.0000000000	-.0000000000	0.0000000002	0.0000000001
PCB_39	0.0000000001	-.0000000000	-.0000000000	0.0000000002	0.0000000001
PCB_42	0.0000000171	-.0000000015	-.0000000016	0.0000000151	0.0000000147
PCB_43	0.0000000023	-.0000000003	0.0000000000	0.0000000045	-.0000000001
PCB_46	0.0000000020	-.0000000001	-.0000000001	-.0000000003	0.0000000014
PCB_48	0.0000000008	-.0000000001	0.0000000000	0.0000000025	0.0000000008
PCB_52	0.0000002512	-.0000000199	-.0000000257	0.0000002347	0.0000001836
PCB_54	0.0000000016	-.0000000001	-.0000000002	-.0000000005	0.0000000015
PCB_55	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_56	-.0000000000	-.0000000000	0.0000000002	0.0000000059	0.0000000028
PCB_57	0.0000000062	-.0000000004	-.0000000003	0.0000000083	0.0000000019
PCB_58	0.0000000016	-.0000000001	-.0000000001	0.0000000026	0.0000000006
PCB_60	-.0000000026	0.0000000002	0.0000000005	0.0000000010	-.0000000008

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_1	0.0000000003	0.0000000551	-.0000000049	0.0000000021	0.0000000002
PCB_2	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_3	0.0000000000	0.0000000001	-.0000000003	-.0000000003	-.0000000002
PCB_4	0.0000000048	0.0000014139	-.0000000601	0.0000001206	0.0000000350
PCB_5	0.0000000000	0.0000000025	-.0000000004	0.0000000001	0.0000000001
PCB_6	0.0000000003	0.0000000815	0.0000000060	0.0000000076	0.0000000019
PCB_7	0.0000000001	0.0000000202	-.0000000009	0.0000000014	0.0000000003
PCB_8	0.0000000007	0.0000001645	-.0000000097	0.0000000019	-.0000000049
PCB_9	0.0000000001	0.0000000246	-.0000000003	0.0000000019	0.0000000005
PCB_10	0.0000000004	0.0000001187	-.0000000090	0.0000000083	0.0000000026
PCB_11	-.0000000001	-.0000000376	0.0000000022	-.0000000029	-.0000000003
PCB_14	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_15	0.0000000000	0.0000000059	0.0000000038	-.0000000012	-.0000000032
PCB_16	0.0000000005	0.0000001433	0.0000000111	0.0000000185	0.0000000088
PCB_17	0.0000000070	0.0000020299	-.0000000675	0.0000001762	0.0000000700
PCB_19	0.0000000030	0.0000009187	-.0000000108	0.0000000917	0.0000000334
PCB_22	0.0000000011	0.0000002767	0.0000000109	0.0000000254	0.0000000196
PCB_23	0.0000000000	0.0000000005	0.0000000001	0.0000000001	0.0000000001
PCB_24	0.0000000001	0.0000000218	-.0000000023	0.0000000017	0.0000000005
PCB_25	0.0000000041	0.0000012330	0.0000000467	0.0000001216	0.0000000571
PCB_27	0.0000000042	0.0000014050	0.0000001386	0.0000001634	0.0000000679
PCB_31	0.0000000041	0.0000011095	0.0000000475	0.0000001002	0.0000000630
PCB_32	0.0000000051	0.0000014907	0.0000000070	0.0000001370	0.0000000641
PCB_34	0.0000000001	0.0000000171	0.0000000023	0.0000000020	0.0000000008
PCB_35	-.0000000000	-.0000000015	-.0000000003	-.0000000001	-.0000000001
PCB_36	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_37	0.0000000002	0.0000000151	0.0000000045	-.0000000003	0.0000000025
PCB_38	0.0000000001	0.0000000147	-.0000000001	0.0000000014	0.0000000008
PCB_39	0.0000000000	0.0000000066	-.0000000001	0.0000000006	0.0000000004
PCB_42	0.0000000066	0.0000018567	0.0000000021	0.0000001815	0.0000000977
PCB_43	-.0000000001	0.0000000021	0.0000000432	0.0000000146	0.0000000074
PCB_46	0.0000000006	0.0000001815	0.0000000146	0.0000000251	0.0000000118
PCB_48	0.0000000004	0.0000000977	0.0000000074	0.0000000118	0.0000000119
PCB_52	0.0000000814	0.0000238360	0.0000001504	0.0000023619	0.0000010088
PCB_54	0.0000000006	0.0000001956	-.0000000048	0.0000000187	0.0000000064
PCB_55	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_56	0.0000000017	0.0000003180	-.0000000109	0.0000000289	0.0000000358
PCB_57	0.0000000005	0.0000002253	0.0000000373	0.0000000323	0.0000000068
PCB_58	0.0000000002	0.0000000678	0.0000000099	0.0000000092	0.0000000034
PCB_60	-.0000000002	-.0000001395	0.0000000048	-.0000000111	0.0000000100

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_1	0.0000008668	0.0000000071	-.0000000001	0.0000000069	0.0000000062
PCB_2	-.0000000243	-.0000000002	0.0000000000	0.0000000001	-.0000000003
PCB_3	0.0000000180	0.0000000001	-.0000000000	-.0000000003	0.0000000004
PCB_4	0.0000197241	0.0000001766	-.0000000019	0.0000001750	0.0000001537
PCB_5	0.0000000329	0.0000000003	-.0000000000	0.0000000008	-.0000000002
PCB_6	0.0000012303	0.0000000085	-.0000000001	-.0000000029	0.0000000274
PCB_7	0.0000002953	0.0000000025	-.0000000000	0.0000000012	0.0000000033
PCB_8	0.0000027820	0.0000000202	-.0000000005	-.0000000199	0.0000000506
PCB_9	0.0000003611	0.0000000029	-.0000000000	0.0000000013	0.0000000049
PCB_10	0.0000016441	0.0000000149	-.0000000002	0.0000000169	0.0000000086
PCB_11	-.0000005307	-.0000000050	0.0000000001	-.0000000020	-.0000000027
PCB_14	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_15	0.0000003582	0.0000000014	-.0000000001	-.0000000152	0.0000000176
PCB_16	0.0000019153	0.0000000146	-.0000000001	0.0000000209	0.0000000277
PCB_17	0.0000273585	0.0000002374	-.0000000024	0.0000002871	0.0000002236
PCB_19	0.0000125450	0.0000001097	-.0000000011	0.0000001287	0.0000001041
PCB_22	0.0000033513	0.0000000230	-.0000000002	0.0000000470	0.0000000480
PCB_23	0.0000000023	-.0000000000	0.0000000000	0.0000000004	0.0000000000
PCB_24	0.0000002854	0.0000000034	-.0000000000	0.0000000055	-.0000000021
PCB_25	0.0000165007	0.0000001243	-.0000000014	0.0000001129	0.0000002619
PCB_27	0.0000193249	0.0000001355	-.0000000020	0.0000000447	0.0000003901
PCB_31	0.0000142003	0.0000000991	-.0000000012	0.0000001205	0.0000002384
PCB_32	0.0000196598	0.0000001594	-.0000000017	0.0000001767	0.0000002381
PCB_34	0.0000002512	0.0000000016	-.0000000000	-.0000000000	0.0000000062
PCB_35	-.0000000199	-.0000000001	0.0000000000	-.0000000000	-.0000000004
PCB_36	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_37	0.0000002347	-.0000000005	0.0000000000	0.0000000059	0.0000000083
PCB_38	0.0000001836	0.0000000015	-.0000000000	0.0000000028	0.0000000019
PCB_39	0.0000000814	0.0000000006	-.0000000000	0.0000000017	0.0000000005
PCB_42	0.0000238360	0.0000001956	-.0000000016	0.0000003180	0.0000002253
PCB_43	0.0000001504	-.0000000048	0.0000000000	-.0000000109	0.0000000373
PCB_46	0.0000023619	0.0000000187	-.0000000001	0.0000000289	0.0000000323
PCB_48	0.0000010088	0.0000000064	0.0000000000	0.0000000358	0.0000000068
PCB_52	0.0003233009	0.0000026564	-.0000000257	0.0000032452	0.0000034838
PCB_54	0.0000026564	0.0000000237	-.0000000002	0.0000000258	0.0000000230
PCB_55	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_56	0.0000032452	0.0000000258	0.0000000002	0.0000001523	-.0000000235
PCB_57	0.0000034838	0.0000000230	-.0000000003	-.0000000235	0.0000001073
PCB_58	0.0000009839	0.0000000064	-.0000000001	0.0000000003	0.0000000251
PCB_60	-.0000025561	-.0000000239	0.0000000005	0.0000000387	-.0000000432

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_1	0.0000000018	-.0000000109	0.0000000068	0.0000000533	0.0000001136
PCB_2	-.0000000001	0.0000000005	-.0000000002	-.0000000013	-.0000000038
PCB_3	0.0000000001	-.0000000006	0.0000000005	-.0000000016	0.0000000076
PCB_4	0.0000000430	-.0000002004	0.0000001119	0.0000015888	0.0000017952
PCB_5	-.0000000000	-.0000000002	-.0000000001	0.0000000038	-.0000000001
PCB_6	0.0000000068	-.0000000163	0.0000000180	0.0000000524	0.0000002547
PCB_7	0.0000000009	-.0000000037	0.0000000025	0.0000000191	0.0000000397
PCB_8	0.0000000120	-.0000000538	0.0000000416	0.0000000676	0.0000006576
PCB_9	0.0000000013	-.0000000044	0.0000000035	0.0000000222	0.0000000536
PCB_10	0.0000000027	-.0000000168	0.0000000081	0.0000001366	0.0000001437
PCB_11	-.0000000008	0.0000000076	-.0000000029	-.0000000400	-.0000000545
PCB_14	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_15	0.0000000039	-.0000000134	0.0000000122	-.0000000372	0.0000001706
PCB_16	0.0000000078	-.0000000105	0.0000000163	0.0000001599	0.0000002185
PCB_17	0.0000000643	-.0000002347	0.0000001626	0.0000023194	0.0000025989
PCB_19	0.0000000304	-.0000001082	0.0000000714	0.0000010668	0.0000010998
PCB_22	0.0000000141	-.0000000121	0.0000000358	0.0000002833	0.0000005228
PCB_23	0.0000000000	0.0000000003	-.0000000000	0.0000000010	-.0000000005
PCB_24	-.0000000003	-.0000000035	-.0000000003	0.0000000259	-.0000000041
PCB_25	0.0000000696	-.0000001378	0.0000001727	0.0000011751	0.0000024821
PCB_27	0.0000001020	-.0000001893	0.0000002505	0.0000011607	0.0000034950
PCB_31	0.0000000651	-.0000000976	0.0000001685	0.0000010169	0.0000024467
PCB_32	0.0000000657	-.0000001638	0.0000001662	0.0000015324	0.0000024677
PCB_34	0.0000000016	-.0000000026	0.0000000039	0.0000000119	0.0000000529
PCB_35	-.0000000001	0.0000000002	-.0000000004	-.0000000010	-.0000000061
PCB_36	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_37	0.0000000026	0.0000000010	0.0000000082	-.0000000010	0.0000001129
PCB_38	0.0000000006	-.0000000008	0.0000000013	0.0000000171	0.0000000186
PCB_39	0.0000000002	-.0000000002	0.0000000005	0.0000000082	0.0000000076
PCB_42	0.0000000678	-.0000001395	0.0000001583	0.0000021505	0.0000023825
PCB_43	0.0000000099	0.0000000048	0.0000000191	-.0000000353	0.0000001975
PCB_46	0.0000000092	-.0000000111	0.0000000177	0.0000002116	0.0000002259
PCB_48	0.0000000034	0.0000000100	0.0000000060	0.0000001356	0.0000000800
PCB_52	0.0000009839	-.0000025561	0.0000023537	0.0000263714	0.0000350113
PCB_54	0.0000000064	-.0000000239	0.0000000150	0.0000002239	0.0000002295
PCB_55	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_56	0.0000000003	0.0000000387	-.0000000045	0.0000005189	-.0000000371
PCB_57	0.0000000251	-.0000000432	0.0000000570	0.0000001362	0.0000007387
PCB_58	0.0000000063	-.0000000091	0.0000000143	0.0000000527	0.0000001894
PCB_60	-.0000000091	0.0000000621	-.0000000271	-.0000000728	-.0000004200

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_1	0.0000000144	0.0000000197	0.0000000297	-.0000000001	-.0000000049
PCB_2	-.0000000003	-.0000000007	-.0000000009	0.0000000000	0.0000000003
PCB_3	0.0000000009	0.0000000013	0.0000000020	-.0000000000	-.0000000001
PCB_4	0.0000002367	0.0000003465	0.0000005196	-.0000000019	-.0000001131
PCB_5	0.0000000002	-.0000000001	-.0000000001	-.0000000000	-.0000000001
PCB_6	0.0000000263	0.0000000507	0.0000000760	-.0000000001	-.0000000062
PCB_7	0.0000000044	0.0000000075	0.0000000111	-.0000000000	-.0000000018
PCB_8	0.0000000612	0.0000001209	0.0000001760	-.0000000005	-.0000000220
PCB_9	0.0000000059	0.0000000102	0.0000000153	-.0000000000	-.0000000020
PCB_10	0.0000000183	0.0000000255	0.0000000377	-.0000000002	-.0000000098
PCB_11	-.0000000045	-.0000000092	-.0000000121	0.0000000001	0.0000000049
PCB_14	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_15	0.0000000175	0.0000000345	0.0000000512	-.0000000001	-.0000000035
PCB_16	0.0000000288	0.0000000438	0.0000000675	-.0000000001	-.0000000054
PCB_17	0.0000003283	0.0000004843	0.0000007284	-.0000000024	-.0000001365
PCB_19	0.0000001470	0.0000002117	0.0000003175	-.0000000011	-.0000000646
PCB_22	0.0000000551	0.0000000946	0.0000001482	-.0000000002	-.0000000046
PCB_23	0.0000000000	-.0000000001	-.0000000000	0.0000000000	0.0000000001
PCB_24	0.0000000022	0.0000000012	0.0000000040	-.0000000000	-.0000000018
PCB_25	0.0000002723	0.0000004839	0.0000007370	-.0000000014	-.0000000622
PCB_27	0.0000003524	0.0000006907	0.0000010341	-.0000000020	-.0000000827
PCB_31	0.0000002508	0.0000004609	0.0000007082	-.0000000012	-.0000000386
PCB_32	0.0000002826	0.0000004791	0.0000007351	-.0000000017	-.0000000827
PCB_34	0.0000000056	0.0000000105	0.0000000159	-.0000000000	-.0000000009
PCB_35	-.0000000004	-.0000000009	-.0000000013	0.0000000000	0.0000000001
PCB_36	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_37	0.0000000133	0.0000000195	0.0000000324	0.0000000000	0.0000000032
PCB_38	0.0000000025	0.0000000036	0.0000000057	-.0000000000	-.0000000004
PCB_39	0.0000000011	0.0000000012	0.0000000020	-.0000000000	-.0000000001
PCB_42	0.0000003017	0.0000004442	0.0000006883	-.0000000016	-.0000000825
PCB_43	0.0000000207	0.0000000433	0.0000000655	0.0000000000	0.0000000057
PCB_46	0.0000000325	0.0000000481	0.0000000755	-.0000000001	-.0000000063
PCB_48	0.0000000127	0.0000000113	0.0000000219	0.0000000000	0.0000000044
PCB_52	0.0000044004	0.0000066915	0.0000101549	-.0000000257	-.0000013893
PCB_54	0.0000000314	0.0000000462	0.0000000702	-.0000000002	-.0000000138
PCB_55	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_56	0.0000000238	-.0000000262	-.0000000183	0.0000000002	0.0000000147
PCB_57	0.0000000823	0.0000001605	0.0000002415	-.0000000003	-.0000000141
PCB_58	0.0000000212	0.0000000391	0.0000000590	-.0000000001	-.0000000031
PCB_60	-.0000000386	-.0000000880	-.0000001205	0.0000000005	0.0000000317

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_1	-.0000000003	0.0000000055	-.0000000001	-.0000000007	0.0000000134
PCB_2	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000003
PCB_3	-.0000000000	0.0000000003	-.0000000000	-.0000000000	-.0000000014
PCB_4	-.0000000052	0.0000000816	-.0000000019	-.0000000114	0.0000004490
PCB_5	-.0000000000	0.0000000002	-.0000000000	-.0000000000	0.0000000022
PCB_6	-.0000000005	0.0000000044	-.0000000001	-.0000000010	-.0000000332
PCB_7	-.0000000001	0.0000000013	-.0000000000	-.0000000002	0.0000000024
PCB_8	-.0000000017	0.0000000160	-.0000000005	-.0000000032	-.0000000678
PCB_9	-.0000000001	0.0000000016	-.0000000000	-.0000000003	0.0000000005
PCB_10	-.0000000005	0.0000000078	-.0000000002	-.0000000010	0.0000000471
PCB_11	0.0000000002	-.0000000018	0.0000000001	0.0000000005	-.0000000157
PCB_14	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_15	-.0000000004	0.0000000025	-.0000000001	-.0000000008	-.0000000476
PCB_16	-.0000000003	0.0000000054	-.0000000001	-.0000000007	0.0000000170
PCB_17	-.0000000065	0.0000001114	-.0000000023	-.0000000130	0.0000006164
PCB_19	-.0000000029	0.0000000459	-.0000000010	-.0000000065	0.0000002995
PCB_22	-.0000000006	0.0000000128	-.0000000002	-.0000000007	-.0000000118
PCB_23	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000001
PCB_24	-.0000000001	0.0000000014	-.0000000000	-.0000000003	0.0000000075
PCB_25	-.0000000045	0.0000000566	-.0000000013	-.0000000079	-.0000000649
PCB_27	-.0000000063	0.0000000487	-.0000000017	-.0000000124	-.0000003229
PCB_31	-.0000000038	0.0000000519	-.0000000010	-.0000000056	-.0000001604
PCB_32	-.0000000050	0.0000000725	-.0000000015	-.0000000094	0.0000001161
PCB_34	-.0000000001	0.0000000007	-.0000000000	-.0000000002	-.0000000074
PCB_35	0.0000000000	-.0000000001	0.0000000000	0.0000000000	0.0000000004
PCB_36	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_37	-.0000000001	0.0000000029	0.0000000000	-.0000000001	-.0000000303
PCB_38	-.0000000000	0.0000000007	-.0000000000	-.0000000000	0.0000000026
PCB_39	-.0000000000	0.0000000004	-.0000000000	-.0000000000	0.0000000020
PCB_42	-.0000000044	0.0000000892	-.0000000015	-.0000000080	0.0000004373
PCB_43	0.0000000000	-.0000000058	0.0000000001	-.0000000003	-.0000000870
PCB_46	-.0000000003	0.0000000056	-.0000000001	-.0000000007	0.0000000281
PCB_48	0.0000000002	0.0000000037	0.0000000001	0.0000000005	0.0000000266
PCB_52	-.0000000740	0.0000012081	-.0000000246	-.0000001509	0.0000049911
PCB_54	-.0000000006	0.0000000099	-.0000000002	-.0000000013	0.0000000574
PCB_55	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_56	0.0000000009	0.0000000196	0.0000000003	0.0000000021	0.0000002140
PCB_57	-.0000000012	0.0000000068	-.0000000003	-.0000000021	-.0000001369
PCB_58	-.0000000003	0.0000000023	-.0000000001	-.0000000005	-.0000000251
PCB_60	0.0000000016	-.0000000074	0.0000000005	0.0000000037	0.0000000122

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_1	0.0000000030	0.0000000392	-.0000000012	0.0000000972	0.0000000010
PCB_2	-.0000000004	-.0000000006	0.0000000001	-.0000000042	-.0000000001
PCB_3	-.0000000003	-.0000000013	-.0000000001	0.0000000112	0.0000000001
PCB_4	0.0000002176	0.0000011887	-.0000000097	0.0000011691	0.0000000198
PCB_5	-.0000000000	0.0000000031	0.0000000000	-.0000000044	-.0000000001
PCB_6	0.0000000293	0.0000000381	-.0000000028	0.0000003473	0.0000000069
PCB_7	0.0000000036	0.0000000133	-.0000000004	0.0000000406	0.0000000007
PCB_8	0.0000000315	0.0000000133	-.0000000104	0.0000008808	0.0000000133
PCB_9	0.0000000054	0.0000000160	-.0000000005	0.0000000592	0.0000000011
PCB_10	0.0000000111	0.0000000990	-.0000000008	0.0000000680	0.0000000008
PCB_11	-.0000000037	-.0000000237	0.0000000007	-.0000000345	-.0000000006
PCB_14	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_15	0.0000000124	-.0000000318	-.0000000032	0.0000002969	0.0000000043
PCB_16	0.0000000454	0.0000001426	0.0000000003	0.0000001961	0.0000000061
PCB_17	0.0000003349	0.0000017794	-.0000000078	0.0000016372	0.0000000370
PCB_19	0.0000001711	0.0000008373	-.0000000020	0.0000006382	0.0000000161
PCB_22	0.0000000527	0.0000002278	-.0000000008	0.0000004901	0.0000000151
PCB_23	0.0000000001	0.0000000012	0.0000000001	-.0000000016	0.0000000000
PCB_24	-.0000000089	0.0000000131	-.0000000000	-.0000000349	-.0000000009
PCB_25	0.0000003214	0.0000009203	-.0000000142	0.0000027198	0.0000000653
PCB_27	0.0000004791	0.0000009027	-.0000000268	0.0000043497	0.0000001054
PCB_31	0.0000002544	0.0000007815	-.0000000134	0.0000027019	0.0000000690
PCB_32	0.0000002793	0.0000011514	-.0000000124	0.0000022903	0.0000000559
PCB_34	0.0000000076	0.0000000106	-.0000000004	0.0000000720	0.0000000016
PCB_35	-.0000000005	-.0000000008	0.0000000000	-.0000000070	-.0000000002
PCB_36	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_37	0.0000000001	0.0000000068	-.0000000006	0.0000001457	0.0000000033
PCB_38	0.0000000027	0.0000000140	0.0000000001	0.0000000126	0.0000000004
PCB_39	0.0000000006	0.0000000069	0.0000000001	0.0000000019	0.0000000001
PCB_42	0.0000003363	0.0000017283	0.0000000026	0.0000014930	0.0000000490
PCB_43	0.0000000580	0.0000000121	-.0000000002	0.0000003726	0.0000000116
PCB_46	0.0000000556	0.0000001872	0.0000000012	0.0000001762	0.0000000066
PCB_48	0.0000000134	0.0000001265	0.0000000029	-.0000000342	0.0000000031
PCB_52	0.0000051568	0.0000212460	-.0000000868	0.0000278260	0.0000006950
PCB_54	0.0000000353	0.0000001720	-.0000000006	0.0000001457	0.0000000032
PCB_55	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_56	-.0000000159	0.0000004711	0.0000000136	-.0000006998	-.0000000049
PCB_57	0.0000001473	0.0000001336	-.0000000068	0.0000011559	0.0000000238
PCB_58	0.0000000346	0.0000000500	-.0000000012	0.0000002622	0.0000000060
PCB_60	-.0000000505	-.0000000116	0.0000000091	-.0000006106	-.0000000073

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_1	0.0000002191	0.0000000018	0.0000002966	0.0000000113	0.0000000006
PCB_2	-.0000000031	-.0000000001	-.0000000108	-.0000000005	-.0000000000
PCB_3	-.0000000035	-.0000000001	0.0000000403	0.0000000001	0.0000000000
PCB_4	0.0000061150	0.0000000678	0.0000021101	0.0000002897	0.0000000122
PCB_5	0.0000000153	0.0000000001	-.0000000114	0.0000000003	0.0000000000
PCB_6	0.0000002218	0.0000000025	0.0000008132	0.0000000225	0.0000000008
PCB_7	0.0000000755	0.0000000007	0.0000000982	0.0000000047	0.0000000002
PCB_8	0.0000003088	0.0000000002	0.0000024433	0.0000000499	0.0000000024
PCB_9	0.0000000884	0.0000000009	0.0000001397	0.0000000058	0.0000000002
PCB_10	0.0000005273	0.0000000053	0.0000001275	0.0000000234	0.0000000011
PCB_11	-.0000001260	-.0000000016	-.0000000757	-.0000000087	-.0000000004
PCB_14	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_15	-.0000001288	-.0000000016	0.0000008741	0.0000000075	0.0000000003
PCB_16	0.0000006117	0.0000000087	0.0000002300	0.0000000300	0.0000000009
PCB_17	0.0000090170	0.0000000991	0.0000022278	0.0000004093	0.0000000169
PCB_19	0.0000040075	0.0000000493	0.0000007001	0.0000001855	0.0000000073
PCB_22	0.0000012284	0.0000000117	0.0000006615	0.0000000550	0.0000000021
PCB_23	0.0000000053	0.0000000001	-.0000000081	-.0000000000	-.0000000000
PCB_24	0.0000001221	0.0000000007	-.0000000794	0.0000000021	0.0000000001
PCB_25	0.0000048266	0.0000000531	0.0000050422	0.0000002783	0.0000000102
PCB_27	0.0000044794	0.0000000600	0.0000086056	0.0000003539	0.0000000121
PCB_31	0.0000044051	0.0000000419	0.0000048729	0.0000002450	0.0000000093
PCB_32	0.0000062697	0.0000000646	0.0000038453	0.0000003135	0.0000000123
PCB_34	0.0000000486	0.0000000007	0.0000001561	0.0000000046	0.0000000001
PCB_35	-.0000000018	-.0000000001	-.0000000144	-.0000000004	-.0000000000
PCB_36	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_37	0.0000000577	-.0000000003	0.0000003602	0.0000000022	0.0000000001
PCB_38	0.0000000728	0.0000000007	0.0000000071	0.0000000027	0.0000000001
PCB_39	0.0000000342	0.0000000003	-.0000000053	0.0000000011	0.0000000000
PCB_42	0.0000085751	0.0000000956	0.0000009688	0.0000003584	0.0000000139
PCB_43	-.0000002128	0.0000000032	0.0000006905	0.0000000082	-.0000000003
PCB_46	0.0000008128	0.0000000116	0.0000000703	0.0000000364	0.0000000011
PCB_48	0.0000005735	0.0000000064	-.0000004056	0.0000000126	0.0000000004
PCB_52	0.0001024239	0.0000012231	0.0000422107	0.0000049297	0.0000001885
PCB_54	0.0000008697	0.0000000100	0.0000001807	0.0000000396	0.0000000016
PCB_55	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_56	0.0000022373	0.0000000218	-.0000025564	0.0000000246	0.0000000012
PCB_57	0.0000005692	0.0000000102	0.0000025476	0.0000000703	0.0000000019
PCB_58	0.0000002102	0.0000000034	0.0000005376	0.0000000183	0.0000000005
PCB_60	-.0000001337	-.0000000034	-.0000017644	-.0000000489	-.0000000020

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_1	0.0000000471	-.0000000001	0.0000000323	0.0000000012	-.0000000001
PCB_2	-.0000000030	0.0000000000	-.0000000014	-.0000000000	0.0000000000
PCB_3	0.0000000099	-.0000000000	0.0000000042	0.0000000002	-.0000000000
PCB_4	-.0000003287	-.0000000019	0.0000002175	0.0000000147	-.0000000019
PCB_5	-.0000000029	-.0000000000	-.0000000012	-.0000000001	-.0000000000
PCB_6	0.0000000778	-.0000000001	0.0000000762	0.0000000048	-.0000000001
PCB_7	0.0000000108	-.0000000000	0.0000000099	0.0000000005	-.0000000000
PCB_8	0.0000004880	-.0000000005	0.0000002533	0.0000000114	-.0000000005
PCB_9	0.0000000129	-.0000000000	0.0000000136	0.0000000008	-.0000000000
PCB_10	-.0000000176	-.0000000002	0.0000000154	0.0000000008	-.0000000002
PCB_11	-.0000000207	0.0000000001	-.0000000134	-.0000000002	0.0000000001
PCB_14	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_15	0.0000001818	-.0000000001	0.0000000894	0.0000000039	-.0000000001
PCB_16	-.0000001352	-.0000000001	0.0000000113	0.0000000028	-.0000000001
PCB_17	-.0000008910	-.0000000024	0.0000001775	0.0000000217	-.0000000024
PCB_19	-.0000004843	-.0000000011	0.0000000662	0.0000000079	-.0000000011
PCB_22	-.0000002676	-.0000000002	0.0000000310	0.0000000076	-.0000000002
PCB_23	-.0000000043	0.0000000000	-.0000000012	-.0000000000	0.0000000000
PCB_24	-.0000000400	-.0000000000	-.0000000048	-.0000000003	-.0000000000
PCB_25	-.0000003798	-.0000000014	0.0000004035	0.0000000389	-.0000000014
PCB_27	0.0000000098	-.0000000020	0.0000007759	0.0000000595	-.0000000020
PCB_31	-.0000004848	-.0000000012	0.0000003660	0.0000000398	-.0000000012
PCB_32	-.0000007088	-.0000000017	0.0000003008	0.0000000332	-.0000000017
PCB_34	0.0000000071	-.0000000000	0.0000000138	0.0000000010	-.0000000000
PCB_35	-.0000000018	0.0000000000	-.0000000016	-.0000000001	0.0000000000
PCB_36	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_37	0.0000000005	0.0000000000	0.0000000285	0.0000000023	0.0000000000
PCB_38	-.0000000162	-.0000000000	-.0000000011	0.0000000002	-.0000000000
PCB_39	-.0000000089	-.0000000000	-.0000000011	0.0000000000	-.0000000000
PCB_42	-.0000016698	-.0000000016	-.0000000202	0.0000000227	-.0000000016
PCB_43	-.0000000363	0.0000000000	0.0000000599	0.0000000051	0.0000000000
PCB_46	-.0000002319	-.0000000001	-.0000000085	0.0000000027	-.0000000001
PCB_48	-.0000002794	0.0000000000	-.0000000586	0.0000000001	0.0000000000
PCB_52	-.0000121727	-.0000000257	0.0000032532	0.0000003825	-.0000000257
PCB_54	-.0000001022	-.0000000002	0.0000000139	0.0000000020	-.0000000002
PCB_55	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_56	-.0000010491	0.0000000002	-.0000003066	-.0000000074	0.0000000002
PCB_57	0.0000001721	-.0000000003	0.0000002150	0.0000000163	-.0000000003
PCB_58	0.0000000065	-.0000000001	0.0000000444	0.0000000037	-.0000000001
PCB_60	-.0000004704	0.0000000005	-.0000002092	-.0000000068	0.0000000005

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_1	0.0000000042	0.0000003340	0.0000000048	0.0000000005	0.0000000000
PCB_2	-.0000000003	-.0000000100	-.0000000001	-.0000000000	0.0000000000
PCB_3	0.0000000007	0.0000000552	0.0000000006	0.0000000001	0.0000000001
PCB_4	-.0000000254	0.0000001236	0.0000000517	0.0000000057	-.0000000245
PCB_5	-.0000000001	-.0000000122	-.0000000002	-.0000000000	-.0000000000
PCB_6	0.0000000002	0.0000006699	0.0000000163	0.0000000016	-.0000000012
PCB_7	0.0000000006	0.0000000788	0.0000000018	0.0000000002	-.0000000002
PCB_8	0.0000000344	0.0000025745	0.0000000401	0.0000000040	0.0000000016
PCB_9	0.0000000004	0.0000001114	0.0000000027	0.0000000003	-.0000000003
PCB_10	0.0000000003	0.0000000064	0.0000000026	0.0000000003	-.0000000016
PCB_11	-.0000000038	-.0000000339	-.0000000006	-.0000000001	0.0000000004
PCB_14	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_15	0.0000000111	0.0000009913	0.0000000147	0.0000000013	0.0000000010
PCB_16	-.0000000176	-.0000001475	0.0000000092	0.0000000009	-.0000000038
PCB_17	-.0000000864	-.0000011398	0.0000000700	0.0000000082	-.0000000371
PCB_19	-.0000000421	-.0000009353	0.0000000262	0.0000000031	-.0000000185
PCB_22	-.0000000380	-.0000000943	0.0000000223	0.0000000025	-.0000000062
PCB_23	-.0000000005	-.0000000124	-.0000000000	-.0000000000	-.0000000000
PCB_24	-.0000000021	-.0000001229	-.0000000012	-.0000000001	-.0000000007
PCB_25	-.0000000935	0.0000021518	0.0000001255	0.0000000130	-.0000000264
PCB_27	-.0000000839	0.0000048263	0.0000001933	0.0000000198	-.0000000314
PCB_31	-.0000001081	0.0000020525	0.0000001238	0.0000000131	-.0000000231
PCB_32	-.0000001051	0.0000005698	0.0000001045	0.0000000113	-.0000000316
PCB_34	-.0000000010	0.0000001155	0.0000000034	0.0000000003	-.0000000003
PCB_35	-.0000000001	-.0000000119	-.0000000002	-.0000000000	-.0000000000
PCB_36	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_37	-.0000000049	0.0000003768	0.0000000080	0.0000000007	0.0000000002
PCB_38	-.0000000020	-.0000000283	0.0000000007	0.0000000001	-.0000000004
PCB_39	-.0000000009	-.0000000180	0.0000000001	0.0000000000	-.0000000001
PCB_42	-.0000001800	-.0000031703	0.0000000661	0.0000000079	-.0000000414
PCB_43	-.0000000152	0.0000004199	0.0000000171	0.0000000016	-.0000000019
PCB_46	-.0000000269	-.0000004774	0.0000000085	0.0000000009	-.0000000056
PCB_48	-.0000000282	-.0000007546	-.0000000014	-.0000000000	-.0000000031
PCB_52	-.0000015133	-.0000032895	0.0000012579	0.0000001347	-.0000004817
PCB_54	-.0000000100	-.0000001829	0.0000000066	0.0000000007	-.0000000042
PCB_55	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_56	-.0000000909	-.0000033624	-.0000000296	-.0000000025	-.0000000088
PCB_57	-.0000000159	0.0000018831	0.0000000565	0.0000000052	-.0000000063
PCB_58	-.0000000064	0.0000003481	0.0000000125	0.0000000012	-.0000000017
PCB_60	-.0000000429	-.0000017702	-.0000000255	-.0000000025	0.0000000003

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_1	-.0000000002	-.0000000014	-.0000000003	-.0000000275	-.0000000017
PCB_2	-.0000000002	0.0000000000	-.0000000000	0.0000000005	0.0000000000
PCB_3	0.0000000001	-.0000000001	0.0000000000	0.0000000006	-.0000000001
PCB_4	0.0000000049	-.0000000187	-.0000000097	-.0000007745	-.0000000389
PCB_5	-.0000000000	-.0000000000	-.0000000000	-.0000000021	-.0000000000
PCB_6	0.0000000035	-.0000000010	-.0000000004	-.0000000188	-.0000000030
PCB_7	0.0000000006	-.0000000004	-.0000000001	-.0000000090	-.0000000006
PCB_8	0.0000000158	-.0000000053	0.0000000005	-.0000000267	-.0000000077
PCB_9	0.0000000007	-.0000000004	-.0000000001	-.0000000100	-.0000000008
PCB_10	0.0000000006	-.0000000019	-.0000000008	-.0000000679	-.0000000030
PCB_11	-.0000000014	0.0000000007	0.0000000001	0.0000000183	0.0000000009
PCB_14	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_15	0.0000000036	-.0000000010	0.0000000004	0.0000000201	-.0000000018
PCB_16	-.0000000017	-.0000000004	-.0000000016	-.0000000676	-.0000000023
PCB_17	0.0000000100	-.0000000234	-.0000000161	-.0000011005	-.0000000465
PCB_19	-.0000000030	-.0000000092	-.0000000076	-.0000005012	-.0000000204
PCB_22	-.0000000046	-.0000000008	-.0000000030	-.0000001196	-.0000000052
PCB_23	-.0000000001	0.0000000000	-.0000000000	-.0000000005	0.0000000000
PCB_24	-.0000000052	0.0000000000	-.0000000001	-.0000000176	-.0000000019
PCB_25	0.0000000122	-.0000000086	-.0000000101	-.0000004996	-.0000000321
PCB_27	0.0000000275	-.0000000069	-.0000000103	-.0000004232	-.0000000369
PCB_31	0.0000000030	-.0000000058	-.0000000097	-.0000004190	-.0000000275
PCB_32	-.0000000052	-.0000000114	-.0000000118	-.0000007002	-.0000000416
PCB_34	0.0000000005	-.0000000001	-.0000000001	-.0000000037	-.0000000005
PCB_35	-.0000000001	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_36	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_37	-.0000000041	-.0000000000	-.0000000003	0.0000000024	-.0000000004
PCB_38	-.0000000002	-.0000000001	-.0000000002	-.0000000080	-.0000000003
PCB_39	-.0000000003	-.0000000000	-.0000000001	-.0000000039	-.0000000001
PCB_42	-.0000000228	-.0000000122	-.0000000184	-.0000009880	-.0000000363
PCB_43	-.0000000027	0.0000000024	-.0000000008	0.0000000423	0.0000000022
PCB_46	-.0000000046	-.0000000000	-.0000000022	-.0000000919	-.0000000033
PCB_48	-.0000000090	0.0000000008	-.0000000018	-.0000000590	0.0000000002
PCB_52	-.0000000095	-.0000002168	-.0000002103	-.0000120110	-.0000005094
PCB_54	-.0000000003	-.0000000020	-.0000000015	-.0000001078	-.0000000053
PCB_55	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_56	-.0000000404	0.0000000009	-.0000000062	-.0000002576	0.0000000007
PCB_57	0.0000000184	-.0000000014	-.0000000015	-.0000000363	-.0000000081
PCB_58	0.0000000026	-.0000000003	-.0000000006	-.0000000171	-.0000000016
PCB_60	-.0000000200	0.0000000044	-.0000000011	0.0000000307	0.0000000080

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_1	-.0000000590	-.0000000059	-.0000000276	0.0000000058	-.0000000952
PCB_2	0.0000000024	0.0000000001	0.0000000005	-.0000000013	0.0000000026
PCB_3	-.0000000039	0.0000000003	-.0000000041	0.0000000014	-.0000000026
PCB_4	-.0000009570	-.0000001792	-.0000001574	-.0000000292	-.0000020413
PCB_5	-.0000000002	-.0000000007	0.0000000008	-.0000000009	-.0000000029
PCB_6	-.0000001051	0.0000000035	-.0000000641	0.0000000064	-.0000001512
PCB_7	-.0000000201	-.0000000016	-.0000000076	0.0000000025	-.0000000328
PCB_8	-.0000003321	0.0000000087	-.0000001944	0.0000001058	-.0000003566
PCB_9	-.0000000250	-.0000000014	-.0000000109	0.0000000017	-.0000000409
PCB_10	-.0000000810	-.0000000172	-.0000000081	-.0000000004	-.0000001725
PCB_11	0.0000000374	0.0000000052	-.0000000002	-.0000000163	0.0000000556
PCB_14	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_15	-.0000000833	0.0000000114	-.0000000770	0.0000000383	-.0000000494
PCB_16	-.0000000626	-.0000000121	-.0000000115	-.0000000556	-.0000002053
PCB_17	-.0000011928	-.0000002545	-.0000001144	-.0000002781	-.0000029162
PCB_19	-.0000005176	-.0000001185	-.0000000227	-.0000001068	-.0000012892
PCB_22	-.0000001349	-.0000000151	-.0000000396	-.0000001483	-.0000004413
PCB_23	0.0000000012	-.0000000001	0.0000000005	-.0000000018	-.0000000005
PCB_24	-.0000000117	-.0000000033	-.0000000027	0.0000000012	-.0000000311
PCB_25	-.0000009039	-.0000000558	-.0000003607	-.0000002815	-.0000019656
PCB_27	-.0000012878	-.0000000000	-.0000005737	-.0000001675	-.0000023539
PCB_31	-.0000007927	-.0000000305	-.0000003435	-.0000003882	-.0000018441
PCB_32	-.0000009857	-.0000001134	-.0000002817	-.0000003011	-.0000022880
PCB_34	-.0000000183	0.0000000008	-.0000000117	-.0000000028	-.0000000308
PCB_35	0.0000000019	-.0000000000	0.0000000004	0.0000000001	0.0000000030
PCB_36	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_37	-.0000000200	0.0000000054	-.0000000370	-.0000000336	-.0000000513
PCB_38	-.0000000052	-.0000000016	-.0000000007	-.0000000071	-.0000000211
PCB_39	-.0000000016	-.0000000009	0.0000000005	-.0000000039	-.0000000095
PCB_42	-.0000008159	-.0000002109	-.0000000119	-.0000006270	-.0000026591
PCB_43	-.0000000102	0.0000000206	-.0000000408	-.0000000419	-.0000000271
PCB_46	-.0000000596	-.0000000172	0.0000000005	-.0000000772	-.0000002478
PCB_48	0.0000000298	-.0000000134	0.0000000377	-.0000001146	-.0000001303
PCB_52	-.0000138936	-.0000024790	-.0000025844	-.0000049093	-.0000349270
PCB_54	-.0000001130	-.0000000241	-.0000000128	-.0000000213	-.0000002749
PCB_55	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_56	0.0000001828	-.0000000745	0.0000001927	-.0000003981	-.0000003777
PCB_57	-.0000002684	0.0000000201	-.0000002011	-.0000000097	-.0000003959
PCB_58	-.0000000616	0.0000000021	-.0000000398	-.0000000161	-.0000001143
PCB_60	0.0000003019	0.0000000002	0.0000001274	-.0000001983	0.0000002487

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_1	-.0000000001	-.0000000301	-.0000000001	-.0000001356	-.0000000001
PCB_2	0.0000000000	0.0000000006	0.0000000000	0.0000000041	-.0000000000
PCB_3	-.0000000000	-.0000000019	-.0000000000	-.0000000053	0.0000000000
PCB_4	-.0000000019	-.0000004886	-.0000000017	-.0000026626	-.0000000067
PCB_5	-.0000000000	-.0000000004	-.0000000000	-.0000000034	-.0000000000
PCB_6	-.0000000001	-.0000000530	-.0000000001	-.0000002193	0.0000000006
PCB_7	-.0000000000	-.0000000093	-.0000000000	-.0000000448	-.0000000000
PCB_8	-.0000000005	-.0000001355	-.0000000002	-.0000005334	0.0000000019
PCB_9	-.0000000000	-.0000000122	-.0000000000	-.0000000569	0.0000000000
PCB_10	-.0000000002	-.0000000394	-.0000000001	-.0000002202	-.0000000006
PCB_11	0.0000000001	0.0000000110	0.0000000000	0.0000000755	0.0000000001
PCB_14	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_15	-.0000000001	-.0000000355	-.0000000000	-.0000001076	0.0000000009
PCB_16	-.0000000001	-.0000000497	-.0000000001	-.0000002823	-.0000000005
PCB_17	-.0000000024	-.0000006614	-.0000000019	-.0000037292	-.0000000098
PCB_19	-.0000000011	-.0000002869	-.0000000009	-.0000016983	-.0000000049
PCB_22	-.0000000002	-.0000001112	0.0000000000	-.0000005094	-.0000000003
PCB_23	0.0000000000	0.0000000000	0.0000000000	0.0000000002	-.0000000000
PCB_24	-.0000000000	-.0000000095	-.0000000001	-.0000000156	-.0000000002
PCB_25	-.0000000014	-.0000005418	-.0000000007	-.0000025430	0.0000000002
PCB_27	-.0000000020	-.0000006926	-.0000000006	-.0000032395	0.0000000046
PCB_31	-.0000000012	-.0000005138	-.0000000003	-.0000022547	0.0000000015
PCB_32	-.0000000017	-.0000005891	-.0000000011	-.0000028037	-.0000000028
PCB_34	-.0000000000	-.0000000105	-.0000000000	-.0000000460	0.0000000001
PCB_35	0.0000000000	0.0000000007	-.0000000000	0.0000000049	-.0000000000
PCB_36	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_37	0.0000000000	-.0000000261	0.0000000001	-.0000000664	0.0000000003
PCB_38	-.0000000000	-.0000000049	-.0000000000	-.0000000244	-.0000000001
PCB_39	-.0000000000	-.0000000021	-.0000000000	-.0000000110	-.0000000000
PCB_42	-.0000000016	-.0000005889	-.0000000011	-.0000032488	-.0000000089
PCB_43	0.0000000000	-.0000000232	0.0000000002	-.0000001179	0.0000000010
PCB_46	-.0000000001	-.0000000560	-.0000000001	-.0000003247	-.0000000009
PCB_48	0.0000000000	-.0000000201	0.0000000001	-.0000001271	-.0000000009
PCB_52	-.0000000257	-.0000084461	-.0000000182	-.0000461502	-.0000000921
PCB_54	-.0000000002	-.0000000634	-.0000000002	-.0000003496	-.0000000010
PCB_55	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_56	0.0000000002	-.0000000362	0.0000000002	-.0000002951	-.0000000050
PCB_57	-.0000000003	-.0000001469	-.0000000002	-.0000006383	0.0000000019
PCB_58	-.0000000001	-.0000000375	-.0000000000	-.0000001746	0.0000000003
PCB_60	0.0000000005	0.0000000865	0.0000000004	0.0000004300	-.0000000012

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_1	-.0000000000	-.0000000001	-.0000000031	-.0000000001	-.0000000318
PCB_2	-.0000000000	-.0000000000	-.0000000000	0.0000000000	-.0000000000
PCB_3	-.0000000000	-.0000000000	0.0000000002	-.0000000000	0.0000000012
PCB_4	0.0000000034	0.0000000005	-.0000000930	-.0000000020	-.0000009612
PCB_5	0.0000000000	-.0000000000	-.0000000004	-.0000000000	-.0000000024
PCB_6	-.0000000001	0.0000000001	0.0000000022	-.0000000001	-.0000000446
PCB_7	0.0000000000	-.0000000000	-.0000000007	-.0000000000	-.0000000109
PCB_8	-.0000000006	-.0000000004	0.0000000096	-.0000000003	-.0000000103
PCB_9	0.0000000000	0.0000000000	-.0000000006	-.0000000000	-.0000000143
PCB_10	0.0000000003	-.0000000000	-.0000000087	-.0000000002	-.0000000791
PCB_11	-.0000000002	-.0000000001	0.0000000018	0.0000000001	0.0000000131
PCB_14	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_15	-.0000000005	-.0000000002	0.0000000071	-.0000000000	0.0000000301
PCB_16	0.0000000003	0.0000000005	-.0000000082	-.0000000001	-.0000001399
PCB_17	0.0000000058	0.0000000020	-.0000001360	-.0000000026	-.0000015540
PCB_19	0.0000000027	0.0000000012	-.0000000642	-.0000000012	-.0000007038
PCB_22	0.0000000007	0.0000000008	-.0000000134	-.0000000002	-.0000002952
PCB_23	0.0000000000	0.0000000000	-.0000000001	0.0000000000	-.0000000018
PCB_24	0.0000000000	-.0000000001	-.0000000032	-.0000000000	-.0000000174
PCB_25	0.0000000018	0.0000000026	-.0000000373	-.0000000012	-.0000010076
PCB_27	0.0000000015	0.0000000047	-.0000000036	-.0000000013	-.0000010362
PCB_31	0.0000000017	0.0000000027	-.0000000294	-.0000000008	-.0000010064
PCB_32	0.0000000031	0.0000000022	-.0000000716	-.0000000016	-.0000012088
PCB_34	-.0000000000	0.0000000001	0.0000000004	-.0000000000	-.0000000128
PCB_35	-.0000000000	-.0000000000	-.0000000001	0.0000000000	0.0000000010
PCB_36	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_37	-.0000000002	-.0000000001	0.0000000005	0.0000000000	-.0000000362
PCB_38	0.0000000000	0.0000000000	-.0000000011	-.0000000000	-.0000000150
PCB_39	0.0000000000	0.0000000000	-.0000000006	-.0000000000	-.0000000076
PCB_42	0.0000000058	0.0000000036	-.0000001308	-.0000000019	-.0000017257
PCB_43	-.0000000003	0.0000000008	0.0000000087	0.0000000001	-.0000000400
PCB_46	0.0000000005	0.0000000006	-.0000000121	-.0000000001	-.0000001845
PCB_48	0.0000000005	0.0000000005	-.0000000118	-.0000000000	-.0000001591
PCB_52	0.0000000574	0.0000000385	-.0000014204	-.0000000268	-.0000196174
PCB_54	0.0000000005	0.0000000002	-.0000000132	-.0000000003	-.0000001466
PCB_55	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_56	0.0000000019	0.0000000006	-.0000000568	-.0000000001	-.0000005443
PCB_57	-.0000000007	0.0000000007	0.0000000124	-.0000000002	-.0000001349
PCB_58	-.0000000001	0.0000000002	0.0000000009	-.0000000000	-.0000000542
PCB_60	0.0000000002	0.0000000001	-.0000000090	0.0000000004	-.0000000704

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_1	-.0000000004	-.0000000001	-.0000000001	-.0000000009	-.0000000562
PCB_2	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000016
PCB_3	-.0000000001	-.0000000000	-.0000000000	0.0000000000	-.0000000027
PCB_4	0.0000000047	-.0000000019	-.0000000019	-.0000000216	-.0000010801
PCB_5	0.0000000000	-.0000000000	-.0000000000	-.0000000001	-.0000000010
PCB_6	-.0000000001	-.0000000001	-.0000000001	0.0000000002	-.0000001041
PCB_7	-.0000000000	-.0000000000	-.0000000000	-.0000000002	-.0000000192
PCB_8	-.0000000031	-.0000000005	-.0000000005	-.0000000012	-.0000002483
PCB_9	-.0000000000	-.0000000000	-.0000000000	-.0000000002	-.0000000249
PCB_10	0.0000000001	-.0000000002	-.0000000002	-.0000000024	-.0000000856
PCB_11	-.0000000001	0.0000000001	0.0000000001	0.0000000011	0.0000000283
PCB_14	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_15	-.0000000008	-.0000000001	-.0000000001	0.0000000014	-.0000000604
PCB_16	0.0000000021	-.0000000001	-.0000000001	-.0000000005	-.0000001175
PCB_17	0.0000000093	-.0000000024	-.0000000024	-.0000000308	-.0000014853
PCB_19	0.0000000071	-.0000000011	-.0000000011	-.0000000130	-.0000006740
PCB_22	0.0000000006	-.0000000002	-.0000000002	-.0000000034	-.0000002140
PCB_23	0.0000000000	0.0000000000	0.0000000000	-.0000000000	0.0000000001
PCB_24	-.0000000006	-.0000000000	-.0000000000	-.0000000010	-.0000000087
PCB_25	0.0000000046	-.0000000014	-.0000000014	-.0000000088	-.0000011171
PCB_27	0.0000000094	-.0000000020	-.0000000020	-.0000000045	-.0000014641
PCB_31	0.0000000007	-.0000000012	-.0000000012	-.0000000103	-.0000009940
PCB_32	0.0000000028	-.0000000017	-.0000000017	-.0000000190	-.0000011989
PCB_34	0.0000000001	-.0000000000	-.0000000000	0.0000000001	-.0000000216
PCB_35	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000018
PCB_36	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_37	-.0000000007	0.0000000000	0.0000000000	0.0000000004	-.0000000333
PCB_38	0.0000000001	-.0000000000	-.0000000000	-.0000000002	-.0000000100
PCB_39	0.0000000000	-.0000000000	-.0000000000	-.0000000001	-.0000000041
PCB_42	0.0000000119	-.0000000016	-.0000000016	-.0000000259	-.0000012943
PCB_43	0.0000000033	0.0000000000	0.0000000000	0.0000000040	-.0000000641
PCB_46	0.0000000028	-.0000000001	-.0000000001	-.0000000009	-.0000001352
PCB_48	0.0000000013	0.0000000000	0.0000000000	-.0000000016	-.0000000414
PCB_52	0.0000001681	-.0000000257	-.0000000257	-.0000002596	-.0000188741
PCB_54	0.0000000010	-.0000000002	-.0000000002	-.0000000027	-.0000001429
PCB_55	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_56	0.0000000027	0.0000000002	0.0000000002	-.0000000086	-.0000000599
PCB_57	0.0000000027	-.0000000003	-.0000000003	0.0000000057	-.0000003206
PCB_58	0.0000000009	-.0000000001	-.0000000001	0.0000000009	-.0000000820
PCB_60	0.0000000003	0.0000000005	0.0000000005	0.0000000007	0.0000002012

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_1	0.0000000003	-.0000000128	-.0000000011	-.0000001225	-.0000000406
PCB_2	-.0000000000	0.0000000003	0.0000000000	0.0000000038	0.0000000013
PCB_3	0.0000000001	0.0000000013	-.0000000001	-.0000000051	-.0000000022
PCB_4	0.0000000029	-.0000005231	-.0000000173	-.0000024346	-.0000007184
PCB_5	-.0000000000	-.0000000012	-.0000000000	-.0000000025	-.0000000007
PCB_6	0.0000000021	-.0000000187	-.0000000017	-.0000002137	-.0000000658
PCB_7	0.0000000002	-.0000000056	-.0000000003	-.0000000422	-.0000000133
PCB_8	0.0000000050	0.0000000017	-.0000000054	-.0000005295	-.0000001886
PCB_9	0.0000000003	-.0000000070	-.0000000004	-.0000000535	-.0000000166
PCB_10	-.0000000000	-.0000000430	-.0000000015	-.0000001985	-.0000000602
PCB_11	0.0000000000	0.0000000122	0.0000000006	0.0000000693	0.0000000231
PCB_14	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_15	0.0000000018	0.0000000203	-.0000000014	-.0000001141	-.0000000441
PCB_16	0.0000000009	-.0000000679	-.0000000012	-.0000002419	-.0000000594
PCB_17	0.0000000041	-.0000008106	-.0000000215	-.0000033300	-.0000009412
PCB_19	0.0000000008	-.0000003823	-.0000000096	-.0000015029	-.0000004193
PCB_22	0.0000000033	-.0000001256	-.0000000022	-.0000004593	-.0000001124
PCB_23	-.0000000000	-.0000000006	0.0000000000	0.0000000004	0.0000000004
PCB_24	0.0000000001	-.0000000086	-.0000000002	-.0000000291	-.0000000083
PCB_25	0.0000000163	-.0000004683	-.0000000149	-.0000023697	-.0000006541
PCB_27	0.0000000262	-.0000005061	-.0000000204	-.0000030506	-.0000008612
PCB_31	0.0000000179	-.0000004329	-.0000000126	-.0000021148	-.0000005688
PCB_32	0.0000000139	-.0000005840	-.0000000166	-.0000026384	-.0000007288
PCB_34	0.0000000004	-.0000000053	-.0000000003	-.0000000429	-.0000000123
PCB_35	-.0000000000	0.0000000006	0.0000000000	0.0000000038	0.0000000011
PCB_36	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_37	0.0000000011	-.0000000030	-.0000000004	-.0000000597	-.0000000159
PCB_38	0.0000000001	-.0000000067	-.0000000001	-.0000000218	-.0000000053
PCB_39	0.0000000000	-.0000000033	-.0000000000	-.0000000090	-.0000000021
PCB_42	0.0000000062	-.0000008399	-.0000000149	-.0000028570	-.0000007300
PCB_43	0.0000000022	-.0000000138	-.0000000001	-.0000000866	-.0000000125
PCB_46	0.0000000008	-.0000000917	-.0000000012	-.0000002817	-.0000000646
PCB_48	-.0000000001	-.0000000672	0.0000000003	-.0000000880	-.0000000052
PCB_52	0.0000001075	-.0000098201	-.0000002507	-.0000408887	-.0000112111
PCB_54	0.0000000005	-.0000000786	-.0000000020	-.0000003203	-.0000000897
PCB_55	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_56	-.0000000044	-.0000002270	0.0000000020	-.0000001591	0.0000000192
PCB_57	0.0000000070	-.0000000584	-.0000000042	-.0000006155	-.0000001773
PCB_58	0.0000000015	-.0000000238	-.0000000010	-.0000001601	-.0000000440
PCB_60	-.0000000028	-.0000000026	0.0000000048	0.0000004431	0.0000001651

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_1	-.0000001898	-.0000000100	-.0000000189	-.0000001327	-.0000000681
PCB_2	0.0000000062	0.0000000003	0.0000000006	0.0000000043	0.0000000023
PCB_3	-.0000000129	-.0000000005	-.0000000013	-.0000000076	-.0000000039
PCB_4	-.0000029758	-.0000001759	-.0000002959	-.0000022678	-.0000011536
PCB_5	-.0000000016	-.0000000002	-.0000000002	-.0000000023	-.0000000011
PCB_6	-.0000003231	-.0000000150	-.0000000301	-.0000001980	-.0000001004
PCB_7	-.0000000606	-.0000000032	-.0000000059	-.0000000421	-.0000000215
PCB_8	-.0000009604	-.0000000444	-.0000000907	-.0000006001	-.0000003107
PCB_9	-.0000000766	-.0000000039	-.0000000073	-.0000000516	-.0000000263
PCB_10	-.0000002463	-.0000000150	-.0000000246	-.0000001924	-.0000000987
PCB_11	0.0000000969	0.0000000058	0.0000000091	0.0000000740	0.0000000391
PCB_14	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_15	-.0000002564	-.0000000100	-.0000000241	-.0000001424	-.0000000728
PCB_16	-.0000002358	-.0000000135	-.0000000220	-.0000001674	-.0000000826
PCB_17	-.0000037745	-.0000002278	-.0000003702	-.0000028958	-.0000014701
PCB_19	-.0000016626	-.0000001019	-.0000001631	-.0000012914	-.0000006548
PCB_22	-.0000004557	-.0000000256	-.0000000422	-.0000003013	-.0000001504
PCB_23	0.0000000027	0.0000000001	0.0000000002	0.0000000017	0.0000000010
PCB_24	-.0000000327	-.0000000027	-.0000000047	-.0000000304	-.0000000151
PCB_25	-.0000028724	-.0000001503	-.0000002699	-.0000019048	-.0000009586
PCB_27	-.0000039516	-.0000001948	-.0000003600	-.0000024788	-.0000012562
PCB_31	-.0000025062	-.0000001296	-.0000002328	-.0000016036	-.0000008074
PCB_32	-.0000030782	-.0000001727	-.0000002975	-.0000021640	-.0000010923
PCB_34	-.0000000596	-.0000000027	-.0000000054	-.0000000356	-.0000000179
PCB_35	0.0000000053	0.0000000003	0.0000000004	0.0000000031	0.0000000017
PCB_36	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_37	-.0000000930	-.0000000035	-.0000000090	-.0000000423	-.0000000204
PCB_38	-.0000000196	-.0000000012	-.0000000019	-.0000000149	-.0000000073
PCB_39	-.0000000071	-.0000000005	-.0000000007	-.0000000058	-.0000000029
PCB_42	-.0000027726	-.0000001738	-.0000002696	-.0000021257	-.0000010656
PCB_43	-.0000000901	-.0000000007	-.0000000044	-.0000000044	0.0000000007
PCB_46	-.0000002377	-.0000000147	-.0000000226	-.0000001781	-.0000000866
PCB_48	0.0000000358	-.0000000010	0.0000000035	0.0000000098	0.0000000078
PCB_52	-.0000459192	-.0000026566	-.0000044280	-.0000336738	-.0000169787
PCB_54	-.0000003593	-.0000000218	-.0000000358	-.0000002777	-.0000001401
PCB_55	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_56	0.0000003396	0.0000000025	0.0000000265	0.0000001089	0.0000000653
PCB_57	-.0000008810	-.0000000377	-.0000000800	-.0000005154	-.0000002548
PCB_58	-.0000002085	-.0000000095	-.0000000188	-.0000001250	-.0000000620
PCB_60	0.0000008175	0.0000000395	0.0000000771	0.0000005441	0.0000002831

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_1	-.0000000840	-.0000000009	0.0000000003	-.0000000003	-.0000000001
PCB_2	0.0000000027	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_3	-.0000000057	0.0000000000	0.0000000001	-.0000000000	-.0000000000
PCB_4	-.0000012954	-.0000000271	-.0000000005	-.0000000049	-.0000000016
PCB_5	-.0000000009	-.0000000001	-.0000000000	-.0000000000	-.0000000000
PCB_6	-.0000001316	-.0000000013	0.0000000008	-.0000000004	-.0000000001
PCB_7	-.0000000261	-.0000000003	0.0000000001	-.0000000001	-.0000000000
PCB_8	-.0000004112	-.0000000006	0.0000000037	-.0000000012	-.0000000005
PCB_9	-.0000000324	-.0000000004	0.0000000001	-.0000000001	-.0000000000
PCB_10	-.0000001096	-.0000000022	-.0000000000	-.0000000004	-.0000000001
PCB_11	0.0000000428	0.0000000004	-.0000000002	0.0000000002	0.0000000001
PCB_14	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_15	-.0000001073	0.0000000007	0.0000000013	-.0000000002	-.0000000001
PCB_16	-.0000000910	-.0000000038	-.0000000006	-.0000000004	-.0000000001
PCB_17	-.0000016194	-.0000000429	-.0000000031	-.0000000064	-.0000000021
PCB_19	-.0000007084	-.0000000197	-.0000000020	-.0000000028	-.0000000009
PCB_22	-.0000001756	-.0000000073	-.0000000006	-.0000000007	-.0000000002
PCB_23	0.0000000013	-.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_24	-.0000000166	-.0000000003	-.0000000001	-.0000000001	-.0000000000
PCB_25	-.0000011581	-.0000000268	0.0000000015	-.0000000039	-.0000000013
PCB_27	-.0000015588	-.0000000282	0.0000000058	-.0000000049	-.0000000017
PCB_31	-.0000009934	-.0000000253	0.0000000015	-.0000000033	-.0000000012
PCB_32	-.0000012722	-.0000000315	-.0000000003	-.0000000046	-.0000000016
PCB_34	-.0000000234	-.0000000004	0.0000000001	-.0000000001	-.0000000000
PCB_35	0.0000000020	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_36	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_37	-.0000000356	-.0000000007	0.0000000002	-.0000000001	-.0000000000
PCB_38	-.0000000079	-.0000000004	-.0000000001	-.0000000000	-.0000000000
PCB_39	-.0000000029	-.0000000002	-.0000000000	-.0000000000	-.0000000000
PCB_42	-.0000011391	-.0000000454	-.0000000070	-.0000000047	-.0000000015
PCB_43	-.0000000119	-.0000000012	0.0000000001	0.0000000001	0.0000000000
PCB_46	-.0000000894	-.0000000050	-.0000000011	-.0000000004	-.0000000001
PCB_48	0.0000000238	-.0000000038	-.0000000015	-.0000000000	0.0000000000
PCB_52	-.0000190888	-.0000005390	-.0000000376	-.0000000724	-.0000000234
PCB_54	-.0000001540	-.0000000041	-.0000000004	-.0000000006	-.0000000002
PCB_55	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_56	0.0000001467	-.0000000129	-.0000000063	-.0000000000	0.0000000001
PCB_57	-.0000003430	-.0000000044	0.0000000020	-.0000000009	-.0000000003
PCB_58	-.0000000803	-.0000000016	0.0000000003	-.0000000002	-.0000000001
PCB_60	0.0000003544	-.0000000008	-.0000000032	0.0000000011	0.0000000004

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_1	-.0000012941	-.0000000004	-.0000000040	-.0000000199	-.0000000067
PCB_2	0.0000000446	0.0000000000	0.0000000001	0.0000000007	0.0000000002
PCB_3	-.0000000876	-.0000000000	-.0000000002	-.0000000007	-.0000000003
PCB_4	-.0000202797	-.0000000075	-.0000000832	-.0000004595	-.0000001275
PCB_5	-.0000000107	-.0000000000	-.0000000001	-.0000000001	-.0000000001
PCB_6	-.0000021763	-.0000000006	-.0000000079	-.0000000447	-.0000000114
PCB_7	-.0000004138	-.0000000001	-.0000000014	-.0000000080	-.0000000023
PCB_8	-.0000065883	-.0000000020	-.0000000175	-.0000001020	-.0000000301
PCB_9	-.0000005206	-.0000000002	-.0000000019	-.0000000102	-.0000000029
PCB_10	-.0000016892	-.0000000007	-.0000000065	-.0000000349	-.0000000105
PCB_11	0.0000006922	0.0000000003	0.0000000021	0.0000000139	0.0000000039
PCB_14	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_15	-.0000017484	-.0000000004	-.0000000042	-.0000000247	-.0000000067
PCB_16	-.0000015613	-.0000000005	-.0000000096	-.0000000447	-.0000000117
PCB_17	-.0000255925	-.0000000096	-.0000001159	-.0000005959	-.0000001712
PCB_19	-.0000113265	-.0000000042	-.0000000530	-.0000002794	-.0000000768
PCB_22	-.0000029065	-.0000000009	-.0000000170	-.0000000847	-.0000000223
PCB_23	0.0000000206	0.0000000000	-.0000000000	0.0000000001	0.0000000000
PCB_24	-.0000001860	-.0000000001	-.0000000006	-.0000000127	-.0000000016
PCB_25	-.0000190842	-.0000000059	-.0000000877	-.0000004702	-.0000001205
PCB_27	-.0000265364	-.0000000076	-.0000001148	-.0000006484	-.0000001569
PCB_31	-.0000164056	-.0000000050	-.0000000776	-.0000004172	-.0000001066
PCB_32	-.0000204142	-.0000000069	-.0000000938	-.0000005337	-.0000001346
PCB_34	-.0000003992	-.0000000001	-.0000000017	-.0000000086	-.0000000022
PCB_35	0.0000000380	0.0000000000	0.0000000001	0.0000000005	0.0000000002
PCB_36	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_37	-.0000005621	-.0000000001	-.0000000023	-.0000000090	-.0000000029
PCB_38	-.0000001243	-.0000000000	-.0000000008	-.0000000038	-.0000000010
PCB_39	-.0000000443	-.0000000000	-.0000000003	-.0000000013	-.0000000004
PCB_42	-.0000182999	-.0000000068	-.0000001034	-.0000005146	-.0000001409
PCB_43	-.0000005818	0.0000000001	-.0000000056	-.0000000225	-.0000000033
PCB_46	-.0000015436	-.0000000005	-.0000000113	-.0000000561	-.0000000133
PCB_48	0.0000003522	0.0000000001	-.0000000037	-.0000000096	-.0000000030
PCB_52	-.0003090825	-.0000001069	-.0000014854	-.0000074484	-.0000020695
PCB_54	-.0000024247	-.0000000009	-.0000000113	-.0000000624	-.0000000164
PCB_55	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_56	0.0000026817	0.0000000004	-.0000000058	0.0000000085	-.0000000030
PCB_57	-.0000059074	-.0000000014	-.0000000257	-.0000001305	-.0000000316
PCB_58	-.0000013929	-.0000000004	-.0000000065	-.0000000319	-.0000000081
PCB_60	0.0000057745	0.0000000018	0.0000000147	0.0000001025	0.0000000260

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_1	-.0000000001	-.0000000395	-.0000000239	-.0000000351	-.0000000158
PCB_2	0.0000000000	0.0000000015	0.0000000009	0.0000000013	0.0000000006
PCB_3	-.0000000000	-.0000000023	-.0000000015	-.0000000020	-.0000000010
PCB_4	-.0000000019	-.0000006893	-.0000004040	-.0000005988	-.0000002563
PCB_5	-.0000000000	-.0000000004	-.0000000002	-.0000000004	-.0000000002
PCB_6	-.0000000002	-.0000000697	-.0000000417	-.0000000570	-.0000000245
PCB_7	-.0000000000	-.0000000136	-.0000000081	-.0000000116	-.0000000050
PCB_8	-.0000000005	-.0000002069	-.0000001248	-.0000001738	-.0000000781
PCB_9	-.0000000000	-.0000000170	-.0000000101	-.0000000143	-.0000000062
PCB_10	-.0000000002	-.0000000576	-.0000000338	-.0000000507	-.0000000220
PCB_11	0.0000000001	0.0000000246	0.0000000144	0.0000000212	0.0000000093
PCB_14	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_15	-.0000000001	-.0000000500	-.0000000308	-.0000000417	-.0000000190
PCB_16	-.0000000001	-.0000000534	-.0000000309	-.0000000436	-.0000000171
PCB_17	-.0000000024	-.0000008898	-.0000005181	-.0000007626	-.0000003217
PCB_19	-.0000000011	-.0000003926	-.0000002283	-.0000003383	-.0000001418
PCB_22	-.0000000002	-.0000001039	-.0000000611	-.0000000841	-.0000000335
PCB_23	0.0000000000	0.0000000006	0.0000000004	0.0000000005	0.0000000003
PCB_24	-.0000000000	-.0000000062	-.0000000041	-.0000000078	-.0000000035
PCB_25	-.0000000015	-.0000006484	-.0000003819	-.0000005316	-.0000002203
PCB_27	-.0000000021	-.0000008933	-.0000005281	-.0000007212	-.0000002994
PCB_31	-.0000000012	-.0000005633	-.0000003335	-.0000004576	-.0000001885
PCB_32	-.0000000018	-.0000007067	-.0000004161	-.0000005945	-.0000002477
PCB_34	-.0000000000	-.0000000127	-.0000000076	-.0000000102	-.0000000043
PCB_35	0.0000000000	0.0000000013	0.0000000008	0.0000000010	0.0000000004
PCB_36	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_37	0.0000000000	-.0000000133	-.0000000089	-.0000000115	-.0000000051
PCB_38	-.0000000000	-.0000000045	-.0000000026	-.0000000038	-.0000000015
PCB_39	-.0000000000	-.0000000016	-.0000000009	-.0000000014	-.0000000006
PCB_42	-.0000000017	-.0000006561	-.0000003801	-.0000005549	-.0000002248
PCB_43	0.0000000000	-.0000000136	-.0000000083	-.0000000054	-.0000000002
PCB_46	-.0000000001	-.0000000554	-.0000000316	-.0000000454	-.0000000169
PCB_48	0.0000000000	0.0000000072	0.0000000048	0.0000000063	0.0000000047
PCB_52	-.0000000265	-.0000105514	-.0000061596	-.0000089142	-.0000037088
PCB_54	-.0000000002	-.0000000844	-.0000000491	-.0000000728	-.0000000305
PCB_55	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_56	0.0000000002	0.0000000764	0.0000000469	0.0000000551	0.0000000285
PCB_57	-.0000000004	-.0000001891	-.0000001113	-.0000001471	-.0000000605
PCB_58	-.0000000001	-.0000000450	-.0000000265	-.0000000353	-.0000000144
PCB_60	0.0000000005	0.0000001882	0.0000001117	0.0000001582	0.0000000705

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_1	-.0000000232	-.0000000690	-.0000000001	-.0000000037	-.0000000271
PCB_2	0.0000000008	0.0000000025	0.0000000000	0.0000000001	0.0000000010
PCB_3	-.0000000014	-.0000000042	-.0000000000	-.0000000002	-.0000000016
PCB_4	-.0000003778	-.0000011399	-.0000000020	-.0000000601	-.0000004462
PCB_5	-.0000000003	-.0000000007	-.0000000000	-.0000000000	-.0000000003
PCB_6	-.0000000355	-.0000001114	-.0000000002	-.0000000062	-.0000000422
PCB_7	-.0000000074	-.0000000225	-.0000000000	-.0000000012	-.0000000088
PCB_8	-.0000001149	-.0000003467	-.0000000005	-.0000000188	-.0000001361
PCB_9	-.0000000091	-.0000000278	-.0000000000	-.0000000015	-.0000000108
PCB_10	-.0000000327	-.0000000970	-.0000000002	-.0000000051	-.0000000386
PCB_11	0.0000000140	0.0000000410	0.0000000001	0.0000000021	0.0000000168
PCB_14	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_15	-.0000000272	-.0000000844	-.0000000001	-.0000000047	-.0000000321
PCB_16	-.0000000246	-.0000000804	-.0000000001	-.0000000045	-.0000000294
PCB_17	-.0000004761	-.0000014443	-.0000000025	-.0000000765	-.0000005641
PCB_19	-.0000002087	-.0000006366	-.0000000011	-.0000000337	-.0000002477
PCB_22	-.0000000487	-.0000001573	-.0000000002	-.0000000088	-.0000000579
PCB_23	0.0000000004	0.0000000011	0.0000000000	0.0000000001	0.0000000005
PCB_24	-.0000000045	-.0000000136	-.0000000000	-.0000000006	-.0000000050
PCB_25	-.0000003213	-.0000010139	-.0000000016	-.0000000557	-.0000003821
PCB_27	-.0000004354	-.0000013849	-.0000000022	-.0000000771	-.0000005214
PCB_31	-.0000002747	-.0000008732	-.0000000013	-.0000000484	-.0000003268
PCB_32	-.0000003619	-.0000011261	-.0000000019	-.0000000608	-.0000004287
PCB_34	-.0000000061	-.0000000198	-.0000000000	-.0000000011	-.0000000073
PCB_35	0.0000000006	0.0000000020	0.0000000000	0.0000000001	0.0000000008
PCB_36	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_37	-.0000000067	-.0000000231	0.0000000000	-.0000000014	-.0000000076
PCB_38	-.0000000022	-.0000000069	-.0000000000	-.0000000004	-.0000000025
PCB_39	-.0000000008	-.0000000025	-.0000000000	-.0000000001	-.0000000009
PCB_42	-.0000003300	-.0000010293	-.0000000018	-.0000000553	-.0000003915
PCB_43	0.0000000015	-.0000000090	0.0000000000	-.0000000012	0.0000000007
PCB_46	-.0000000241	-.0000000810	-.0000000001	-.0000000045	-.0000000288
PCB_48	0.0000000074	0.0000000177	0.0000000000	0.0000000009	0.0000000087
PCB_52	-.0000054373	-.0000168389	-.0000000280	-.0000009076	-.0000064531
PCB_54	-.0000000448	-.0000001368	-.0000000002	-.0000000072	-.0000000529
PCB_55	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_56	0.0000000430	0.0000001265	0.0000000002	0.0000000072	0.0000000527
PCB_57	-.0000000871	-.0000002851	-.0000000004	-.0000000163	-.0000001040
PCB_58	-.0000000207	-.0000000679	-.0000000001	-.0000000039	-.0000000248
PCB_60	0.0000001043	0.0000003126	0.0000000006	0.0000000167	0.0000001244

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_1	-.0000000031	-.0000000097	-.0000000175	0.0000000012	0.0000000071
PCB_2	0.0000000001	0.0000000004	0.0000000007	-.0000000000	-.0000000004
PCB_3	-.0000000002	-.0000000006	-.0000000011	0.0000000001	0.0000000011
PCB_4	-.0000000512	-.0000001583	-.0000002693	0.0000000125	-.0000000066
PCB_5	-.0000000000	-.0000000001	-.0000000002	-.0000000000	-.0000000002
PCB_6	-.0000000047	-.0000000143	-.0000000269	0.0000000033	0.0000000062
PCB_7	-.0000000010	-.0000000031	-.0000000055	0.0000000004	0.0000000014
PCB_8	-.0000000152	-.0000000477	-.0000000902	0.0000000079	0.0000000547
PCB_9	-.0000000012	-.0000000038	-.0000000068	0.0000000006	0.0000000015
PCB_10	-.0000000045	-.0000000139	-.0000000236	0.0000000007	0.0000000018
PCB_11	0.0000000019	0.0000000060	0.0000000105	-.0000000003	-.0000000041
PCB_14	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_15	-.0000000035	-.0000000110	-.0000000219	0.0000000029	0.0000000180
PCB_16	-.0000000033	-.0000000097	-.0000000161	0.0000000021	-.0000000183
PCB_17	-.0000000647	-.0000001991	-.0000003357	0.0000000159	-.0000000737
PCB_19	-.0000000284	-.0000000871	-.0000001451	0.0000000073	-.0000000415
PCB_22	-.0000000065	-.0000000193	-.0000000340	0.0000000048	-.0000000315
PCB_23	0.0000000001	0.0000000002	0.0000000003	-.0000000000	-.0000000005
PCB_24	-.0000000006	-.0000000019	-.0000000029	0.0000000002	0.0000000005
PCB_25	-.0000000427	-.0000001298	-.0000002315	0.0000000256	-.0000000567
PCB_27	-.0000000578	-.0000001748	-.0000003199	0.0000000412	-.0000000309
PCB_31	-.0000000364	-.0000001102	-.0000001998	0.0000000255	-.0000000654
PCB_32	-.0000000486	-.0000001481	-.0000002579	0.0000000229	-.0000000651
PCB_34	-.0000000008	-.0000000024	-.0000000046	0.0000000007	-.0000000001
PCB_35	0.0000000001	0.0000000003	0.0000000005	-.0000000001	-.0000000001
PCB_36	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_37	-.0000000008	-.0000000024	-.0000000054	0.0000000019	-.0000000006
PCB_38	-.0000000003	-.0000000009	-.0000000014	0.0000000001	-.0000000018
PCB_39	-.0000000001	-.0000000003	-.0000000005	0.0000000000	-.0000000009
PCB_42	-.0000000448	-.0000001356	-.0000002228	0.0000000160	-.0000001751
PCB_43	0.0000000004	0.0000000020	0.0000000018	0.0000000042	-.0000000162
PCB_46	-.0000000032	-.0000000094	-.0000000144	0.0000000021	-.0000000285
PCB_48	0.0000000010	0.0000000034	0.0000000080	0.0000000002	-.0000000314
PCB_52	-.0000007329	-.0000022369	-.0000038057	0.0000002865	-.0000013400
PCB_54	-.0000000061	-.0000000186	-.0000000311	0.0000000016	-.0000000084
PCB_55	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_56	0.0000000055	0.0000000179	0.0000000418	-.0000000041	-.0000001053
PCB_57	-.0000000112	-.0000000339	-.0000000639	0.0000000099	-.0000000038
PCB_58	-.0000000027	-.0000000081	-.0000000150	0.0000000024	-.0000000041
PCB_60	0.0000000140	0.0000000437	0.0000000804	-.0000000050	-.0000000541

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_1	0.0000004168	-.0000000443	-.0000005665	-.0000000160	-.0000003734
PCB_2	-.0000000109	-.0000000002	0.0000000128	0.0000000003	0.0000000101
PCB_3	-.0000000169	0.0000000016	-.0000000015	-.0000000002	-.0000000248
PCB_4	0.0000126631	-.0000013340	-.0000146249	-.0000003753	-.0000059174
PCB_5	0.0000000345	-.0000000029	-.0000000275	-.0000000010	-.0000000060
PCB_6	0.0000001343	-.0000000816	-.0000009340	-.0000000050	-.0000005865
PCB_7	0.0000001335	-.0000000160	-.0000002115	-.0000000043	-.0000001131
PCB_8	0.0000000493	-.0000000378	-.0000016633	-.0000000160	-.0000016523
PCB_9	0.0000001398	-.0000000222	-.0000002660	-.0000000044	-.0000001437
PCB_10	0.0000011176	-.0000001075	-.0000012130	-.0000000331	-.0000004842
PCB_11	-.0000003617	0.0000000149	0.0000003231	0.0000000091	0.0000001594
PCB_14	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_15	-.0000004407	0.0000000354	-.0000000467	0.0000000048	-.0000004526
PCB_16	0.0000010324	-.0000002173	-.0000017117	-.0000000217	-.0000005294
PCB_17	0.0000174309	-.0000022472	-.0000220353	-.0000004704	-.0000076552
PCB_19	0.0000083738	-.0000010002	-.0000097565	-.0000002234	-.0000034261
PCB_22	0.0000013616	-.0000004921	-.0000034704	-.0000000218	-.0000008954
PCB_23	0.0000000044	-.0000000029	-.0000000107	-.0000000000	0.0000000034
PCB_24	0.0000002987	-.0000000215	-.0000001249	-.0000000135	-.0000000476
PCB_25	0.0000063389	-.0000016441	-.0000144226	-.0000001476	-.0000054995
PCB_27	0.0000050617	-.0000017838	-.0000162195	-.0000000793	-.0000071852
PCB_31	0.0000044317	-.0000017084	-.0000135015	-.0000000811	-.0000046623
PCB_32	0.0000098089	-.0000018921	-.0000166649	-.0000002582	-.0000058748
PCB_34	0.0000000248	-.0000000230	-.0000002115	-.0000000002	-.0000001135
PCB_35	-.0000000002	0.0000000021	0.0000000183	-.0000000004	0.0000000088
PCB_36	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_37	-.0000002346	-.0000000720	-.0000003079	0.0000000050	-.0000001957
PCB_38	0.0000001081	-.0000000233	-.0000001786	-.0000000027	-.0000000441
PCB_39	0.0000000557	-.0000000116	-.0000000800	-.0000000013	-.0000000176
PCB_42	0.0000148675	-.0000026237	-.0000213282	-.0000003558	-.0000058805
PCB_43	-.0000007071	-.0000000971	-.0000002905	0.0000000349	-.0000002155
PCB_46	0.0000014392	-.0000002830	-.0000021349	-.0000000314	-.0000005577
PCB_48	0.0000008088	-.0000002546	-.0000013470	-.0000000104	-.0000000293
PCB_52	0.0001857030	-.0000294328	-.0002674143	-.0000047425	-.0000947414
PCB_54	0.0000017361	-.0000002084	-.0000020750	-.0000000493	-.0000007315
PCB_55	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_56	0.0000038717	-.0000008201	-.0000042199	-.0000000846	0.0000001887
PCB_57	0.0000000035	-.0000002530	-.0000028937	0.0000000012	-.0000017128
PCB_58	0.0000001480	-.0000000949	-.0000008636	-.0000000014	-.0000004152
PCB_60	-.0000007313	-.0000001283	0.0000009391	0.0000000343	0.0000013610

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_1	-.0000000023	-.0000005829	-.0000005209	0.0000000031	-.0000000582
PCB_2	-.0000000002	0.0000000191	0.0000000147	-.0000000009	0.0000000018
PCB_3	0.0000000006	-.0000000447	-.0000000042	0.0000000047	-.0000000030
PCB_4	-.0000001333	-.0000091653	-.0000124061	-.0000006886	-.0000010512
PCB_5	-.0000000006	0.0000000008	-.0000000231	-.0000000019	-.0000000010
PCB_6	0.0000000011	-.0000013317	-.0000006941	-.0000000164	-.0000000958
PCB_7	-.0000000007	-.0000002047	-.0000001787	-.0000000033	-.0000000190
PCB_8	0.0000000254	-.0000034114	-.0000015050	0.0000001522	-.0000002561
PCB_9	-.0000000009	-.0000002760	-.0000002174	-.0000000056	-.0000000239
PCB_10	-.0000000116	-.0000006849	-.0000010652	-.0000000477	-.0000000869
PCB_11	0.0000000004	0.0000002446	0.0000003457	0.0000000005	0.0000000310
PCB_14	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_15	0.0000000149	-.0000010277	-.0000000548	0.0000000730	-.0000000594
PCB_16	-.0000000224	-.0000010728	-.0000012563	-.0000001504	-.0000000974
PCB_17	-.0000002423	-.0000123753	-.0000179337	-.0000012693	-.0000014079
PCB_19	-.0000001090	-.0000054095	-.0000081155	-.0000006152	-.0000006317
PCB_22	-.0000000478	-.0000020720	-.0000024151	-.0000002965	-.0000001864
PCB_23	-.0000000004	0.0000000057	-.0000000041	-.0000000026	0.0000000004
PCB_24	-.0000000023	0.0000000393	-.0000001499	-.0000000175	-.0000000131
PCB_25	-.0000001243	-.0000118596	-.0000105881	-.0000008885	-.0000010011
PCB_27	-.0000000829	-.0000169942	-.0000120412	-.0000009106	-.0000013012
PCB_31	-.0000001315	-.0000108006	-.0000095500	-.0000009108	-.0000008891
PCB_32	-.0000001658	-.0000114150	-.0000127627	-.0000010687	-.0000011116
PCB_34	-.0000000006	-.0000002729	-.0000001475	-.0000000097	-.0000000187
PCB_35	0.0000000000	0.0000000240	0.0000000163	0.0000000004	0.0000000017
PCB_36	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_37	-.0000000040	-.0000004790	-.0000001579	-.0000000221	-.0000000292
PCB_38	-.0000000027	-.0000000812	-.0000001261	-.0000000153	-.0000000087
PCB_39	-.0000000015	-.0000000262	-.0000000598	-.0000000074	-.0000000036
PCB_42	-.0000002953	-.0000103280	-.0000162895	-.0000016943	-.0000011620
PCB_43	-.0000000001	-.0000010609	-.0000000362	-.0000000858	-.0000000323
PCB_46	-.0000000314	-.0000011041	-.0000015525	-.0000002154	-.0000001094
PCB_48	-.0000000347	-.0000000622	-.0000008860	-.0000001965	-.0000000261
PCB_52	-.0000029581	-.0001694494	-.0002103860	-.0000173519	-.0000171812
PCB_54	-.0000000222	-.0000011653	-.0000016864	-.0000001281	-.0000001344
PCB_55	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_56	-.0000001313	0.0000013153	-.0000029484	-.0000006438	-.0000000326
PCB_57	0.0000000022	-.0000043053	-.0000018018	-.0000001099	-.0000002640
PCB_58	-.0000000043	-.0000010169	-.0000005757	-.0000000504	-.0000000678
PCB_60	-.0000000387	0.0000026282	0.0000011841	-.0000001831	0.0000002111

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_1	0.0000000430	-.0000003838	-.0000001657	-.0000000128	-.0000001066
PCB_2	-.0000000011	0.0000000135	0.0000000054	0.0000000004	0.0000000039
PCB_3	0.0000000003	-.0000000193	-.0000000083	-.0000000008	-.0000000068
PCB_4	0.0000010625	-.0000070299	-.0000029635	-.0000002055	-.0000017378
PCB_5	0.0000000022	-.0000000061	-.0000000032	-.0000000001	-.0000000010
PCB_6	0.0000000512	-.0000006240	-.0000002421	-.0000000202	-.0000001763
PCB_7	0.0000000146	-.0000001283	-.0000000530	-.0000000041	-.0000000348
PCB_8	0.0000001066	-.0000017832	-.0000007204	-.0000000632	-.0000005459
PCB_9	0.0000000173	-.0000001590	-.0000000648	-.0000000050	-.0000000432
PCB_10	0.0000000901	-.0000005885	-.0000002535	-.0000000175	-.0000001467
PCB_11	-.0000000273	0.0000002352	0.0000000981	0.0000000072	0.0000000624
PCB_14	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_15	0.0000000017	-.0000004054	-.0000001562	-.0000000157	-.0000001375
PCB_16	0.0000001004	-.0000005716	-.0000002265	-.0000000142	-.0000001233
PCB_17	0.0000014901	-.0000091620	-.0000038532	-.0000002584	-.0000021853
PCB_19	0.0000006826	-.0000041265	-.0000017270	-.0000001137	-.0000009648
PCB_22	0.0000001734	-.0000010614	-.0000004229	-.0000000279	-.0000002359
PCB_23	0.0000000003	0.0000000046	0.0000000019	0.0000000002	0.0000000018
PCB_24	0.0000000173	-.0000000936	-.0000000435	-.0000000027	-.0000000198
PCB_25	0.0000008138	-.0000062599	-.0000024778	-.0000001813	-.0000015669
PCB_27	0.0000008731	-.0000083196	-.0000031858	-.0000002462	-.0000021654
PCB_31	0.0000006907	-.0000053986	-.0000021228	-.0000001559	-.0000013417
PCB_32	0.0000010180	-.0000070654	-.0000028678	-.0000002019	-.0000017199
PCB_34	0.0000000105	-.0000001157	-.0000000439	-.0000000036	-.0000000314
PCB_35	-.0000000007	0.0000000111	0.0000000042	0.0000000003	0.0000000031
PCB_36	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_37	0.0000000059	-.0000001269	-.0000000514	-.0000000046	-.0000000370
PCB_38	0.0000000103	-.0000000496	-.0000000206	-.0000000012	-.0000000102
PCB_39	0.0000000047	-.0000000195	-.0000000086	-.0000000005	-.0000000036
PCB_42	0.0000013120	-.0000070768	-.0000029409	-.0000001828	-.0000015377
PCB_43	-.0000000143	-.0000001104	-.0000000015	-.0000000012	-.0000000227
PCB_46	0.0000001279	-.0000006317	-.0000002490	-.0000000142	-.0000001228
PCB_48	0.0000000641	-.0000000422	-.0000000219	0.0000000035	0.0000000348
PCB_52	0.0000171358	-.0001084181	-.0000446639	-.0000030123	-.0000256795
PCB_54	0.0000001450	-.0000008803	-.0000003676	-.0000000245	-.0000002079
PCB_55	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_56	0.0000002390	0.0000002158	0.0000000119	0.0000000226	0.0000002303
PCB_57	0.0000001402	-.0000016552	-.0000006054	-.0000000512	-.0000004610
PCB_58	0.0000000429	-.0000004122	-.0000001538	-.0000000121	-.0000001082
PCB_60	-.0000001032	0.0000016353	0.0000006497	0.0000000562	0.0000004949

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_1	0.0000000561	0.0000000042	0.0000000976	0.0000000530	0.0000003451
PCB_2	-.0000000015	-.0000000001	-.0000000028	-.0000000018	-.0000000129
PCB_3	0.0000000024	0.0000000001	0.0000000033	-.0000000008	0.0000000156
PCB_4	0.0000010933	0.0000000894	0.0000022134	0.0000015719	0.0000070197
PCB_5	0.0000000004	0.0000000001	0.0000000013	0.0000000019	0.0000000025
PCB_6	0.0000001335	0.0000000074	0.0000002359	0.0000001148	0.0000008135
PCB_7	0.0000000217	0.0000000014	0.0000000387	0.0000000224	0.0000001351
PCB_8	0.0000003157	0.0000000136	0.0000004717	0.0000001752	0.0000019020
PCB_9	0.0000000291	0.0000000018	0.0000000520	0.0000000291	0.0000001792
PCB_10	0.0000000914	0.0000000072	0.0000001664	0.0000001217	0.0000005470
PCB_11	-.0000000294	-.0000000021	-.0000000510	-.0000000408	-.0000002064
PCB_14	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_15	0.0000000561	0.0000000021	0.0000001087	0.0000000159	0.0000004487
PCB_16	0.0000001340	0.0000000118	0.0000002856	0.0000002010	0.0000008434
PCB_17	0.0000017087	0.0000001325	0.0000031990	0.0000022999	0.0000100765
PCB_19	0.0000006858	0.0000000613	0.0000014428	0.0000010894	0.0000044604
PCB_22	0.0000004013	0.0000000247	0.0000005854	0.0000003644	0.0000017547
PCB_23	0.0000000007	0.0000000001	0.0000000009	0.0000000009	-.0000000008
PCB_24	0.0000000137	0.0000000017	0.0000000268	0.0000000223	0.0000000114
PCB_25	0.0000015782	0.0000001001	0.0000027135	0.0000016249	0.0000086159
PCB_27	0.0000020339	0.0000001264	0.0000035851	0.0000020710	0.0000118518
PCB_31	0.0000016808	0.0000000977	0.0000025661	0.0000014770	0.0000081003
PCB_32	0.0000016970	0.0000001128	0.0000028901	0.0000018455	0.0000088961
PCB_34	0.0000000277	0.0000000017	0.0000000512	0.0000000266	0.0000001712
PCB_35	-.0000000032	-.0000000002	-.0000000041	-.0000000024	-.0000000177
PCB_36	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_37	0.0000000709	0.0000000042	0.0000000883	0.0000000272	0.0000002559
PCB_38	0.0000000152	0.0000000011	0.0000000257	0.0000000176	0.0000000717
PCB_39	0.0000000066	0.0000000005	0.0000000102	0.0000000077	0.0000000274
PCB_42	0.0000017651	0.0000001361	0.0000031251	0.0000022632	0.0000092069
PCB_43	0.0000000657	0.0000000072	0.0000001971	0.0000001077	0.0000006182
PCB_46	0.0000001536	0.0000000145	0.0000003461	0.0000002575	0.0000009548
PCB_48	0.0000001081	0.0000000096	0.0000001547	0.0000001352	0.0000003242
PCB_52	0.0000219141	0.0000017336	0.0000423344	0.0000292879	0.0001316135
PCB_54	0.0000001509	0.0000000125	0.0000003127	0.0000002271	0.0000009441
PCB_55	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_56	0.0000002153	0.0000000268	0.0000002693	0.0000003487	0.0000001331
PCB_57	0.0000003480	0.0000000200	0.0000007574	0.0000003702	0.0000025293
PCB_58	0.0000000976	0.0000000064	0.0000001973	0.0000001072	0.0000006446
PCB_60	-.0000001318	-.0000000064	-.0000003353	-.0000001628	-.0000014557

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_1	0.0000000683	0.0000006589	0.0000000645	0.0000000371	0.0000002245
PCB_2	-.0000000017	-.0000000200	-.0000000022	-.0000000010	-.0000000050
PCB_3	-.0000000000	0.0000000193	-.0000000002	0.0000000013	0.0000000134
PCB_4	0.0000017495	0.0000144991	0.0000017918	0.0000008084	0.0000034530
PCB_5	0.0000000043	0.0000000185	0.0000000017	0.0000000006	0.0000000046
PCB_6	0.0000000550	0.0000011467	0.0000001411	0.0000000842	0.0000002947
PCB_7	0.0000000225	0.0000002375	0.0000000261	0.0000000145	0.0000000624
PCB_8	0.0000001293	0.0000026593	0.0000002262	0.0000001835	0.0000008686
PCB_9	0.0000000251	0.0000002985	0.0000000344	0.0000000191	0.0000000781
PCB_10	0.0000001531	0.0000011891	0.0000001355	0.0000000643	0.0000003007
PCB_11	-.0000000458	-.0000003950	-.0000000476	-.0000000197	-.0000000951
PCB_14	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_15	-.0000000181	0.0000004603	0.0000000370	0.0000000354	0.0000002007
PCB_16	0.0000001372	0.0000014833	0.0000002292	0.0000000974	0.0000002932
PCB_17	0.0000024029	0.0000203741	0.0000025453	0.0000011987	0.0000045982
PCB_19	0.0000010929	0.0000091353	0.0000012350	0.0000005149	0.0000020217
PCB_22	0.0000002174	0.0000028845	0.0000003936	0.0000002291	0.0000006210
PCB_23	0.0000000003	0.0000000011	0.0000000008	0.0000000003	-.0000000009
PCB_24	0.0000000323	0.0000001677	0.0000000316	0.0000000088	0.0000000613
PCB_25	0.0000010778	0.0000139898	0.0000018507	0.0000009992	0.0000030959
PCB_27	0.0000009704	0.0000173067	0.0000024513	0.0000012764	0.0000037900
PCB_31	0.0000008404	0.0000126204	0.0000016505	0.0000009823	0.0000028384
PCB_32	0.0000014792	0.0000158694	0.0000020855	0.0000010805	0.0000035508
PCB_34	0.0000000097	0.0000002345	0.0000000322	0.0000000178	0.0000000560
PCB_35	-.0000000001	-.0000000202	-.0000000028	-.0000000016	-.0000000053
PCB_36	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_37	-.0000000133	0.0000002921	0.0000000353	0.0000000340	0.0000001433
PCB_38	0.0000000157	0.0000001421	0.0000000187	0.0000000098	0.0000000287
PCB_39	0.0000000071	0.0000000595	0.0000000081	0.0000000040	0.0000000142
PCB_42	0.0000019947	0.0000180714	0.0000024748	0.0000011701	0.0000037910
PCB_43	-.0000000991	0.0000003683	0.0000001501	0.0000000479	0.0000000377
PCB_46	0.0000001799	0.0000017800	0.0000002932	0.0000001158	0.0000003161
PCB_48	0.0000000842	0.0000007258	0.0000001362	0.0000000609	0.0000001150
PCB_52	0.0000258707	0.0002470660	0.0000330364	0.0000153151	0.0000552041
PCB_54	0.0000002358	0.0000019554	0.0000002566	0.0000001127	0.0000004254
PCB_55	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_56	0.0000003986	0.0000017908	0.0000003193	0.0000001228	0.0000003464
PCB_57	0.0000001294	0.0000033550	0.0000004527	0.0000002511	0.0000006829
PCB_58	0.0000000429	0.0000008989	0.0000001278	0.0000000669	0.0000001897
PCB_60	-.0000001607	-.0000021825	-.0000002284	-.0000001103	-.0000005847

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_1	0.0000000299	0.0000002808	0.0000000532	0.0000004412	0.0000000130
PCB_2	-.0000000021	-.0000000094	-.0000000016	-.0000000153	-.0000000005
PCB_3	0.0000000069	0.0000000146	-.0000000006	0.0000000439	0.0000000009
PCB_4	-.0000002874	0.0000049825	0.0000014079	0.0000044290	0.0000001860
PCB_5	-.0000000031	0.0000000058	0.0000000037	-.0000000023	-.0000000001
PCB_6	0.0000000825	0.0000004378	0.0000000379	0.0000006845	0.0000000335
PCB_7	0.0000000076	0.0000000923	0.0000000185	0.0000001204	0.0000000048
PCB_8	0.0000003634	0.0000012810	0.0000001114	0.0000024986	0.0000000891
PCB_9	0.0000000111	0.0000001143	0.0000000201	0.0000001525	0.0000000067
PCB_10	-.0000000244	0.0000004277	0.0000001294	0.0000003825	0.0000000156
PCB_11	-.0000000128	-.0000001599	-.0000000416	-.0000001930	-.0000000070
PCB_14	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_15	0.0000001444	0.0000002739	-.0000000288	0.0000007999	0.0000000217
PCB_16	-.0000000626	0.0000004212	0.0000001034	0.0000001725	0.0000000277
PCB_17	-.0000006544	0.0000067510	0.0000020164	0.0000045753	0.0000003045
PCB_19	-.0000003224	0.0000029432	0.0000008792	0.0000019661	0.0000001203
PCB_22	-.0000001115	0.0000008174	0.0000001953	0.0000002440	0.0000000748
PCB_23	-.0000000027	-.0000000028	0.0000000002	-.0000000122	-.0000000001
PCB_24	-.0000000252	0.0000000176	0.0000000144	0.0000000124	-.0000000067
PCB_25	-.0000000036	0.0000045334	0.0000008728	0.0000039832	0.0000003259
PCB_27	0.0000005327	0.0000057912	0.0000007401	0.0000065509	0.0000004757
PCB_31	-.0000000261	0.0000039807	0.0000007254	0.0000031353	0.0000003395
PCB_32	-.0000002941	0.0000049945	0.0000012012	0.0000037403	0.0000002998
PCB_34	0.0000000129	0.0000000832	0.0000000062	0.0000001153	0.0000000073
PCB_35	-.0000000023	-.0000000090	-.0000000007	-.0000000125	-.0000000011
PCB_36	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_37	0.0000000264	0.0000001016	-.0000000179	0.0000002173	0.0000000159
PCB_38	-.0000000104	0.0000000389	0.0000000132	0.0000000009	0.0000000023
PCB_39	-.0000000056	0.0000000160	0.0000000061	-.0000000026	0.0000000010
PCB_42	-.0000010088	0.0000052832	0.0000016702	0.0000015462	0.0000002952
PCB_43	0.0000000757	0.0000000514	-.0000001122	0.0000001877	0.0000000324
PCB_46	-.0000001221	0.0000004449	0.0000001311	0.0000000013	0.0000000257
PCB_48	-.0000001644	0.0000000725	0.0000000752	-.0000005404	0.0000000132
PCB_52	-.0000065807	0.0000795197	0.0000209278	0.0000559103	0.0000042725
PCB_54	-.0000000731	0.0000006206	0.0000001877	0.0000004090	0.0000000231
PCB_55	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_56	-.0000007233	0.0000000148	0.0000003482	-.0000023136	-.0000000083
PCB_57	0.0000002136	0.0000011945	0.0000000667	0.0000017220	0.0000000979
PCB_58	0.0000000325	0.0000003024	0.0000000277	0.0000003601	0.0000000259
PCB_60	-.0000003223	-.0000010674	-.0000001169	-.0000021795	-.0000000480

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PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_63	PCB 63	0.0000000068	-.0000000002	0.0000000005
PCB_64	PCB 64	0.0000000533	-.0000000013	-.0000000016
PCB_66	PCB 66	0.0000001136	-.0000000038	0.0000000076
PCB_67	PCB 67	0.0000000144	-.0000000003	0.0000000009
PCB_68	PCB 68	0.0000000197	-.0000000007	0.0000000013
PCB_72	PCB 72	0.0000000297	-.0000000009	0.0000000020
PCB_73	PCB 73	-.0000000001	0.0000000000	-.0000000000
PCB_77	PCB 77	-.0000000049	0.0000000003	-.0000000001
PCB_78	PCB 78	-.0000000003	0.0000000000	-.0000000000
PCB_79	PCB 79	0.0000000055	-.0000000001	0.0000000003
PCB_80	PCB 80	-.0000000001	0.0000000000	-.0000000000
PCB_81	PCB 81	-.0000000007	0.0000000000	-.0000000000
PCB_82	PCB 82	0.0000000134	-.0000000003	-.0000000014
PCB_83	PCB 83	0.0000000030	-.0000000004	-.0000000003
PCB_84	PCB 84	0.0000000392	-.0000000006	-.0000000013
PCB_89	PCB 89	-.0000000012	0.0000000001	-.0000000001
PCB_92	PCB 92	0.0000000972	-.0000000042	0.0000000112
PCB_94	PCB 94	0.0000000010	-.0000000001	0.0000000001
PCB_95	PCB 95	0.0000002191	-.0000000031	-.0000000035
PCB_96	PCB 96	0.0000000018	-.0000000001	-.0000000001
PCB_99	PCB 99	0.0000002966	-.0000000108	0.0000000403
PCB_103	PCB 103	0.0000000113	-.0000000005	0.0000000001
PCB_104	PCB 104	0.0000000006	-.0000000000	0.0000000000
PCB_105	PCB 105	0.0000000471	-.0000000030	0.0000000099
PCB_106	PCB 106	-.0000000001	0.0000000000	-.0000000000
PCB_109	PCB 109	0.0000000323	-.0000000014	0.0000000042
PCB_111	PCB 111	0.0000000012	-.0000000000	0.0000000002
PCB_112	PCB 112	-.0000000001	0.0000000000	-.0000000000
PCB_114	PCB 114	0.0000000042	-.0000000003	0.0000000007
PCB_118	PCB 118	0.0000003340	-.0000000100	0.0000000552
PCB_120	PCB 120	0.0000000048	-.0000000001	0.0000000006
PCB_121	PCB 121	0.0000000005	-.0000000000	0.0000000001
PCB_122	PCB 122	0.0000000000	0.0000000000	0.0000000001
PCB_123	PCB 123	-.0000000002	-.0000000002	0.0000000001
PCB_126	PCB 126	-.0000000014	0.0000000000	-.0000000001
PCB_127	PCB 127	-.0000000003	-.0000000000	0.0000000000
PCB_130	PCB 130	-.0000000275	0.0000000005	0.0000000006
PCB_131	PCB 131	-.0000000017	0.0000000000	-.0000000001
PCB_132	PCB 132	-.0000000590	0.0000000024	-.0000000039
PCB_133	PCB 133	-.0000000059	0.0000000001	0.0000000003

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_63	0.0000001119	-.0000000001	0.0000000180	0.0000000025	0.0000000416
PCB_64	0.0000015888	0.0000000038	0.0000000524	0.0000000191	0.0000000676
PCB_66	0.0000017952	-.0000000001	0.0000002547	0.0000000397	0.0000006576
PCB_67	0.0000002367	0.0000000002	0.0000000263	0.0000000044	0.0000000612
PCB_68	0.0000003465	-.0000000001	0.0000000507	0.0000000075	0.0000001209
PCB_72	0.0000005196	-.0000000001	0.0000000760	0.0000000111	0.0000001760
PCB_73	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_77	-.0000001131	-.0000000001	-.0000000062	-.0000000018	-.0000000220
PCB_78	-.0000000052	-.0000000000	-.0000000005	-.0000000001	-.0000000017
PCB_79	0.0000000816	0.0000000002	0.0000000044	0.0000000013	0.0000000160
PCB_80	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_81	-.0000000114	-.0000000000	-.0000000010	-.0000000002	-.0000000032
PCB_82	0.0000004490	0.0000000022	-.0000000332	0.0000000024	-.0000000678
PCB_83	0.0000002176	-.0000000000	0.0000000293	0.0000000036	0.0000000315
PCB_84	0.0000011887	0.0000000031	0.0000000381	0.0000000133	0.0000000133
PCB_89	-.0000000097	0.0000000000	-.0000000028	-.0000000004	-.0000000104
PCB_92	0.0000011691	-.0000000044	0.0000003473	0.0000000406	0.0000008808
PCB_94	0.0000000198	-.0000000001	0.0000000069	0.0000000007	0.0000000133
PCB_95	0.0000061150	0.0000000153	0.0000002218	0.0000000755	0.0000003088
PCB_96	0.0000000678	0.0000000001	0.0000000025	0.0000000007	0.0000000002
PCB_99	0.0000021101	-.0000000114	0.0000008132	0.0000000982	0.0000024433
PCB_103	0.0000002897	0.0000000003	0.0000000225	0.0000000047	0.0000000499
PCB_104	0.0000000122	0.0000000000	0.0000000008	0.0000000002	0.0000000024
PCB_105	-.0000003287	-.0000000029	0.0000000778	0.0000000108	0.0000004880
PCB_106	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_109	0.0000002175	-.0000000012	0.0000000762	0.0000000099	0.0000002533
PCB_111	0.0000000147	-.0000000001	0.0000000048	0.0000000005	0.0000000114
PCB_112	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_114	-.0000000254	-.0000000001	0.0000000002	0.0000000006	0.0000000344
PCB_118	0.0000001236	-.0000000122	0.0000006699	0.0000000788	0.0000025745
PCB_120	0.0000000517	-.0000000002	0.0000000163	0.0000000018	0.0000000401
PCB_121	0.0000000057	-.0000000000	0.0000000016	0.0000000002	0.0000000040
PCB_122	-.0000000245	-.0000000000	-.0000000012	-.0000000002	0.0000000016
PCB_123	0.0000000049	-.0000000000	0.0000000035	0.0000000006	0.0000000158
PCB_126	-.0000000187	-.0000000000	-.0000000010	-.0000000004	-.0000000053
PCB_127	-.0000000097	-.0000000000	-.0000000004	-.0000000001	0.0000000005
PCB_130	-.0000007745	-.0000000021	-.0000000188	-.0000000090	-.0000000267
PCB_131	-.0000000389	-.0000000000	-.0000000030	-.0000000006	-.0000000077
PCB_132	-.0000009570	-.0000000002	-.0000001051	-.0000000201	-.0000003321
PCB_133	-.0000001792	-.0000000007	0.0000000035	-.0000000016	0.0000000087

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_63	0.0000000035	0.0000000081	-.0000000029	-.0000000003	0.0000000122
PCB_64	0.0000000222	0.0000001366	-.0000000400	-.0000000011	-.0000000372
PCB_66	0.0000000536	0.0000001437	-.0000000545	-.0000000044	0.0000001706
PCB_67	0.0000000059	0.0000000183	-.0000000045	-.0000000003	0.0000000175
PCB_68	0.0000000102	0.0000000255	-.0000000092	-.0000000008	0.0000000345
PCB_72	0.0000000153	0.0000000377	-.0000000121	-.0000000011	0.0000000512
PCB_73	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_77	-.0000000020	-.0000000098	0.0000000049	0.0000000003	-.0000000035
PCB_78	-.0000000001	-.0000000005	0.0000000002	0.0000000000	-.0000000004
PCB_79	0.0000000016	0.0000000078	-.0000000018	-.0000000001	0.0000000025
PCB_80	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_81	-.0000000003	-.0000000010	0.0000000005	0.0000000000	-.0000000008
PCB_82	0.0000000005	0.0000000471	-.0000000157	-.0000000001	-.0000000476
PCB_83	0.0000000054	0.0000000111	-.0000000037	-.0000000004	0.0000000124
PCB_84	0.0000000160	0.0000000990	-.0000000237	-.0000000004	-.0000000318
PCB_89	-.0000000005	-.0000000008	0.0000000007	0.0000000001	-.0000000032
PCB_92	0.0000000592	0.0000000680	-.0000000345	-.0000000054	0.0000002969
PCB_94	0.0000000011	0.0000000008	-.0000000006	-.0000000001	0.0000000043
PCB_95	0.0000000884	0.0000005273	-.0000001260	-.0000000024	-.0000001288
PCB_96	0.0000000009	0.0000000053	-.0000000016	-.0000000000	-.0000000016
PCB_99	0.0000001397	0.0000001275	-.0000000757	-.0000000143	0.0000008741
PCB_103	0.0000000058	0.0000000234	-.0000000087	-.0000000005	0.0000000075
PCB_104	0.0000000002	0.0000000011	-.0000000004	-.0000000000	0.0000000003
PCB_105	0.0000000129	-.0000000176	-.0000000207	-.0000000039	0.0000001818
PCB_106	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_109	0.0000000136	0.0000000154	-.0000000134	-.0000000018	0.0000000894
PCB_111	0.0000000008	0.0000000008	-.0000000002	-.0000000001	0.0000000039
PCB_112	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_114	0.0000000004	0.0000000003	-.0000000038	-.0000000004	0.0000000111
PCB_118	0.0000001114	0.0000000064	-.0000000339	-.0000000135	0.0000009913
PCB_120	0.0000000027	0.0000000026	-.0000000006	-.0000000002	0.0000000147
PCB_121	0.0000000003	0.0000000003	-.0000000001	-.0000000000	0.0000000013
PCB_122	-.0000000003	-.0000000016	0.0000000004	0.0000000000	0.0000000010
PCB_123	0.0000000007	0.0000000006	-.0000000014	-.0000000002	0.0000000036
PCB_126	-.0000000004	-.0000000019	0.0000000007	0.0000000000	-.0000000010
PCB_127	-.0000000001	-.0000000008	0.0000000001	-.0000000000	0.0000000004
PCB_130	-.0000000100	-.0000000679	0.0000000183	0.0000000004	0.0000000201
PCB_131	-.0000000008	-.0000000030	0.0000000009	0.0000000001	-.0000000018
PCB_132	-.0000000250	-.0000000810	0.0000000374	0.0000000028	-.0000000833
PCB_133	-.0000000014	-.0000000172	0.0000000052	0.0000000001	0.0000000114

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The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_63	0.0000000163	0.0000001626	0.0000000714	0.0000000358	-.0000000000
PCB_64	0.0000001599	0.0000023194	0.0000010668	0.0000002833	0.0000000010
PCB_66	0.0000002185	0.0000025989	0.0000010998	0.0000005228	-.0000000005
PCB_67	0.0000000288	0.0000003283	0.0000001470	0.0000000551	0.0000000000
PCB_68	0.0000000438	0.0000004843	0.0000002117	0.0000000946	-.0000000001
PCB_72	0.0000000675	0.0000007284	0.0000003175	0.0000001482	-.0000000000
PCB_73	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_77	-.0000000054	-.0000001365	-.0000000646	-.0000000046	0.0000000001
PCB_78	-.0000000003	-.0000000065	-.0000000029	-.0000000006	0.0000000000
PCB_79	0.0000000054	0.0000001114	0.0000000459	0.0000000128	0.0000000000
PCB_80	-.0000000001	-.0000000023	-.0000000010	-.0000000002	0.0000000000
PCB_81	-.0000000007	-.0000000130	-.0000000065	-.0000000007	0.0000000000
PCB_82	0.0000000170	0.0000006164	0.0000002995	-.0000000118	0.0000000001
PCB_83	0.0000000454	0.0000003349	0.0000001711	0.0000000527	0.0000000001
PCB_84	0.0000001426	0.0000017794	0.0000008373	0.0000002278	0.0000000012
PCB_89	0.0000000003	-.0000000078	-.0000000020	-.0000000008	0.0000000001
PCB_92	0.0000001961	0.0000016372	0.0000006382	0.0000004901	-.0000000016
PCB_94	0.0000000061	0.0000000370	0.0000000161	0.0000000151	0.0000000000
PCB_95	0.0000006117	0.0000090170	0.0000040075	0.0000012284	0.0000000053
PCB_96	0.0000000087	0.0000000991	0.0000000493	0.0000000117	0.0000000001
PCB_99	0.0000002300	0.0000022278	0.0000007001	0.0000006615	-.0000000081
PCB_103	0.0000000300	0.0000004093	0.0000001855	0.0000000550	-.0000000000
PCB_104	0.0000000009	0.0000000169	0.0000000073	0.0000000021	-.0000000000
PCB_105	-.0000001352	-.0000008910	-.0000004843	-.0000002676	-.0000000043
PCB_106	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_109	0.0000000113	0.0000001775	0.0000000662	0.0000000310	-.0000000012
PCB_111	0.0000000028	0.0000000217	0.0000000079	0.0000000076	-.0000000000
PCB_112	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_114	-.0000000176	-.0000000864	-.0000000421	-.0000000380	-.0000000005
PCB_118	-.0000001475	-.0000011398	-.0000009353	-.0000000943	-.0000000124
PCB_120	0.0000000092	0.0000000700	0.0000000262	0.0000000223	-.0000000000
PCB_121	0.0000000009	0.0000000082	0.0000000031	0.0000000025	-.0000000000
PCB_122	-.0000000038	-.0000000371	-.0000000185	-.0000000062	-.0000000000
PCB_123	-.0000000017	0.0000000100	-.0000000030	-.0000000046	-.0000000001
PCB_126	-.0000000004	-.0000000234	-.0000000092	-.0000000008	0.0000000000
PCB_127	-.0000000016	-.0000000161	-.0000000076	-.0000000030	-.0000000000
PCB_130	-.0000000676	-.0000011005	-.0000005012	-.0000001196	-.0000000005
PCB_131	-.0000000023	-.0000000465	-.0000000204	-.0000000052	0.0000000000
PCB_132	-.0000000626	-.0000011928	-.0000005176	-.0000001349	0.0000000012
PCB_133	-.0000000121	-.0000002545	-.0000001185	-.0000000151	-.0000000001

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_63	-.0000000003	0.0000001727	0.0000002505	0.0000001685	0.0000001662
PCB_64	0.0000000259	0.0000011751	0.0000011607	0.0000010169	0.0000015324
PCB_66	-.0000000041	0.0000024821	0.0000034950	0.0000024467	0.0000024677
PCB_67	0.0000000022	0.0000002723	0.0000003524	0.0000002508	0.0000002826
PCB_68	0.0000000012	0.0000004839	0.0000006907	0.0000004609	0.0000004791
PCB_72	0.0000000040	0.0000007370	0.0000010341	0.0000007082	0.0000007351
PCB_73	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_77	-.0000000018	-.0000000622	-.0000000827	-.0000000386	-.0000000827
PCB_78	-.0000000001	-.0000000045	-.0000000063	-.0000000038	-.0000000050
PCB_79	0.0000000014	0.0000000566	0.0000000487	0.0000000519	0.0000000725
PCB_80	-.0000000000	-.0000000013	-.0000000017	-.0000000010	-.0000000015
PCB_81	-.0000000003	-.0000000079	-.0000000124	-.0000000056	-.0000000094
PCB_82	0.0000000075	-.0000000649	-.0000003229	-.0000001604	0.0000001161
PCB_83	-.0000000089	0.0000003214	0.0000004791	0.0000002544	0.0000002793
PCB_84	0.0000000131	0.0000009203	0.0000009027	0.0000007815	0.0000011514
PCB_89	-.0000000000	-.0000000142	-.0000000268	-.0000000134	-.0000000124
PCB_92	-.0000000349	0.0000027198	0.0000043497	0.0000027019	0.0000022903
PCB_94	-.0000000009	0.0000000653	0.0000001054	0.0000000690	0.0000000559
PCB_95	0.0000001221	0.0000048266	0.0000044794	0.0000044051	0.0000062697
PCB_96	0.0000000007	0.0000000531	0.0000000600	0.0000000419	0.0000000646
PCB_99	-.0000000794	0.0000050422	0.0000086056	0.0000048729	0.0000038453
PCB_103	0.0000000021	0.0000002783	0.0000003539	0.0000002450	0.0000003135
PCB_104	0.0000000001	0.0000000102	0.0000000121	0.0000000093	0.0000000123
PCB_105	-.0000000400	-.0000003798	0.0000000098	-.0000004848	-.0000007088
PCB_106	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_109	-.0000000048	0.0000004035	0.0000007759	0.0000003660	0.0000003008
PCB_111	-.0000000003	0.0000000389	0.0000000595	0.0000000398	0.0000000332
PCB_112	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_114	-.0000000021	-.0000000935	-.0000000839	-.0000001081	-.0000001051
PCB_118	-.0000001229	0.0000021518	0.0000048263	0.0000020525	0.0000005698
PCB_120	-.0000000012	0.0000001255	0.0000001933	0.0000001238	0.0000001045
PCB_121	-.0000000001	0.0000000130	0.0000000198	0.0000000131	0.0000000113
PCB_122	-.0000000007	-.0000000264	-.0000000314	-.0000000231	-.0000000316
PCB_123	-.0000000052	0.0000000122	0.0000000275	0.0000000030	-.0000000052
PCB_126	0.0000000000	-.0000000086	-.0000000069	-.0000000058	-.0000000114
PCB_127	-.0000000001	-.0000000101	-.0000000103	-.0000000097	-.0000000118
PCB_130	-.0000000176	-.0000004996	-.0000004232	-.0000004190	-.0000007002
PCB_131	-.0000000019	-.0000000321	-.0000000369	-.0000000275	-.0000000416
PCB_132	-.0000000117	-.0000009039	-.0000012878	-.0000007927	-.0000009857
PCB_133	-.0000000033	-.0000000558	-.0000000000	-.0000000305	-.0000001134

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_63	0.0000000039	-.0000000004	-.0000000003	0.0000000082	0.0000000013
PCB_64	0.0000000119	-.0000000010	-.0000000011	-.0000000010	0.0000000171
PCB_66	0.0000000529	-.0000000061	-.0000000044	0.0000001129	0.0000000186
PCB_67	0.0000000056	-.0000000004	-.0000000003	0.0000000133	0.0000000025
PCB_68	0.0000000105	-.0000000009	-.0000000008	0.0000000195	0.0000000036
PCB_72	0.0000000159	-.0000000013	-.0000000011	0.0000000324	0.0000000057
PCB_73	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_77	-.0000000009	0.0000000001	0.0000000003	0.0000000032	-.0000000004
PCB_78	-.0000000001	0.0000000000	0.0000000000	-.0000000001	-.0000000000
PCB_79	0.0000000007	-.0000000001	-.0000000001	0.0000000029	0.0000000007
PCB_80	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_81	-.0000000002	0.0000000000	0.0000000000	-.0000000001	-.0000000000
PCB_82	-.0000000074	0.0000000004	-.0000000001	-.0000000303	0.0000000026
PCB_83	0.0000000076	-.0000000005	-.0000000004	0.0000000001	0.0000000027
PCB_84	0.0000000106	-.0000000008	-.0000000004	0.0000000068	0.0000000140
PCB_89	-.0000000004	0.0000000000	0.0000000001	-.0000000006	0.0000000001
PCB_92	0.0000000720	-.0000000070	-.0000000054	0.0000001457	0.0000000126
PCB_94	0.0000000016	-.0000000002	-.0000000001	0.0000000033	0.0000000004
PCB_95	0.0000000486	-.0000000018	-.0000000024	0.0000000577	0.0000000728
PCB_96	0.0000000007	-.0000000001	-.0000000000	-.0000000003	0.0000000007
PCB_99	0.0000001561	-.0000000144	-.0000000143	0.0000003602	0.0000000071
PCB_103	0.0000000046	-.0000000004	-.0000000005	0.0000000022	0.0000000027
PCB_104	0.0000000001	-.0000000000	-.0000000000	0.0000000001	0.0000000001
PCB_105	0.0000000071	-.0000000018	-.0000000039	0.0000000005	-.0000000162
PCB_106	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_109	0.0000000138	-.0000000016	-.0000000018	0.0000000285	-.0000000011
PCB_111	0.0000000010	-.0000000001	-.0000000001	0.0000000023	0.0000000002
PCB_112	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_114	-.0000000010	-.0000000001	-.0000000004	-.0000000049	-.0000000020
PCB_118	0.0000001155	-.0000000119	-.0000000135	0.0000003768	-.0000000283
PCB_120	0.0000000034	-.0000000002	-.0000000002	0.0000000080	0.0000000007
PCB_121	0.0000000003	-.0000000000	-.0000000000	0.0000000007	0.0000000001
PCB_122	-.0000000003	-.0000000000	0.0000000000	0.0000000002	-.0000000004
PCB_123	0.0000000005	-.0000000001	-.0000000002	-.0000000041	-.0000000002
PCB_126	-.0000000001	0.0000000000	0.0000000000	-.0000000000	-.0000000001
PCB_127	-.0000000001	0.0000000000	-.0000000000	-.0000000003	-.0000000002
PCB_130	-.0000000037	0.0000000000	0.0000000004	0.0000000024	-.0000000080
PCB_131	-.0000000005	-.0000000000	0.0000000001	-.0000000004	-.0000000003
PCB_132	-.0000000183	0.0000000019	0.0000000028	-.0000000200	-.0000000052
PCB_133	0.0000000008	-.0000000000	0.0000000001	0.0000000054	-.0000000016

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_63	0.0000000005	0.0000001583	0.0000000191	0.0000000177	0.0000000060
PCB_64	0.0000000082	0.0000021505	-.0000000353	0.0000002116	0.0000001356
PCB_66	0.0000000076	0.0000023825	0.0000001975	0.0000002259	0.0000000800
PCB_67	0.0000000011	0.0000003017	0.0000000207	0.0000000325	0.0000000127
PCB_68	0.0000000012	0.0000004442	0.0000000433	0.0000000481	0.0000000113
PCB_72	0.0000000020	0.0000006883	0.0000000655	0.0000000755	0.0000000219
PCB_73	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_77	-.0000000001	-.0000000825	0.0000000057	-.0000000063	0.0000000044
PCB_78	-.0000000000	-.0000000044	0.0000000000	-.0000000003	0.0000000002
PCB_79	0.0000000004	0.0000000892	-.0000000058	0.0000000056	0.0000000037
PCB_80	-.0000000000	-.0000000015	0.0000000001	-.0000000001	0.0000000001
PCB_81	-.0000000000	-.0000000080	-.0000000003	-.0000000007	0.0000000005
PCB_82	0.0000000020	0.0000004373	-.0000000870	0.0000000281	0.0000000266
PCB_83	0.0000000006	0.0000003363	0.0000000580	0.0000000556	0.0000000134
PCB_84	0.0000000069	0.0000017283	0.0000000121	0.0000001872	0.0000001265
PCB_89	0.0000000001	0.0000000026	-.0000000002	0.0000000012	0.0000000029
PCB_92	0.0000000019	0.0000014930	0.0000003726	0.0000001762	-.0000000342
PCB_94	0.0000000001	0.0000000490	0.0000000116	0.0000000066	0.0000000031
PCB_95	0.0000000342	0.0000085751	-.0000002128	0.0000008128	0.0000005735
PCB_96	0.0000000003	0.0000000956	0.0000000032	0.0000000116	0.0000000064
PCB_99	-.0000000053	0.0000009688	0.0000006905	0.0000000703	-.0000004056
PCB_103	0.0000000011	0.0000003584	0.0000000082	0.0000000364	0.0000000126
PCB_104	0.0000000000	0.0000000139	-.0000000003	0.0000000011	0.0000000004
PCB_105	-.0000000089	-.0000016698	-.0000000363	-.0000002319	-.0000002794
PCB_106	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_109	-.0000000011	-.0000000202	0.0000000599	-.0000000085	-.0000000586
PCB_111	0.0000000000	0.0000000227	0.0000000051	0.0000000027	0.0000000001
PCB_112	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_114	-.0000000009	-.0000001800	-.0000000152	-.0000000269	-.0000000282
PCB_118	-.0000000180	-.0000031703	0.0000004199	-.0000004774	-.0000007546
PCB_120	0.0000000001	0.0000000661	0.0000000171	0.0000000085	-.0000000014
PCB_121	0.0000000000	0.0000000079	0.0000000016	0.0000000009	-.0000000000
PCB_122	-.0000000001	-.0000000414	-.0000000019	-.0000000056	-.0000000031
PCB_123	-.0000000003	-.0000000228	-.0000000027	-.0000000046	-.0000000090
PCB_126	-.0000000000	-.0000000122	0.0000000024	-.0000000000	0.0000000008
PCB_127	-.0000000001	-.0000000184	-.0000000008	-.0000000022	-.0000000018
PCB_130	-.0000000039	-.0000009880	0.0000000423	-.0000000919	-.0000000590
PCB_131	-.0000000001	-.0000000363	0.0000000022	-.0000000033	0.0000000002
PCB_132	-.0000000016	-.0000008159	-.0000000102	-.0000000596	0.0000000298
PCB_133	-.0000000009	-.0000002109	0.0000000206	-.0000000172	-.0000000134

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_63	0.0000023537	0.0000000150	-.0000000003	-.0000000045	0.0000000570
PCB_64	0.0000263714	0.0000002239	-.0000000011	0.0000005189	0.0000001362
PCB_66	0.0000350113	0.0000002295	-.0000000044	-.0000000371	0.0000007387
PCB_67	0.0000044004	0.0000000314	-.0000000003	0.0000000238	0.0000000823
PCB_68	0.0000066915	0.0000000462	-.0000000008	-.0000000262	0.0000001605
PCB_72	0.0000101549	0.0000000702	-.0000000011	-.0000000183	0.0000002415
PCB_73	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_77	-.0000013893	-.0000000138	0.0000000003	0.0000000147	-.0000000141
PCB_78	-.0000000740	-.0000000006	0.0000000000	0.0000000009	-.0000000012
PCB_79	0.0000012081	0.0000000099	-.0000000001	0.0000000196	0.0000000068
PCB_80	-.0000000246	-.0000000002	0.0000000000	0.0000000003	-.0000000003
PCB_81	-.0000001509	-.0000000013	0.0000000000	0.0000000021	-.0000000021
PCB_82	0.0000049911	0.0000000574	-.0000000001	0.0000002140	-.0000001369
PCB_83	0.0000051568	0.0000000353	-.0000000004	-.0000000159	0.0000001473
PCB_84	0.0000212460	0.0000001720	-.0000000004	0.0000004711	0.0000001336
PCB_89	-.0000000868	-.0000000006	0.0000000001	0.0000000136	-.0000000068
PCB_92	0.0000278260	0.0000001457	-.0000000054	-.0000006998	0.0000011559
PCB_94	0.0000006950	0.0000000032	-.0000000001	-.0000000049	0.0000000238
PCB_95	0.0001024239	0.0000008697	-.0000000024	0.0000022373	0.0000005692
PCB_96	0.0000012231	0.0000000100	-.0000000000	0.0000000218	0.0000000102
PCB_99	0.0000422107	0.0000001807	-.0000000143	-.0000025564	0.0000025476
PCB_103	0.0000049297	0.0000000396	-.0000000005	0.0000000246	0.0000000703
PCB_104	0.0000001885	0.0000000016	-.0000000000	0.0000000012	0.0000000019
PCB_105	-.0000121727	-.0000001022	-.0000000039	-.0000010491	0.0000001721
PCB_106	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_109	0.0000032532	0.0000000139	-.0000000018	-.0000003066	0.0000002150
PCB_111	0.0000003825	0.0000000020	-.0000000001	-.0000000074	0.0000000163
PCB_112	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_114	-.0000015133	-.0000000100	-.0000000004	-.0000000909	-.0000000159
PCB_118	-.0000032895	-.0000001829	-.0000000135	-.0000033624	0.0000018831
PCB_120	0.0000012579	0.0000000066	-.0000000002	-.0000000296	0.0000000565
PCB_121	0.0000001347	0.0000000007	-.0000000000	-.0000000025	0.0000000052
PCB_122	-.0000004817	-.0000000042	0.0000000000	-.0000000088	-.0000000063
PCB_123	-.0000000095	-.0000000003	-.0000000002	-.0000000404	0.0000000184
PCB_126	-.0000002168	-.0000000020	0.0000000000	0.0000000009	-.0000000014
PCB_127	-.0000002103	-.0000000015	-.0000000000	-.0000000062	-.0000000015
PCB_130	-.0000120110	-.0000001078	0.0000000004	-.0000002576	-.0000000363
PCB_131	-.0000005094	-.0000000053	0.0000000001	0.0000000007	-.0000000081
PCB_132	-.0000138936	-.0000001130	0.0000000028	0.0000001828	-.0000002684
PCB_133	-.0000024790	-.0000000241	0.0000000001	-.0000000745	0.0000000201

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_63	0.0000000143	-.0000000271	0.0000000363	0.0000001075	0.0000005073
PCB_64	0.0000000527	-.0000000728	0.0000001075	0.0000028059	0.0000017015
PCB_66	0.0000001894	-.0000004200	0.0000005073	0.0000017015	0.0000074131
PCB_67	0.0000000212	-.0000000386	0.0000000508	0.0000002739	0.0000006971
PCB_68	0.0000000391	-.0000000880	0.0000000988	0.0000002922	0.0000013815
PCB_72	0.0000000590	-.0000001205	0.0000001463	0.0000004824	0.0000020135
PCB_73	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_77	-.0000000031	0.0000000317	-.0000000103	-.0000000638	-.0000001807
PCB_78	-.0000000003	0.0000000016	-.0000000009	-.0000000024	-.0000000145
PCB_79	0.0000000023	-.0000000074	0.0000000069	0.0000001066	0.0000001167
PCB_80	-.0000000001	0.0000000005	-.0000000002	-.0000000010	-.0000000041
PCB_81	-.0000000005	0.0000000037	-.0000000017	-.0000000039	-.0000000269
PCB_82	-.0000000251	0.0000000122	-.0000000625	0.0000008701	-.0000006536
PCB_83	0.0000000346	-.0000000505	0.0000000711	0.0000002785	0.0000008909
PCB_84	0.0000000500	-.0000000116	0.0000000907	0.0000023297	0.0000012989
PCB_89	-.0000000012	0.0000000091	-.0000000046	0.0000000266	-.0000000725
PCB_92	0.0000002622	-.0000006106	0.0000006881	-.0000003156	0.0000094990
PCB_94	0.0000000060	-.0000000073	0.0000000150	0.0000000224	0.0000002060
PCB_95	0.0000002102	-.0000001337	0.0000004089	0.0000112489	0.0000061698
PCB_96	0.0000000034	-.0000000034	0.0000000062	0.0000001241	0.0000000854
PCB_99	0.0000005376	-.0000017644	0.0000015253	-.0000044238	0.0000213496
PCB_103	0.0000000183	-.0000000489	0.0000000448	0.0000003563	0.0000006618
PCB_104	0.0000000005	-.0000000020	0.0000000015	0.0000000140	0.0000000248
PCB_105	0.0000000065	-.0000004704	0.0000001236	-.0000031668	0.0000022330
PCB_106	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_109	0.0000000444	-.0000002092	0.0000001404	-.0000006014	0.0000020565
PCB_111	0.0000000037	-.0000000068	0.0000000093	0.0000000000	0.0000001237
PCB_112	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_114	-.0000000064	-.0000000429	-.0000000028	-.0000002884	0.0000000482
PCB_118	0.0000003481	-.0000017702	0.0000011907	-.0000093385	0.0000172762
PCB_120	0.0000000125	-.0000000255	0.0000000314	-.0000000151	0.0000004141
PCB_121	0.0000000012	-.0000000025	0.0000000031	0.0000000004	0.0000000420
PCB_122	-.0000000017	0.0000000003	-.0000000026	-.0000000519	-.0000000272
PCB_123	0.0000000026	-.0000000200	0.0000000090	-.0000000743	0.0000001511
PCB_126	-.0000000003	0.0000000044	-.0000000015	-.0000000106	-.0000000308
PCB_127	-.0000000006	-.0000000011	-.0000000010	-.0000000257	-.0000000129
PCB_130	-.0000000171	0.0000000307	-.0000000313	-.0000013333	-.0000005270
PCB_131	-.0000000016	0.0000000080	-.0000000038	-.0000000308	-.0000000488
PCB_132	-.0000000616	0.0000003019	-.0000001866	-.0000003843	-.0000028818
PCB_133	0.0000000021	0.0000000002	0.0000000067	-.0000003357	0.0000000390

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_63	0.0000000508	0.0000000988	0.0000001463	-.0000000003	-.0000000103
PCB_64	0.0000002739	0.0000002922	0.0000004824	-.0000000011	-.0000000638
PCB_66	0.0000006971	0.0000013815	0.0000020135	-.0000000044	-.0000001807
PCB_67	0.0000000864	0.0000001398	0.0000002146	-.0000000003	-.0000000138
PCB_68	0.0000001398	0.0000002778	0.0000004116	-.0000000008	-.0000000351
PCB_72	0.0000002146	0.0000004116	0.0000006195	-.0000000011	-.0000000446
PCB_73	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_77	-.0000000138	-.0000000351	-.0000000446	0.0000000003	0.0000000184
PCB_78	-.0000000012	-.0000000027	-.0000000037	0.0000000000	0.0000000008
PCB_79	0.0000000167	0.0000000191	0.0000000303	-.0000000001	-.0000000038
PCB_80	-.0000000003	-.0000000008	-.0000000010	0.0000000000	0.0000000003
PCB_81	-.0000000022	-.0000000051	-.0000000068	0.0000000000	0.0000000020
PCB_82	-.0000000383	-.0000001773	-.0000002709	-.0000000001	-.0000000238
PCB_83	0.0000001088	0.0000001968	0.0000002931	-.0000000004	-.0000000184
PCB_84	0.0000002483	0.0000002257	0.0000003906	-.0000000004	-.0000000204
PCB_89	-.0000000038	-.0000000145	-.0000000190	0.0000000001	0.0000000042
PCB_92	0.0000008432	0.0000019316	0.0000027987	-.0000000054	-.0000002125
PCB_94	0.0000000179	0.0000000396	0.0000000581	-.0000000001	-.0000000023
PCB_95	0.0000011415	0.0000011383	0.0000020221	-.0000000024	-.0000001274
PCB_96	0.0000000146	0.0000000161	0.0000000260	-.0000000000	-.0000000027
PCB_99	0.0000017867	0.0000043866	0.0000062078	-.0000000143	-.0000006300
PCB_103	0.0000000711	0.0000001286	0.0000001895	-.0000000005	-.0000000258
PCB_104	0.0000000024	0.0000000044	0.0000000063	-.0000000000	-.0000000012
PCB_105	-.0000000134	0.0000004203	0.0000004035	-.0000000039	-.0000002152
PCB_106	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_109	0.0000001453	0.0000004073	0.0000005493	-.0000000018	-.0000000877
PCB_111	0.0000000121	0.0000000261	0.0000000390	-.0000000001	-.0000000018
PCB_112	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_114	-.0000000232	-.0000000007	-.0000000276	-.0000000004	-.0000000246
PCB_118	0.0000012261	0.0000034481	0.0000046248	-.0000000135	-.0000006182
PCB_120	0.0000000422	0.0000000891	0.0000001330	-.0000000002	-.0000000068
PCB_121	0.0000000040	0.0000000087	0.0000000128	-.0000000000	-.0000000008
PCB_122	-.0000000061	-.0000000079	-.0000000142	0.0000000000	0.0000000001
PCB_123	0.0000000038	0.0000000288	0.0000000322	-.0000000002	-.0000000101
PCB_126	-.0000000027	-.0000000049	-.0000000061	0.0000000000	0.0000000024
PCB_127	-.0000000028	-.0000000021	-.0000000042	-.0000000000	-.0000000005
PCB_130	-.0000001135	-.0000000937	-.0000001701	0.0000000004	0.0000000282
PCB_131	-.0000000076	-.0000000143	-.0000000234	0.0000000001	0.0000000034
PCB_132	-.0000002406	-.0000005589	-.0000007759	0.0000000028	0.0000001493
PCB_133	-.0000000082	0.0000000193	0.0000000262	0.0000000001	0.0000000072

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_63	-.0000000009	0.0000000069	-.0000000002	-.0000000017	-.0000000625
PCB_64	-.0000000024	0.0000001066	-.0000000010	-.0000000039	0.0000008701
PCB_66	-.0000000145	0.0000001167	-.0000000041	-.0000000269	-.0000006536
PCB_67	-.0000000012	0.0000000167	-.0000000003	-.0000000022	-.0000000383
PCB_68	-.0000000027	0.0000000191	-.0000000008	-.0000000051	-.0000001773
PCB_72	-.0000000037	0.0000000303	-.0000000010	-.0000000068	-.0000002709
PCB_73	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_77	0.0000000008	-.0000000038	0.0000000003	0.0000000020	-.0000000238
PCB_78	0.0000000000	-.0000000002	0.0000000000	0.0000000001	0.0000000006
PCB_79	-.0000000002	0.0000000070	-.0000000001	-.0000000004	0.0000000323
PCB_80	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000002
PCB_81	0.0000000001	-.0000000004	0.0000000000	0.0000000003	-.0000000001
PCB_82	0.0000000006	0.0000000323	-.0000000002	-.0000000001	0.0000007041
PCB_83	-.0000000014	0.0000000082	-.0000000004	-.0000000023	-.0000001068
PCB_84	-.0000000006	0.0000000877	-.0000000003	-.0000000003	0.0000007011
PCB_89	0.0000000003	0.0000000001	0.0000000001	0.0000000006	0.0000000199
PCB_92	-.0000000193	0.0000000503	-.0000000051	-.0000000350	-.0000022040
PCB_94	-.0000000003	0.0000000010	-.0000000001	-.0000000005	-.0000000396
PCB_95	-.0000000050	0.0000004457	-.0000000021	0.0000000005	0.0000030510
PCB_96	-.0000000001	0.0000000042	-.0000000000	-.0000000002	0.0000000353
PCB_99	-.0000000521	0.0000000734	-.0000000141	-.0000001026	-.0000058690
PCB_103	-.0000000015	0.0000000156	-.0000000005	-.0000000028	0.0000000283
PCB_104	-.0000000001	0.0000000007	-.0000000000	-.0000000001	0.0000000027
PCB_105	-.0000000127	-.0000000520	-.0000000041	-.0000000295	-.0000010774
PCB_106	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_109	-.0000000061	0.0000000021	-.0000000018	-.0000000136	-.0000005255
PCB_111	-.0000000002	0.0000000008	-.0000000001	-.0000000003	-.0000000322
PCB_112	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_114	-.0000000011	-.0000000054	-.0000000004	-.0000000031	-.0000000265
PCB_118	-.0000000512	-.0000000032	-.0000000139	-.0000001077	-.0000060174
PCB_120	-.0000000008	0.0000000028	-.0000000002	-.0000000013	-.0000001119
PCB_121	-.0000000001	0.0000000003	-.0000000000	-.0000000001	-.0000000099
PCB_122	-.0000000000	-.0000000011	-.0000000000	-.0000000001	-.0000000049
PCB_123	-.0000000006	-.0000000015	-.0000000002	-.0000000009	-.0000000358
PCB_126	0.0000000001	-.0000000013	0.0000000000	0.0000000003	-.0000000064
PCB_127	-.0000000000	-.0000000009	-.0000000000	-.0000000001	-.0000000062
PCB_130	0.0000000008	-.0000000525	0.0000000004	0.0000000011	-.0000004556
PCB_131	0.0000000002	-.0000000016	0.0000000001	0.0000000003	0.0000000069
PCB_132	0.0000000086	-.0000000424	0.0000000027	0.0000000187	0.0000002206
PCB_133	-.0000000000	-.0000000129	0.0000000001	0.0000000001	-.0000001873

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_63	0.0000000711	0.0000000907	-.0000000046	0.0000006881	0.0000000150
PCB_64	0.0000002785	0.0000023297	0.0000000266	-.0000003156	0.0000000224
PCB_66	0.0000008909	0.0000012989	-.0000000725	0.0000094990	0.0000002060
PCB_67	0.0000001088	0.0000002483	-.0000000038	0.0000008432	0.0000000179
PCB_68	0.0000001968	0.0000002257	-.0000000145	0.0000019316	0.0000000396
PCB_72	0.0000002931	0.0000003906	-.0000000190	0.0000027987	0.0000000581
PCB_73	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_77	-.0000000184	-.0000000204	0.0000000042	-.0000002125	-.0000000023
PCB_78	-.0000000014	-.0000000006	0.0000000003	-.0000000193	-.0000000003
PCB_79	0.0000000082	0.0000000877	0.0000000001	0.0000000503	0.0000000010
PCB_80	-.0000000004	-.0000000003	0.0000000001	-.0000000051	-.0000000001
PCB_81	-.0000000023	-.0000000003	0.0000000006	-.0000000350	-.0000000005
PCB_82	-.0000001068	0.0000007011	0.0000000199	-.0000022040	-.0000000396
PCB_83	0.0000002437	0.0000003005	-.0000000048	0.0000013528	0.0000000294
PCB_84	0.0000003005	0.0000020826	0.0000000319	-.0000003696	0.0000000202
PCB_89	-.0000000048	0.0000000319	0.0000000021	-.0000001392	-.0000000019
PCB_92	0.0000013528	-.0000003696	-.0000001392	0.0000157967	0.0000002996
PCB_94	0.0000000294	0.0000000202	-.0000000019	0.0000002996	0.0000000072
PCB_95	0.0000010147	0.0000094506	0.0000001287	-.0000016374	0.0000000784
PCB_96	0.0000000215	0.0000001107	0.0000000013	0.0000000109	0.0000000017
PCB_99	0.0000027512	-.0000041944	-.0000004187	0.0000391172	0.0000006322
PCB_103	0.0000001002	0.0000002732	-.0000000044	0.0000006938	0.0000000159
PCB_104	0.0000000023	0.0000000097	-.0000000002	0.0000000218	0.0000000005
PCB_105	0.0000000779	-.0000030422	-.0000001263	0.0000064388	0.0000000457
PCB_106	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_109	0.0000002138	-.0000006145	-.0000000486	0.0000037841	0.0000000571
PCB_111	0.0000000188	0.0000000003	-.0000000016	0.0000002084	0.0000000040
PCB_112	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_114	-.0000000339	-.0000002985	-.0000000109	0.0000002708	-.0000000024
PCB_118	0.0000017379	-.0000082746	-.0000004707	0.0000363136	0.0000004684
PCB_120	0.0000000666	-.0000000078	-.0000000057	0.0000007232	0.0000000132
PCB_121	0.0000000060	0.0000000001	-.0000000006	0.0000000690	0.0000000013
PCB_122	-.0000000103	-.0000000450	-.0000000007	-.0000000106	-.0000000010
PCB_123	0.0000000299	-.0000000769	-.0000000049	0.0000003365	0.0000000041
PCB_126	-.0000000018	-.0000000054	0.0000000006	-.0000000306	-.0000000001
PCB_127	-.0000000032	-.0000000243	-.0000000005	0.0000000067	-.0000000003
PCB_130	-.0000000857	-.0000010930	-.0000000148	0.0000005428	0.0000000008
PCB_131	-.0000000066	-.0000000163	0.0000000008	-.0000000733	-.0000000008
PCB_132	-.0000002858	-.0000000699	0.0000000512	-.0000040341	-.0000000655
PCB_133	0.0000000080	-.0000002744	-.0000000057	0.0000004661	0.0000000068

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_63	0.0000004089	0.0000000062	0.0000015253	0.0000000448	0.0000000015
PCB_64	0.0000112489	0.0000001241	-.0000044238	0.0000003563	0.0000000140
PCB_66	0.0000061698	0.0000000854	0.0000213496	0.0000006618	0.0000000248
PCB_67	0.0000011415	0.0000000146	0.0000017867	0.0000000711	0.0000000024
PCB_68	0.0000011383	0.0000000161	0.0000043866	0.0000001286	0.0000000044
PCB_72	0.0000020221	0.0000000260	0.0000062078	0.0000001895	0.0000000063
PCB_73	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_77	-.0000001274	-.0000000027	-.0000006300	-.0000000258	-.0000000012
PCB_78	-.0000000050	-.0000000001	-.0000000521	-.0000000015	-.0000000001
PCB_79	0.0000004457	0.0000000042	0.0000000734	0.0000000156	0.0000000007
PCB_80	-.0000000021	-.0000000000	-.0000000141	-.0000000005	-.0000000000
PCB_81	0.0000000005	-.0000000002	-.0000001026	-.0000000028	-.0000000001
PCB_82	0.0000030510	0.0000000353	-.0000058690	0.0000000283	0.0000000027
PCB_83	0.0000010147	0.0000000215	0.0000027512	0.0000001002	0.0000000023
PCB_84	0.0000094506	0.0000001107	-.0000041944	0.0000002732	0.0000000097
PCB_89	0.0000001287	0.0000000013	-.0000004187	-.0000000044	-.0000000002
PCB_92	-.0000016374	0.0000000109	0.0000391172	0.0000006938	0.0000000218
PCB_94	0.0000000784	0.0000000017	0.0000006322	0.0000000159	0.0000000005
PCB_95	0.0000478192	0.0000004795	-.0000196413	0.0000013398	0.0000000517
PCB_96	0.0000004795	0.0000000063	-.0000001470	0.0000000168	0.0000000006
PCB_99	-.0000196413	-.0000001470	0.0001072261	0.0000013035	0.0000000432
PCB_103	0.0000013398	0.0000000168	0.0000013035	0.0000000841	0.0000000031
PCB_104	0.0000000517	0.0000000006	0.0000000432	0.0000000031	0.0000000001
PCB_105	-.0000148224	-.0000001423	0.0000238077	-.0000000215	0.0000000023
PCB_106	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_109	-.0000030242	-.0000000221	0.0000110221	0.0000001180	0.0000000046
PCB_111	0.0000000151	0.0000000003	0.0000004968	0.0000000091	0.0000000003
PCB_112	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_114	-.0000014716	-.0000000140	0.0000015120	-.0000000120	0.0000000002
PCB_118	-.0000408905	-.0000003790	0.0001126913	0.0000005504	0.0000000219
PCB_120	-.0000000138	0.0000000007	0.0000017894	0.0000000299	0.0000000008
PCB_121	0.0000000042	0.0000000001	0.0000001667	0.0000000031	0.0000000001
PCB_122	-.0000002297	-.0000000025	0.0000000811	-.0000000070	-.0000000002
PCB_123	-.0000003877	-.0000000033	0.0000009995	0.0000000112	0.0000000004
PCB_126	-.0000000285	-.0000000003	-.0000001065	-.0000000035	-.0000000002
PCB_127	-.0000001092	-.0000000012	0.0000000639	-.0000000025	-.0000000001
PCB_130	-.0000054936	-.0000000566	0.0000028969	-.0000001517	-.0000000062
PCB_131	-.0000001569	-.0000000010	-.0000001682	-.0000000084	-.0000000003
PCB_132	-.0000008050	-.0000000157	-.0000107414	-.0000002792	-.0000000118
PCB_133	-.0000012854	-.0000000139	0.0000014535	-.0000000251	-.0000000013

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_63	0.0000001236	-.0000000003	0.0000001404	0.0000000093	-.0000000003
PCB_64	-.0000031668	-.0000000011	-.0000006014	0.0000000000	-.0000000011
PCB_66	0.0000022330	-.0000000044	0.0000020565	0.0000001237	-.0000000044
PCB_67	-.0000000134	-.0000000003	0.0000001453	0.0000000121	-.0000000003
PCB_68	0.0000004203	-.0000000008	0.0000004073	0.0000000261	-.0000000008
PCB_72	0.0000004035	-.0000000011	0.0000005493	0.0000000390	-.0000000011
PCB_73	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_77	-.0000002152	0.0000000003	-.0000000877	-.0000000018	0.0000000003
PCB_78	-.0000000127	0.0000000000	-.0000000061	-.0000000002	0.0000000000
PCB_79	-.0000000520	-.0000000001	0.0000000021	0.0000000008	-.0000000001
PCB_80	-.0000000041	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_81	-.0000000295	0.0000000000	-.0000000136	-.0000000003	0.0000000000
PCB_82	-.0000010774	-.0000000001	-.0000005255	-.0000000322	-.0000000001
PCB_83	0.0000000779	-.0000000004	0.0000002138	0.0000000188	-.0000000004
PCB_84	-.0000030422	-.0000000004	-.0000006145	0.0000000003	-.0000000004
PCB_89	-.0000001263	0.0000000001	-.0000000486	-.0000000016	0.0000000001
PCB_92	0.0000064388	-.0000000054	0.0000037841	0.0000002084	-.0000000054
PCB_94	0.0000000457	-.0000000001	0.0000000571	0.0000000040	-.0000000001
PCB_95	-.0000148224	-.0000000024	-.0000030242	0.0000000151	-.0000000024
PCB_96	-.0000001423	-.0000000000	-.0000000221	0.0000000003	-.0000000000
PCB_99	0.0000238077	-.0000000143	0.0000110221	0.0000004968	-.0000000143
PCB_103	-.0000000215	-.0000000005	0.0000001180	0.0000000091	-.0000000005
PCB_104	0.0000000023	-.0000000000	0.0000000046	0.0000000003	-.0000000000
PCB_105	0.0000097759	-.0000000039	0.0000029734	0.0000000605	-.0000000039
PCB_106	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_109	0.0000029734	-.0000000018	0.0000012380	0.0000000441	-.0000000018
PCB_111	0.0000000605	-.0000000001	0.0000000441	0.0000000029	-.0000000001
PCB_112	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_114	0.0000009202	-.0000000004	0.0000002375	0.0000000002	-.0000000004
PCB_118	0.0000324996	-.0000000135	0.0000123216	0.0000004325	-.0000000135
PCB_120	0.0000002488	-.0000000002	0.0000001616	0.0000000101	-.0000000002
PCB_121	0.0000000227	-.0000000000	0.0000000154	0.0000000009	-.0000000000
PCB_122	0.0000000923	0.0000000000	0.0000000163	-.0000000005	0.0000000000
PCB_123	0.0000003628	-.0000000002	0.0000001100	0.0000000036	-.0000000002
PCB_126	-.0000000403	0.0000000000	-.0000000135	-.0000000003	0.0000000000
PCB_127	0.0000000455	-.0000000000	0.0000000098	-.0000000000	-.0000000000
PCB_130	0.0000016218	0.0000000004	0.0000003700	0.0000000044	0.0000000004
PCB_131	0.0000000050	0.0000000001	-.0000000131	-.0000000012	0.0000000001
PCB_132	-.0000024341	0.0000000028	-.0000012119	-.0000000472	0.0000000028
PCB_133	0.0000004179	0.0000000001	0.0000001458	0.0000000064	0.0000000001

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_63	-.0000000028	0.0000011907	0.0000000314	0.0000000031	-.0000000026
PCB_64	-.0000002884	-.0000093385	-.0000000151	0.0000000004	-.0000000519
PCB_66	0.0000000482	0.0000172762	0.0000004141	0.0000000420	-.0000000272
PCB_67	-.0000000232	0.0000012261	0.0000000422	0.0000000040	-.0000000061
PCB_68	-.0000000007	0.0000034481	0.0000000891	0.0000000087	-.0000000079
PCB_72	-.0000000276	0.0000046248	0.0000001330	0.0000000128	-.0000000142
PCB_73	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_77	-.0000000246	-.0000006182	-.0000000068	-.0000000008	0.0000000001
PCB_78	-.0000000011	-.0000000512	-.0000000008	-.0000000001	-.0000000000
PCB_79	-.0000000054	-.0000000032	0.0000000028	0.0000000003	-.0000000011
PCB_80	-.0000000004	-.0000000139	-.0000000002	-.0000000000	-.0000000000
PCB_81	-.0000000031	-.0000001077	-.0000000013	-.0000000001	-.0000000001
PCB_82	-.0000000265	-.0000060174	-.0000001119	-.0000000099	-.0000000049
PCB_83	-.0000000339	0.0000017379	0.0000000666	0.0000000060	-.0000000103
PCB_84	-.0000002985	-.0000082746	-.0000000078	0.0000000001	-.0000000450
PCB_89	-.0000000109	-.0000004707	-.0000000057	-.0000000006	-.0000000007
PCB_92	0.0000002708	0.0000363136	0.0000007232	0.0000000690	-.0000000106
PCB_94	-.0000000024	0.0000004684	0.0000000132	0.0000000013	-.0000000010
PCB_95	-.0000014716	-.0000408905	-.0000000138	0.0000000042	-.0000002297
PCB_96	-.0000000140	-.0000003790	0.0000000007	0.0000000001	-.0000000025
PCB_99	0.0000015120	0.0001126913	0.0000017894	0.0000001667	0.0000000811
PCB_103	-.0000000120	0.0000005504	0.0000000299	0.0000000031	-.0000000070
PCB_104	0.0000000002	0.0000000219	0.0000000008	0.0000000001	-.0000000002
PCB_105	0.0000009202	0.0000324996	0.0000002488	0.0000000227	0.0000000923
PCB_106	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_109	0.0000002375	0.0000123216	0.0000001616	0.0000000154	0.0000000163
PCB_111	0.0000000002	0.0000004325	0.0000000101	0.0000000009	-.0000000005
PCB_112	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_114	0.0000001023	0.0000025100	0.0000000042	0.0000000005	0.0000000105
PCB_118	0.0000025100	0.0001359617	0.0000016396	0.0000001483	0.0000002456
PCB_120	0.0000000042	0.0000016396	0.0000000355	0.0000000033	-.0000000012
PCB_121	0.0000000005	0.0000001483	0.0000000033	0.0000000003	-.0000000001
PCB_122	0.0000000105	0.0000002456	-.0000000012	-.0000000001	0.0000000017
PCB_123	0.0000000305	0.0000011687	0.0000000132	0.0000000013	0.0000000023
PCB_126	-.0000000043	-.0000001372	-.0000000011	-.0000000001	-.0000000003
PCB_127	0.0000000047	0.0000001178	0.0000000001	0.0000000000	0.0000000006
PCB_130	0.0000001429	0.0000050981	0.0000000209	0.0000000013	0.0000000251
PCB_131	0.0000000026	-.0000000656	-.0000000043	-.0000000004	0.0000000013
PCB_132	-.0000002025	-.0000103669	-.0000001660	-.0000000168	0.0000000006
PCB_133	0.0000000246	0.0000017772	0.0000000231	0.0000000020	0.0000000041

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_63	0.0000000090	-.0000000015	-.0000000010	-.0000000313	-.0000000038
PCB_64	-.0000000743	-.0000000106	-.0000000257	-.0000013333	-.0000000308
PCB_66	0.0000001511	-.0000000308	-.0000000129	-.0000005270	-.0000000488
PCB_67	0.0000000038	-.0000000027	-.0000000028	-.0000001135	-.0000000076
PCB_68	0.0000000288	-.0000000049	-.0000000021	-.0000000937	-.0000000143
PCB_72	0.0000000322	-.0000000061	-.0000000042	-.0000001701	-.0000000234
PCB_73	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_77	-.0000000101	0.0000000024	-.0000000005	0.0000000282	0.0000000034
PCB_78	-.0000000006	0.0000000001	-.0000000000	0.0000000008	0.0000000002
PCB_79	-.0000000015	-.0000000013	-.0000000009	-.0000000525	-.0000000016
PCB_80	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_81	-.0000000009	0.0000000003	-.0000000001	0.0000000011	0.0000000003
PCB_82	-.0000000358	-.0000000064	-.0000000062	-.0000004556	0.0000000069
PCB_83	0.0000000299	-.0000000018	-.0000000032	-.0000000857	-.0000000066
PCB_84	-.0000000769	-.0000000054	-.0000000243	-.0000010930	-.0000000163
PCB_89	-.0000000049	0.0000000006	-.0000000005	-.0000000148	0.0000000008
PCB_92	0.0000003365	-.0000000306	0.0000000067	0.0000005428	-.0000000733
PCB_94	0.0000000041	-.0000000001	-.0000000003	0.0000000008	-.0000000008
PCB_95	-.0000003877	-.0000000285	-.0000001092	-.0000054936	-.0000001569
PCB_96	-.0000000033	-.0000000003	-.0000000012	-.0000000566	-.0000000010
PCB_99	0.0000009995	-.0000001065	0.0000000639	0.0000028969	-.0000001682
PCB_103	0.0000000112	-.0000000035	-.0000000025	-.0000001517	-.0000000084
PCB_104	0.0000000004	-.0000000002	-.0000000001	-.0000000062	-.0000000003
PCB_105	0.0000003628	-.0000000403	0.0000000455	0.0000016218	0.0000000050
PCB_106	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_109	0.0000001100	-.0000000135	0.0000000098	0.0000003700	-.0000000131
PCB_111	0.0000000036	-.0000000003	-.0000000000	0.0000000044	-.0000000012
PCB_112	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_114	0.0000000305	-.0000000043	0.0000000047	0.0000001429	0.0000000026
PCB_118	0.0000011687	-.0000001372	0.0000001178	0.0000050981	-.0000000656
PCB_120	0.0000000132	-.0000000011	0.0000000001	0.0000000209	-.0000000043
PCB_121	0.0000000013	-.0000000001	0.0000000000	0.0000000013	-.0000000004
PCB_122	0.0000000023	-.0000000003	0.0000000006	0.0000000251	0.0000000013
PCB_123	0.0000000235	-.0000000020	0.0000000014	0.0000000457	0.0000000003
PCB_126	-.0000000020	0.0000000006	-.0000000001	0.0000000050	0.0000000003
PCB_127	0.0000000014	-.0000000001	0.0000000003	0.0000000118	0.0000000001
PCB_130	0.0000000457	0.0000000050	0.0000000118	0.0000006634	0.0000000185
PCB_131	0.0000000003	0.0000000003	0.0000000001	0.0000000185	0.0000000029
PCB_132	-.0000001080	0.0000000218	-.0000000040	0.0000001120	0.0000000355
PCB_133	0.0000000125	0.0000000018	0.0000000028	0.0000001696	0.0000000007

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_63	-.0000001866	0.0000000067	-.0000001069	-.0000000051	-.0000002873
PCB_64	-.0000003843	-.0000003357	0.0000004069	-.0000010895	-.0000028515
PCB_66	-.0000028818	0.0000000390	-.0000013811	0.0000001229	-.0000043204
PCB_67	-.0000002406	-.0000000082	-.0000001483	-.0000000804	-.0000004952
PCB_68	-.0000005589	0.0000000193	-.0000003228	0.0000000425	-.0000007986
PCB_72	-.0000007759	0.0000000262	-.0000004830	-.0000000265	-.0000012168
PCB_73	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_77	0.0000001493	0.0000000072	0.0000000331	-.0000001087	0.0000001319
PCB_78	0.0000000086	-.0000000000	0.0000000033	-.0000000046	0.0000000082
PCB_79	-.0000000424	-.0000000129	-.0000000081	-.0000000329	-.0000001334
PCB_80	0.0000000027	0.0000000001	0.0000000008	-.0000000017	0.0000000026
PCB_81	0.0000000187	0.0000000001	0.0000000062	-.0000000129	0.0000000150
PCB_82	0.0000002206	-.0000001873	0.0000005268	-.0000002121	-.0000003704
PCB_83	-.0000002858	0.0000000080	-.0000001977	-.0000000622	-.0000005167
PCB_84	-.0000000699	-.0000002744	0.0000003467	-.0000011729	-.0000022475
PCB_89	0.0000000512	-.0000000057	0.0000000293	-.0000000448	0.0000000130
PCB_92	-.0000040341	0.0000004661	-.0000028745	0.0000013031	-.0000036343
PCB_94	-.0000000655	0.0000000068	-.0000000396	-.0000000065	-.0000000974
PCB_95	-.0000008050	-.0000012854	0.0000013221	-.0000054536	-.0000113705
PCB_96	-.0000000157	-.0000000139	0.0000000150	-.0000000504	-.0000001250
PCB_99	-.0000107414	0.0000014535	-.0000081418	0.0000062216	-.0000055034
PCB_103	-.0000002792	-.0000000251	-.0000000760	-.0000000199	-.0000005467
PCB_104	-.0000000118	-.0000000013	-.0000000019	0.0000000007	-.0000000215
PCB_105	-.0000024341	0.0000004179	-.0000016127	0.0000033952	0.0000014955
PCB_106	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_109	-.0000012119	0.0000001458	-.0000007816	0.0000009301	-.0000004044
PCB_111	-.0000000472	0.0000000064	-.0000000397	0.0000000061	-.0000000515
PCB_112	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_114	-.0000002025	0.0000000246	-.0000000769	0.0000003648	0.0000001968
PCB_118	-.0000103669	0.0000017772	-.0000085993	0.0000091118	0.0000000133
PCB_120	-.0000001660	0.0000000231	-.0000001473	0.0000000347	-.0000001599
PCB_121	-.0000000168	0.0000000020	-.0000000129	0.0000000033	-.0000000178
PCB_122	0.0000000006	0.0000000041	-.0000000027	0.0000000296	0.0000000524
PCB_123	-.0000001080	0.0000000125	-.0000000555	0.0000001153	0.0000000078
PCB_126	0.0000000218	0.0000000018	0.0000000063	-.0000000130	0.0000000211
PCB_127	-.0000000040	0.0000000028	-.0000000048	0.0000000189	0.0000000238
PCB_130	0.0000001120	0.0000001696	-.0000002099	0.0000005210	0.0000012716
PCB_131	0.0000000355	0.0000000007	0.0000000230	-.0000000072	0.0000000550
PCB_132	0.0000016677	-.0000000286	0.0000007204	-.0000008604	0.0000015663
PCB_133	-.0000000286	0.0000000564	-.0000001265	0.0000001153	0.0000002385

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_63	-.0000000003	-.0000000952	-.0000000001	-.0000004412	0.0000000011
PCB_64	-.0000000011	-.0000005129	-.0000000010	-.0000032422	-.0000000178
PCB_66	-.0000000044	-.0000013449	-.0000000009	-.0000065426	0.0000000140
PCB_67	-.0000000003	-.0000001574	-.0000000002	-.0000007238	0.0000000002
PCB_68	-.0000000008	-.0000002703	-.0000000004	-.0000012087	0.0000000031
PCB_72	-.0000000011	-.0000004140	-.0000000005	-.0000017780	0.0000000041
PCB_73	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_77	0.0000000003	0.0000000342	0.0000000002	0.0000002179	-.0000000002
PCB_78	0.0000000000	0.0000000026	0.0000000000	0.0000000135	-.0000000000
PCB_79	-.0000000001	-.0000000325	-.0000000001	-.0000001690	-.0000000006
PCB_80	0.0000000000	0.0000000007	0.0000000000	0.0000000042	-.0000000000
PCB_81	0.0000000000	0.0000000049	0.0000000000	0.0000000276	-.0000000001
PCB_82	-.0000000001	0.0000000825	-.0000000002	-.0000003326	-.0000000111
PCB_83	-.0000000004	-.0000001690	-.0000000003	-.0000009133	0.0000000012
PCB_84	-.0000000004	-.0000004103	-.0000000005	-.0000026595	-.0000000160
PCB_89	0.0000000001	0.0000000103	0.0000000000	0.0000000378	-.0000000006
PCB_92	-.0000000054	-.0000016196	-.0000000015	-.0000066040	0.0000000418
PCB_94	-.0000000001	-.0000000331	0.0000000000	-.0000001515	0.0000000006
PCB_95	-.0000000024	-.0000021827	-.0000000040	-.0000119122	-.0000000719
PCB_96	-.0000000000	-.0000000238	-.0000000000	-.0000001603	-.0000000008
PCB_99	-.0000000143	-.0000035200	-.0000000055	-.0000132527	0.0000001236
PCB_103	-.0000000005	-.0000001388	-.0000000003	-.0000007503	-.0000000003
PCB_104	-.0000000000	-.0000000051	-.0000000000	-.0000000284	-.0000000000
PCB_105	-.0000000039	-.0000000557	-.0000000014	-.0000001367	0.0000000353
PCB_106	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_109	-.0000000018	-.0000003036	-.0000000006	-.0000012573	0.0000000132
PCB_111	-.0000000001	-.0000000231	-.0000000000	-.0000000844	0.0000000005
PCB_112	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_114	-.0000000004	0.0000000313	-.0000000001	0.0000000751	0.0000000025
PCB_118	-.0000000135	-.0000024196	-.0000000043	-.0000080069	0.0000001423
PCB_120	-.0000000002	-.0000000792	-.0000000001	-.0000002858	0.0000000018
PCB_121	-.0000000000	-.0000000077	-.0000000000	-.0000000295	0.0000000002
PCB_122	0.0000000000	0.0000000114	0.0000000000	0.0000000503	0.0000000003
PCB_123	-.0000000002	-.0000000064	-.0000000001	-.0000000762	0.0000000013
PCB_126	0.0000000000	0.0000000058	0.0000000000	0.0000000376	-.0000000000
PCB_127	-.0000000000	0.0000000043	-.0000000000	0.0000000259	0.0000000002
PCB_130	0.0000000004	0.0000002229	0.0000000006	0.0000013410	0.0000000094
PCB_131	0.0000000001	0.0000000192	0.0000000001	0.0000000546	-.0000000000
PCB_132	0.0000000028	0.0000005292	0.0000000015	0.0000025631	-.0000000086
PCB_133	0.0000000001	0.0000000142	0.0000000001	0.0000002415	0.0000000032

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_63	-.0000000001	0.0000000005	0.0000000047	-.0000000001	-.0000001005
PCB_64	0.0000000089	0.0000000041	-.0000002154	-.0000000020	-.0000023199
PCB_66	0.0000000008	0.0000000075	0.0000000527	-.0000000027	-.0000013690
PCB_67	-.0000000002	0.0000000004	-.0000000067	-.0000000002	-.0000002527
PCB_68	-.0000000005	0.0000000011	0.0000000151	-.0000000005	-.0000002330
PCB_72	-.0000000009	0.0000000015	0.0000000155	-.0000000006	-.0000004350
PCB_73	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_77	-.0000000002	-.0000000000	-.0000000015	0.0000000003	-.0000000310
PCB_78	-.0000000000	-.0000000000	-.0000000003	0.0000000000	-.0000000009
PCB_79	0.0000000002	-.0000000000	-.0000000078	-.0000000001	-.0000000843
PCB_80	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000004
PCB_81	-.0000000000	-.0000000000	-.0000000005	0.0000000000	-.0000000045
PCB_82	0.0000000048	0.0000000004	-.0000001031	-.0000000008	-.0000005122
PCB_83	-.0000000005	0.0000000014	0.0000000082	-.0000000002	-.0000002427
PCB_84	0.0000000065	0.0000000037	-.0000001866	-.0000000012	-.0000020998
PCB_89	0.0000000001	0.0000000000	-.0000000051	0.0000000000	-.0000000393
PCB_92	-.0000000115	0.0000000060	0.0000003310	-.0000000018	0.0000003238
PCB_94	-.0000000000	0.0000000003	0.0000000040	-.0000000000	-.0000000339
PCB_95	0.0000000304	0.0000000112	-.0000008971	-.0000000063	-.0000100208
PCB_96	0.0000000003	0.0000000003	-.0000000091	-.0000000001	-.0000001056
PCB_99	-.0000000431	0.0000000001	0.0000010888	-.0000000044	0.0000049930
PCB_103	0.0000000008	0.0000000008	-.0000000113	-.0000000004	-.0000002451
PCB_104	0.0000000000	0.0000000000	-.0000000006	-.0000000000	-.0000000084
PCB_105	-.0000000116	-.0000000051	0.0000003874	-.0000000013	0.0000039192
PCB_106	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_109	-.0000000039	-.0000000000	0.0000001214	-.0000000007	0.0000007949
PCB_111	-.0000000002	0.0000000001	0.0000000039	-.0000000000	-.0000000058
PCB_112	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_114	-.0000000005	-.0000000005	0.0000000303	-.0000000002	0.0000004074
PCB_118	-.0000000580	-.0000000150	0.0000013853	-.0000000026	0.0000099929
PCB_120	-.0000000008	0.0000000001	0.0000000144	-.0000000000	-.0000000007
PCB_121	-.0000000001	0.0000000000	0.0000000013	-.0000000000	-.0000000013
PCB_122	-.0000000001	-.0000000001	0.0000000036	0.0000000000	0.0000000507
PCB_123	-.0000000002	0.0000000001	0.0000000151	-.0000000001	0.0000001207
PCB_126	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000030
PCB_127	-.0000000001	-.0000000001	0.0000000022	0.0000000000	0.0000000275
PCB_130	-.0000000040	-.0000000010	0.0000001109	0.0000000009	0.0000010832
PCB_131	0.0000000001	0.0000000001	0.0000000008	0.0000000000	0.0000000164
PCB_132	0.0000000005	-.0000000009	-.0000000587	0.0000000019	-.0000001816
PCB_133	-.0000000014	-.0000000003	0.0000000335	0.0000000003	0.0000002429

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_63	0.0000000012	-.0000000003	-.0000000003	0.0000000010	-.0000002029
PCB_64	0.0000000175	-.0000000011	-.0000000011	-.0000000378	-.0000011750
PCB_66	0.0000000133	-.0000000044	-.0000000044	-.0000000027	-.0000028947
PCB_67	0.0000000022	-.0000000003	-.0000000003	0.0000000015	-.0000003270
PCB_68	0.0000000022	-.0000000008	-.0000000008	0.0000000030	-.0000005703
PCB_72	0.0000000029	-.0000000011	-.0000000011	0.0000000051	-.0000008492
PCB_73	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_77	-.0000000002	0.0000000003	0.0000000003	0.0000000019	0.0000000914
PCB_78	0.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000060
PCB_79	0.0000000001	-.0000000001	-.0000000001	-.0000000014	-.0000000648
PCB_80	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000018
PCB_81	-.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000119
PCB_82	0.0000000067	-.0000000001	-.0000000001	-.0000000231	0.0000000553
PCB_83	0.0000000083	-.0000000004	-.0000000004	0.0000000095	-.0000004334
PCB_84	0.0000000205	-.0000000004	-.0000000004	-.0000000215	-.0000009620
PCB_89	0.0000000004	0.0000000001	0.0000000001	-.0000000002	0.0000000218
PCB_92	0.0000000045	-.0000000054	-.0000000054	0.0000000607	-.0000034092
PCB_94	0.0000000006	-.0000000001	-.0000000001	0.0000000006	-.0000000713
PCB_95	0.0000000466	-.0000000024	-.0000000024	-.0000001356	-.0000044828
PCB_96	0.0000000014	-.0000000000	-.0000000000	-.0000000010	-.0000000601
PCB_99	-.0000000271	-.0000000143	-.0000000143	0.0000001861	-.0000073234
PCB_103	0.0000000026	-.0000000005	-.0000000005	-.0000000030	-.0000003185
PCB_104	0.0000000000	-.0000000000	-.0000000000	-.0000000003	-.0000000114
PCB_105	-.0000000210	-.0000000039	-.0000000039	0.0000000385	-.0000003244
PCB_106	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_109	-.0000000032	-.0000000018	-.0000000018	0.0000000138	-.0000006720
PCB_111	-.0000000000	-.0000000001	-.0000000001	0.0000000010	-.0000000456
PCB_112	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_114	-.0000000021	-.0000000004	-.0000000004	-.0000000000	0.0000000329
PCB_118	-.0000000630	-.0000000135	-.0000000135	0.0000002261	-.0000050184
PCB_120	-.0000000000	-.0000000002	-.0000000002	0.0000000040	-.0000001575
PCB_121	-.0000000000	-.0000000000	-.0000000000	0.0000000003	-.0000000155
PCB_122	-.0000000004	0.0000000000	0.0000000000	0.0000000002	0.0000000231
PCB_123	0.0000000001	-.0000000002	-.0000000002	0.0000000019	-.0000000410
PCB_126	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000145
PCB_127	-.0000000002	-.0000000000	-.0000000000	0.0000000002	0.0000000092
PCB_130	-.0000000056	0.0000000004	0.0000000004	0.0000000189	0.0000004817
PCB_131	0.0000000005	0.0000000001	0.0000000001	0.0000000002	0.0000000322
PCB_132	0.0000000020	0.0000000028	0.0000000028	0.0000000059	0.0000011740
PCB_133	-.0000000020	0.0000000001	0.0000000001	0.0000000068	0.0000000534

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_63	0.0000000038	-.0000000449	-.0000000030	-.0000004065	-.0000001208
PCB_64	-.0000000060	-.0000011131	-.0000000093	-.0000026731	-.0000005898
PCB_66	0.0000000495	-.0000006580	-.0000000459	-.0000059508	-.0000018226
PCB_67	0.0000000046	-.0000001054	-.0000000042	-.0000006538	-.0000001829
PCB_68	0.0000000112	-.0000001106	-.0000000088	-.0000011561	-.0000003516
PCB_72	0.0000000171	-.0000001898	-.0000000124	-.0000017133	-.0000005054
PCB_73	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_77	-.0000000005	0.0000000085	0.0000000024	0.0000002155	0.0000000814
PCB_78	-.0000000001	0.0000000003	0.0000000001	0.0000000131	0.0000000048
PCB_79	0.0000000000	-.0000000361	-.0000000009	-.0000001421	-.0000000394
PCB_80	-.0000000000	0.0000000001	0.0000000000	0.0000000041	0.0000000015
PCB_81	-.0000000001	0.0000000001	0.0000000003	0.0000000267	0.0000000101
PCB_82	-.0000000187	-.0000003008	0.0000000017	-.0000000524	0.0000000212
PCB_83	0.0000000068	-.0000001190	-.0000000047	-.0000008077	-.0000002184
PCB_84	-.0000000063	-.0000009558	-.0000000045	-.0000020665	-.0000003995
PCB_89	-.0000000008	-.0000000146	0.0000000007	0.0000000470	0.0000000222
PCB_92	0.0000000934	0.0000001617	-.0000000603	-.0000066042	-.0000022146
PCB_94	0.0000000018	-.0000000146	-.0000000010	-.0000001395	-.0000000400
PCB_95	-.0000000092	-.0000045066	-.0000000254	-.0000101137	-.0000020262
PCB_96	-.0000000002	-.0000000511	-.0000000004	-.0000001278	-.0000000276
PCB_99	0.0000002236	0.0000022573	-.0000001612	-.0000139520	-.0000053815
PCB_103	0.0000000033	-.0000001323	-.0000000046	-.0000006846	-.0000001970
PCB_104	0.0000000001	-.0000000048	-.0000000002	-.0000000258	-.0000000079
PCB_105	0.0000000257	0.0000015864	-.0000000348	-.0000005600	-.0000008183
PCB_106	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_109	0.0000000195	0.0000003122	-.0000000183	-.0000013259	-.0000005705
PCB_111	0.0000000014	-.0000000004	-.0000000007	-.0000000869	-.0000000272
PCB_112	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_114	-.0000000003	0.0000001513	-.0000000029	0.0000000463	-.0000000551
PCB_118	0.0000001886	0.0000045916	-.0000001561	-.0000089035	-.0000045515
PCB_120	0.0000000046	0.0000000078	-.0000000025	-.0000002952	-.0000000952
PCB_121	0.0000000004	-.0000000001	-.0000000003	-.0000000300	-.0000000096
PCB_122	-.0000000003	0.0000000230	0.0000000000	0.0000000493	0.0000000079
PCB_123	0.0000000012	0.0000000426	-.0000000014	-.0000000776	-.0000000442
PCB_126	0.0000000000	0.0000000004	0.0000000004	0.0000000327	0.0000000128
PCB_127	0.0000000001	0.0000000116	-.0000000000	0.0000000188	0.0000000022
PCB_130	0.0000000042	0.0000005136	0.0000000035	0.0000011317	0.0000002396
PCB_131	-.0000000008	0.0000000086	0.0000000006	0.0000000732	0.0000000221
PCB_132	-.0000000199	0.0000000355	0.0000000261	0.0000025499	0.0000009144
PCB_133	0.0000000039	0.0000001246	0.0000000001	0.0000001578	0.0000000264

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_63	-.0000005852	-.0000000268	-.0000000527	-.0000003529	-.0000001790
PCB_64	-.0000017185	-.0000001451	-.0000001794	-.0000016637	-.0000008185
PCB_66	-.0000087070	-.0000004106	-.0000007812	-.0000053833	-.0000027645
PCB_67	-.0000008461	-.0000000411	-.0000000800	-.0000005416	-.0000002690
PCB_68	-.0000017119	-.0000000786	-.0000001565	-.0000010460	-.0000005302
PCB_72	-.0000024465	-.0000001126	-.0000002261	-.0000014919	-.0000007496
PCB_73	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_77	0.0000003817	0.0000000200	0.0000000357	0.0000002702	0.0000001427
PCB_78	0.0000000233	0.0000000011	0.0000000021	0.0000000152	0.0000000080
PCB_79	-.0000001573	-.0000000096	-.0000000160	-.0000001218	-.0000000613
PCB_80	0.0000000072	0.0000000004	0.0000000007	0.0000000049	0.0000000026
PCB_81	0.0000000498	0.0000000025	0.0000000046	0.0000000331	0.0000000175
PCB_82	0.0000005907	-.0000000049	0.0000000464	0.0000000185	-.0000000010
PCB_83	-.0000010294	-.0000000449	-.0000000912	-.0000006234	-.0000003041
PCB_84	-.0000010020	-.0000000952	-.0000001079	-.0000010610	-.0000004989
PCB_89	0.0000001268	0.0000000052	0.0000000114	0.0000000736	0.0000000392
PCB_92	-.0000118315	-.0000004780	-.0000010494	-.0000066294	-.0000033882
PCB_94	-.0000001992	-.0000000084	-.0000000169	-.0000001093	-.0000000557
PCB_95	-.0000053616	-.0000004961	-.0000006131	-.0000055226	-.0000026074
PCB_96	-.0000000852	-.0000000065	-.0000000085	-.0000000766	-.0000000371
PCB_99	-.0000305146	-.0000011749	-.0000027266	-.0000169114	-.0000087355
PCB_103	-.0000008517	-.0000000457	-.0000000793	-.0000005889	-.0000002995
PCB_104	-.0000000336	-.0000000019	-.0000000031	-.0000000241	-.0000000125
PCB_105	-.0000056497	-.0000001867	-.0000004838	-.0000030483	-.0000016880
PCB_106	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_109	-.0000032536	-.0000001287	-.0000002886	-.0000018475	-.0000009742
PCB_111	-.0000001455	-.0000000057	-.0000000131	-.0000000796	-.0000000398
PCB_112	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_114	-.0000003952	-.0000000144	-.0000000329	-.0000002348	-.0000001385
PCB_118	-.0000284994	-.0000009946	-.0000025235	-.0000151877	-.0000079963
PCB_120	-.0000005188	-.0000000201	-.0000000471	-.0000002846	-.0000001421
PCB_121	-.0000000509	-.0000000021	-.0000000046	-.0000000285	-.0000000144
PCB_122	0.0000000183	0.0000000018	0.0000000023	0.0000000183	0.0000000073
PCB_123	-.0000002562	-.0000000092	-.0000000207	-.0000001465	-.0000000791
PCB_126	0.0000000606	0.0000000031	0.0000000057	0.0000000431	0.0000000227
PCB_127	0.0000000001	0.0000000005	0.0000000001	0.0000000035	0.0000000011
PCB_130	0.0000006150	0.0000000613	0.0000000726	0.0000006937	0.0000003355
PCB_131	0.0000001033	0.0000000054	0.0000000110	0.0000000713	0.0000000350
PCB_132	0.0000045358	0.0000002150	0.0000004171	0.0000029091	0.0000015191
PCB_133	-.0000000343	0.0000000086	0.0000000000	0.0000000812	0.0000000411

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_63	-.0000002322	-.0000000030	0.0000000014	-.0000000007	-.0000000002
PCB_64	-.0000007104	-.0000000598	-.0000000173	-.0000000042	-.0000000011
PCB_66	-.0000035108	-.0000000415	0.0000000223	-.0000000107	-.0000000038
PCB_67	-.0000003402	-.0000000071	0.0000000007	-.0000000011	-.0000000004
PCB_68	-.0000006885	-.0000000073	0.0000000044	-.0000000020	-.0000000007
PCB_72	-.0000009787	-.0000000127	0.0000000053	-.0000000028	-.0000000011
PCB_73	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_77	0.0000001684	-.0000000003	-.0000000014	0.0000000006	0.0000000002
PCB_78	0.0000000099	-.0000000000	-.0000000001	0.0000000000	0.0000000000
PCB_79	-.0000000689	-.0000000022	-.0000000003	-.0000000003	-.0000000001
PCB_80	0.0000000031	-.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_81	0.0000000215	-.0000000001	-.0000000002	0.0000000001	0.0000000000
PCB_82	0.0000001873	-.0000000136	-.0000000088	-.0000000006	0.0000000000
PCB_83	-.0000003904	-.0000000084	0.0000000011	-.0000000011	-.0000000004
PCB_84	-.0000003816	-.0000000545	-.0000000176	-.0000000028	-.0000000006
PCB_89	0.0000000542	-.0000000009	-.0000000009	0.0000000001	0.0000000001
PCB_92	-.0000047241	-.0000000027	0.0000000512	-.0000000116	-.0000000047
PCB_94	-.0000000749	-.0000000010	0.0000000006	-.0000000002	-.0000000001
PCB_95	-.0000021818	-.0000002516	-.0000000794	-.0000000139	-.0000000037
PCB_96	-.0000000330	-.0000000028	-.0000000008	-.0000000002	-.0000000000
PCB_99	-.0000125075	0.0000000948	0.0000001668	-.0000000288	-.0000000124
PCB_103	-.0000003498	-.0000000071	0.0000000006	-.0000000012	-.0000000004
PCB_104	-.0000000143	-.0000000002	0.0000000000	-.0000000001	-.0000000000
PCB_105	-.0000025055	0.0000000888	0.0000000574	-.0000000051	-.0000000024
PCB_106	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_109	-.0000013599	0.0000000165	0.0000000198	-.0000000033	-.0000000014
PCB_111	-.0000000572	-.0000000002	0.0000000006	-.0000000001	-.0000000001
PCB_112	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_114	-.0000001900	0.0000000094	0.0000000051	-.0000000005	-.0000000002
PCB_118	-.0000119895	0.0000002173	0.0000002053	-.0000000252	-.0000000116
PCB_120	-.0000002058	-.0000000005	0.0000000021	-.0000000005	-.0000000002
PCB_121	-.0000000202	-.0000000001	0.0000000002	-.0000000000	-.0000000000
PCB_122	0.0000000053	0.0000000013	0.0000000005	0.0000000000	0.0000000000
PCB_123	-.0000001090	0.0000000023	0.0000000021	-.0000000003	-.0000000001
PCB_126	0.0000000274	0.0000000000	-.0000000002	0.0000000001	0.0000000000
PCB_127	-.0000000010	0.0000000007	0.0000000003	0.0000000000	0.0000000000
PCB_130	0.0000002703	0.0000000275	0.0000000091	0.0000000018	0.0000000005
PCB_131	0.0000000448	0.0000000004	-.0000000001	0.0000000001	0.0000000001
PCB_132	0.0000019243	-.0000000003	-.0000000178	0.0000000057	0.0000000022
PCB_133	-.0000000028	0.0000000063	0.0000000028	0.0000000003	0.0000000001

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_63	-.0000039695	-.0000000011	-.0000000157	-.0000000792	-.0000000212
PCB_64	-.0000108335	-.0000000053	-.0000000964	-.0000004207	-.0000001244
PCB_66	-.0000596460	-.0000000172	-.0000002204	-.0000011100	-.0000003158
PCB_67	-.0000056297	-.0000000016	-.0000000256	-.0000001201	-.0000000331
PCB_68	-.0000116134	-.0000000032	-.0000000441	-.0000002387	-.0000000611
PCB_72	-.0000164102	-.0000000044	-.0000000662	-.0000003574	-.0000000893
PCB_73	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_77	0.0000027498	0.0000000010	0.0000000066	0.0000000485	0.0000000128
PCB_78	0.0000001645	0.0000000001	0.0000000004	0.0000000028	0.0000000008
PCB_79	-.0000010435	-.0000000004	-.0000000049	-.0000000193	-.0000000072
PCB_80	0.0000000513	0.0000000000	0.0000000001	0.0000000008	0.0000000002
PCB_81	0.0000003563	0.0000000001	0.0000000008	0.0000000060	0.0000000016
PCB_82	0.0000037063	-.0000000004	0.0000000042	0.0000000778	-.0000000000
PCB_83	-.0000069817	-.0000000016	-.0000000358	-.0000001502	-.0000000401
PCB_84	-.0000058763	-.0000000030	-.0000000806	-.0000002767	-.0000000907
PCB_89	0.0000009067	0.0000000003	0.0000000014	0.0000000129	0.0000000031
PCB_92	-.0000812713	-.0000000202	-.0000002593	-.0000014286	-.0000003648
PCB_94	-.0000013486	-.0000000003	-.0000000056	-.0000000282	-.0000000072
PCB_95	-.0000302354	-.0000000163	-.0000003738	-.0000016294	-.0000004536
PCB_96	-.0000005482	-.0000000002	-.0000000050	-.0000000200	-.0000000059
PCB_99	-.0002126988	-.0000000528	-.0000005339	-.0000031346	-.0000008234
PCB_103	-.0000058075	-.0000000019	-.0000000251	-.0000001320	-.0000000355
PCB_104	-.0000002324	-.0000000001	-.0000000009	-.0000000048	-.0000000014
PCB_105	-.0000427033	-.0000000114	-.0000000057	-.0000001875	-.0000000804
PCB_106	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_109	-.0000231613	-.0000000061	-.0000000465	-.0000003089	-.0000000832
PCB_111	-.0000009761	-.0000000002	-.0000000035	-.0000000193	-.0000000046
PCB_112	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_114	-.0000032166	-.0000000010	0.0000000049	0.0000000046	-.0000000031
PCB_118	-.0002033523	-.0000000492	-.0000003272	-.0000019244	-.0000006069
PCB_120	-.0000034955	-.0000000008	-.0000000122	-.0000000653	-.0000000159
PCB_121	-.0000003444	-.0000000001	-.0000000012	-.0000000065	-.0000000016
PCB_122	0.0000000741	0.0000000000	0.0000000021	0.0000000119	0.0000000021
PCB_123	-.0000019279	-.0000000005	-.0000000029	-.0000000115	-.0000000057
PCB_126	0.0000004371	0.0000000002	0.0000000010	0.0000000044	0.0000000019
PCB_127	-.0000000179	0.0000000000	0.0000000008	0.0000000021	0.0000000007
PCB_130	0.0000036523	0.0000000022	0.0000000398	0.0000001840	0.0000000519
PCB_131	0.0000006625	0.0000000002	0.0000000026	0.0000000223	0.0000000039
PCB_132	0.0000318439	0.0000000098	0.0000000859	0.0000005555	0.0000001468
PCB_133	-.0000002473	0.0000000004	0.0000000045	0.0000000080	0.0000000067

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_63	-.0000000003	-.0000001281	-.0000000760	-.0000001023	-.0000000432
PCB_64	-.0000000012	-.0000004342	-.0000002437	-.0000003847	-.0000001453
PCB_66	-.0000000045	-.0000019494	-.0000011550	-.0000015703	-.0000006725
PCB_67	-.0000000003	-.0000001777	-.0000001053	-.0000001455	-.0000000607
PCB_68	-.0000000008	-.0000003770	-.0000002235	-.0000003030	-.0000001286
PCB_72	-.0000000011	-.0000005311	-.0000003152	-.0000004271	-.0000001797
PCB_73	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_77	0.0000000003	0.0000000931	0.0000000548	0.0000000791	0.0000000353
PCB_78	0.0000000000	0.0000000054	0.0000000032	0.0000000045	0.0000000020
PCB_79	-.0000000001	-.0000000338	-.0000000200	-.0000000300	-.0000000129
PCB_80	0.0000000000	0.0000000017	0.0000000010	0.0000000014	0.0000000006
PCB_81	0.0000000000	0.0000000115	0.0000000069	0.0000000098	0.0000000044
PCB_82	-.0000000001	0.0000000908	0.0000000601	0.0000000476	0.0000000203
PCB_83	-.0000000004	-.0000002249	-.0000001295	-.0000001697	-.0000000674
PCB_84	-.0000000004	-.0000002347	-.0000001273	-.0000002085	-.0000000689
PCB_89	0.0000000001	0.0000000290	0.0000000174	0.0000000236	0.0000000108
PCB_92	-.0000000055	-.0000025738	-.0000015337	-.0000020170	-.0000008716
PCB_94	-.0000000001	-.0000000445	-.0000000263	-.0000000339	-.0000000140
PCB_95	-.0000000029	-.0000012885	-.0000007164	-.0000011658	-.0000004058
PCB_96	-.0000000000	-.0000000202	-.0000000113	-.0000000173	-.0000000063
PCB_99	-.0000000144	-.0000065372	-.0000039240	-.0000051887	-.0000023115
PCB_103	-.0000000005	-.0000001998	-.0000001166	-.0000001640	-.0000000687
PCB_104	-.0000000000	-.0000000081	-.0000000047	-.0000000068	-.0000000029
PCB_105	-.0000000036	-.0000012721	-.0000007694	-.0000010256	-.0000005014
PCB_106	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_109	-.0000000018	-.0000007147	-.0000004299	-.0000005774	-.0000002624
PCB_111	-.0000000001	-.0000000308	-.0000000184	-.0000000239	-.0000000101
PCB_112	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_114	-.0000000004	-.0000000976	-.0000000592	-.0000000827	-.0000000427
PCB_118	-.0000000132	-.0000059477	-.0000036077	-.0000047545	-.0000022126
PCB_120	-.0000000002	-.0000001078	-.0000000645	-.0000000841	-.0000000359
PCB_121	-.0000000000	-.0000000109	-.0000000065	-.0000000085	-.0000000037
PCB_122	0.0000000000	0.0000000044	0.0000000023	0.0000000035	0.0000000007
PCB_123	-.0000000002	-.0000000640	-.0000000370	-.0000000478	-.0000000219
PCB_126	0.0000000000	0.0000000141	0.0000000083	0.0000000120	0.0000000055
PCB_127	-.0000000000	-.0000000002	-.0000000002	-.0000000001	-.0000000004
PCB_130	0.0000000004	0.0000001561	0.0000000868	0.0000001480	0.0000000547
PCB_131	0.0000000001	0.0000000226	0.0000000135	0.0000000196	0.0000000082
PCB_132	0.0000000028	0.0000010434	0.0000006202	0.0000008638	0.0000003828
PCB_133	0.0000000001	0.0000000025	-.0000000004	0.0000000092	0.0000000027

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_63	-.0000000630	-.0000001998	-.0000000003	-.0000000112	-.0000000755
PCB_64	-.0000002138	-.0000006698	-.0000000012	-.0000000348	-.0000002516
PCB_66	-.0000009900	-.0000030792	-.0000000048	-.0000001710	-.0000011873
PCB_67	-.0000000874	-.0000002796	-.0000000004	-.0000000156	-.0000001034
PCB_68	-.0000001876	-.0000005914	-.0000000009	-.0000000329	-.0000002240
PCB_72	-.0000002604	-.0000008291	-.0000000012	-.0000000463	-.0000003099
PCB_73	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_77	0.0000000530	0.0000001558	0.0000000003	0.0000000082	0.0000000635
PCB_78	0.0000000030	0.0000000089	0.0000000000	0.0000000005	0.0000000036
PCB_79	-.0000000189	-.0000000570	-.0000000001	-.0000000030	-.0000000221
PCB_80	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_81	0.0000000065	0.0000000194	0.0000000000	0.0000000010	0.0000000078
PCB_82	0.0000000238	0.0000001138	-.0000000000	0.0000000084	0.0000000285
PCB_83	-.0000000974	-.0000003252	-.0000000005	-.0000000188	-.0000001173
PCB_84	-.0000000978	-.0000003350	-.0000000005	-.0000000179	-.0000001134
PCB_89	0.0000000161	0.0000000481	0.0000000001	0.0000000026	0.0000000194
PCB_92	-.0000012749	-.0000040204	-.0000000060	-.0000002268	-.0000015293
PCB_94	-.0000000205	-.0000000665	-.0000000001	-.0000000038	-.0000000249
PCB_95	-.0000005800	-.0000019166	-.0000000030	-.0000000988	-.0000006616
PCB_96	-.0000000091	-.0000000300	-.0000000001	-.0000000016	-.0000000108
PCB_99	-.0000033892	-.0000104991	-.0000000155	-.0000005877	-.0000040563
PCB_103	-.0000001015	-.0000003142	-.0000000005	-.0000000171	-.0000001213
PCB_104	-.0000000044	-.0000000131	-.0000000000	-.0000000007	-.0000000052
PCB_105	-.0000007584	-.0000021880	-.0000000038	-.0000001189	-.0000009159
PCB_106	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_109	-.0000003876	-.0000011750	-.0000000019	-.0000000649	-.0000004655
PCB_111	-.0000000146	-.0000000472	-.0000000001	-.0000000027	-.0000000174
PCB_112	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_114	-.0000000659	-.0000001796	-.0000000004	-.0000000094	-.0000000801
PCB_118	-.0000032627	-.0000098797	-.0000000141	-.0000005511	-.0000039053
PCB_120	-.0000000518	-.0000001670	-.0000000002	-.0000000095	-.0000000616
PCB_121	-.0000000053	-.0000000169	-.0000000000	-.0000000010	-.0000000063
PCB_122	0.0000000006	0.0000000044	0.0000000000	0.0000000003	0.0000000006
PCB_123	-.0000000340	-.0000000999	-.0000000002	-.0000000055	-.0000000416
PCB_126	0.0000000083	0.0000000240	0.0000000000	0.0000000013	0.0000000099
PCB_127	-.0000000006	-.0000000011	-.0000000000	-.0000000000	-.0000000008
PCB_130	0.0000000795	0.0000002476	0.0000000005	0.0000000123	0.0000000913
PCB_131	0.0000000117	0.0000000369	0.0000000001	0.0000000020	0.0000000135
PCB_132	0.0000005676	0.0000017115	0.0000000029	0.0000000926	0.0000006790
PCB_133	0.0000000051	0.0000000088	0.0000000001	-.0000000001	0.0000000057

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_63	-.0000000083	-.0000000253	-.0000000475	0.0000000062	0.0000000046
PCB_64	-.0000000299	-.0000000887	-.0000001210	0.0000000017	-.0000003217
PCB_66	-.0000001317	-.0000004034	-.0000007534	0.0000000835	0.0000001489
PCB_67	-.0000000114	-.0000000347	-.0000000628	0.0000000083	-.0000000135
PCB_68	-.0000000247	-.0000000755	-.0000001411	0.0000000171	0.0000000245
PCB_72	-.0000000341	-.0000001038	-.0000001936	0.0000000254	0.0000000121
PCB_73	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_77	0.0000000072	0.0000000226	0.0000000408	-.0000000016	-.0000000276
PCB_78	0.0000000004	0.0000000013	0.0000000023	-.0000000002	-.0000000014
PCB_79	-.0000000025	-.0000000079	-.0000000133	0.0000000007	-.0000000046
PCB_80	0.0000000001	0.0000000004	0.0000000007	-.0000000000	-.0000000005
PCB_81	0.0000000009	0.0000000028	0.0000000051	-.0000000003	-.0000000037
PCB_82	0.0000000016	0.0000000043	0.0000000292	-.0000000184	-.0000000764
PCB_83	-.0000000125	-.0000000373	-.0000000681	0.0000000109	-.0000000335
PCB_84	-.0000000136	-.0000000381	-.0000000353	0.0000000017	-.0000003422
PCB_89	0.0000000022	0.0000000068	0.0000000132	-.0000000011	-.0000000137
PCB_92	-.0000001664	-.0000005109	-.0000009991	0.0000001312	0.0000004824
PCB_94	-.0000000027	-.0000000081	-.0000000157	0.0000000026	0.0000000003
PCB_95	-.0000000797	-.0000002307	-.0000002585	0.0000000054	-.0000015371
PCB_96	-.0000000013	-.0000000036	-.0000000048	0.0000000004	-.0000000164
PCB_99	-.0000004422	-.0000013737	-.0000027207	0.0000003215	0.0000021183
PCB_103	-.0000000137	-.0000000417	-.0000000735	0.0000000060	-.0000000068
PCB_104	-.0000000006	-.0000000018	-.0000000032	0.0000000002	0.0000000004
PCB_105	-.0000001014	-.0000003241	-.0000006586	0.0000000416	0.0000010263
PCB_106	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_109	-.0000000513	-.0000001602	-.0000003152	0.0000000313	0.0000002963
PCB_111	-.0000000019	-.0000000057	-.0000000113	0.0000000018	0.0000000034
PCB_112	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_114	-.0000000091	-.0000000295	-.0000000586	0.0000000011	0.0000001072
PCB_118	-.0000004253	-.0000013406	-.0000027230	0.0000002916	0.0000031077
PCB_120	-.0000000066	-.0000000203	-.0000000400	0.0000000061	0.0000000152
PCB_121	-.0000000007	-.0000000021	-.0000000041	0.0000000006	0.0000000015
PCB_122	0.0000000001	0.0000000000	-.0000000007	-.0000000002	0.0000000104
PCB_123	-.0000000046	-.0000000144	-.0000000284	0.0000000013	0.0000000314
PCB_126	0.0000000011	0.0000000036	0.0000000065	-.0000000002	-.0000000046
PCB_127	-.0000000001	-.0000000003	-.0000000010	-.0000000000	0.0000000053
PCB_130	0.0000000112	0.0000000333	0.0000000395	0.0000000023	0.0000001550
PCB_131	0.0000000015	0.0000000047	0.0000000083	-.0000000007	-.0000000011
PCB_132	0.0000000762	0.0000002369	0.0000004415	-.0000000336	-.0000002679
PCB_133	0.0000000010	0.0000000032	-.0000000008	0.0000000036	0.0000000357

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_63	0.0000002250	-.0000001844	-.0000019265	0.0000000003	-.0000010881
PCB_64	0.0000208334	-.0000034409	-.0000251238	-.0000004941	-.0000045871
PCB_66	0.0000052692	-.0000024857	-.0000279771	-.0000000242	-.0000157584
PCB_67	0.0000013471	-.0000004123	-.0000037142	-.0000000376	-.0000017588
PCB_68	0.0000007239	-.0000004282	-.0000051870	-.0000000147	-.0000031289
PCB_72	0.0000012917	-.0000007784	-.0000082402	-.0000000344	-.0000045733
PCB_73	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_77	-.0000007107	-.0000000659	0.0000005140	0.0000000226	0.0000006073
PCB_78	-.0000000168	-.0000000015	0.0000000355	0.0000000005	0.0000000381
PCB_79	0.0000007716	-.0000001244	-.0000010459	-.0000000222	-.0000003572
PCB_80	-.0000000090	-.0000000008	0.0000000113	0.0000000003	0.0000000116
PCB_81	-.0000000498	-.0000000081	0.0000000426	0.0000000017	0.0000000803
PCB_82	0.0000091098	-.0000005877	-.0000041898	-.0000002204	0.0000005800
PCB_83	0.0000008945	-.0000004096	-.0000044849	-.0000000089	-.0000022290
PCB_84	0.0000167628	-.0000031446	-.0000214223	-.0000003847	-.0000036117
PCB_89	0.0000002262	-.0000000576	-.0000001248	-.0000000044	0.0000001769
PCB_92	-.0000146027	-.0000002075	-.0000182632	0.0000004150	-.0000203233
PCB_94	-.0000001486	-.0000000718	-.0000006526	0.0000000104	-.0000003486
PCB_95	0.0000797796	-.0000150811	-.0001039429	-.0000020210	-.0000164701
PCB_96	0.0000009159	-.0000001568	-.0000011405	-.0000000206	-.0000002437
PCB_99	-.0000560302	0.0000062814	-.0000075833	0.0000012246	-.0000506672
PCB_103	0.0000022734	-.0000003804	-.0000039860	-.0000000526	-.0000016203
PCB_104	0.0000000986	-.0000000127	-.0000001453	-.0000000023	-.0000000603
PCB_105	-.0000223563	0.0000060165	0.0000248678	0.0000004797	-.0000072172
PCB_106	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_109	-.0000056921	0.0000011271	0.0000017280	0.0000001274	-.0000050781
PCB_111	-.0000001958	-.0000000198	-.0000003098	0.0000000048	-.0000002596
PCB_112	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_114	-.0000015186	0.0000006513	0.0000029397	0.0000000329	-.0000003567
PCB_118	-.0000843685	0.0000143096	0.0000439668	0.0000017667	-.0000454421
PCB_120	-.0000007353	-.0000000343	-.0000009110	0.0000000150	-.0000009439
PCB_121	-.0000000569	-.0000000053	-.0000001015	0.0000000014	-.0000000896
PCB_122	-.0000003370	0.0000000783	0.0000005112	0.0000000090	0.0000000653
PCB_123	-.0000006970	0.0000001818	0.0000003340	0.0000000214	-.0000003705
PCB_126	-.0000001030	-.0000000076	0.0000001026	0.0000000034	0.0000001088
PCB_127	-.0000001671	0.0000000427	0.0000002484	0.0000000034	0.0000000237
PCB_130	-.0000103197	0.0000015750	0.0000113721	0.0000002717	0.0000018454
PCB_131	-.0000002190	0.0000000234	0.0000003388	0.0000000123	0.0000001801
PCB_132	-.0000021340	-.0000002578	0.0000068052	0.0000000819	0.0000074389
PCB_133	-.0000029885	0.0000003281	0.0000023105	0.0000000730	0.0000001246

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_63	-.0000000019	-.0000026071	-.0000013984	-.0000000599	-.0000001788
PCB_64	-.0000004657	-.0000057573	-.0000190842	-.0000024735	-.0000010257
PCB_66	-.0000000174	-.0000366078	-.0000217172	-.0000005613	-.0000026473
PCB_67	-.0000000278	-.0000037266	-.0000026308	-.0000002034	-.0000002824
PCB_68	0.0000000069	-.0000073616	-.0000037879	-.0000001098	-.0000005104
PCB_72	-.0000000106	-.0000107483	-.0000057623	-.0000002899	-.0000007482
PCB_73	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_77	-.0000000168	0.0000010577	0.0000007419	-.0000000874	0.0000001020
PCB_78	-.0000000009	0.0000000782	0.0000000399	-.0000000043	0.0000000062
PCB_79	-.0000000151	-.0000005154	-.0000008244	-.0000000627	-.0000000616
PCB_80	-.0000000003	0.0000000224	0.0000000137	-.0000000015	0.0000000019
PCB_81	-.0000000025	0.0000001515	0.0000000762	-.0000000118	0.0000000130
PCB_82	-.0000001517	0.0000046670	-.0000045537	-.0000005190	0.0000000063
PCB_83	-.0000000179	-.0000054953	-.0000028148	-.0000002517	-.0000003336
PCB_84	-.0000004361	-.0000046091	-.0000154873	-.0000023281	-.0000007677
PCB_89	-.0000000125	0.0000004369	-.0000000262	-.0000000620	0.0000000254
PCB_92	0.0000004802	-.0000533354	-.0000123505	0.0000014596	-.0000030500
PCB_94	0.0000000003	-.0000010000	-.0000004334	-.0000000266	-.0000000602
PCB_95	-.0000020542	-.0000202336	-.0000739950	-.0000110148	-.0000037664
PCB_96	-.0000000206	-.0000003659	-.0000008554	-.0000001173	-.0000000490
PCB_99	0.0000020925	-.0001293077	-.0000075422	0.0000091967	-.0000069323
PCB_103	-.0000000277	-.0000033014	-.0000031295	-.0000001976	-.0000002907
PCB_104	-.0000000009	-.0000001121	-.0000001251	-.0000000049	-.0000000113
PCB_105	0.0000010007	-.0000181872	0.0000134272	0.0000055513	-.0000006521
PCB_106	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_109	0.0000002766	-.0000124618	-.0000000399	0.0000013308	-.0000006960
PCB_111	0.0000000040	-.0000006993	-.0000001713	0.0000000044	-.0000000390
PCB_112	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_114	0.0000000962	-.0000006530	0.0000013450	0.0000005730	-.0000000220
PCB_118	0.0000030427	-.0001145103	0.0000250438	0.0000157918	-.0000052437
PCB_120	0.0000000182	-.0000024656	-.0000004857	0.0000000411	-.0000001347
PCB_121	0.0000000015	-.0000002347	-.0000000626	0.0000000029	-.0000000136
PCB_122	0.0000000099	0.0000001281	0.0000003179	0.0000000666	0.0000000165
PCB_123	0.0000000321	-.0000010504	0.0000001676	0.0000001765	-.0000000430
PCB_126	-.0000000018	0.0000001744	0.0000001266	-.0000000168	0.0000000162
PCB_127	0.0000000060	0.0000000305	0.0000001643	0.0000000327	0.0000000062
PCB_130	0.0000002250	0.0000015228	0.0000085984	0.0000011659	0.0000004271
PCB_131	-.0000000001	0.0000003361	0.0000002349	0.0000000139	0.0000000313
PCB_132	-.0000001756	0.0000157843	0.0000072522	-.0000007906	0.0000012024
PCB_133	0.0000000590	-.0000006451	0.0000019882	0.0000002557	0.0000000543

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_63	0.0000000971	-.0000011417	-.0000004351	-.0000000357	-.0000003163
PCB_64	0.0000015734	-.0000057426	-.0000025310	-.0000001177	-.0000009290
PCB_66	0.0000014730	-.0000173381	-.0000067283	-.0000005484	-.0000048359
PCB_67	0.0000002087	-.0000017047	-.0000006733	-.0000000508	-.0000004404
PCB_68	0.0000002775	-.0000033414	-.0000012758	-.0000001060	-.0000009381
PCB_72	0.0000004339	-.0000047749	-.0000018222	-.0000001493	-.0000013157
PCB_73	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_77	-.0000000619	0.0000008263	0.0000003346	0.0000000277	0.0000002432
PCB_78	-.0000000029	0.0000000468	0.0000000186	0.0000000016	0.0000000140
PCB_79	0.0000000676	-.0000003667	-.0000001626	-.0000000105	-.0000000852
PCB_80	-.0000000010	0.0000000150	0.0000000060	0.0000000005	0.0000000045
PCB_81	-.0000000057	0.0000001017	0.0000000407	0.0000000035	0.0000000306
PCB_82	0.0000004027	0.0000000636	-.0000001874	0.0000000221	0.0000002448
PCB_83	0.0000002282	-.0000020229	-.0000007341	-.0000000576	-.0000005286
PCB_84	0.0000012831	-.0000037481	-.0000016804	-.0000000590	-.0000004373
PCB_89	0.0000000046	0.0000002194	0.0000000824	0.0000000086	0.0000000775
PCB_92	0.0000006986	-.0000208325	-.0000076133	-.0000007204	-.0000065008
PCB_94	0.0000000238	-.0000003777	-.0000001356	-.0000000117	-.0000001060
PCB_95	0.0000062469	-.0000192139	-.0000086151	-.0000003447	-.0000025364
PCB_96	0.0000000709	-.0000002668	-.0000001135	-.0000000053	-.0000000430
PCB_99	0.0000000322	-.0000506553	-.0000185913	-.0000018956	-.0000171176
PCB_103	0.0000002462	-.0000019118	-.0000007624	-.0000000557	-.0000004855
PCB_104	0.0000000096	-.0000000771	-.0000000317	-.0000000023	-.0000000200
PCB_105	-.0000012141	-.0000080335	-.0000029450	-.0000003925	-.0000036161
PCB_106	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_109	-.0000000708	-.0000055088	-.0000020559	-.0000002111	-.0000019055
PCB_111	0.0000000110	-.0000002513	-.0000000905	-.0000000085	-.0000000767
PCB_112	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_114	-.0000001225	-.0000005940	-.0000002359	-.0000000318	-.0000002914
PCB_118	-.0000026180	-.0000423896	-.0000155583	-.0000017968	-.0000163054
PCB_120	0.0000000332	-.0000008759	-.0000003164	-.0000000303	-.0000002731
PCB_121	0.0000000040	-.0000000896	-.0000000328	-.0000000030	-.0000000274
PCB_122	-.0000000290	0.0000000763	0.0000000296	0.0000000008	0.0000000057
PCB_123	-.0000000208	-.0000004207	-.0000001501	-.0000000173	-.0000001632
PCB_126	-.0000000101	0.0000001232	0.0000000524	0.0000000043	0.0000000373
PCB_127	-.0000000132	0.0000000185	0.0000000090	-.0000000002	-.0000000028
PCB_130	-.0000007421	0.0000023401	0.0000010742	0.0000000445	0.0000003289
PCB_131	-.0000000260	0.0000002174	0.0000000860	0.0000000069	0.0000000583
PCB_132	-.0000005318	0.0000089695	0.0000035263	0.0000003061	0.0000027003
PCB_133	-.0000001704	0.0000002818	0.0000001694	0.0000000012	-.0000000066

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_63	0.0000002568	0.0000000150	0.0000004640	0.0000002397	0.0000016346
PCB_64	0.0000016599	0.0000001526	0.0000029547	0.0000025131	0.0000076323
PCB_66	0.0000038041	0.0000002150	0.0000063992	0.0000033759	0.0000235620
PCB_67	0.0000003698	0.0000000264	0.0000007419	0.0000004148	0.0000023567
PCB_68	0.0000006946	0.0000000388	0.0000012934	0.0000006524	0.0000045401
PCB_72	0.0000010622	0.0000000610	0.0000019861	0.0000010074	0.0000066720
PCB_73	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_77	-.0000000562	-.0000000032	-.0000001380	-.0000000887	-.0000006650
PCB_78	-.0000000058	-.0000000003	-.0000000106	-.0000000053	-.0000000468
PCB_79	0.0000000801	0.0000000065	0.0000001331	0.0000000918	0.0000004020
PCB_80	-.0000000015	-.0000000001	-.0000000029	-.0000000017	-.0000000139
PCB_81	-.0000000078	-.0000000005	-.0000000186	-.0000000105	-.0000000880
PCB_82	-.0000001972	0.0000000166	-.0000003260	0.0000002925	-.0000014013
PCB_83	0.0000003662	0.0000000268	0.0000009899	0.0000005524	0.0000032903
PCB_84	0.0000012543	0.0000001308	0.0000024592	0.0000021006	0.0000059440
PCB_89	-.0000000188	0.0000000004	-.0000000310	0.0000000014	-.0000002035
PCB_92	0.0000040054	0.0000001597	0.0000074319	0.0000027829	0.0000292037
PCB_94	0.0000001089	0.0000000056	0.0000001789	0.0000000886	0.0000006449
PCB_95	0.0000071128	0.0000006145	0.0000122345	0.0000098746	0.0000284429
PCB_96	0.0000000657	0.0000000073	0.0000001461	0.0000001229	0.0000003845
PCB_99	0.0000067434	0.0000001542	0.0000136833	0.0000029722	0.0000620839
PCB_103	0.0000003828	0.0000000256	0.0000007167	0.0000004586	0.0000024071
PCB_104	0.0000000150	0.0000000009	0.0000000242	0.0000000160	0.0000000867
PCB_105	-.0000009392	-.0000001503	-.0000012741	-.0000021125	0.0000040961
PCB_106	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_109	0.0000004866	0.0000000046	0.0000010344	0.0000001306	0.0000057817
PCB_111	0.0000000588	0.0000000024	0.0000001082	0.0000000409	0.0000003860
PCB_112	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_114	-.0000001762	-.0000000176	-.0000003070	-.0000002572	-.0000001368
PCB_118	0.0000021173	-.0000001728	0.0000056966	-.0000028651	0.0000431364
PCB_120	0.0000001766	0.0000000072	0.0000003564	0.0000001251	0.0000012884
PCB_121	0.0000000195	0.0000000008	0.0000000355	0.0000000137	0.0000001305
PCB_122	-.0000000357	-.0000000031	-.0000000759	-.0000000562	-.0000001564
PCB_123	0.0000000071	-.0000000049	0.0000000248	-.0000000330	0.0000004514
PCB_126	-.0000000087	-.0000000004	-.0000000164	-.0000000085	-.0000000966
PCB_127	-.0000000158	-.0000000016	-.0000000281	-.0000000238	-.0000000581
PCB_130	-.0000006762	-.0000000660	-.0000012324	-.0000010934	-.0000028008
PCB_131	-.0000000380	-.0000000019	-.0000000824	-.0000000416	-.0000002128
PCB_132	-.0000011826	-.0000000543	-.0000021847	-.0000010374	-.0000092936
PCB_133	-.0000000624	-.0000000122	-.0000001067	-.0000002001	-.0000001337

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_63	0.0000000926	0.0000022106	0.0000002884	0.0000001636	0.0000005268
PCB_64	0.0000025382	0.0000183743	0.0000026383	0.0000011310	0.0000036190
PCB_66	0.0000015402	0.0000324251	0.0000040045	0.0000023376	0.0000080111
PCB_67	0.0000002630	0.0000037102	0.0000004888	0.0000002570	0.0000008986
PCB_68	0.0000002923	0.0000062616	0.0000007933	0.0000004540	0.0000014673
PCB_72	0.0000004680	0.0000094190	0.0000012153	0.0000006963	0.0000021810
PCB_73	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_77	-.0000001060	-.0000010970	-.0000001180	-.0000000474	-.0000002801
PCB_78	-.0000000040	-.0000000661	-.0000000070	-.0000000038	-.0000000180
PCB_79	0.0000001096	0.0000008770	0.0000000977	0.0000000528	0.0000002395
PCB_80	-.0000000016	-.0000000209	-.0000000021	-.0000000011	-.0000000054
PCB_81	-.0000000078	-.0000001258	-.0000000153	-.0000000059	-.0000000383
PCB_82	0.0000008660	0.0000014945	0.0000002142	-.0000000795	0.0000003307
PCB_83	0.0000002522	0.0000045777	0.0000006543	0.0000003126	0.0000007910
PCB_84	0.0000020196	0.0000145341	0.0000021969	0.0000009056	0.0000028087
PCB_89	0.0000000128	-.0000001699	-.0000000070	-.0000000108	-.0000000620
PCB_92	-.0000001187	0.0000323595	0.0000036980	0.0000025529	0.0000080203
PCB_94	0.0000000047	0.0000007533	0.0000001061	0.0000000639	0.0000001621
PCB_95	0.0000101256	0.0000719616	0.0000101754	0.0000047480	0.0000138105
PCB_96	0.0000001088	0.0000008505	0.0000001340	0.0000000508	0.0000001622
PCB_99	-.0000025145	0.0000593926	0.0000052527	0.0000044788	0.0000181609
PCB_103	0.0000003523	0.0000040228	0.0000005231	0.0000002599	0.0000008559
PCB_104	0.0000000145	0.0000001511	0.0000000180	0.0000000094	0.0000000356
PCB_105	-.0000020455	-.0000045310	-.0000018299	-.0000005510	0.0000010726
PCB_106	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_109	-.0000003429	0.0000050024	0.0000003877	0.0000003219	0.0000018274
PCB_111	0.0000000008	0.0000004442	0.0000000522	0.0000000375	0.0000001032
PCB_112	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_114	-.0000001747	-.0000009794	-.0000002414	-.0000001136	0.0000000148
PCB_118	-.0000061964	0.0000228729	-.0000009822	0.0000015405	0.0000139621
PCB_120	-.0000000017	0.0000014621	0.0000001669	0.0000001193	0.0000003574
PCB_121	0.0000000009	0.0000001520	0.0000000176	0.0000000123	0.0000000367
PCB_122	-.0000000441	-.0000003574	-.0000000611	-.0000000263	-.0000000445
PCB_123	-.0000000366	0.0000002590	-.0000000333	0.0000000104	0.0000000406
PCB_126	-.0000000183	-.0000001670	-.0000000102	-.0000000068	-.0000000539
PCB_127	-.0000000194	-.0000001445	-.0000000243	-.0000000104	-.0000000257
PCB_130	-.0000012574	-.0000080368	-.0000011345	-.0000004773	-.0000015854
PCB_131	-.0000000439	-.0000004227	-.0000000519	-.0000000285	-.0000000874
PCB_132	-.0000006767	-.0000127920	-.0000013700	-.0000007786	-.0000034439
PCB_133	-.0000003189	-.0000013363	-.0000001893	-.0000000513	-.0000002701

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_63	0.0000001515	0.0000008367	0.0000000703	0.0000012014	0.0000000726
PCB_64	-.0000021615	0.0000045537	0.0000021524	-.0000027877	0.0000001927
PCB_66	0.0000023710	0.0000128698	0.0000013717	0.0000184339	0.0000010954
PCB_67	0.0000000625	0.0000012697	0.0000001839	0.0000014612	0.0000000892
PCB_68	0.0000004471	0.0000023849	0.0000002120	0.0000035579	0.0000001885
PCB_72	0.0000005177	0.0000034000	0.0000003199	0.0000047510	0.0000002665
PCB_73	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_77	-.0000001395	-.0000005392	-.0000000905	-.0000009976	-.0000000216
PCB_78	-.0000000093	-.0000000320	-.0000000035	-.0000000608	-.0000000020
PCB_79	-.0000000415	0.0000002979	0.0000000932	0.0000001919	0.0000000143
PCB_80	-.0000000028	-.0000000104	-.0000000015	-.0000000187	-.0000000006
PCB_81	-.0000000223	-.0000000647	-.0000000057	-.0000001409	-.0000000034
PCB_82	-.0000009827	0.0000001979	0.0000008178	-.0000027413	-.0000000933
PCB_83	0.0000001545	0.0000015714	0.0000001601	0.0000017693	0.0000001230
PCB_84	-.0000020363	0.0000032739	0.0000016615	-.0000035128	0.0000001503
PCB_89	-.0000000913	-.0000001394	0.0000000098	-.0000004251	-.0000000104
PCB_92	0.0000056234	0.0000148544	-.0000002526	0.0000305241	0.0000013806
PCB_94	0.0000000687	0.0000002800	0.0000000057	0.0000004022	0.0000000322
PCB_95	-.0000102250	0.0000156699	0.0000083948	-.0000179970	0.0000005895
PCB_96	-.0000000902	0.0000002103	0.0000000864	-.0000000937	0.0000000099
PCB_99	0.0000185873	0.0000351959	-.0000026666	0.0000927415	0.0000030655
PCB_103	0.0000000287	0.0000013911	0.0000002956	0.0000013138	0.0000000878
PCB_104	0.0000000023	0.0000000563	0.0000000132	0.0000000576	0.0000000034
PCB_105	0.0000065905	0.0000052335	-.0000015655	0.0000266317	0.0000004018
PCB_106	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_109	0.0000022532	0.0000036754	-.0000003194	0.0000108032	0.0000003022
PCB_111	0.0000000580	0.0000001802	-.0000000035	0.0000003384	0.0000000172
PCB_112	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_114	0.0000005938	0.0000003486	-.0000001141	0.0000023130	0.0000000173
PCB_118	0.0000236276	0.0000296201	-.0000055618	0.0001067991	0.0000026250
PCB_120	0.0000002220	0.0000006251	-.0000000225	0.0000012846	0.0000000560
PCB_121	0.0000000209	0.0000000640	-.0000000003	0.0000001219	0.0000000059
PCB_122	0.0000000582	-.0000000484	-.0000000305	0.0000001446	-.0000000009
PCB_123	0.0000002318	0.0000003513	-.0000000040	0.0000009520	0.0000000301
PCB_126	-.0000000226	-.0000000955	-.0000000181	-.0000001717	-.0000000045
PCB_127	0.0000000288	-.0000000216	-.0000000157	0.0000000767	-.0000000016
PCB_130	0.0000011737	-.0000018183	-.0000010391	0.0000018717	-.0000000346
PCB_131	0.0000000042	-.0000001195	-.0000000250	-.0000001459	-.0000000006
PCB_132	-.0000018363	-.0000060878	-.0000005677	-.0000117439	-.0000003888
PCB_133	0.0000003358	-.0000002767	-.0000002861	0.0000007742	0.0000000092

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_136	PCB 136	-.0000000276	0.0000000005	-.0000000041
PCB_137	PCB 137	0.0000000058	-.0000000013	0.0000000014
PCB_141	PCB 141	-.0000000952	0.0000000026	-.0000000026
PCB_142	PCB 142	-.0000000001	0.0000000000	-.0000000000
PCB_144	PCB 144	-.0000000301	0.0000000006	-.0000000019
PCB_145	PCB 145	-.0000000001	0.0000000000	-.0000000000
PCB_146	PCB 146	-.0000001356	0.0000000041	-.0000000053
PCB_148	PCB 148	-.0000000001	-.0000000000	0.0000000000
PCB_150	PCB 150	-.0000000000	-.0000000000	-.0000000000
PCB_152	PCB 152	-.0000000001	-.0000000000	-.0000000000
PCB_154	PCB 154	-.0000000031	-.0000000000	0.0000000002
PCB_155	PCB 155	-.0000000001	0.0000000000	-.0000000000
PCB_158	PCB 158	-.0000000318	-.0000000000	0.0000000012
PCB_159	PCB 159	-.0000000004	-.0000000000	-.0000000001
PCB_160	PCB 160	-.0000000001	0.0000000000	-.0000000000
PCB_161	PCB 161	-.0000000001	0.0000000000	-.0000000000
PCB_162	PCB 162	-.0000000009	0.0000000000	0.0000000000
PCB_164	PCB 164	-.0000000562	0.0000000016	-.0000000027
PCB_165	PCB 165	0.0000000003	-.0000000000	0.0000000001
PCB_167	PCB 167	-.0000000128	0.0000000003	0.0000000013
PCB_169	PCB 169	-.0000000011	0.0000000000	-.0000000001
PCB_170	PCB 170	-.0000001225	0.0000000038	-.0000000051
PCB_172	PCB 172	-.0000000406	0.0000000013	-.0000000022
PCB_174	PCB 174	-.0000001898	0.0000000062	-.0000000129
PCB_175	PCB 175	-.0000000100	0.0000000003	-.0000000005
PCB_176	PCB 176	-.0000000189	0.0000000006	-.0000000013
PCB_177	PCB 177	-.0000001327	0.0000000043	-.0000000076
PCB_178	PCB 178	-.0000000681	0.0000000023	-.0000000039
PCB_179	PCB 179	-.0000000840	0.0000000027	-.0000000057
PCB_181	PCB 181	-.0000000009	0.0000000000	0.0000000000
PCB_182	PCB 182	0.0000000003	-.0000000000	0.0000000001
PCB_184	PCB 184	-.0000000003	0.0000000000	-.0000000000
PCB_186	PCB 186	-.0000000001	0.0000000000	-.0000000000
PCB_187	PCB 187	-.0000012941	0.0000000446	-.0000000876
PCB_188	PCB 188	-.0000000004	0.0000000000	-.0000000000
PCB_189	PCB 189	-.0000000040	0.0000000001	-.0000000002
PCB_190	PCB 190	-.0000000199	0.0000000007	-.0000000007
PCB_191	PCB 191	-.0000000067	0.0000000002	-.0000000003
PCB_192	PCB 192	-.0000000001	0.0000000000	-.0000000000
PCB_194	PCB 194	-.0000000395	0.0000000015	-.0000000023

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_136	-.0000001574	0.0000000008	-.0000000641	-.0000000076	-.0000001944
PCB_137	-.0000000292	-.0000000009	0.0000000064	0.0000000025	0.0000001058
PCB_141	-.0000020413	-.0000000029	-.0000001512	-.0000000328	-.0000003566
PCB_142	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_144	-.0000004886	-.0000000004	-.0000000530	-.0000000093	-.0000001355
PCB_145	-.0000000017	-.0000000000	-.0000000001	-.0000000000	-.0000000002
PCB_146	-.0000026626	-.0000000034	-.0000002193	-.0000000448	-.0000005334
PCB_148	-.0000000067	-.0000000000	0.0000000006	-.0000000000	0.0000000019
PCB_150	0.0000000034	0.0000000000	-.0000000001	0.0000000000	-.0000000006
PCB_152	0.0000000005	-.0000000000	0.0000000001	-.0000000000	-.0000000004
PCB_154	-.0000000930	-.0000000004	0.0000000022	-.0000000007	0.0000000096
PCB_155	-.0000000020	-.0000000000	-.0000000001	-.0000000000	-.0000000003
PCB_158	-.0000009612	-.0000000024	-.0000000446	-.0000000109	-.0000000103
PCB_159	0.0000000047	0.0000000000	-.0000000001	-.0000000000	-.0000000031
PCB_160	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_161	-.0000000019	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_162	-.0000000216	-.0000000001	0.0000000002	-.0000000002	-.0000000012
PCB_164	-.0000010801	-.0000000010	-.0000001041	-.0000000192	-.0000002483
PCB_165	0.0000000029	-.0000000000	0.0000000021	0.0000000002	0.0000000050
PCB_167	-.0000005231	-.0000000012	-.0000000187	-.0000000056	0.0000000017
PCB_169	-.0000000173	-.0000000000	-.0000000017	-.0000000003	-.0000000054
PCB_170	-.0000024346	-.0000000025	-.0000002137	-.0000000422	-.0000005295
PCB_172	-.0000007184	-.0000000007	-.0000000658	-.0000000133	-.0000001886
PCB_174	-.0000029758	-.0000000016	-.0000003231	-.0000000606	-.0000009604
PCB_175	-.0000001759	-.0000000002	-.0000000150	-.0000000032	-.0000000444
PCB_176	-.0000002959	-.0000000002	-.0000000301	-.0000000059	-.0000000907
PCB_177	-.0000022678	-.0000000023	-.0000001980	-.0000000421	-.0000006001
PCB_178	-.0000011536	-.0000000011	-.0000001004	-.0000000215	-.0000003107
PCB_179	-.0000012954	-.0000000009	-.0000001316	-.0000000261	-.0000004112
PCB_181	-.0000000271	-.0000000001	-.0000000013	-.0000000003	-.0000000006
PCB_182	-.0000000005	-.0000000000	0.0000000008	0.0000000001	0.0000000037
PCB_184	-.0000000049	-.0000000000	-.0000000004	-.0000000001	-.0000000012
PCB_186	-.0000000016	-.0000000000	-.0000000001	-.0000000000	-.0000000005
PCB_187	-.0000202797	-.0000000107	-.0000021763	-.0000004138	-.0000065883
PCB_188	-.0000000075	-.0000000000	-.0000000006	-.0000000001	-.0000000020
PCB_189	-.0000000832	-.0000000001	-.0000000079	-.0000000014	-.0000000175
PCB_190	-.0000004595	-.0000000001	-.0000000447	-.0000000080	-.0000001020
PCB_191	-.0000001275	-.0000000001	-.0000000114	-.0000000023	-.0000000301
PCB_192	-.0000000019	-.0000000000	-.0000000002	-.0000000000	-.0000000005
PCB_194	-.0000006893	-.0000000004	-.0000000697	-.0000000136	-.0000002069

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_136	-.0000000109	-.0000000081	-.0000000002	0.0000000008	-.0000000770
PCB_137	0.0000000017	-.0000000004	-.0000000163	-.0000000017	0.0000000383
PCB_141	-.0000000409	-.0000001725	0.0000000556	0.0000000028	-.0000000494
PCB_142	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_144	-.0000000122	-.0000000394	0.0000000110	0.0000000008	-.0000000355
PCB_145	-.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000000
PCB_146	-.0000000569	-.0000002202	0.0000000755	0.0000000044	-.0000001076
PCB_148	0.0000000000	-.0000000006	0.0000000001	-.0000000000	0.0000000009
PCB_150	0.0000000000	0.0000000003	-.0000000002	-.0000000000	-.0000000005
PCB_152	0.0000000000	-.0000000000	-.0000000001	-.0000000000	-.0000000002
PCB_154	-.0000000006	-.0000000087	0.0000000018	-.0000000001	0.0000000071
PCB_155	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_158	-.0000000143	-.0000000791	0.0000000131	-.0000000003	0.0000000301
PCB_159	-.0000000000	0.0000000001	-.0000000001	-.0000000000	-.0000000008
PCB_160	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_161	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_162	-.0000000002	-.0000000024	0.0000000011	0.0000000000	0.0000000014
PCB_164	-.0000000249	-.0000000856	0.0000000283	0.0000000019	-.0000000604
PCB_165	0.0000000003	-.0000000000	0.0000000000	-.0000000000	0.0000000018
PCB_167	-.0000000070	-.0000000430	0.0000000122	0.0000000002	0.0000000203
PCB_169	-.0000000004	-.0000000015	0.0000000006	0.0000000000	-.0000000014
PCB_170	-.0000000535	-.0000001985	0.0000000693	0.0000000043	-.0000001141
PCB_172	-.0000000166	-.0000000602	0.0000000231	0.0000000016	-.0000000441
PCB_174	-.0000000766	-.0000002463	0.0000000969	0.0000000074	-.0000002564
PCB_175	-.0000000039	-.0000000150	0.0000000058	0.0000000004	-.0000000100
PCB_176	-.0000000073	-.0000000246	0.0000000091	0.0000000007	-.0000000241
PCB_177	-.0000000516	-.0000001924	0.0000000740	0.0000000050	-.0000001424
PCB_178	-.0000000263	-.0000000987	0.0000000391	0.0000000026	-.0000000728
PCB_179	-.0000000324	-.0000001096	0.0000000428	0.0000000032	-.0000001073
PCB_181	-.0000000004	-.0000000022	0.0000000004	0.0000000000	0.0000000007
PCB_182	0.0000000001	-.0000000000	-.0000000002	-.0000000000	0.0000000013
PCB_184	-.0000000001	-.0000000004	0.0000000002	0.0000000000	-.0000000002
PCB_186	-.0000000000	-.0000000001	0.0000000001	0.0000000000	-.0000000001
PCB_187	-.0000005206	-.0000016892	0.0000006922	0.0000000525	-.0000017484
PCB_188	-.0000000002	-.0000000007	0.0000000003	0.0000000000	-.0000000004
PCB_189	-.0000000019	-.0000000065	0.0000000021	0.0000000001	-.0000000042
PCB_190	-.0000000102	-.0000000349	0.0000000139	0.0000000009	-.0000000247
PCB_191	-.0000000029	-.0000000105	0.0000000039	0.0000000002	-.0000000067
PCB_192	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_194	-.0000000170	-.0000000576	0.0000000246	0.0000000018	-.0000000500

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_136	-.0000000115	-.0000001144	-.0000000227	-.0000000396	0.0000000005
PCB_137	-.0000000556	-.0000002781	-.0000001068	-.0000001483	-.0000000018
PCB_141	-.0000002053	-.0000029162	-.0000012892	-.0000004413	-.0000000005
PCB_142	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_144	-.0000000497	-.0000006614	-.0000002869	-.0000001112	0.0000000000
PCB_145	-.0000000001	-.0000000019	-.0000000009	0.0000000000	0.0000000000
PCB_146	-.0000002823	-.0000037292	-.0000016983	-.0000005094	0.0000000002
PCB_148	-.0000000005	-.0000000098	-.0000000049	-.0000000003	-.0000000000
PCB_150	0.0000000003	0.0000000058	0.0000000027	0.0000000007	0.0000000000
PCB_152	0.0000000005	0.0000000020	0.0000000012	0.0000000008	0.0000000000
PCB_154	-.0000000082	-.0000001360	-.0000000642	-.0000000134	-.0000000001
PCB_155	-.0000000001	-.0000000026	-.0000000012	-.0000000002	0.0000000000
PCB_158	-.0000001399	-.0000015540	-.0000007038	-.0000002952	-.0000000018
PCB_159	0.0000000021	0.0000000093	0.0000000071	0.0000000006	0.0000000000
PCB_160	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_161	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_162	-.0000000005	-.0000000308	-.0000000130	-.0000000034	-.0000000000
PCB_164	-.0000001175	-.0000014853	-.0000006740	-.0000002140	0.0000000001
PCB_165	0.0000000009	0.0000000041	0.0000000008	0.0000000033	-.0000000000
PCB_167	-.0000000679	-.0000008106	-.0000003823	-.0000001256	-.0000000006
PCB_169	-.0000000012	-.0000000215	-.0000000096	-.0000000022	0.0000000000
PCB_170	-.0000002419	-.0000033300	-.0000015029	-.0000004593	0.0000000004
PCB_172	-.0000000594	-.0000009412	-.0000004193	-.0000001124	0.0000000004
PCB_174	-.0000002358	-.0000037745	-.0000016626	-.0000004557	0.0000000027
PCB_175	-.0000000135	-.0000002278	-.0000001019	-.0000000256	0.0000000001
PCB_176	-.0000000220	-.0000003702	-.0000001631	-.0000000422	0.0000000002
PCB_177	-.0000001674	-.0000028958	-.0000012914	-.0000003013	0.0000000017
PCB_178	-.0000000826	-.0000014701	-.0000006548	-.0000001504	0.0000000010
PCB_179	-.0000000910	-.0000016194	-.0000007084	-.0000001756	0.0000000013
PCB_181	-.0000000038	-.0000000429	-.0000000197	-.0000000073	-.0000000000
PCB_182	-.0000000006	-.0000000031	-.0000000020	-.0000000006	-.0000000000
PCB_184	-.0000000004	-.0000000064	-.0000000028	-.0000000007	0.0000000000
PCB_186	-.0000000001	-.0000000021	-.0000000009	-.0000000002	0.0000000000
PCB_187	-.0000015613	-.0000255925	-.0000113265	-.0000029065	0.0000000206
PCB_188	-.0000000005	-.0000000096	-.0000000042	-.0000000009	0.0000000000
PCB_189	-.0000000096	-.0000001159	-.0000000530	-.0000000170	-.0000000000
PCB_190	-.0000000447	-.0000005959	-.0000002794	-.0000000847	0.0000000001
PCB_191	-.0000000117	-.0000001712	-.0000000768	-.0000000223	0.0000000000
PCB_192	-.0000000001	-.0000000024	-.0000000011	-.0000000002	0.0000000000
PCB_194	-.0000000534	-.0000008898	-.0000003926	-.0000001039	0.0000000006

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_136	-.0000000027	-.0000003607	-.0000005737	-.0000003435	-.0000002817
PCB_137	0.0000000012	-.0000002815	-.0000001675	-.0000003882	-.0000003011
PCB_141	-.0000000311	-.0000019656	-.0000023539	-.0000018441	-.0000022880
PCB_142	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_144	-.0000000095	-.0000005418	-.0000006926	-.0000005138	-.0000005891
PCB_145	-.0000000001	-.0000000007	-.0000000006	-.0000000003	-.0000000011
PCB_146	-.0000000156	-.0000025430	-.0000032395	-.0000022547	-.0000028037
PCB_148	-.0000000002	0.0000000002	0.0000000046	0.0000000015	-.0000000028
PCB_150	0.0000000000	0.0000000018	0.0000000015	0.0000000017	0.0000000031
PCB_152	-.0000000001	0.0000000026	0.0000000047	0.0000000027	0.0000000022
PCB_154	-.0000000032	-.0000000373	-.0000000036	-.0000000294	-.0000000716
PCB_155	-.0000000000	-.0000000012	-.0000000013	-.0000000008	-.0000000016
PCB_158	-.0000000174	-.0000010076	-.0000010362	-.0000010064	-.0000012088
PCB_159	-.0000000006	0.0000000046	0.0000000094	0.0000000007	0.0000000028
PCB_160	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_161	-.0000000000	-.0000000014	-.0000000020	-.0000000012	-.0000000017
PCB_162	-.0000000010	-.0000000088	-.0000000045	-.0000000103	-.0000000190
PCB_164	-.0000000087	-.0000011171	-.0000014641	-.0000009940	-.0000011989
PCB_165	0.0000000001	0.0000000163	0.0000000262	0.0000000179	0.0000000139
PCB_167	-.0000000086	-.0000004683	-.0000005061	-.0000004329	-.0000005840
PCB_169	-.0000000002	-.0000000149	-.0000000204	-.0000000126	-.0000000166
PCB_170	-.0000000291	-.0000023697	-.0000030506	-.0000021148	-.0000026384
PCB_172	-.0000000083	-.0000006541	-.0000008612	-.0000005688	-.0000007288
PCB_174	-.0000000327	-.0000028724	-.0000039516	-.0000025062	-.0000030782
PCB_175	-.0000000027	-.0000001503	-.0000001948	-.0000001296	-.0000001727
PCB_176	-.0000000047	-.0000002699	-.0000003600	-.0000002328	-.0000002975
PCB_177	-.0000000304	-.0000019048	-.0000024788	-.0000016036	-.0000021640
PCB_178	-.0000000151	-.0000009586	-.0000012562	-.0000008074	-.0000010923
PCB_179	-.0000000166	-.0000011581	-.0000015588	-.0000009934	-.0000012722
PCB_181	-.0000000003	-.0000000268	-.0000000282	-.0000000253	-.0000000315
PCB_182	-.0000000001	0.0000000015	0.0000000058	0.0000000015	-.0000000003
PCB_184	-.0000000001	-.0000000039	-.0000000049	-.0000000033	-.0000000046
PCB_186	-.0000000000	-.0000000013	-.0000000017	-.0000000012	-.0000000016
PCB_187	-.0000001860	-.0000190842	-.0000265364	-.0000164056	-.0000204142
PCB_188	-.0000000001	-.0000000059	-.0000000076	-.0000000050	-.0000000069
PCB_189	-.0000000006	-.0000000877	-.0000001148	-.0000000776	-.0000000938
PCB_190	-.0000000127	-.0000004702	-.0000006484	-.0000004172	-.0000005337
PCB_191	-.0000000016	-.0000001205	-.0000001569	-.0000001066	-.0000001346
PCB_192	-.0000000000	-.0000000015	-.0000000021	-.0000000012	-.0000000018
PCB_194	-.0000000062	-.0000006484	-.0000008933	-.0000005633	-.0000007067

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_136	-.0000000117	0.0000000004	0.0000000008	-.0000000370	-.0000000007
PCB_137	-.0000000028	0.0000000001	-.0000000017	-.0000000336	-.0000000071
PCB_141	-.0000000308	0.0000000030	0.0000000028	-.0000000513	-.0000000211
PCB_142	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_144	-.0000000105	0.0000000007	0.0000000008	-.0000000261	-.0000000049
PCB_145	-.0000000000	-.0000000000	0.0000000000	0.0000000001	-.0000000000
PCB_146	-.0000000460	0.0000000049	0.0000000044	-.0000000664	-.0000000244
PCB_148	0.0000000001	-.0000000000	-.0000000000	0.0000000003	-.0000000001
PCB_150	-.0000000000	-.0000000000	-.0000000000	-.0000000002	0.0000000000
PCB_152	0.0000000001	-.0000000000	-.0000000000	-.0000000001	0.0000000000
PCB_154	0.0000000004	-.0000000001	-.0000000001	0.0000000005	-.0000000011
PCB_155	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_158	-.0000000128	0.0000000010	-.0000000003	-.0000000362	-.0000000150
PCB_159	0.0000000001	-.0000000000	-.0000000000	-.0000000007	0.0000000001
PCB_160	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_161	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_162	0.0000000001	0.0000000000	0.0000000000	0.0000000004	-.0000000002
PCB_164	-.0000000216	0.0000000018	0.0000000019	-.0000000333	-.0000000100
PCB_165	0.0000000004	-.0000000000	-.0000000000	0.0000000011	0.0000000001
PCB_167	-.0000000053	0.0000000006	0.0000000002	-.0000000030	-.0000000067
PCB_169	-.0000000003	0.0000000000	0.0000000000	-.0000000004	-.0000000001
PCB_170	-.0000000429	0.0000000038	0.0000000043	-.0000000597	-.0000000218
PCB_172	-.0000000123	0.0000000011	0.0000000016	-.0000000159	-.0000000053
PCB_174	-.0000000596	0.0000000053	0.0000000074	-.0000000930	-.0000000196
PCB_175	-.0000000027	0.0000000003	0.0000000004	-.0000000035	-.0000000012
PCB_176	-.0000000054	0.0000000004	0.0000000007	-.0000000090	-.0000000019
PCB_177	-.0000000356	0.0000000031	0.0000000050	-.0000000423	-.0000000149
PCB_178	-.0000000179	0.0000000017	0.0000000026	-.0000000204	-.0000000073
PCB_179	-.0000000234	0.0000000020	0.0000000032	-.0000000356	-.0000000079
PCB_181	-.0000000004	0.0000000000	0.0000000000	-.0000000007	-.0000000004
PCB_182	0.0000000001	-.0000000000	-.0000000000	0.0000000002	-.0000000001
PCB_184	-.0000000001	0.0000000000	0.0000000000	-.0000000001	-.0000000000
PCB_186	-.0000000000	0.0000000000	0.0000000000	-.0000000000	-.0000000000
PCB_187	-.0000003992	0.0000000380	0.0000000525	-.0000005621	-.0000001243
PCB_188	-.0000000001	0.0000000000	0.0000000000	-.0000000001	-.0000000000
PCB_189	-.0000000017	0.0000000001	0.0000000001	-.0000000023	-.0000000008
PCB_190	-.0000000086	0.0000000005	0.0000000009	-.0000000090	-.0000000038
PCB_191	-.0000000022	0.0000000002	0.0000000002	-.0000000029	-.0000000010
PCB_192	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_194	-.0000000127	0.0000000013	0.0000000018	-.0000000133	-.0000000045

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_136	0.0000000005	-.0000000119	-.0000000408	0.0000000005	0.0000000377
PCB_137	-.0000000039	-.0000006270	-.0000000419	-.0000000772	-.0000001146
PCB_141	-.0000000095	-.0000026591	-.0000000271	-.0000002478	-.0000001303
PCB_142	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_144	-.0000000021	-.0000005889	-.0000000232	-.0000000560	-.0000000201
PCB_145	-.0000000000	-.0000000011	0.0000000002	-.0000000001	0.0000000001
PCB_146	-.0000000110	-.0000032488	-.0000001179	-.0000003247	-.0000001271
PCB_148	-.0000000000	-.0000000089	0.0000000010	-.0000000009	-.0000000009
PCB_150	0.0000000000	0.0000000058	-.0000000003	0.0000000005	0.0000000005
PCB_152	0.0000000000	0.0000000036	0.0000000008	0.0000000006	0.0000000005
PCB_154	-.0000000006	-.0000001308	0.0000000087	-.0000000121	-.0000000118
PCB_155	-.0000000000	-.0000000019	0.0000000001	-.0000000001	-.0000000000
PCB_158	-.0000000076	-.0000017257	-.0000000400	-.0000001845	-.0000001591
PCB_159	0.0000000000	0.0000000119	0.0000000033	0.0000000028	0.0000000013
PCB_160	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_161	-.0000000000	-.0000000016	0.0000000000	-.0000000001	0.0000000000
PCB_162	-.0000000001	-.0000000259	0.0000000040	-.0000000009	-.0000000016
PCB_164	-.0000000041	-.0000012943	-.0000000641	-.0000001352	-.0000000414
PCB_165	0.0000000000	0.0000000062	0.0000000022	0.0000000008	-.0000000001
PCB_167	-.0000000033	-.0000008399	-.0000000138	-.0000000917	-.0000000672
PCB_169	-.0000000000	-.0000000149	-.0000000001	-.0000000012	0.0000000003
PCB_170	-.0000000090	-.0000028570	-.0000000866	-.0000002817	-.0000000880
PCB_172	-.0000000021	-.0000007300	-.0000000125	-.0000000646	-.0000000052
PCB_174	-.0000000071	-.0000027726	-.0000000901	-.0000002377	0.0000000358
PCB_175	-.0000000005	-.0000001738	-.0000000007	-.0000000147	-.0000000010
PCB_176	-.0000000007	-.0000002696	-.0000000044	-.0000000226	0.0000000035
PCB_177	-.0000000058	-.0000021257	-.0000000044	-.0000001781	0.0000000098
PCB_178	-.0000000029	-.0000010656	0.0000000007	-.0000000866	0.0000000078
PCB_179	-.0000000029	-.0000011391	-.0000000119	-.0000000894	0.0000000238
PCB_181	-.0000000002	-.0000000454	-.0000000012	-.0000000050	-.0000000038
PCB_182	-.0000000000	-.0000000070	0.0000000001	-.0000000011	-.0000000015
PCB_184	-.0000000000	-.0000000047	0.0000000001	-.0000000004	-.0000000000
PCB_186	-.0000000000	-.0000000015	0.0000000000	-.0000000001	0.0000000000
PCB_187	-.0000000443	-.0000182999	-.0000005818	-.0000015436	0.0000003522
PCB_188	-.0000000000	-.0000000068	0.0000000001	-.0000000005	0.0000000001
PCB_189	-.0000000003	-.0000001034	-.0000000056	-.0000000113	-.0000000037
PCB_190	-.0000000013	-.0000005146	-.0000000225	-.0000000561	-.0000000096
PCB_191	-.0000000004	-.0000001409	-.0000000033	-.0000000133	-.0000000030
PCB_192	-.0000000000	-.0000000017	0.0000000000	-.0000000001	0.0000000000
PCB_194	-.0000000016	-.0000006561	-.0000000136	-.0000000554	0.0000000072

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_136	-.0000025844	-.0000000128	0.0000000008	0.0000001927	-.0000002011
PCB_137	-.0000049093	-.0000000213	-.0000000017	-.0000003981	-.0000000097
PCB_141	-.0000349270	-.0000002749	0.0000000028	-.0000003777	-.0000003959
PCB_142	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_144	-.0000084461	-.0000000634	0.0000000008	-.0000000362	-.0000001469
PCB_145	-.0000000182	-.0000000002	0.0000000000	0.0000000002	-.0000000002
PCB_146	-.0000461502	-.0000003496	0.0000000044	-.0000002951	-.0000006383
PCB_148	-.0000000921	-.0000000010	-.0000000000	-.0000000050	0.0000000019
PCB_150	0.0000000574	0.0000000005	-.0000000000	0.0000000019	-.0000000007
PCB_152	0.0000000385	0.0000000002	-.0000000000	0.0000000006	0.0000000007
PCB_154	-.0000014204	-.0000000132	-.0000000001	-.0000000568	0.0000000124
PCB_155	-.0000000268	-.0000000003	0.0000000000	-.0000000001	-.0000000002
PCB_158	-.0000196174	-.0000001466	-.0000000003	-.0000005443	-.0000001349
PCB_159	0.0000001681	0.0000000010	-.0000000000	0.0000000027	0.0000000027
PCB_160	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_161	-.0000000257	-.0000000002	0.0000000000	0.0000000002	-.0000000003
PCB_162	-.0000002596	-.0000000027	0.0000000000	-.0000000086	0.0000000057
PCB_164	-.0000188741	-.0000001429	0.0000000019	-.0000000599	-.0000003206
PCB_165	0.0000001075	0.0000000005	-.0000000000	-.0000000044	0.0000000070
PCB_167	-.0000098201	-.0000000786	0.0000000002	-.0000002270	-.0000000584
PCB_169	-.0000002507	-.0000000020	0.0000000000	0.0000000020	-.0000000042
PCB_170	-.0000408887	-.0000003203	0.0000000043	-.0000001591	-.0000006155
PCB_172	-.0000112111	-.0000000897	0.0000000016	0.0000000192	-.0000001773
PCB_174	-.0000459192	-.0000003593	0.0000000074	0.0000003396	-.0000008810
PCB_175	-.0000026566	-.0000000218	0.0000000004	0.0000000025	-.0000000377
PCB_176	-.0000044280	-.0000000358	0.0000000007	0.0000000265	-.0000000800
PCB_177	-.0000336738	-.0000002777	0.0000000050	0.0000001089	-.0000005154
PCB_178	-.0000169787	-.0000001401	0.0000000026	0.0000000653	-.0000002548
PCB_179	-.0000190888	-.0000001540	0.0000000032	0.0000001467	-.0000003430
PCB_181	-.0000005390	-.0000000041	0.0000000000	-.0000000129	-.0000000044
PCB_182	-.0000000376	-.0000000004	-.0000000000	-.0000000063	0.0000000020
PCB_184	-.0000000724	-.0000000006	0.0000000000	-.0000000000	-.0000000009
PCB_186	-.0000000234	-.0000000002	0.0000000000	0.0000000001	-.0000000003
PCB_187	-.0003090825	-.0000024247	0.0000000525	0.0000026817	-.0000059074
PCB_188	-.0000001069	-.0000000009	0.0000000000	0.0000000004	-.0000000014
PCB_189	-.0000014854	-.0000000113	0.0000000001	-.0000000058	-.0000000257
PCB_190	-.0000074484	-.0000000624	0.0000000009	0.0000000085	-.0000001305
PCB_191	-.0000020695	-.0000000164	0.0000000002	-.0000000030	-.0000000316
PCB_192	-.0000000265	-.0000000002	0.0000000000	0.0000000002	-.0000000004
PCB_194	-.0000105514	-.0000000844	0.0000000018	0.0000000764	-.0000001891

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_136	-.0000000398	0.0000001274	-.0000001069	0.0000004069	-.0000013811
PCB_137	-.0000000161	-.0000001983	-.0000000051	-.0000010895	0.0000001229
PCB_141	-.0000001143	0.0000002487	-.0000002873	-.0000028515	-.0000043204
PCB_142	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_144	-.0000000375	0.0000000865	-.0000000952	-.0000005129	-.0000013449
PCB_145	-.0000000000	0.0000000004	-.0000000001	-.0000000010	-.0000000009
PCB_146	-.0000001746	0.0000004300	-.0000004412	-.0000032422	-.0000065426
PCB_148	0.0000000003	-.0000000012	0.0000000011	-.0000000178	0.0000000140
PCB_150	-.0000000001	0.0000000002	-.0000000001	0.0000000089	0.0000000008
PCB_152	0.0000000002	0.0000000001	0.0000000005	0.0000000041	0.0000000075
PCB_154	0.0000000009	-.0000000090	0.0000000047	-.0000002154	0.0000000527
PCB_155	-.0000000000	0.0000000004	-.0000000001	-.0000000020	-.0000000027
PCB_158	-.0000000542	-.0000000704	-.0000001005	-.0000023199	-.0000013690
PCB_159	0.0000000009	0.0000000003	0.0000000012	0.0000000175	0.0000000133
PCB_160	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_161	-.0000000001	0.0000000005	-.0000000003	-.0000000011	-.0000000044
PCB_162	0.0000000009	0.0000000007	0.0000000010	-.0000000378	-.0000000027
PCB_164	-.0000000820	0.0000002012	-.0000002029	-.0000011750	-.0000028947
PCB_165	0.0000000015	-.0000000028	0.0000000038	-.0000000060	0.0000000495
PCB_167	-.0000000238	-.0000000026	-.0000000449	-.0000011131	-.0000006580
PCB_169	-.0000000010	0.0000000048	-.0000000030	-.0000000093	-.0000000459
PCB_170	-.0000001601	0.0000004431	-.0000004065	-.0000026731	-.0000059508
PCB_172	-.0000000440	0.0000001651	-.0000001208	-.0000005898	-.0000018226
PCB_174	-.0000002085	0.0000008175	-.0000005852	-.0000017185	-.0000087070
PCB_175	-.0000000095	0.0000000395	-.0000000268	-.0000001451	-.0000004106
PCB_176	-.0000000188	0.0000000771	-.0000000527	-.0000001794	-.0000007812
PCB_177	-.0000001250	0.0000005441	-.0000003529	-.0000016637	-.0000053833
PCB_178	-.0000000620	0.0000002831	-.0000001790	-.0000008185	-.0000027645
PCB_179	-.0000000803	0.0000003544	-.0000002322	-.0000007104	-.0000035108
PCB_181	-.0000000016	-.0000000008	-.0000000030	-.0000000598	-.0000000415
PCB_182	0.0000000003	-.0000000032	0.0000000014	-.0000000173	0.0000000223
PCB_184	-.0000000002	0.0000000011	-.0000000007	-.0000000042	-.0000000107
PCB_186	-.0000000001	0.0000000004	-.0000000002	-.0000000011	-.0000000038
PCB_187	-.0000013929	0.0000057745	-.0000039695	-.0000108335	-.0000596460
PCB_188	-.0000000004	0.0000000018	-.0000000011	-.0000000053	-.0000000172
PCB_189	-.0000000065	0.0000000147	-.0000000157	-.0000000964	-.0000002204
PCB_190	-.0000000319	0.0000001025	-.0000000792	-.0000004207	-.0000011100
PCB_191	-.0000000081	0.0000000260	-.0000000212	-.0000001244	-.0000003158
PCB_192	-.0000000001	0.0000000005	-.0000000003	-.0000000012	-.0000000045
PCB_194	-.0000000450	0.0000001882	-.0000001281	-.0000004342	-.0000019494

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_136	-.0000001483	-.0000003228	-.0000004830	0.0000000008	0.0000000331
PCB_137	-.0000000804	0.0000000425	-.0000000265	-.0000000017	-.0000001087
PCB_141	-.0000004952	-.0000007986	-.0000012168	0.0000000028	0.0000001319
PCB_142	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_144	-.0000001574	-.0000002703	-.0000004140	0.0000000008	0.0000000342
PCB_145	-.0000000002	-.0000000004	-.0000000005	0.0000000000	0.0000000002
PCB_146	-.0000007238	-.0000012087	-.0000017780	0.0000000044	0.0000002179
PCB_148	0.0000000002	0.0000000031	0.0000000041	-.0000000000	-.0000000002
PCB_150	-.0000000002	-.0000000005	-.0000000009	-.0000000000	-.0000000002
PCB_152	0.0000000004	0.0000000011	0.0000000015	-.0000000000	-.0000000000
PCB_154	-.0000000067	0.0000000151	0.0000000155	-.0000000001	-.0000000015
PCB_155	-.0000000002	-.0000000005	-.0000000006	0.0000000000	0.0000000003
PCB_158	-.0000002527	-.0000002330	-.0000004350	-.0000000003	-.0000000310
PCB_159	0.0000000022	0.0000000022	0.0000000029	-.0000000000	-.0000000002
PCB_160	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_161	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_162	0.0000000015	0.0000000030	0.0000000051	0.0000000000	0.0000000019
PCB_164	-.0000003270	-.0000005703	-.0000008492	0.0000000019	0.0000000914
PCB_165	0.0000000046	0.0000000112	0.0000000171	-.0000000000	-.0000000005
PCB_167	-.0000001054	-.0000001106	-.0000001898	0.0000000002	0.0000000085
PCB_169	-.0000000042	-.0000000088	-.0000000124	0.0000000000	0.0000000024
PCB_170	-.0000006538	-.0000011561	-.0000017133	0.0000000043	0.0000002155
PCB_172	-.0000001829	-.0000003516	-.0000005054	0.0000000016	0.0000000814
PCB_174	-.0000008461	-.0000017119	-.0000024465	0.0000000074	0.0000003817
PCB_175	-.0000000411	-.0000000786	-.0000001126	0.0000000004	0.0000000200
PCB_176	-.0000000800	-.0000001565	-.0000002261	0.0000000007	0.0000000357
PCB_177	-.0000005416	-.0000010460	-.0000014919	0.0000000050	0.0000002702
PCB_178	-.0000002690	-.0000005302	-.0000007496	0.0000000026	0.0000001427
PCB_179	-.0000003402	-.0000006885	-.0000009787	0.0000000032	0.0000001684
PCB_181	-.0000000071	-.0000000073	-.0000000127	0.0000000000	-.0000000003
PCB_182	0.0000000007	0.0000000044	0.0000000053	-.0000000000	-.0000000014
PCB_184	-.0000000011	-.0000000020	-.0000000028	0.0000000000	0.0000000006
PCB_186	-.0000000004	-.0000000007	-.0000000011	0.0000000000	0.0000000002
PCB_187	-.0000056297	-.0000116134	-.0000164102	0.0000000525	0.0000027498
PCB_188	-.0000000016	-.0000000032	-.0000000044	0.0000000000	0.0000000010
PCB_189	-.0000000256	-.0000000441	-.0000000662	0.0000000001	0.0000000066
PCB_190	-.0000001201	-.0000002387	-.0000003574	0.0000000009	0.0000000485
PCB_191	-.0000000331	-.0000000611	-.0000000893	0.0000000002	0.0000000128
PCB_192	-.0000000003	-.0000000008	-.0000000011	0.0000000000	0.0000000003
PCB_194	-.0000001777	-.0000003770	-.0000005311	0.0000000018	0.0000000931

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_136	0.0000000033	-.0000000081	0.0000000008	0.0000000062	0.0000005268
PCB_137	-.0000000046	-.0000000329	-.0000000017	-.0000000129	-.0000002121
PCB_141	0.0000000082	-.0000001334	0.0000000026	0.0000000150	-.0000003704
PCB_142	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_144	0.0000000026	-.0000000325	0.0000000007	0.0000000049	0.0000000825
PCB_145	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000002
PCB_146	0.0000000135	-.0000001690	0.0000000042	0.0000000276	-.0000003326
PCB_148	-.0000000000	-.0000000006	-.0000000000	-.0000000001	-.0000000111
PCB_150	-.0000000000	0.0000000002	-.0000000000	-.0000000000	0.0000000048
PCB_152	-.0000000000	-.0000000000	-.0000000000	-.0000000000	0.0000000004
PCB_154	-.0000000003	-.0000000078	-.0000000001	-.0000000005	-.0000001031
PCB_155	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000008
PCB_158	-.0000000009	-.0000000843	-.0000000004	-.0000000045	-.0000005122
PCB_159	0.0000000000	0.0000000001	-.0000000000	-.0000000000	0.0000000067
PCB_160	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_161	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_162	0.0000000001	-.0000000014	0.0000000000	0.0000000001	-.0000000231
PCB_164	0.0000000060	-.0000000648	0.0000000018	0.0000000119	0.0000000553
PCB_165	-.0000000001	0.0000000000	-.0000000000	-.0000000001	-.0000000187
PCB_167	0.0000000003	-.0000000361	0.0000000001	0.0000000001	-.0000003008
PCB_169	0.0000000001	-.0000000009	0.0000000000	0.0000000003	0.0000000017
PCB_170	0.0000000131	-.0000001421	0.0000000041	0.0000000267	-.0000000524
PCB_172	0.0000000048	-.0000000394	0.0000000015	0.0000000101	0.0000000212
PCB_174	0.0000000233	-.0000001573	0.0000000072	0.0000000498	0.0000005907
PCB_175	0.0000000011	-.0000000096	0.0000000004	0.0000000025	-.0000000049
PCB_176	0.0000000021	-.0000000160	0.0000000007	0.0000000046	0.0000000464
PCB_177	0.0000000152	-.0000001218	0.0000000049	0.0000000331	0.0000000185
PCB_178	0.0000000080	-.0000000613	0.0000000026	0.0000000175	-.0000000010
PCB_179	0.0000000099	-.0000000689	0.0000000031	0.0000000215	0.0000001873
PCB_181	-.0000000000	-.0000000022	-.0000000000	-.0000000001	-.0000000136
PCB_182	-.0000000001	-.0000000003	-.0000000000	-.0000000002	-.0000000088
PCB_184	0.0000000000	-.0000000003	0.0000000000	0.0000000001	-.0000000006
PCB_186	0.0000000000	-.0000000001	0.0000000000	0.0000000000	0.0000000000
PCB_187	0.0000001645	-.0000010435	0.0000000513	0.0000003563	0.0000037063
PCB_188	0.0000000001	-.0000000004	0.0000000000	0.0000000001	-.0000000004
PCB_189	0.0000000004	-.0000000049	0.0000000001	0.0000000008	0.0000000042
PCB_190	0.0000000028	-.0000000193	0.0000000008	0.0000000060	0.0000000778
PCB_191	0.0000000008	-.0000000072	0.0000000002	0.0000000016	-.0000000000
PCB_192	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000001
PCB_194	0.0000000054	-.0000000338	0.0000000017	0.0000000115	0.0000000908

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_136	-.0000001977	0.0000003467	0.0000000293	-.0000028745	-.0000000396
PCB_137	-.0000000622	-.0000011729	-.0000000448	0.0000013031	-.0000000065
PCB_141	-.0000005167	-.0000022475	0.0000000130	-.0000036343	-.0000000974
PCB_142	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_144	-.0000001690	-.0000004103	0.0000000103	-.0000016196	-.0000000331
PCB_145	-.0000000003	-.0000000005	0.0000000000	-.0000000015	0.0000000000
PCB_146	-.0000009133	-.0000026595	0.0000000378	-.0000066040	-.0000001515
PCB_148	0.0000000012	-.0000000160	-.0000000006	0.0000000418	0.0000000006
PCB_150	-.0000000005	0.0000000065	0.0000000001	-.0000000115	-.0000000000
PCB_152	0.0000000014	0.0000000037	0.0000000000	0.0000000060	0.0000000003
PCB_154	0.0000000082	-.0000001866	-.0000000051	0.0000003310	0.0000000040
PCB_155	-.0000000002	-.0000000012	0.0000000000	-.0000000018	-.0000000000
PCB_158	-.0000002427	-.0000020998	-.0000000393	0.0000003238	-.0000000339
PCB_159	0.0000000083	0.0000000205	0.0000000004	0.0000000045	0.0000000006
PCB_160	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_161	-.0000000004	-.0000000004	0.0000000001	-.0000000054	-.0000000001
PCB_162	0.0000000095	-.0000000215	-.0000000002	0.0000000607	0.0000000006
PCB_164	-.0000004334	-.0000009620	0.0000000218	-.0000034092	-.0000000713
PCB_165	0.0000000068	-.0000000063	-.0000000008	0.0000000934	0.0000000018
PCB_167	-.0000001190	-.0000009558	-.0000000146	0.0000001617	-.0000000146
PCB_169	-.0000000047	-.0000000045	0.0000000007	-.0000000603	-.0000000010
PCB_170	-.0000008077	-.0000020665	0.0000000470	-.0000066042	-.0000001395
PCB_172	-.0000002184	-.0000003995	0.0000000222	-.0000022146	-.0000000400
PCB_174	-.0000010294	-.0000010020	0.0000001268	-.0000118315	-.0000001992
PCB_175	-.0000000449	-.0000000952	0.0000000052	-.0000004780	-.0000000084
PCB_176	-.0000000912	-.0000001079	0.0000000114	-.0000010494	-.0000000169
PCB_177	-.0000006234	-.0000010610	0.0000000736	-.0000066294	-.0000001093
PCB_178	-.0000003041	-.0000004989	0.0000000392	-.0000033882	-.0000000557
PCB_179	-.0000003904	-.0000003816	0.0000000542	-.0000047241	-.0000000749
PCB_181	-.0000000084	-.0000000545	-.0000000009	-.0000000027	-.0000000010
PCB_182	0.0000000011	-.0000000176	-.0000000009	0.0000000512	0.0000000006
PCB_184	-.0000000011	-.0000000028	0.0000000001	-.0000000116	-.0000000002
PCB_186	-.0000000004	-.0000000006	0.0000000001	-.0000000047	-.0000000001
PCB_187	-.0000069817	-.0000058763	0.0000009067	-.0000812713	-.0000013486
PCB_188	-.0000000016	-.0000000030	0.0000000003	-.0000000202	-.0000000003
PCB_189	-.0000000358	-.0000000806	0.0000000014	-.0000002593	-.0000000056
PCB_190	-.0000001502	-.0000002767	0.0000000129	-.0000014286	-.0000000282
PCB_191	-.0000000401	-.0000000907	0.0000000031	-.0000003648	-.0000000072
PCB_192	-.0000000004	-.0000000004	0.0000000001	-.0000000055	-.0000000001
PCB_194	-.0000002249	-.0000002347	0.0000000290	-.0000025738	-.0000000445

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_136	0.0000013221	0.0000000150	-.0000081418	-.0000000760	-.0000000019
PCB_137	-.0000054536	-.0000000504	0.0000062216	-.0000000199	0.0000000007
PCB_141	-.0000113705	-.0000001250	-.0000055034	-.0000005467	-.0000000215
PCB_142	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_144	-.0000021827	-.0000000238	-.0000035200	-.0000001388	-.0000000051
PCB_145	-.0000000040	-.0000000000	-.0000000055	-.0000000003	-.0000000000
PCB_146	-.0000119122	-.0000001603	-.0000132527	-.0000007503	-.0000000284
PCB_148	-.0000000719	-.0000000008	0.0000001236	-.0000000003	-.0000000000
PCB_150	0.0000000304	0.0000000003	-.0000000431	0.0000000008	0.0000000000
PCB_152	0.0000000112	0.0000000003	0.0000000001	0.0000000008	0.0000000000
PCB_154	-.0000008971	-.0000000091	0.0000010888	-.0000000113	-.0000000006
PCB_155	-.0000000063	-.0000000001	-.0000000044	-.0000000004	-.0000000000
PCB_158	-.0000100208	-.0000001056	0.0000049930	-.0000002451	-.0000000084
PCB_159	0.0000000466	0.0000000014	-.0000000271	0.0000000026	0.0000000000
PCB_160	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_161	-.0000000024	-.0000000000	-.0000000143	-.0000000005	-.0000000000
PCB_162	-.0000001356	-.0000000010	0.0000001861	-.0000000030	-.0000000003
PCB_164	-.0000044828	-.0000000601	-.0000073234	-.0000003185	-.0000000114
PCB_165	-.0000000092	-.0000000002	0.0000002236	0.0000000033	0.0000000001
PCB_167	-.0000045066	-.0000000511	0.0000022573	-.0000001323	-.0000000048
PCB_169	-.0000000254	-.0000000004	-.0000001612	-.0000000046	-.0000000002
PCB_170	-.0000101137	-.0000001278	-.0000139520	-.0000006846	-.0000000258
PCB_172	-.0000020262	-.0000000276	-.0000053815	-.0000001970	-.0000000079
PCB_174	-.0000053616	-.0000000852	-.0000305146	-.0000008517	-.0000000336
PCB_175	-.0000004961	-.0000000065	-.0000011749	-.0000000457	-.0000000019
PCB_176	-.0000006131	-.0000000085	-.0000027266	-.0000000793	-.0000000031
PCB_177	-.0000055226	-.0000000766	-.0000169114	-.0000005889	-.0000000241
PCB_178	-.0000026074	-.0000000371	-.0000087355	-.0000002995	-.0000000125
PCB_179	-.0000021818	-.0000000330	-.0000125075	-.0000003498	-.0000000143
PCB_181	-.0000002516	-.0000000028	0.0000000948	-.0000000071	-.0000000002
PCB_182	-.0000000794	-.0000000008	0.0000001668	0.0000000006	0.0000000000
PCB_184	-.0000000139	-.0000000002	-.0000000288	-.0000000012	-.0000000001
PCB_186	-.0000000037	-.0000000000	-.0000000124	-.0000000004	-.0000000000
PCB_187	-.0000302354	-.0000005482	-.0002126988	-.0000058075	-.0000002324
PCB_188	-.0000000163	-.0000000002	-.0000000528	-.0000000019	-.0000000001
PCB_189	-.0000003738	-.0000000050	-.0000005339	-.0000000251	-.0000000009
PCB_190	-.0000016294	-.0000000200	-.0000031346	-.0000001320	-.0000000048
PCB_191	-.0000004536	-.0000000059	-.0000008234	-.0000000355	-.0000000014
PCB_192	-.0000000029	-.0000000000	-.0000000144	-.0000000005	-.0000000000
PCB_194	-.0000012885	-.0000000202	-.0000065372	-.0000001998	-.0000000081

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_136	-.0000016127	0.0000000008	-.0000007816	-.0000000397	0.0000000008
PCB_137	0.0000033952	-.0000000017	0.0000009301	0.0000000061	-.0000000017
PCB_141	0.0000014955	0.0000000028	-.0000004044	-.0000000515	0.0000000028
PCB_142	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_144	-.0000000557	0.0000000008	-.0000003036	-.0000000231	0.0000000008
PCB_145	-.0000000014	0.0000000000	-.0000000006	-.0000000000	0.0000000000
PCB_146	-.0000001367	0.0000000044	-.0000012573	-.0000000844	0.0000000044
PCB_148	0.0000000353	-.0000000000	0.0000000132	0.0000000005	-.0000000000
PCB_150	-.0000000116	-.0000000000	-.0000000039	-.0000000002	-.0000000000
PCB_152	-.0000000051	-.0000000000	-.0000000000	0.0000000001	-.0000000000
PCB_154	0.0000003874	-.0000000001	0.0000001214	0.0000000039	-.0000000001
PCB_155	-.0000000013	0.0000000000	-.0000000007	-.0000000000	0.0000000000
PCB_158	0.0000039192	-.0000000003	0.0000007949	-.0000000058	-.0000000003
PCB_159	-.0000000210	-.0000000000	-.0000000032	-.0000000000	-.0000000000
PCB_160	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_161	-.0000000039	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_162	0.0000000385	0.0000000000	0.0000000138	0.0000000010	0.0000000000
PCB_164	-.0000003244	0.0000000019	-.0000006720	-.0000000456	0.0000000019
PCB_165	0.0000000257	-.0000000000	0.0000000195	0.0000000014	-.0000000000
PCB_167	0.0000015864	0.0000000002	0.0000003122	-.0000000004	0.0000000002
PCB_169	-.0000000348	0.0000000000	-.0000000183	-.0000000007	0.0000000000
PCB_170	-.0000005600	0.0000000043	-.0000013259	-.0000000869	0.0000000043
PCB_172	-.0000008183	0.0000000016	-.0000005705	-.0000000272	0.0000000016
PCB_174	-.0000056497	0.0000000074	-.0000032536	-.0000001455	0.0000000074
PCB_175	-.0000001867	0.0000000004	-.0000001287	-.0000000057	0.0000000004
PCB_176	-.0000004838	0.0000000007	-.0000002886	-.0000000131	0.0000000007
PCB_177	-.0000030483	0.0000000050	-.0000018475	-.0000000796	0.0000000050
PCB_178	-.0000016880	0.0000000026	-.0000009742	-.0000000398	0.0000000026
PCB_179	-.0000025055	0.0000000032	-.0000013599	-.0000000572	0.0000000032
PCB_181	0.0000000888	0.0000000000	0.0000000165	-.0000000002	0.0000000000
PCB_182	0.0000000574	-.0000000000	0.0000000198	0.0000000006	-.0000000000
PCB_184	-.0000000051	0.0000000000	-.0000000033	-.0000000001	0.0000000000
PCB_186	-.0000000024	0.0000000000	-.0000000014	-.0000000001	0.0000000000
PCB_187	-.0000427033	0.0000000525	-.0000231613	-.0000009761	0.0000000525
PCB_188	-.0000000114	0.0000000000	-.0000000061	-.0000000002	0.0000000000
PCB_189	-.0000000057	0.0000000001	-.0000000465	-.0000000035	0.0000000001
PCB_190	-.0000001875	0.0000000009	-.0000003089	-.0000000193	0.0000000009
PCB_191	-.0000000804	0.0000000002	-.0000000832	-.0000000046	0.0000000002
PCB_192	-.0000000036	0.0000000000	-.0000000018	-.0000000001	0.0000000000
PCB_194	-.0000012721	0.0000000018	-.0000007147	-.0000000308	0.0000000018

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_136	-.0000000769	-.0000085993	-.0000001473	-.0000000129	-.0000000027
PCB_137	0.0000003648	0.0000091118	0.0000000347	0.0000000033	0.0000000296
PCB_141	0.0000001968	0.0000000133	-.0000001599	-.0000000178	0.0000000524
PCB_142	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_144	0.0000000313	-.0000024196	-.0000000792	-.0000000077	0.0000000114
PCB_145	-.0000000001	-.0000000043	-.0000000001	-.0000000000	0.0000000000
PCB_146	0.0000000751	-.0000080069	-.0000002858	-.0000000295	0.0000000503
PCB_148	0.0000000025	0.0000001423	0.0000000018	0.0000000002	0.0000000003
PCB_150	-.0000000005	-.0000000580	-.0000000008	-.0000000001	-.0000000001
PCB_152	-.0000000005	-.0000000150	0.0000000001	0.0000000000	-.0000000001
PCB_154	0.0000000303	0.0000013853	0.0000000144	0.0000000013	0.0000000036
PCB_155	-.0000000002	-.0000000026	-.0000000000	-.0000000000	0.0000000000
PCB_158	0.0000004074	0.0000099929	-.0000000007	-.0000000013	0.0000000507
PCB_159	-.0000000021	-.0000000630	-.0000000000	-.0000000000	-.0000000004
PCB_160	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_161	-.0000000004	-.0000000135	-.0000000002	-.0000000000	0.0000000000
PCB_162	-.0000000000	0.0000002261	0.0000000040	0.0000000003	0.0000000002
PCB_164	0.0000000329	-.0000050184	-.0000001575	-.0000000155	0.0000000231
PCB_165	-.0000000003	0.0000001886	0.0000000046	0.0000000004	-.0000000003
PCB_167	0.0000001513	0.0000045916	0.0000000078	-.0000000001	0.0000000230
PCB_169	-.0000000029	-.0000001561	-.0000000025	-.0000000003	0.0000000000
PCB_170	0.0000000463	-.0000089035	-.0000002952	-.0000000300	0.0000000493
PCB_172	-.0000000551	-.0000045515	-.0000000952	-.0000000096	0.0000000079
PCB_174	-.0000003952	-.0000284994	-.0000005188	-.0000000509	0.0000000183
PCB_175	-.0000000144	-.0000009946	-.0000000201	-.0000000021	0.0000000018
PCB_176	-.0000000329	-.0000025235	-.0000000471	-.0000000046	0.0000000023
PCB_177	-.0000002348	-.0000151877	-.0000002846	-.0000000285	0.0000000183
PCB_178	-.0000001385	-.0000079963	-.0000001421	-.0000000144	0.0000000073
PCB_179	-.0000001900	-.0000119895	-.0000002058	-.0000000202	0.0000000053
PCB_181	0.0000000094	0.0000002173	-.0000000005	-.0000000001	0.0000000013
PCB_182	0.0000000051	0.0000002053	0.0000000021	0.0000000002	0.0000000005
PCB_184	-.0000000005	-.0000000252	-.0000000005	-.0000000000	0.0000000000
PCB_186	-.0000000002	-.0000000116	-.0000000002	-.0000000000	0.0000000000
PCB_187	-.0000032166	-.0002033523	-.0000034955	-.0000003444	0.0000000741
PCB_188	-.0000000010	-.0000000492	-.0000000008	-.0000000001	0.0000000000
PCB_189	0.0000000049	-.0000003272	-.0000000122	-.0000000012	0.0000000021
PCB_190	0.0000000046	-.0000019244	-.0000000653	-.0000000065	0.0000000119
PCB_191	-.0000000031	-.0000006069	-.0000000159	-.0000000016	0.0000000021
PCB_192	-.0000000004	-.0000000132	-.0000000002	-.0000000000	0.0000000000
PCB_194	-.0000000976	-.0000059477	-.0000001078	-.0000000109	0.0000000044

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_136	-.0000000555	0.0000000063	-.0000000048	-.0000002099	0.0000000230
PCB_137	0.0000001153	-.0000000130	0.0000000189	0.0000005210	-.0000000072
PCB_141	0.0000000078	0.0000000211	0.0000000238	0.0000012716	0.0000000550
PCB_142	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_144	-.0000000064	0.0000000058	0.0000000043	0.0000002229	0.0000000192
PCB_145	-.0000000001	0.0000000000	-.0000000000	0.0000000006	0.0000000001
PCB_146	-.0000000762	0.0000000376	0.0000000259	0.0000013410	0.0000000546
PCB_148	0.0000000013	-.0000000000	0.0000000002	0.0000000094	-.0000000000
PCB_150	-.0000000002	-.0000000000	-.0000000001	-.0000000040	0.0000000001
PCB_152	0.0000000001	0.0000000000	-.0000000001	-.0000000010	0.0000000001
PCB_154	0.0000000151	0.0000000000	0.0000000022	0.0000001109	0.0000000008
PCB_155	-.0000000001	0.0000000000	0.0000000000	0.0000000009	0.0000000000
PCB_158	0.0000001207	-.0000000030	0.0000000275	0.0000010832	0.0000000164
PCB_159	0.0000000001	0.0000000000	-.0000000002	-.0000000056	0.0000000005
PCB_160	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_161	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_162	0.0000000019	0.0000000002	0.0000000002	0.0000000189	0.0000000002
PCB_164	-.0000000410	0.0000000145	0.0000000092	0.0000004817	0.0000000322
PCB_165	0.0000000012	0.0000000000	0.0000000001	0.0000000042	-.0000000008
PCB_167	0.0000000426	0.0000000004	0.0000000116	0.0000005136	0.0000000086
PCB_169	-.0000000014	0.0000000004	-.0000000000	0.0000000035	0.0000000006
PCB_170	-.0000000776	0.0000000327	0.0000000188	0.0000011317	0.0000000732
PCB_172	-.0000000442	0.0000000128	0.0000000022	0.0000002396	0.0000000221
PCB_174	-.0000002562	0.0000000606	0.0000000001	0.0000006150	0.0000001033
PCB_175	-.0000000092	0.0000000031	0.0000000005	0.0000000613	0.0000000054
PCB_176	-.0000000207	0.0000000057	0.0000000001	0.0000000726	0.0000000110
PCB_177	-.0000001465	0.0000000431	0.0000000035	0.0000006937	0.0000000713
PCB_178	-.0000000791	0.0000000227	0.0000000011	0.0000003355	0.0000000350
PCB_179	-.0000001090	0.0000000274	-.0000000010	0.0000002703	0.0000000448
PCB_181	0.0000000023	0.0000000000	0.0000000007	0.0000000275	0.0000000004
PCB_182	0.0000000021	-.0000000002	0.0000000003	0.0000000091	-.0000000001
PCB_184	-.0000000003	0.0000000001	0.0000000000	0.0000000018	0.0000000001
PCB_186	-.0000000001	0.0000000000	0.0000000000	0.0000000005	0.0000000001
PCB_187	-.0000019279	0.0000004371	-.0000000179	0.0000036523	0.0000006625
PCB_188	-.0000000005	0.0000000002	0.0000000000	0.0000000022	0.0000000002
PCB_189	-.0000000029	0.0000000010	0.0000000008	0.0000000398	0.0000000026
PCB_190	-.0000000115	0.0000000044	0.0000000021	0.0000001840	0.0000000223
PCB_191	-.0000000057	0.0000000019	0.0000000007	0.0000000519	0.0000000039
PCB_192	-.0000000002	0.0000000000	-.0000000000	0.0000000004	0.0000000001
PCB_194	-.0000000640	0.0000000141	-.0000000002	0.0000001561	0.0000000226

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_136	0.0000007204	-.0000001265	0.0000007448	-.0000003905	0.0000003172
PCB_137	-.0000008604	0.0000001153	-.0000003905	0.0000014996	0.0000007149
PCB_141	0.0000015663	0.0000002385	0.0000003172	0.0000007149	0.0000040325
PCB_142	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_144	0.0000005292	0.0000000142	0.0000002965	0.0000000835	0.0000009834
PCB_145	0.0000000015	0.0000000001	0.0000000007	-.0000000011	0.0000000014
PCB_146	0.0000025631	0.0000002415	0.0000007779	0.0000003382	0.0000051002
PCB_148	-.0000000086	0.0000000032	-.0000000093	0.0000000106	0.0000000074
PCB_150	0.0000000005	-.0000000014	0.0000000052	-.0000000027	-.0000000068
PCB_152	-.0000000009	-.0000000003	0.0000000017	-.0000000022	-.0000000051
PCB_154	-.0000000587	0.0000000335	-.0000000802	0.0000001251	0.0000001458
PCB_155	0.0000000019	0.0000000003	0.0000000001	-.0000000009	0.0000000027
PCB_158	-.0000001816	0.0000002429	-.0000003669	0.0000016064	0.0000023089
PCB_159	0.0000000020	-.0000000020	0.0000000063	-.0000000085	-.0000000127
PCB_160	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_161	0.0000000028	0.0000000001	0.0000000008	-.0000000017	0.0000000028
PCB_162	0.0000000059	0.0000000068	-.0000000206	0.0000000040	0.0000000343
PCB_164	0.0000011740	0.0000000534	0.0000005269	0.0000000623	0.0000020902
PCB_165	-.0000000199	0.0000000039	-.0000000194	0.0000000039	-.0000000180
PCB_167	0.0000000355	0.0000001246	-.0000002114	0.0000005719	0.0000011071
PCB_169	0.0000000261	0.0000000001	0.0000000111	-.0000000120	0.0000000272
PCB_170	0.0000025499	0.0000001578	0.0000009588	0.0000000301	0.0000045569
PCB_172	0.0000009144	0.0000000264	0.0000003667	-.0000002462	0.0000012325
PCB_174	0.0000045358	-.0000000343	0.0000021914	-.0000017023	0.0000050657
PCB_175	0.0000002150	0.0000000086	0.0000000793	-.0000000630	0.0000002905
PCB_176	0.0000004171	0.0000000000	0.0000002068	-.0000001502	0.0000004822
PCB_177	0.0000029091	0.0000000812	0.0000011819	-.0000010185	0.0000036156
PCB_178	0.0000015191	0.0000000411	0.0000005915	-.0000005782	0.0000018285
PCB_179	0.0000019243	-.0000000028	0.0000009045	-.0000007998	0.0000020785
PCB_181	-.0000000003	0.0000000063	-.0000000077	0.0000000372	0.0000000610
PCB_182	-.0000000178	0.0000000028	-.0000000116	0.0000000197	0.0000000032
PCB_184	0.0000000057	0.0000000003	0.0000000018	-.0000000018	0.0000000078
PCB_186	0.0000000022	0.0000000001	0.0000000009	-.0000000008	0.0000000026
PCB_187	0.0000318439	-.0000002473	0.0000148301	-.0000133585	0.0000337843
PCB_188	0.0000000098	0.0000000004	0.0000000033	-.0000000041	0.0000000116
PCB_189	0.0000000859	0.0000000045	0.0000000389	0.0000000116	0.0000001637
PCB_190	0.0000005555	0.0000000080	0.0000002483	-.0000001006	0.0000008351
PCB_191	0.0000001468	0.0000000067	0.0000000559	-.0000000196	0.0000002299
PCB_192	0.0000000028	0.0000000001	0.0000000008	-.0000000015	0.0000000029
PCB_194	0.0000010434	0.0000000025	0.0000004343	-.0000004211	0.0000011695

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_136	0.0000000008	0.0000002965	0.0000000007	0.0000007779	-.0000000093
PCB_137	-.0000000017	0.0000000835	-.0000000011	0.0000003382	0.0000000106
PCB_141	0.0000000028	0.0000009834	0.0000000014	0.0000051002	0.0000000074
PCB_142	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_144	0.0000000008	0.0000003109	0.0000000005	0.0000013444	-.0000000009
PCB_145	0.0000000000	0.0000000005	0.0000000000	0.0000000019	0.0000000000
PCB_146	0.0000000044	0.0000013444	0.0000000019	0.0000074356	0.0000000040
PCB_148	-.0000000000	-.0000000009	0.0000000000	0.0000000040	0.0000000002
PCB_150	-.0000000000	0.0000000002	0.0000000000	-.0000000062	-.0000000001
PCB_152	-.0000000000	-.0000000005	0.0000000000	-.0000000075	-.0000000000
PCB_154	-.0000000001	0.0000000112	0.0000000000	0.0000001149	0.0000000022
PCB_155	0.0000000000	0.0000000006	0.0000000000	0.0000000038	0.0000000000
PCB_158	-.0000000003	0.0000004365	-.0000000002	0.0000023856	0.0000000152
PCB_159	-.0000000000	-.0000000009	0.0000000000	-.0000000295	-.0000000001
PCB_160	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_161	0.0000000000	0.0000000008	0.0000000000	0.0000000044	-.0000000000
PCB_162	0.0000000000	0.0000000009	0.0000000000	0.0000000234	0.0000000003
PCB_164	0.0000000019	0.0000006158	0.0000000011	0.0000030734	-.0000000011
PCB_165	-.0000000000	-.0000000098	-.0000000000	-.0000000257	0.0000000003
PCB_167	0.0000000002	0.0000001885	0.0000000001	0.0000012056	0.0000000071
PCB_169	0.0000000000	0.0000000089	0.0000000000	0.0000000445	-.0000000001
PCB_170	0.0000000043	0.0000012775	0.0000000024	0.0000064635	-.0000000004
PCB_172	0.0000000016	0.0000003704	0.0000000009	0.0000018736	-.0000000021
PCB_174	0.0000000074	0.0000017209	0.0000000041	0.0000082186	-.0000000194
PCB_175	0.0000000004	0.0000000852	0.0000000002	0.0000004344	-.0000000004
PCB_176	0.0000000007	0.0000001646	0.0000000004	0.0000007604	-.0000000015
PCB_177	0.0000000050	0.0000011127	0.0000000031	0.0000056139	-.0000000067
PCB_178	0.0000000026	0.0000005581	0.0000000015	0.0000028623	-.0000000037
PCB_179	0.0000000032	0.0000007047	0.0000000019	0.0000033731	-.0000000076
PCB_181	0.0000000000	0.0000000119	0.0000000000	0.0000000693	0.0000000004
PCB_182	-.0000000000	-.0000000022	-.0000000000	-.0000000064	0.0000000002
PCB_184	0.0000000000	0.0000000022	0.0000000000	0.0000000118	-.0000000000
PCB_186	0.0000000000	0.0000000008	0.0000000000	0.0000000039	-.0000000000
PCB_187	0.0000000525	0.0000114528	0.0000000281	0.0000562984	-.0000001391
PCB_188	0.0000000000	0.0000000034	0.0000000000	0.0000000180	-.0000000000
PCB_189	0.0000000001	0.0000000476	0.0000000001	0.0000002377	-.0000000000
PCB_190	0.0000000009	0.0000002567	0.0000000007	0.0000011224	-.0000000014
PCB_191	0.0000000002	0.0000000660	0.0000000001	0.0000003341	-.0000000002
PCB_192	0.0000000000	0.0000000008	0.0000000000	0.0000000045	-.0000000000
PCB_194	0.0000000018	0.0000003696	0.0000000009	0.0000018620	-.0000000041

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_136	0.0000000052	0.0000000017	-.0000000802	0.0000000001	-.0000003669
PCB_137	-.0000000027	-.0000000022	0.0000001251	-.0000000009	0.0000016064
PCB_141	-.0000000068	-.0000000051	0.0000001458	0.0000000027	0.0000023089
PCB_142	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_144	0.0000000002	-.0000000005	0.0000000112	0.0000000006	0.0000004365
PCB_145	0.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000002
PCB_146	-.0000000062	-.0000000075	0.0000001149	0.0000000038	0.0000023856
PCB_148	-.0000000001	-.0000000000	0.0000000022	0.0000000000	0.0000000152
PCB_150	0.0000000001	0.0000000000	-.0000000008	-.0000000000	-.0000000065
PCB_152	0.0000000000	0.0000000000	-.0000000001	-.0000000000	-.0000000043
PCB_154	-.0000000008	-.0000000001	0.0000000235	0.0000000001	0.0000001945
PCB_155	-.0000000000	-.0000000000	0.0000000001	0.0000000000	0.0000000006
PCB_158	-.0000000065	-.0000000043	0.0000001945	0.0000000006	0.0000024384
PCB_159	0.0000000001	0.0000000001	-.0000000011	-.0000000000	-.0000000155
PCB_160	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_161	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_162	-.0000000003	-.0000000001	0.0000000038	0.0000000000	0.0000000232
PCB_164	-.0000000008	-.0000000024	0.0000000230	0.0000000014	0.0000008705
PCB_165	-.0000000001	0.0000000000	0.0000000022	0.0000000000	0.0000000010
PCB_167	-.0000000038	-.0000000024	0.0000000876	0.0000000006	0.0000010291
PCB_169	0.0000000000	-.0000000000	-.0000000006	0.0000000000	-.0000000001
PCB_170	-.0000000036	-.0000000051	0.0000000701	0.0000000035	0.0000018606
PCB_172	-.0000000005	-.0000000010	-.0000000014	0.0000000012	0.0000002688
PCB_174	0.0000000029	-.0000000024	-.0000001095	0.0000000050	0.0000003609
PCB_175	-.0000000002	-.0000000002	0.0000000010	0.0000000003	0.0000000623
PCB_176	0.0000000003	-.0000000000	-.0000000073	0.0000000005	0.0000000482
PCB_177	-.0000000007	-.0000000015	-.0000000134	0.0000000038	0.0000005435
PCB_178	-.0000000006	-.0000000009	-.0000000101	0.0000000020	0.0000002218
PCB_179	0.0000000012	-.0000000004	-.0000000428	0.0000000022	0.0000000702
PCB_181	-.0000000002	-.0000000001	0.0000000047	0.0000000000	0.0000000599
PCB_182	-.0000000001	-.0000000000	0.0000000024	-.0000000000	0.0000000211
PCB_184	-.0000000000	-.0000000000	0.0000000001	0.0000000000	0.0000000017
PCB_186	-.0000000000	-.0000000000	-.0000000000	0.0000000000	0.0000000003
PCB_187	0.0000000171	-.0000000187	-.0000008581	0.0000000358	0.0000007191
PCB_188	-.0000000000	-.0000000000	-.0000000000	0.0000000000	0.0000000011
PCB_189	-.0000000001	-.0000000002	0.0000000022	0.0000000001	0.0000000745
PCB_190	-.0000000002	-.0000000006	0.0000000022	0.0000000007	0.0000002527
PCB_191	-.0000000002	-.0000000002	0.0000000019	0.0000000002	0.0000000747
PCB_192	-.0000000000	-.0000000000	-.0000000000	0.0000000000	-.0000000001
PCB_194	-.0000000001	-.0000000010	-.0000000227	0.0000000013	0.0000000742

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_136	0.0000000063	0.0000000008	0.0000000008	-.0000000206	0.0000005269
PCB_137	-.0000000085	-.0000000017	-.0000000017	0.0000000040	0.0000000623
PCB_141	-.0000000127	0.0000000028	0.0000000028	0.0000000343	0.0000020902
PCB_142	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_144	-.0000000009	0.0000000008	0.0000000008	0.0000000009	0.0000006158
PCB_145	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000011
PCB_146	-.0000000295	0.0000000044	0.0000000044	0.0000000234	0.0000030734
PCB_148	-.0000000001	-.0000000000	-.0000000000	0.0000000003	-.0000000011
PCB_150	0.0000000001	-.0000000000	-.0000000000	-.0000000003	-.0000000008
PCB_152	0.0000000001	-.0000000000	-.0000000000	-.0000000001	-.0000000024
PCB_154	-.0000000011	-.0000000001	-.0000000001	0.0000000038	0.0000000230
PCB_155	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000014
PCB_158	-.0000000155	-.0000000003	-.0000000003	0.0000000232	0.0000008705
PCB_159	0.0000000007	-.0000000000	-.0000000000	0.0000000002	-.0000000097
PCB_160	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_161	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_162	0.0000000002	0.0000000000	0.0000000000	0.0000000018	0.0000000017
PCB_164	-.0000000097	0.0000000019	0.0000000019	0.0000000017	0.0000013526
PCB_165	-.0000000002	-.0000000000	-.0000000000	0.0000000004	-.0000000169
PCB_167	-.0000000087	0.0000000002	0.0000000002	0.0000000143	0.0000004287
PCB_169	-.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000199
PCB_170	-.0000000164	0.0000000043	0.0000000043	0.0000000181	0.0000027975
PCB_172	-.0000000026	0.0000000016	0.0000000016	0.0000000048	0.0000008217
PCB_174	-.0000000046	0.0000000074	0.0000000074	0.0000000019	0.0000037558
PCB_175	-.0000000004	0.0000000004	0.0000000004	0.0000000017	0.0000001882
PCB_176	0.0000000000	0.0000000007	0.0000000007	0.0000000004	0.0000003506
PCB_177	-.0000000051	0.0000000050	0.0000000050	0.0000000148	0.0000024739
PCB_178	-.0000000023	0.0000000026	0.0000000026	0.0000000091	0.0000012512
PCB_179	0.0000000000	0.0000000032	0.0000000032	0.0000000032	0.0000015352
PCB_181	-.0000000005	0.0000000000	0.0000000000	0.0000000005	0.0000000257
PCB_182	-.0000000002	-.0000000000	-.0000000000	0.0000000002	-.0000000050
PCB_184	-.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000049
PCB_186	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000017
PCB_187	-.0000000426	0.0000000525	0.0000000525	0.0000000228	0.0000255138
PCB_188	-.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000077
PCB_189	-.0000000009	0.0000000001	0.0000000001	0.0000000000	0.0000001051
PCB_190	-.0000000007	0.0000000009	0.0000000009	0.0000000028	0.0000005308
PCB_191	-.0000000007	0.0000000002	0.0000000002	0.0000000010	0.0000001454
PCB_192	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000019
PCB_194	-.0000000015	0.0000000018	0.0000000018	0.0000000038	0.0000008328

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_136	-.0000000194	-.0000002114	0.0000000111	0.0000009588	0.0000003667
PCB_137	0.0000000039	0.0000005719	-.0000000120	0.0000000301	-.0000002462
PCB_141	-.0000000180	0.0000011071	0.0000000272	0.0000045569	0.0000012325
PCB_142	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_144	-.0000000098	0.0000001885	0.0000000089	0.0000012775	0.0000003704
PCB_145	-.0000000000	0.0000000001	0.0000000000	0.0000000024	0.0000000009
PCB_146	-.0000000257	0.0000012056	0.0000000445	0.0000064635	0.0000018736
PCB_148	0.0000000003	0.0000000071	-.0000000001	-.0000000004	-.0000000021
PCB_150	-.0000000001	-.0000000038	0.0000000000	-.0000000036	-.0000000005
PCB_152	0.0000000000	-.0000000024	-.0000000000	-.0000000051	-.0000000010
PCB_154	0.0000000022	0.0000000876	-.0000000006	0.0000000701	-.0000000014
PCB_155	0.0000000000	0.0000000006	0.0000000000	0.0000000035	0.0000000012
PCB_158	0.0000000010	0.0000010291	-.0000000001	0.0000018606	0.0000002688
PCB_159	-.0000000002	-.0000000087	-.0000000000	-.0000000164	-.0000000026
PCB_160	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_161	-.0000000000	0.0000000002	0.0000000000	0.0000000043	0.0000000016
PCB_162	0.0000000004	0.0000000143	0.0000000001	0.0000000181	0.0000000048
PCB_164	-.0000000169	0.0000004287	0.0000000199	0.0000027975	0.0000008217
PCB_165	0.0000000007	0.0000000018	-.0000000003	-.0000000324	-.0000000103
PCB_167	0.0000000018	0.0000004781	0.0000000017	0.0000009614	0.0000001758
PCB_169	-.0000000003	0.0000000017	0.0000000004	0.0000000428	0.0000000150
PCB_170	-.0000000324	0.0000009614	0.0000000428	0.0000059323	0.0000017572
PCB_172	-.0000000103	0.0000001758	0.0000000150	0.0000017572	0.0000005691
PCB_174	-.0000000583	0.0000003812	0.0000000733	0.0000079038	0.0000026767
PCB_175	-.0000000021	0.0000000425	0.0000000035	0.0000004087	0.0000001334
PCB_176	-.0000000054	0.0000000402	0.0000000068	0.0000007414	0.0000002495
PCB_177	-.0000000297	0.0000004327	0.0000000479	0.0000053210	0.0000017744
PCB_178	-.0000000147	0.0000002053	0.0000000249	0.0000027067	0.0000009140
PCB_179	-.0000000227	0.0000001327	0.0000000312	0.0000032635	0.0000011254
PCB_181	0.0000000000	0.0000000259	0.0000000001	0.0000000541	0.0000000094
PCB_182	0.0000000003	0.0000000085	-.0000000003	-.0000000101	-.0000000067
PCB_184	-.0000000000	0.0000000012	0.0000000001	0.0000000108	0.0000000036
PCB_186	-.0000000000	0.0000000002	0.0000000000	0.0000000038	0.0000000013
PCB_187	-.0000003824	0.0000020964	0.0000005133	0.0000538269	0.0000185409
PCB_188	-.0000000001	0.0000000013	0.0000000002	0.0000000169	0.0000000058
PCB_189	-.0000000013	0.0000000362	0.0000000015	0.0000002163	0.0000000619
PCB_190	-.0000000092	0.0000001489	0.0000000089	0.0000011479	0.0000003487
PCB_191	-.0000000018	0.0000000419	0.0000000024	0.0000003105	0.0000000959
PCB_192	-.0000000000	0.0000000002	0.0000000000	0.0000000044	0.0000000016
PCB_194	-.0000000122	0.0000001040	0.0000000166	0.0000017862	0.0000006076

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_136	0.0000021914	0.0000000793	0.0000002068	0.0000011819	0.0000005915
PCB_137	-.0000017023	-.0000000630	-.0000001502	-.0000010185	-.0000005782
PCB_141	0.0000050657	0.0000002905	0.0000004822	0.0000036156	0.0000018285
PCB_142	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_144	0.0000017209	0.0000000852	0.0000001646	0.0000011127	0.0000005581
PCB_145	0.0000000041	0.0000000002	0.0000000004	0.0000000031	0.0000000015
PCB_146	0.0000082186	0.0000004344	0.0000007604	0.0000056139	0.0000028623
PCB_148	-.0000000194	-.0000000004	-.0000000015	-.0000000067	-.0000000037
PCB_150	0.0000000029	-.0000000002	0.0000000003	-.0000000007	-.0000000006
PCB_152	-.0000000024	-.0000000002	-.0000000000	-.0000000015	-.0000000009
PCB_154	-.0000001095	0.0000000010	-.0000000073	-.0000000134	-.0000000101
PCB_155	0.0000000050	0.0000000003	0.0000000005	0.0000000038	0.0000000020
PCB_158	0.0000003609	0.0000000623	0.0000000482	0.0000005435	0.0000002218
PCB_159	-.0000000046	-.0000000004	0.0000000000	-.0000000051	-.0000000023
PCB_160	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_161	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_162	0.0000000019	0.0000000017	0.0000000004	0.0000000148	0.0000000091
PCB_164	0.0000037558	0.0000001882	0.0000003506	0.0000024739	0.0000012512
PCB_165	-.0000000583	-.0000000021	-.0000000054	-.0000000297	-.0000000147
PCB_167	0.0000003812	0.0000000425	0.0000000402	0.0000004327	0.0000002053
PCB_169	0.0000000733	0.0000000035	0.0000000068	0.0000000479	0.0000000249
PCB_170	0.0000079038	0.0000004087	0.0000007414	0.0000053210	0.0000027067
PCB_172	0.0000026767	0.0000001334	0.0000002495	0.0000017744	0.0000009140
PCB_174	0.0000131352	0.0000006227	0.0000012189	0.0000084252	0.0000043462
PCB_175	0.0000006227	0.0000000316	0.0000000584	0.0000004189	0.0000002163
PCB_176	0.0000012189	0.0000000584	0.0000001147	0.0000007901	0.0000004060
PCB_177	0.0000084252	0.0000004189	0.0000007901	0.0000056159	0.0000028987
PCB_178	0.0000043462	0.0000002163	0.0000004060	0.0000028987	0.0000015015
PCB_179	0.0000055212	0.0000002639	0.0000005152	0.0000035783	0.0000018497
PCB_181	0.0000000221	0.0000000022	0.0000000023	0.0000000224	0.0000000101
PCB_182	-.0000000427	-.0000000015	-.0000000037	-.0000000232	-.0000000126
PCB_184	0.0000000165	0.0000000009	0.0000000015	0.0000000113	0.0000000059
PCB_186	0.0000000061	0.0000000003	0.0000000006	0.0000000041	0.0000000021
PCB_187	0.0000912295	0.0000043199	0.0000084250	0.0000585976	0.0000303388
PCB_188	0.0000000274	0.0000000014	0.0000000026	0.0000000185	0.0000000097
PCB_189	0.0000002799	0.0000000141	0.0000000262	0.0000001848	0.0000000929
PCB_190	0.0000016224	0.0000000819	0.0000001551	0.0000010691	0.0000005425
PCB_191	0.0000004400	0.0000000224	0.0000000411	0.0000002944	0.0000001508
PCB_192	0.0000000074	0.0000000004	0.0000000007	0.0000000050	0.0000000026
PCB_194	0.0000029377	0.0000001420	0.0000002706	0.0000019094	0.0000009905

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_136	0.0000009045	-.0000000077	-.0000000116	0.0000000018	0.0000000009
PCB_137	-.0000007998	0.0000000372	0.0000000197	-.0000000018	-.0000000008
PCB_141	0.0000020785	0.0000000610	0.0000000032	0.0000000078	0.0000000026
PCB_142	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_144	0.0000007047	0.0000000119	-.0000000022	0.0000000022	0.0000000008
PCB_145	0.0000000019	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_146	0.0000033731	0.0000000693	-.0000000064	0.0000000118	0.0000000039
PCB_148	-.0000000076	0.0000000004	0.0000000002	-.0000000000	-.0000000000
PCB_150	0.0000000012	-.0000000002	-.0000000001	-.0000000000	-.0000000000
PCB_152	-.0000000004	-.0000000001	-.0000000000	-.0000000000	-.0000000000
PCB_154	-.0000000428	0.0000000047	0.0000000024	0.0000000001	-.0000000000
PCB_155	0.0000000022	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_158	0.0000000702	0.0000000599	0.0000000211	0.0000000017	0.0000000003
PCB_159	0.0000000000	-.0000000005	-.0000000002	-.0000000000	0.0000000000
PCB_160	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_161	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_162	0.0000000032	0.0000000005	0.0000000002	0.0000000001	0.0000000000
PCB_164	0.0000015352	0.0000000257	-.0000000050	0.0000000049	0.0000000017
PCB_165	-.0000000227	0.0000000000	0.0000000003	-.0000000000	-.0000000000
PCB_167	0.0000001327	0.0000000259	0.0000000085	0.0000000012	0.0000000002
PCB_169	0.0000000312	0.0000000001	-.0000000003	0.0000000001	0.0000000000
PCB_170	0.0000032635	0.0000000541	-.0000000101	0.0000000108	0.0000000038
PCB_172	0.0000011254	0.0000000094	-.0000000067	0.0000000036	0.0000000013
PCB_174	0.0000055212	0.0000000221	-.0000000427	0.0000000165	0.0000000061
PCB_175	0.0000002639	0.0000000022	-.0000000015	0.0000000009	0.0000000003
PCB_176	0.0000005152	0.0000000023	-.0000000037	0.0000000015	0.0000000006
PCB_177	0.0000035783	0.0000000224	-.0000000232	0.0000000113	0.0000000041
PCB_178	0.0000018497	0.0000000101	-.0000000126	0.0000000059	0.0000000021
PCB_179	0.0000023415	0.0000000072	-.0000000184	0.0000000070	0.0000000026
PCB_181	0.0000000072	0.0000000015	0.0000000005	0.0000000001	0.0000000000
PCB_182	-.0000000184	0.0000000005	0.0000000004	-.0000000000	-.0000000000
PCB_184	0.0000000070	0.0000000001	-.0000000000	0.0000000000	0.0000000000
PCB_186	0.0000000026	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_187	0.0000384417	0.0000001144	-.0000003119	0.0000001151	0.0000000426
PCB_188	0.0000000118	0.0000000001	-.0000000001	0.0000000000	0.0000000000
PCB_189	0.0000001135	0.0000000022	-.0000000003	0.0000000004	0.0000000001
PCB_190	0.0000006712	0.0000000073	-.0000000031	0.0000000021	0.0000000008
PCB_191	0.0000001833	0.0000000023	-.0000000008	0.0000000006	0.0000000002
PCB_192	0.0000000032	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_194	0.0000012377	0.0000000049	-.0000000096	0.0000000038	0.0000000014

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_136	0.0000148301	0.0000000033	0.0000000389	0.0000002483	0.0000000559
PCB_137	-.0000133585	-.0000000041	0.0000000116	-.0000001006	-.0000000196
PCB_141	0.0000337843	0.0000000116	0.0000001637	0.0000008351	0.0000002299
PCB_142	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_144	0.0000114528	0.0000000034	0.0000000476	0.0000002567	0.0000000660
PCB_145	0.0000000281	0.0000000000	0.0000000001	0.0000000007	0.0000000001
PCB_146	0.0000562984	0.0000000180	0.0000002377	0.0000011224	0.0000003341
PCB_148	-.0000001391	-.0000000000	-.0000000000	-.0000000014	-.0000000002
PCB_150	0.0000000171	-.0000000000	-.0000000001	-.0000000002	-.0000000002
PCB_152	-.0000000187	-.0000000000	-.0000000002	-.0000000006	-.0000000002
PCB_154	-.0000008581	-.0000000000	0.0000000022	0.0000000022	0.0000000019
PCB_155	0.0000000358	0.0000000000	0.0000000001	0.0000000007	0.0000000002
PCB_158	0.0000007191	0.0000000011	0.0000000745	0.0000002527	0.0000000747
PCB_159	-.0000000426	-.0000000000	-.0000000009	-.0000000007	-.0000000007
PCB_160	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_161	0.0000000525	0.0000000000	0.0000000001	0.0000000009	0.0000000002
PCB_162	0.0000000228	0.0000000001	0.0000000000	0.0000000028	0.0000000010
PCB_164	0.0000255138	0.0000000077	0.0000001051	0.0000005308	0.0000001454
PCB_165	-.0000003824	-.0000000001	-.0000000013	-.0000000092	-.0000000018
PCB_167	0.0000020964	0.0000000013	0.0000000362	0.0000001489	0.0000000419
PCB_169	0.0000005133	0.0000000002	0.0000000015	0.0000000089	0.0000000024
PCB_170	0.0000538269	0.0000000169	0.0000002163	0.0000011479	0.0000003105
PCB_172	0.0000185409	0.0000000058	0.0000000619	0.0000003487	0.0000000959
PCB_174	0.0000912295	0.0000000274	0.0000002799	0.0000016224	0.0000004400
PCB_175	0.0000043199	0.0000000014	0.0000000141	0.0000000819	0.0000000224
PCB_176	0.0000084250	0.0000000026	0.0000000262	0.0000001551	0.0000000411
PCB_177	0.0000585976	0.0000000185	0.0000001848	0.0000010691	0.0000002944
PCB_178	0.0000303388	0.0000000097	0.0000000929	0.0000005425	0.0000001508
PCB_179	0.0000384417	0.0000000118	0.0000001135	0.0000006712	0.0000001833
PCB_181	0.0000001144	0.0000000001	0.0000000022	0.0000000073	0.0000000023
PCB_182	-.0000003119	-.0000000001	-.0000000003	-.0000000031	-.0000000008
PCB_184	0.0000001151	0.0000000000	0.0000000004	0.0000000021	0.0000000006
PCB_186	0.0000000426	0.0000000000	0.0000000001	0.0000000008	0.0000000002
PCB_187	0.0006370398	0.0000001926	0.0000018916	0.0000109587	0.0000030217
PCB_188	0.0000001926	0.0000000001	0.0000000006	0.0000000033	0.0000000010
PCB_189	0.0000018916	0.0000000006	0.0000000083	0.0000000412	0.0000000111
PCB_190	0.0000109587	0.0000000033	0.0000000412	0.0000002750	0.0000000612
PCB_191	0.0000030217	0.0000000010	0.0000000111	0.0000000612	0.0000000166
PCB_192	0.0000000524	0.0000000000	0.0000000001	0.0000000009	0.0000000003
PCB_194	0.0000205222	0.0000000064	0.0000000621	0.0000003679	0.0000001000

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_136	0.0000000008	0.0000004343	0.0000002639	0.0000003488	0.0000001550
PCB_137	-.0000000015	-.0000004211	-.0000002540	-.0000003547	-.0000001754
PCB_141	0.0000000029	0.0000011695	0.0000006853	0.0000009797	0.0000004063
PCB_142	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_144	0.0000000008	0.0000003696	0.0000002200	0.0000003069	0.0000001298
PCB_145	0.0000000000	0.0000000009	0.0000000005	0.0000000008	0.0000000004
PCB_146	0.0000000045	0.0000018620	0.0000010932	0.0000015404	0.0000006526
PCB_148	-.0000000000	-.0000000041	-.0000000025	-.0000000030	-.0000000014
PCB_150	-.0000000000	-.0000000001	0.0000000000	-.0000000002	-.0000000000
PCB_152	-.0000000000	-.0000000010	-.0000000005	-.0000000006	-.0000000002
PCB_154	-.0000000000	-.0000000227	-.0000000143	-.0000000141	-.0000000077
PCB_155	0.0000000000	0.0000000013	0.0000000007	0.0000000011	0.0000000005
PCB_158	-.0000000001	0.0000000742	0.0000000354	0.0000000698	0.0000000031
PCB_159	-.0000000000	-.0000000015	-.0000000006	-.0000000007	-.0000000000
PCB_160	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_161	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_162	0.0000000000	0.0000000038	0.0000000021	0.0000000045	0.0000000020
PCB_164	0.0000000019	0.0000008328	0.0000004909	0.0000006842	0.0000002894
PCB_165	-.0000000000	-.0000000122	-.0000000073	-.0000000094	-.0000000039
PCB_167	0.0000000002	0.0000001040	0.0000000561	0.0000000914	0.0000000283
PCB_169	0.0000000000	0.0000000166	0.0000000099	0.0000000139	0.0000000062
PCB_170	0.0000000044	0.0000017862	0.0000010526	0.0000014806	0.0000006288
PCB_172	0.0000000016	0.0000006076	0.0000003596	0.0000005053	0.0000002198
PCB_174	0.0000000074	0.0000029377	0.0000017463	0.0000024317	0.0000010672
PCB_175	0.0000000004	0.0000001420	0.0000000841	0.0000001191	0.0000000520
PCB_176	0.0000000007	0.0000002706	0.0000001611	0.0000002257	0.0000000990
PCB_177	0.0000000050	0.0000019094	0.0000011316	0.0000015974	0.0000007002
PCB_178	0.0000000026	0.0000009905	0.0000005871	0.0000008291	0.0000003646
PCB_179	0.0000000032	0.0000012377	0.0000007361	0.0000010306	0.0000004546
PCB_181	0.0000000000	0.0000000049	0.0000000026	0.0000000041	0.0000000011
PCB_182	-.0000000000	-.0000000096	-.0000000058	-.0000000078	-.0000000037
PCB_184	0.0000000000	0.0000000038	0.0000000022	0.0000000032	0.0000000014
PCB_186	0.0000000000	0.0000000014	0.0000000008	0.0000000012	0.0000000005
PCB_187	0.0000000524	0.0000205222	0.0000121925	0.0000169833	0.0000074811
PCB_188	0.0000000000	0.0000000064	0.0000000038	0.0000000053	0.0000000024
PCB_189	0.0000000001	0.0000000621	0.0000000365	0.0000000508	0.0000000212
PCB_190	0.0000000009	0.0000003679	0.0000002182	0.0000003067	0.0000001301
PCB_191	0.0000000003	0.0000001000	0.0000000590	0.0000000830	0.0000000357
PCB_192	0.0000000000	0.0000000018	0.0000000010	0.0000000015	0.0000000007
PCB_194	0.0000000018	0.0000006734	0.0000003989	0.0000005564	0.0000002441

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_136	0.0000002218	0.0000007033	0.0000000009	0.0000000396	0.0000002610
PCB_137	-.0000002667	-.0000007488	-.0000000016	-.0000000392	-.0000003222
PCB_141	0.0000005965	0.0000018534	0.0000000031	0.0000001004	0.0000007090
PCB_142	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_144	0.0000001876	0.0000005910	0.0000000009	0.0000000325	0.0000002216
PCB_145	0.0000000005	0.0000000016	0.0000000000	0.0000000001	0.0000000006
PCB_146	0.0000009605	0.0000029685	0.0000000048	0.0000001624	0.0000011477
PCB_148	-.0000000021	-.0000000065	-.0000000000	-.0000000004	-.0000000025
PCB_150	-.0000000001	-.0000000001	-.0000000000	0.0000000000	-.0000000002
PCB_152	-.0000000003	-.0000000011	-.0000000000	-.0000000001	-.0000000004
PCB_154	-.0000000115	-.0000000354	-.0000000001	-.0000000022	-.0000000144
PCB_155	0.0000000007	0.0000000021	0.0000000000	0.0000000001	0.0000000009
PCB_158	-.0000000031	0.0000000534	-.0000000001	0.0000000035	-.0000000082
PCB_159	-.0000000000	-.0000000009	-.0000000000	-.0000000001	-.0000000002
PCB_160	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_161	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_162	0.0000000034	0.0000000079	0.0000000000	0.0000000003	0.0000000041
PCB_164	0.0000004228	0.0000013213	0.0000000021	0.0000000727	0.0000005035
PCB_165	-.0000000056	-.0000000185	-.0000000000	-.0000000011	-.0000000067
PCB_167	0.0000000404	0.0000001413	0.0000000003	0.0000000075	0.0000000477
PCB_169	0.0000000091	0.0000000274	0.0000000000	0.0000000015	0.0000000109
PCB_170	0.0000009224	0.0000028555	0.0000000046	0.0000001557	0.0000010986
PCB_172	0.0000003243	0.0000009883	0.0000000016	0.0000000536	0.0000003869
PCB_174	0.0000015717	0.0000047932	0.0000000078	0.0000002611	0.0000018744
PCB_175	0.0000000768	0.0000002328	0.0000000004	0.0000000126	0.0000000916
PCB_176	0.0000001454	0.0000004436	0.0000000007	0.0000000241	0.0000001729
PCB_177	0.0000010337	0.0000031328	0.0000000052	0.0000001692	0.0000012318
PCB_178	0.0000005393	0.0000016289	0.0000000028	0.0000000879	0.0000006433
PCB_179	0.0000006704	0.0000020336	0.0000000033	0.0000001103	0.0000007989
PCB_181	0.0000000015	0.0000000061	0.0000000000	0.0000000004	0.0000000017
PCB_182	-.0000000055	-.0000000162	-.0000000000	-.0000000009	-.0000000066
PCB_184	0.0000000021	0.0000000063	0.0000000000	0.0000000003	0.0000000025
PCB_186	0.0000000008	0.0000000023	0.0000000000	0.0000000001	0.0000000009
PCB_187	0.0000110432	0.0000335517	0.0000000553	0.0000018254	0.0000131879
PCB_188	0.0000000035	0.0000000105	0.0000000000	0.0000000006	0.0000000042
PCB_189	0.0000000310	0.0000000975	0.0000000002	0.0000000054	0.0000000369
PCB_190	0.0000001891	0.0000005895	0.0000000010	0.0000000320	0.0000002245
PCB_191	0.0000000525	0.0000001612	0.0000000003	0.0000000088	0.0000000626
PCB_192	0.0000000010	0.0000000029	0.0000000000	0.0000000002	0.0000000012
PCB_194	0.0000003614	0.0000010962	0.0000000019	0.0000000595	0.0000004322

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_136	0.0000000280	0.0000000874	0.0000001758	-.0000000251	-.0000001402
PCB_137	-.0000000364	-.0000001169	-.0000002300	0.0000000067	0.0000004001
PCB_141	0.0000000804	0.0000002448	0.0000004222	-.0000000364	0.0000001600
PCB_142	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_144	0.0000000246	0.0000000755	0.0000001371	-.0000000160	0.0000000032
PCB_145	0.0000000001	0.0000000002	0.0000000004	-.0000000000	-.0000000002
PCB_146	0.0000001290	0.0000003948	0.0000007010	-.0000000624	0.0000000415
PCB_148	-.0000000003	-.0000000008	-.0000000019	0.0000000003	0.0000000033
PCB_150	-.0000000000	-.0000000001	-.0000000000	-.0000000001	-.0000000009
PCB_152	-.0000000000	-.0000000001	-.0000000002	0.0000000000	-.0000000008
PCB_154	-.0000000014	-.0000000046	-.0000000126	0.0000000021	0.0000000361
PCB_155	0.0000000001	0.0000000003	0.0000000005	-.0000000000	-.0000000002
PCB_158	-.0000000004	-.0000000066	-.0000000431	-.0000000042	0.0000004361
PCB_159	-.0000000000	0.0000000000	0.0000000003	0.0000000001	-.0000000038
PCB_160	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_161	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_162	0.0000000005	0.0000000017	0.0000000024	0.0000000005	0.0000000005
PCB_164	0.0000000561	0.0000001718	0.0000003096	-.0000000317	-.0000000015
PCB_165	-.0000000007	-.0000000022	-.0000000044	0.0000000008	0.0000000017
PCB_167	0.0000000059	0.0000000158	0.0000000129	-.0000000011	0.0000001688
PCB_169	0.0000000012	0.0000000038	0.0000000070	-.0000000005	-.0000000039
PCB_170	0.0000001233	0.0000003781	0.0000006768	-.0000000615	-.0000000285
PCB_172	0.0000000435	0.0000001344	0.0000002450	-.0000000196	-.0000000845
PCB_174	0.0000002095	0.0000006495	0.0000012043	-.0000001038	-.0000005714
PCB_175	0.0000000103	0.0000000320	0.0000000580	-.0000000043	-.0000000213
PCB_176	0.0000000193	0.0000000600	0.0000001107	-.0000000094	-.0000000507
PCB_177	0.0000001386	0.0000004299	0.0000007842	-.0000000587	-.0000003315
PCB_178	0.0000000725	0.0000002249	0.0000004109	-.0000000298	-.0000001871
PCB_179	0.0000000895	0.0000002782	0.0000005147	-.0000000413	-.0000002652
PCB_181	0.0000000002	0.0000000005	0.0000000001	-.0000000002	0.0000000103
PCB_182	-.0000000007	-.0000000023	-.0000000047	0.0000000004	0.0000000061
PCB_184	0.0000000003	0.0000000009	0.0000000016	-.0000000001	-.0000000006
PCB_186	0.0000000001	0.0000000003	0.0000000006	-.0000000000	-.0000000003
PCB_187	0.0000014755	0.0000045787	0.0000084972	-.0000007035	-.0000043628
PCB_188	0.0000000005	0.0000000015	0.0000000027	-.0000000002	-.0000000013
PCB_189	0.0000000041	0.0000000125	0.0000000224	-.0000000024	0.0000000025
PCB_190	0.0000000251	0.0000000771	0.0000001392	-.0000000137	-.0000000238
PCB_191	0.0000000070	0.0000000216	0.0000000391	-.0000000033	-.0000000077
PCB_192	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000004
PCB_194	0.0000000485	0.0000001503	0.0000002774	-.0000000217	-.0000001330

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_136	0.0000048457	-.0000004662	0.0000001146	-.0000000520	0.0000038514
PCB_137	-.0000055687	0.0000025801	0.0000111464	0.0000000823	-.0000015629
PCB_141	-.0000184055	0.0000036010	0.0000305143	0.0000004312	0.0000100793
PCB_142	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_144	-.0000026276	0.0000007152	0.0000068348	0.0000000831	0.0000033382
PCB_145	-.0000000111	-.0000000007	0.0000000072	0.0000000006	0.0000000074
PCB_146	-.0000206449	0.0000037142	0.0000369756	0.0000004543	0.0000162759
PCB_148	-.0000001637	0.0000000206	0.0000001074	0.0000000041	-.0000000190
PCB_150	0.0000000748	-.0000000093	-.0000000608	-.0000000011	0.0000000059
PCB_152	0.0000000195	-.0000000073	-.0000000464	0.0000000006	-.0000000043
PCB_154	-.0000018004	0.0000002789	0.0000015654	0.0000000453	-.0000000420
PCB_155	-.0000000180	0.0000000006	0.0000000160	0.0000000005	0.0000000085
PCB_158	-.0000149354	0.0000038006	0.0000226789	0.0000003140	0.0000024099
PCB_159	0.0000001301	-.0000000229	-.0000001627	-.0000000007	-.0000000337
PCB_160	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_161	-.0000000094	-.0000000005	0.0000000122	0.0000000003	0.0000000117
PCB_162	-.0000003566	0.0000000318	0.0000002190	0.0000000073	-.0000000195
PCB_164	-.0000067277	0.0000013894	0.0000147915	0.0000001715	0.0000073298
PCB_165	-.0000001382	-.0000000042	-.0000000866	0.0000000028	-.0000000948
PCB_167	-.0000078141	0.0000015709	0.0000102446	0.0000001625	0.0000013057
PCB_169	-.0000000640	-.0000000004	0.0000001317	0.0000000022	0.0000001257
PCB_170	-.0000166075	0.0000029188	0.0000315614	0.0000004261	0.0000150449
PCB_172	-.0000037839	0.0000004152	0.0000074106	0.0000001085	0.0000048170
PCB_174	-.0000092870	0.0000006397	0.0000270157	0.0000003365	0.0000231459
PCB_175	-.0000010117	0.0000000923	0.0000017086	0.0000000297	0.0000011107
PCB_176	-.0000010786	0.0000000759	0.0000026134	0.0000000432	0.0000021706
PCB_177	-.0000115505	0.0000007763	0.0000205607	0.0000003694	0.0000150435
PCB_178	-.0000057984	0.0000003079	0.0000100823	0.0000001808	0.0000076634
PCB_179	-.0000043458	0.0000001090	0.0000106648	0.0000001679	0.0000096699
PCB_181	-.0000003897	0.0000000928	0.0000005906	0.0000000082	0.0000000871
PCB_182	-.0000001363	0.0000000313	0.0000001148	0.0000000030	-.0000000558
PCB_184	-.0000000311	0.0000000024	0.0000000462	0.0000000009	0.0000000295
PCB_186	-.0000000077	0.0000000004	0.0000000137	0.0000000003	0.0000000107
PCB_187	-.0000609657	0.0000014745	0.0001728827	0.0000021353	0.0001593501
PCB_188	-.0000000398	0.0000000014	0.0000000618	0.0000000012	0.0000000473
PCB_189	-.0000005477	0.0000001188	0.0000012015	0.0000000137	0.0000005560
PCB_190	-.0000026114	0.0000004032	0.0000051729	0.0000000867	0.0000028533
PCB_191	-.0000007856	0.0000001166	0.0000014970	0.0000000210	0.0000008110
PCB_192	-.0000000095	-.0000000003	0.0000000134	0.0000000003	0.0000000118
PCB_194	-.0000025929	0.0000001253	0.0000062290	0.0000000770	0.0000050518

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_136	-.0000001552	0.0000095552	-.0000004717	-.0000006426	0.0000004807
PCB_137	0.0000003938	-.0000032788	0.0000054320	0.0000021210	-.0000001284
PCB_141	0.0000003496	0.0000192888	0.0000234941	0.0000020683	0.0000019093
PCB_142	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_144	0.0000000392	0.0000069908	0.0000050172	0.0000003162	0.0000005573
PCB_145	-.0000000002	0.0000000110	0.0000000070	-.0000000006	0.0000000011
PCB_146	0.0000002791	0.0000322491	0.0000296947	0.0000017319	0.0000027994
PCB_148	0.0000000041	-.0000000937	0.0000000834	0.0000000189	-.0000000014
PCB_150	-.0000000016	0.0000000250	-.0000000569	-.0000000074	-.0000000010
PCB_152	-.0000000008	-.0000000213	-.0000000362	-.0000000054	-.0000000018
PCB_154	0.0000000473	-.0000006012	0.0000011841	0.0000002286	0.0000000172
PCB_155	-.0000000000	0.0000000130	0.0000000169	-.0000000001	0.0000000016
PCB_158	0.0000005157	0.0000034028	0.0000151951	0.0000028410	0.0000006442
PCB_159	-.0000000033	-.0000000716	-.0000001251	-.0000000204	-.0000000056
PCB_160	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_161	-.0000000003	0.0000000229	0.0000000146	-.0000000013	0.0000000020
PCB_162	0.0000000054	-.0000001441	0.0000002524	0.0000000202	0.0000000072
PCB_164	0.0000000732	0.0000152564	0.0000113903	0.0000006014	0.0000012173
PCB_165	0.0000000026	-.0000002843	-.0000000275	0.0000000037	-.0000000145
PCB_167	0.0000002122	0.0000017449	0.0000074503	0.0000011821	0.0000003473
PCB_169	-.0000000022	0.0000002529	0.0000001350	-.0000000100	0.0000000201
PCB_170	0.0000001637	0.0000304261	0.0000251430	0.0000012600	0.0000025817
PCB_172	-.0000000204	0.0000097115	0.0000065130	-.0000000281	0.0000007946
PCB_174	-.0000003163	0.0000484155	0.0000246175	-.0000012357	0.0000036583
PCB_175	-.0000000046	0.0000021652	0.0000015545	-.0000000099	0.0000001855
PCB_176	-.0000000260	0.0000044152	0.0000023478	-.0000000979	0.0000003424
PCB_177	-.0000001246	0.0000295323	0.0000189672	-.0000004828	0.0000024379
PCB_178	-.0000000763	0.0000150206	0.0000096041	-.0000003304	0.0000012468
PCB_179	-.0000001468	0.0000196958	0.0000101368	-.0000006487	0.0000015225
PCB_181	0.0000000124	0.0000001386	0.0000004040	0.0000000682	0.0000000196
PCB_182	0.0000000059	-.0000001473	0.0000000587	0.0000000307	-.0000000067
PCB_184	-.0000000001	0.0000000552	0.0000000436	-.0000000004	0.0000000049
PCB_186	-.0000000001	0.0000000208	0.0000000131	-.0000000005	0.0000000017
PCB_187	-.0000025515	0.0003323278	0.0001649259	-.0000109185	0.0000250873
PCB_188	-.0000000005	0.0000000908	0.0000000620	-.0000000027	0.0000000078
PCB_189	0.0000000074	0.0000011686	0.0000008997	0.0000000588	0.0000000929
PCB_190	-.0000000005	0.0000060133	0.0000041556	0.0000001671	0.0000005005
PCB_191	0.0000000030	0.0000016390	0.0000012446	0.0000000341	0.0000001374
PCB_192	-.0000000002	0.0000000235	0.0000000151	-.0000000011	0.0000000020
PCB_194	-.0000000711	0.0000105677	0.0000058596	-.0000002828	0.0000008227

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_136	0.0000000181	0.0000033572	0.0000012188	0.0000001306	0.0000011677
PCB_137	-.0000004288	-.0000027127	-.0000010121	-.0000001333	-.0000012273
PCB_141	-.0000018313	0.0000118826	0.0000048639	0.0000003305	0.0000028125
PCB_142	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_144	-.0000003993	0.0000035057	0.0000013922	0.0000001074	0.0000009259
PCB_145	-.0000000009	0.0000000087	0.0000000035	0.0000000003	0.0000000025
PCB_146	-.0000022703	0.0000179709	0.0000072549	0.0000005292	0.0000045919
PCB_148	-.0000000079	-.0000000194	-.0000000044	-.0000000012	-.0000000113
PCB_150	0.0000000040	-.0000000067	-.0000000037	0.0000000000	0.0000000006
PCB_152	0.0000000019	-.0000000099	-.0000000034	-.0000000001	-.0000000015
PCB_154	-.0000001037	-.0000000086	0.0000000302	-.0000000063	-.0000000682
PCB_155	-.0000000014	0.0000000119	0.0000000050	0.0000000004	0.0000000032
PCB_158	-.0000012135	0.0000023974	0.0000011064	0.0000000091	-.0000000152
PCB_159	0.0000000092	-.0000000250	-.0000000090	-.0000000000	-.0000000012
PCB_160	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_161	-.0000000011	0.0000000155	0.0000000062	0.0000000005	0.0000000046
PCB_162	-.0000000179	0.0000000606	0.0000000323	0.0000000013	0.0000000083
PCB_164	-.0000008934	0.0000078417	0.0000031070	0.0000002372	0.0000020690
PCB_165	0.0000000014	-.0000000953	-.0000000326	-.0000000034	-.0000000305
PCB_167	-.0000005944	0.0000017091	0.0000007518	0.0000000237	0.0000001717
PCB_169	-.0000000103	0.0000001465	0.0000000584	0.0000000049	0.0000000432
PCB_170	-.0000019732	0.0000169370	0.0000067705	0.0000005114	0.0000044422
PCB_172	-.0000005056	0.0000055206	0.0000022039	0.0000001771	0.0000015479
PCB_174	-.0000018876	0.0000258724	0.0000102077	0.0000008619	0.0000075744
PCB_175	-.0000001217	0.0000013010	0.0000005235	0.0000000418	0.0000003635
PCB_176	-.0000001880	0.0000024105	0.0000009569	0.0000000801	0.0000007006
PCB_177	-.0000015048	0.0000172557	0.0000069199	0.0000005628	0.0000049144
PCB_178	-.0000007516	0.0000089127	0.0000035773	0.0000002922	0.0000025531
PCB_179	-.0000007909	0.0000109036	0.0000043318	0.0000003661	0.0000032100
PCB_181	-.0000000324	0.0000000858	0.0000000378	0.0000000011	0.0000000073
PCB_182	-.0000000059	-.0000000662	-.0000000242	-.0000000029	-.0000000265
PCB_184	-.0000000034	0.0000000349	0.0000000142	0.0000000011	0.0000000097
PCB_186	-.0000000010	0.0000000125	0.0000000050	0.0000000004	0.0000000036
PCB_187	-.0000124874	0.0001796739	0.0000709272	0.0000060226	0.0000530224
PCB_188	-.0000000048	0.0000000570	0.0000000230	0.0000000019	0.0000000164
PCB_189	-.0000000714	0.0000005899	0.0000002327	0.0000000175	0.0000001527
PCB_190	-.0000003444	0.0000034289	0.0000013387	0.0000001060	0.0000009250
PCB_191	-.0000000971	0.0000009286	0.0000003709	0.0000000289	0.0000002514
PCB_192	-.0000000011	0.0000000156	0.0000000062	0.0000000005	0.0000000046
PCB_194	-.0000004415	0.0000059233	0.0000023390	0.0000001959	0.0000017248

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_136	-.0000004145	-.0000000066	-.0000010424	-.0000001283	-.0000040287
PCB_137	-.0000006732	-.0000000692	-.0000008845	-.0000008385	-.0000000960
PCB_141	-.0000029155	-.0000002054	-.0000049447	-.0000032993	-.0000154548
PCB_142	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_144	-.0000007671	-.0000000493	-.0000014165	-.0000007754	-.0000045255
PCB_145	-.0000000001	-.0000000000	-.0000000018	-.0000000010	-.0000000055
PCB_146	-.0000034768	-.0000002563	-.0000065766	-.0000042032	-.0000225862
PCB_148	0.0000000017	-.0000000005	0.0000000010	-.0000000080	0.0000000287
PCB_150	0.0000000039	0.0000000004	0.0000000027	0.0000000062	0.0000000085
PCB_152	0.0000000050	0.0000000004	0.0000000071	0.0000000063	0.0000000263
PCB_154	-.0000000530	-.0000000093	-.0000000848	-.0000001344	0.0000000111
PCB_155	-.0000000013	-.0000000001	-.0000000025	-.0000000020	-.0000000103
PCB_158	-.0000016472	-.0000001472	-.0000026802	-.0000021728	-.0000058183
PCB_159	0.0000000012	0.0000000011	0.0000000197	0.0000000215	0.0000000651
PCB_160	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_161	-.0000000018	-.0000000001	-.0000000033	-.0000000019	-.0000000147
PCB_162	-.0000000217	-.0000000016	-.0000000057	-.0000000217	-.0000000196
PCB_164	-.0000014935	-.0000001027	-.0000029571	-.0000017291	-.0000099843
PCB_165	0.0000000263	0.0000000008	0.0000000454	0.0000000140	0.0000001531
PCB_167	-.0000007195	-.0000000659	-.0000012170	-.0000010494	-.0000029476
PCB_169	-.0000000185	-.0000000010	-.0000000364	-.0000000186	-.0000001494
PCB_170	-.0000032196	-.0000002184	-.0000061126	-.0000036929	-.0000207167
PCB_172	-.0000008529	-.0000000527	-.0000016427	-.0000009215	-.0000061372
PCB_174	-.0000036653	-.0000002044	-.0000072707	-.0000036142	-.0000283916
PCB_175	-.0000001943	-.0000000123	-.0000003709	-.0000002137	-.0000013890
PCB_176	-.0000003358	-.0000000193	-.0000006824	-.0000003414	-.0000025804
PCB_177	-.0000023628	-.0000001454	-.0000047331	-.0000026058	-.0000181321
PCB_178	-.0000011962	-.0000000724	-.0000023550	-.0000012986	-.0000092425
PCB_179	-.0000014432	-.0000000795	-.0000028818	-.0000014233	-.0000114519
PCB_181	-.0000000411	-.0000000037	-.0000000721	-.0000000575	-.0000001727
PCB_182	0.0000000013	-.0000000006	0.0000000020	-.0000000079	0.0000000535
PCB_184	-.0000000050	-.0000000003	-.0000000093	-.0000000056	-.0000000361
PCB_186	-.0000000017	-.0000000001	-.0000000032	-.0000000017	-.0000000127
PCB_187	-.0000239848	-.0000013227	-.0000479924	-.0000237941	-.0001936261
PCB_188	-.0000000075	-.0000000004	-.0000000140	-.0000000079	-.0000000572
PCB_189	-.0000001168	-.0000000081	-.0000002352	-.0000001394	-.0000007749
PCB_190	-.0000006189	-.0000000384	-.0000012260	-.0000006983	-.0000040017
PCB_191	-.0000001616	-.0000000105	-.0000003065	-.0000001801	-.0000010847
PCB_192	-.0000000019	-.0000000001	-.0000000035	-.0000000020	-.0000000152
PCB_194	-.0000008448	-.0000000455	-.0000016093	-.0000008395	-.0000064394

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_136	0.0000001882	-.0000039336	-.0000003113	-.0000003182	-.0000012988
PCB_137	-.0000005881	-.0000028897	-.0000007041	-.0000003724	-.0000001098
PCB_141	-.0000026458	-.0000277126	-.0000036717	-.0000018578	-.0000062286
PCB_142	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_144	-.0000005206	-.0000072168	-.0000009185	-.0000005055	-.0000017773
PCB_145	-.0000000019	-.0000000131	-.0000000013	-.0000000005	-.0000000028
PCB_146	-.0000031257	-.0000371833	-.0000048475	-.0000023584	-.0000088578
PCB_148	-.0000000158	-.0000000285	-.0000000067	0.0000000000	-.0000000025
PCB_150	0.0000000068	0.0000000340	0.0000000057	0.0000000018	0.0000000044
PCB_152	0.0000000013	0.0000000338	0.0000000067	0.0000000027	0.0000000039
PCB_154	-.0000001872	-.0000007326	-.0000001272	-.0000000375	-.0000001376
PCB_155	-.0000000024	-.0000000199	-.0000000023	-.0000000010	-.0000000047
PCB_158	-.0000017977	-.0000139353	-.0000022201	-.0000010317	-.0000025822
PCB_159	0.0000000111	0.0000001077	0.0000000243	0.0000000047	0.0000000118
PCB_160	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_161	-.0000000016	-.0000000220	-.0000000024	-.0000000012	-.0000000057
PCB_162	-.0000000337	-.0000001510	-.0000000197	-.0000000074	-.0000000391
PCB_164	-.0000011868	-.0000157790	-.0000020412	-.0000010360	-.0000037135
PCB_165	-.0000000052	0.0000001601	0.0000000190	0.0000000158	0.0000000352
PCB_167	-.0000009089	-.0000069069	-.0000010947	-.0000004644	-.0000012412
PCB_169	-.0000000140	-.0000002181	-.0000000242	-.0000000127	-.0000000602
PCB_170	-.0000027282	-.0000337308	-.0000043316	-.0000021830	-.0000079352
PCB_172	-.0000006984	-.0000094825	-.0000011255	-.0000005836	-.0000024044
PCB_174	-.0000024182	-.0000407695	-.0000046286	-.0000025302	-.0000108704
PCB_175	-.0000001737	-.0000022069	-.0000002616	-.0000001325	-.0000005698
PCB_176	-.0000002542	-.0000038526	-.0000004373	-.0000002366	-.0000010323
PCB_177	-.0000021492	-.0000282485	-.0000032452	-.0000016664	-.0000073898
PCB_178	-.0000010719	-.0000142774	-.0000016241	-.0000008338	-.0000037800
PCB_179	-.0000010648	-.0000167417	-.0000018378	-.0000010067	-.0000045649
PCB_181	-.0000000481	-.0000003864	-.0000000595	-.0000000271	-.0000000727
PCB_182	-.0000000113	0.0000000116	-.0000000053	0.0000000004	0.0000000143
PCB_184	-.0000000050	-.0000000588	-.0000000068	-.0000000034	-.0000000155
PCB_186	-.0000000015	-.0000000198	-.0000000022	-.0000000012	-.0000000054
PCB_187	-.0000159756	-.0002747163	-.0000307656	-.0000166583	-.0000741076
PCB_188	-.0000000070	-.0000000893	-.0000000098	-.0000000051	-.0000000239
PCB_189	-.0000000952	-.0000012372	-.0000001632	-.0000000820	-.0000002792
PCB_190	-.0000004682	-.0000063688	-.0000008598	-.0000004241	-.0000014283
PCB_191	-.0000001345	-.0000017270	-.0000002147	-.0000001095	-.0000004183
PCB_192	-.0000000017	-.0000000227	-.0000000025	-.0000000013	-.0000000058
PCB_194	-.0000005846	-.0000093192	-.0000010567	-.0000005713	-.0000023935

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PCA Run Using the Covariance Matrix
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The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_136	-.0000012364	-.0000021912	0.0000003151	-.0000065669	-.0000001587
PCB_137	0.0000022035	0.0000012503	-.0000004853	0.0000087326	0.0000000116
PCB_141	0.0000006906	-.0000087968	-.0000022326	-.0000057184	-.0000005663
PCB_142	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_144	-.0000001662	-.0000024931	-.0000003742	-.0000030388	-.0000001655
PCB_145	-.0000000005	-.0000000050	-.0000000012	-.0000000088	0.0000000001
PCB_146	-.0000006104	-.0000134606	-.0000026027	-.0000143558	-.0000009061
PCB_148	0.0000000273	0.0000000096	-.0000000132	0.0000000911	0.0000000024
PCB_150	-.0000000081	0.0000000068	0.0000000076	-.0000000274	0.0000000005
PCB_152	-.0000000013	0.0000000091	0.0000000022	-.0000000059	0.0000000016
PCB_154	0.0000002826	-.0000000301	-.0000001563	0.0000008292	0.0000000127
PCB_155	-.0000000007	-.0000000082	-.0000000021	-.0000000103	-.0000000003
PCB_158	0.0000024784	-.0000023331	-.0000014891	0.0000061827	-.0000001686
PCB_159	-.0000000102	0.0000000284	0.0000000089	-.0000000207	0.0000000029
PCB_160	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_161	-.0000000028	-.0000000105	-.0000000015	-.0000000187	-.0000000006
PCB_162	0.0000000290	-.0000000395	-.0000000368	0.0000000690	-.0000000009
PCB_164	-.0000004698	-.0000057096	-.0000009117	-.0000069336	-.0000003795
PCB_165	0.0000000258	0.0000000606	-.0000000074	0.0000001340	0.0000000063
PCB_167	0.0000010089	-.0000014120	-.0000007730	0.0000021686	-.0000000825
PCB_169	-.0000000263	-.0000001005	-.0000000111	-.0000001857	-.0000000060
PCB_170	-.0000008422	-.0000121621	-.0000021720	-.0000142347	-.0000007727
PCB_172	-.0000006677	-.0000038910	-.0000005633	-.0000059335	-.0000002397
PCB_174	-.0000044355	-.0000180024	-.0000018423	-.0000321250	-.0000011463
PCB_175	-.0000001493	-.0000009065	-.0000001405	-.0000013808	-.0000000529
PCB_176	-.0000003748	-.0000016584	-.0000001854	-.0000029194	-.0000000974
PCB_177	-.0000023171	-.0000120314	-.0000017043	-.0000195824	-.0000006888
PCB_178	-.0000012730	-.0000062089	-.0000008686	-.0000103055	-.0000003597
PCB_179	-.0000018908	-.0000075535	-.0000008199	-.0000137374	-.0000004547
PCB_181	0.0000000562	-.0000000793	-.0000000399	0.0000001169	-.0000000054
PCB_182	0.0000000406	0.0000000419	-.0000000088	0.0000001706	0.0000000035
PCB_184	-.0000000039	-.0000000247	-.0000000042	-.0000000370	-.0000000014
PCB_186	-.0000000018	-.0000000086	-.0000000012	-.0000000146	-.0000000005
PCB_187	-.0000329250	-.0001251810	-.0000124777	-.0002293258	-.0000079832
PCB_188	-.0000000083	-.0000000398	-.0000000060	-.0000000659	-.0000000023
PCB_189	-.0000000233	-.0000004313	-.0000000725	-.0000004791	-.0000000286
PCB_190	-.0000002441	-.0000022015	-.0000003190	-.0000029913	-.0000001228
PCB_191	-.0000000769	-.0000006590	-.0000001081	-.0000008771	-.0000000412
PCB_192	-.0000000026	-.0000000105	-.0000000015	-.0000000183	-.0000000006
PCB_194	-.0000009862	-.0000041232	-.0000004851	-.0000070900	-.0000002635

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_195	PCB 195	-.0000000239	0.0000000009	-.0000000015
PCB_196	PCB 196	-.0000000351	0.0000000013	-.0000000020
PCB_201	PCB 201	-.0000000158	0.0000000006	-.0000000010
PCB_202	PCB 202	-.0000000232	0.0000000008	-.0000000014
PCB_203	PCB 203	-.0000000690	0.0000000025	-.0000000042
PCB_204	PCB 204	-.0000000001	0.0000000000	-.0000000000
PCB_205	PCB 205	-.0000000037	0.0000000001	-.0000000002
PCB_206	PCB 206	-.0000000271	0.0000000010	-.0000000016
PCB_207	PCB 207	-.0000000031	0.0000000001	-.0000000002
PCB_208	PCB 208	-.0000000097	0.0000000004	-.0000000006
PCB_209	PCB 209	-.0000000175	0.0000000007	-.0000000011
PCB_12_13	PCB 12/13	0.0000000012	-.0000000000	0.0000000001
PCB_107_124	PCB 107/124	0.0000000071	-.0000000004	0.0000000011
PCB_110_115	PCB 110/115	0.0000004168	-.0000000109	-.0000000169
PCB_128_166	PCB 128/166	-.0000000443	-.0000000002	0.0000000016
PCB_129_138_163	PCB 129/138/163	-.0000005665	0.0000000128	-.0000000015
PCB_134_143	PCB 134/143	-.0000000160	0.0000000003	-.0000000002
PCB_135_151	PCB 135/151	-.0000003734	0.0000000101	-.0000000248
PCB_139_140	PCB 139/140	-.0000000023	-.0000000002	0.0000000006
PCB_147_149	PCB 147/149	-.0000005829	0.0000000191	-.0000000447
PCB_153_168	PCB 153/168	-.0000005209	0.0000000147	-.0000000042
PCB_156_157	PCB 156/157	0.0000000031	-.0000000009	0.0000000047
PCB_171_173	PCB 171/173	-.0000000582	0.0000000018	-.0000000030
PCB_18_30	PCB 18/30	0.0000000430	-.0000000011	0.0000000003
PCB_180_193	PCB 180/193	-.0000003838	0.0000000135	-.0000000193
PCB_183_185	PCB 183/185	-.0000001657	0.0000000054	-.0000000083
PCB_197_200	PCB 197/200	-.0000000128	0.0000000004	-.0000000008
PCB_198_199	PCB 198/199	-.0000001066	0.0000000039	-.0000000068
PCB_20_28	PCB 20/28	0.0000000561	-.0000000015	0.0000000024
PCB_21_33	PCB 21/33	0.0000000042	-.0000000001	0.0000000001
PCB_26_29	PCB 26/29	0.0000000976	-.0000000028	0.0000000033
PCB_40_41_71	PCB 40/41/71	0.0000000530	-.0000000018	-.0000000008
PCB_44_47_65	PCB 44/47/65	0.0000003451	-.0000000129	0.0000000156
PCB_45_51	PCB 45/51	0.0000000683	-.0000000017	-.0000000000
PCB_49_69	PCB 49/69	0.0000006589	-.0000000200	0.0000000193
PCB_50_53	PCB 50/53	0.0000000645	-.0000000022	-.0000000002
PCB_59_62_75	PCB 59/62/75	0.0000000371	-.0000000010	0.0000000013
PCB_61_70_74_76	PCB 61/70/74/76	0.0000002245	-.0000000050	0.0000000134
PCB_85_117_116	PCB 85/117/116	0.0000000299	-.0000000021	0.0000000069
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.0000002808	-.0000000094	0.0000000146

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_195	-.0000004040	-.0000000002	-.0000000417	-.0000000081	-.0000001248
PCB_196	-.0000005988	-.0000000004	-.0000000570	-.0000000116	-.0000001738
PCB_201	-.0000002563	-.0000000002	-.0000000245	-.0000000050	-.0000000781
PCB_202	-.0000003778	-.0000000003	-.0000000355	-.0000000074	-.0000001149
PCB_203	-.0000011399	-.0000000007	-.0000001114	-.0000000225	-.0000003467
PCB_204	-.0000000020	-.0000000000	-.0000000002	-.0000000000	-.0000000005
PCB_205	-.0000000601	-.0000000000	-.0000000062	-.0000000012	-.0000000188
PCB_206	-.0000004462	-.0000000003	-.0000000422	-.0000000088	-.0000001361
PCB_207	-.0000000512	-.0000000000	-.0000000047	-.0000000010	-.0000000152
PCB_208	-.0000001583	-.0000000001	-.0000000143	-.0000000031	-.0000000477
PCB_209	-.0000002693	-.0000000002	-.0000000269	-.0000000055	-.0000000902
PCB_12_13	0.0000000125	-.0000000000	0.0000000033	0.0000000004	0.0000000079
PCB_107_124	-.0000000066	-.0000000002	0.0000000062	0.0000000014	0.0000000547
PCB_110_115	0.0000126631	0.0000000345	0.0000001343	0.0000001335	0.0000000493
PCB_128_166	-.0000013340	-.0000000029	-.0000000816	-.0000000160	-.0000000378
PCB_129_138_163	-.0000146249	-.0000000275	-.0000009340	-.0000002115	-.0000016633
PCB_134_143	-.0000003753	-.0000000010	-.0000000050	-.0000000043	-.0000000160
PCB_135_151	-.0000059174	-.0000000060	-.0000005865	-.0000001131	-.0000016523
PCB_139_140	-.0000001333	-.0000000006	0.0000000011	-.0000000007	0.0000000254
PCB_147_149	-.0000091653	0.0000000008	-.0000013317	-.0000002047	-.0000034114
PCB_153_168	-.0000124061	-.0000000231	-.0000006941	-.0000001787	-.0000015050
PCB_156_157	-.0000006886	-.0000000019	-.0000000164	-.0000000033	0.0000001522
PCB_171_173	-.0000010512	-.0000000010	-.0000000958	-.0000000190	-.0000002561
PCB_18_30	0.0000010625	0.0000000022	0.0000000512	0.0000000146	0.0000001066
PCB_180_193	-.0000070299	-.0000000061	-.0000006240	-.0000001283	-.0000017832
PCB_183_185	-.0000029635	-.0000000032	-.0000002421	-.0000000530	-.0000007204
PCB_197_200	-.0000002055	-.0000000001	-.0000000202	-.0000000041	-.0000000632
PCB_198_199	-.0000017378	-.0000000010	-.0000001763	-.0000000348	-.0000005459
PCB_20_28	0.0000010933	0.0000000004	0.0000001335	0.0000000217	0.0000003157
PCB_21_33	0.0000000894	0.0000000001	0.0000000074	0.0000000014	0.0000000136
PCB_26_29	0.0000022134	0.0000000013	0.0000002359	0.0000000387	0.0000004717
PCB_40_41_71	0.0000015719	0.0000000019	0.0000001148	0.0000000224	0.0000001752
PCB_44_47_65	0.0000070197	0.0000000025	0.0000008135	0.0000001351	0.0000019020
PCB_45_51	0.0000017495	0.0000000043	0.0000000550	0.0000000225	0.0000001293
PCB_49_69	0.0000144991	0.0000000185	0.0000011467	0.0000002375	0.0000026593
PCB_50_53	0.0000017918	0.0000000017	0.0000001411	0.0000000261	0.0000002262
PCB_59_62_75	0.0000008084	0.0000000006	0.0000000842	0.0000000145	0.0000001835
PCB_61_70_74_76	0.0000034530	0.0000000046	0.0000002947	0.0000000624	0.0000008686
PCB_85_117_116	-.0000002874	-.0000000031	0.0000000825	0.0000000076	0.0000003634
PCB_86_87_97_108_119_125	0.0000049825	0.0000000058	0.0000004378	0.0000000923	0.0000012810

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_195	-.0000000101	-.0000000338	0.0000000144	0.0000000010	-.0000000308
PCB_196	-.0000000143	-.0000000507	0.0000000212	0.0000000015	-.0000000417
PCB_201	-.0000000062	-.0000000220	0.0000000093	0.0000000007	-.0000000190
PCB_202	-.0000000091	-.0000000327	0.0000000140	0.0000000010	-.0000000272
PCB_203	-.0000000278	-.0000000970	0.0000000410	0.0000000029	-.0000000844
PCB_204	-.0000000000	-.0000000002	0.0000000001	0.0000000000	-.0000000001
PCB_205	-.0000000015	-.0000000051	0.0000000021	0.0000000002	-.0000000047
PCB_206	-.0000000108	-.0000000386	0.0000000168	0.0000000012	-.0000000321
PCB_207	-.0000000012	-.0000000045	0.0000000019	0.0000000001	-.0000000035
PCB_208	-.0000000038	-.0000000139	0.0000000060	0.0000000004	-.0000000110
PCB_209	-.0000000068	-.0000000236	0.0000000105	0.0000000008	-.0000000219
PCB_12_13	0.0000000006	0.0000000007	-.0000000003	-.0000000000	0.0000000029
PCB_107_124	0.0000000015	0.0000000018	-.0000000041	-.0000000005	0.0000000180
PCB_110_115	0.0000001398	0.0000011176	-.0000003617	-.0000000094	-.0000004407
PCB_128_166	-.0000000222	-.0000001075	0.0000000149	-.0000000005	0.0000000354
PCB_129_138_163	-.0000002660	-.0000012130	0.0000003231	0.0000000122	-.0000000467
PCB_134_143	-.0000000044	-.0000000331	0.0000000091	0.0000000003	0.0000000048
PCB_135_151	-.0000001437	-.0000004842	0.0000001594	0.0000000117	-.0000004526
PCB_139_140	-.0000000009	-.0000000116	0.0000000004	-.0000000003	0.0000000149
PCB_147_149	-.0000002760	-.0000006849	0.0000002446	0.0000000229	-.0000010277
PCB_153_168	-.0000002174	-.0000010652	0.0000003457	0.0000000146	-.0000000548
PCB_156_157	-.0000000056	-.0000000477	0.0000000005	-.0000000013	0.0000000730
PCB_171_173	-.0000000239	-.0000000869	0.0000000310	0.0000000020	-.0000000594
PCB_18_30	0.0000000173	0.0000000901	-.0000000273	-.0000000011	0.0000000017
PCB_180_193	-.0000001590	-.0000005885	0.0000002352	0.0000000155	-.0000004054
PCB_183_185	-.0000000648	-.0000002535	0.0000000981	0.0000000062	-.0000001562
PCB_197_200	-.0000000050	-.0000000175	0.0000000072	0.0000000005	-.0000000157
PCB_198_199	-.0000000432	-.0000001467	0.0000000624	0.0000000046	-.0000001375
PCB_20_28	0.0000000291	0.0000000914	-.0000000294	-.0000000018	0.0000000561
PCB_21_33	0.0000000018	0.0000000072	-.0000000021	-.0000000001	0.0000000021
PCB_26_29	0.0000000520	0.0000001664	-.0000000510	-.0000000033	0.0000001087
PCB_40_41_71	0.0000000291	0.0000001217	-.0000000408	-.0000000019	0.0000000159
PCB_44_47_65	0.0000001792	0.0000005470	-.0000002064	-.0000000147	0.0000004487
PCB_45_51	0.0000000251	0.0000001531	-.0000000458	-.0000000016	-.0000000181
PCB_49_69	0.0000002985	0.0000011891	-.0000003950	-.0000000220	0.0000004603
PCB_50_53	0.0000000344	0.0000001355	-.0000000476	-.0000000024	0.0000000370
PCB_59_62_75	0.0000000191	0.0000000643	-.0000000197	-.0000000012	0.0000000354
PCB_61_70_74_76	0.0000000781	0.0000003007	-.0000000951	-.0000000057	0.0000002007
PCB_85_117_116	0.0000000111	-.0000000244	-.0000000128	-.0000000028	0.0000001444
PCB_86_87_97_108_119_125	0.0000001143	0.0000004277	-.0000001599	-.0000000105	0.0000002739

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_195	-.0000000309	-.0000005181	-.0000002283	-.0000000611	0.0000000004
PCB_196	-.0000000436	-.0000007626	-.0000003383	-.0000000841	0.0000000005
PCB_201	-.0000000171	-.0000003217	-.0000001418	-.0000000335	0.0000000003
PCB_202	-.0000000246	-.0000004761	-.0000002087	-.0000000487	0.0000000004
PCB_203	-.0000000804	-.0000014443	-.0000006366	-.0000001573	0.0000000011
PCB_204	-.0000000001	-.0000000025	-.0000000011	-.0000000002	0.0000000000
PCB_205	-.0000000045	-.0000000765	-.0000000337	-.0000000088	0.0000000001
PCB_206	-.0000000294	-.0000005641	-.0000002477	-.0000000579	0.0000000005
PCB_207	-.0000000033	-.0000000647	-.0000000284	-.0000000065	0.0000000001
PCB_208	-.0000000097	-.0000001991	-.0000000871	-.0000000193	0.0000000002
PCB_209	-.0000000161	-.0000003357	-.0000001451	-.0000000340	0.0000000003
PCB_12_13	0.0000000021	0.0000000159	0.0000000073	0.0000000048	-.0000000000
PCB_107_124	-.0000000183	-.0000000737	-.0000000415	-.0000000315	-.0000000005
PCB_110_115	0.0000010324	0.0000174309	0.0000083738	0.0000013616	0.0000000044
PCB_128_166	-.0000002173	-.0000022472	-.0000010002	-.0000004921	-.0000000029
PCB_129_138_163	-.0000017117	-.0000220353	-.0000097565	-.0000034704	-.0000000107
PCB_134_143	-.0000000217	-.0000004704	-.0000002234	-.0000000218	-.0000000000
PCB_135_151	-.0000005294	-.0000076552	-.0000034261	-.0000008954	0.0000000034
PCB_139_140	-.0000000224	-.0000002423	-.0000001090	-.0000000478	-.0000000004
PCB_147_149	-.0000010728	-.0000123753	-.0000054095	-.0000020720	0.0000000057
PCB_153_168	-.0000012563	-.0000179337	-.0000081155	-.0000024151	-.0000000041
PCB_156_157	-.0000001504	-.0000012693	-.0000006152	-.0000002965	-.0000000026
PCB_171_173	-.0000000974	-.0000014079	-.0000006317	-.0000001864	0.0000000004
PCB_18_30	0.0000001004	0.0000014901	0.0000006826	0.0000001734	0.0000000003
PCB_180_193	-.0000005716	-.0000091620	-.0000041265	-.0000010614	0.0000000046
PCB_183_185	-.0000002265	-.0000038532	-.0000017270	-.0000004229	0.0000000019
PCB_197_200	-.0000000142	-.0000002584	-.0000001137	-.0000000279	0.0000000002
PCB_198_199	-.0000001233	-.0000021853	-.0000009648	-.0000002359	0.0000000018
PCB_20_28	0.0000001340	0.0000017087	0.0000006858	0.0000004013	0.0000000007
PCB_21_33	0.0000000118	0.0000001325	0.0000000613	0.0000000247	0.0000000001
PCB_26_29	0.0000002856	0.0000031990	0.0000014428	0.0000005854	0.0000000009
PCB_40_41_71	0.0000002010	0.0000022999	0.0000010894	0.0000003644	0.0000000009
PCB_44_47_65	0.0000008434	0.0000100765	0.0000044604	0.0000017547	-.0000000008
PCB_45_51	0.0000001372	0.0000024029	0.0000010929	0.0000002174	0.0000000003
PCB_49_69	0.0000014833	0.0000203741	0.0000091353	0.0000028845	0.0000000011
PCB_50_53	0.0000002292	0.0000025453	0.0000012350	0.0000003936	0.0000000008
PCB_59_62_75	0.0000000974	0.0000011987	0.0000005149	0.0000002291	0.0000000003
PCB_61_70_74_76	0.0000002932	0.0000045982	0.0000020217	0.0000006210	-.0000000009
PCB_85_117_116	-.0000000626	-.0000006544	-.0000003224	-.0000001115	-.0000000027
PCB_86_87_97_108_119_125	0.0000004212	0.0000067510	0.0000029432	0.0000008174	-.0000000028

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_195	-.0000000041	-.0000003819	-.0000005281	-.0000003335	-.0000004161
PCB_196	-.0000000078	-.0000005316	-.0000007212	-.0000004576	-.0000005945
PCB_201	-.0000000035	-.0000002203	-.0000002994	-.0000001885	-.0000002477
PCB_202	-.0000000045	-.0000003213	-.0000004354	-.0000002747	-.0000003619
PCB_203	-.0000000136	-.0000010139	-.0000013849	-.0000008732	-.0000011261
PCB_204	-.0000000000	-.0000000016	-.0000000022	-.0000000013	-.0000000019
PCB_205	-.0000000006	-.0000000557	-.0000000771	-.0000000484	-.0000000608
PCB_206	-.0000000050	-.0000003821	-.0000005214	-.0000003268	-.0000004287
PCB_207	-.0000000006	-.0000000427	-.0000000578	-.0000000364	-.0000000486
PCB_208	-.0000000019	-.0000001298	-.0000001748	-.0000001102	-.0000001481
PCB_209	-.0000000029	-.0000002315	-.0000003199	-.0000001998	-.0000002579
PCB_12_13	0.0000000002	0.0000000256	0.0000000412	0.0000000255	0.0000000229
PCB_107_124	0.0000000005	-.0000000567	-.0000000309	-.0000000654	-.0000000651
PCB_110_115	0.0000002987	0.0000063389	0.0000050617	0.0000044317	0.0000098089
PCB_128_166	-.0000000215	-.0000016441	-.0000017838	-.0000017084	-.0000018921
PCB_129_138_163	-.0000001249	-.0000144226	-.0000162195	-.0000135015	-.0000166649
PCB_134_143	-.0000000135	-.0000001476	-.0000000793	-.0000000811	-.0000002582
PCB_135_151	-.0000000476	-.0000054995	-.0000071852	-.0000046623	-.0000058748
PCB_139_140	-.0000000023	-.0000001243	-.0000000829	-.0000001315	-.0000001658
PCB_147_149	0.0000000393	-.0000118596	-.0000169942	-.0000108006	-.0000114150
PCB_153_168	-.0000001499	-.0000105881	-.0000120412	-.0000095500	-.0000127627
PCB_156_157	-.0000000175	-.0000008885	-.0000009106	-.0000009108	-.0000010687
PCB_171_173	-.0000000131	-.0000010011	-.0000013012	-.0000008891	-.0000011116
PCB_18_30	0.0000000173	0.0000008138	0.0000008731	0.0000006907	0.0000010180
PCB_180_193	-.0000000936	-.0000062599	-.0000083196	-.0000053986	-.0000070654
PCB_183_185	-.0000000435	-.0000024778	-.0000031858	-.0000021228	-.0000028678
PCB_197_200	-.0000000027	-.0000001813	-.0000002462	-.0000001559	-.0000002019
PCB_198_199	-.0000000198	-.0000015669	-.0000021654	-.0000013417	-.0000017199
PCB_20_28	0.0000000137	0.0000015782	0.0000020339	0.0000016808	0.0000016970
PCB_21_33	0.0000000017	0.0000001001	0.0000001264	0.0000000977	0.0000001128
PCB_26_29	0.0000000268	0.0000027135	0.0000035851	0.0000025661	0.0000028901
PCB_40_41_71	0.0000000223	0.0000016249	0.0000020710	0.0000014770	0.0000018455
PCB_44_47_65	0.0000000114	0.0000086159	0.0000118518	0.0000081003	0.0000088961
PCB_45_51	0.0000000323	0.0000010778	0.0000009704	0.0000008404	0.0000014792
PCB_49_69	0.0000001677	0.0000139898	0.0000173067	0.0000126204	0.0000158694
PCB_50_53	0.0000000316	0.0000018507	0.0000024513	0.0000016505	0.0000020855
PCB_59_62_75	0.0000000088	0.0000009992	0.0000012764	0.0000009823	0.0000010805
PCB_61_70_74_76	0.0000000613	0.0000030959	0.0000037900	0.0000028384	0.0000035508
PCB_85_117_116	-.0000000252	-.0000000036	0.0000005327	-.0000000261	-.0000002941
PCB_86_87_97_108_119_125	0.0000000176	0.0000045334	0.0000057912	0.0000039807	0.0000049945

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_195	-.0000000076	0.0000000008	0.0000000010	-.0000000089	-.0000000026
PCB_196	-.0000000102	0.0000000010	0.0000000015	-.0000000115	-.0000000038
PCB_201	-.0000000043	0.0000000004	0.0000000007	-.0000000051	-.0000000015
PCB_202	-.0000000061	0.0000000006	0.0000000010	-.0000000067	-.0000000022
PCB_203	-.0000000198	0.0000000020	0.0000000029	-.0000000231	-.0000000069
PCB_204	-.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000000
PCB_205	-.0000000011	0.0000000001	0.0000000002	-.0000000014	-.0000000004
PCB_206	-.0000000073	0.0000000008	0.0000000012	-.0000000076	-.0000000025
PCB_207	-.0000000008	0.0000000001	0.0000000001	-.0000000008	-.0000000003
PCB_208	-.0000000024	0.0000000003	0.0000000004	-.0000000024	-.0000000009
PCB_209	-.0000000046	0.0000000005	0.0000000008	-.0000000054	-.0000000014
PCB_12_13	0.0000000007	-.0000000001	-.0000000000	0.0000000019	0.0000000001
PCB_107_124	-.0000000001	-.0000000001	-.0000000005	-.0000000006	-.0000000018
PCB_110_115	0.0000000248	-.0000000002	-.0000000094	-.0000002346	0.0000001081
PCB_128_166	-.0000000230	0.0000000021	-.0000000005	-.0000000720	-.0000000233
PCB_129_138_163	-.0000002115	0.0000000183	0.0000000122	-.0000003079	-.0000001786
PCB_134_143	-.0000000002	-.0000000004	0.0000000003	0.0000000050	-.0000000027
PCB_135_151	-.0000001135	0.0000000088	0.0000000117	-.0000001957	-.0000000441
PCB_139_140	-.0000000006	0.0000000000	-.0000000003	-.0000000040	-.0000000027
PCB_147_149	-.0000002729	0.0000000240	0.0000000229	-.0000004790	-.0000000812
PCB_153_168	-.0000001475	0.0000000163	0.0000000146	-.0000001579	-.0000001261
PCB_156_157	-.0000000097	0.0000000004	-.0000000013	-.0000000221	-.0000000153
PCB_171_173	-.0000000187	0.0000000017	0.0000000020	-.0000000292	-.0000000087
PCB_18_30	0.0000000105	-.0000000007	-.0000000011	0.0000000059	0.0000000103
PCB_180_193	-.0000001157	0.0000000111	0.0000000155	-.0000001269	-.0000000496
PCB_183_185	-.0000000439	0.0000000042	0.0000000062	-.0000000514	-.0000000206
PCB_197_200	-.0000000036	0.0000000003	0.0000000005	-.0000000046	-.0000000012
PCB_198_199	-.0000000314	0.0000000031	0.0000000046	-.0000000370	-.0000000102
PCB_20_28	0.0000000277	-.0000000032	-.0000000018	0.0000000709	0.0000000152
PCB_21_33	0.0000000017	-.0000000002	-.0000000001	0.0000000042	0.0000000011
PCB_26_29	0.0000000512	-.0000000041	-.0000000033	0.0000000883	0.0000000257
PCB_40_41_71	0.0000000266	-.0000000024	-.0000000019	0.0000000272	0.0000000176
PCB_44_47_65	0.0000001712	-.0000000177	-.0000000147	0.0000002559	0.0000000717
PCB_45_51	0.0000000097	-.0000000001	-.0000000016	-.0000000133	0.0000000157
PCB_49_69	0.0000002345	-.0000000202	-.0000000220	0.0000002921	0.0000001421
PCB_50_53	0.0000000322	-.0000000028	-.0000000024	0.0000000353	0.0000000187
PCB_59_62_75	0.0000000178	-.0000000016	-.0000000012	0.0000000340	0.0000000098
PCB_61_70_74_76	0.0000000560	-.0000000053	-.0000000057	0.0000001433	0.0000000287
PCB_85_117_116	0.0000000129	-.0000000023	-.0000000028	0.0000000264	-.0000000104
PCB_86_87_97_108_119_125	0.0000000832	-.0000000090	-.0000000105	0.0000001016	0.0000000389

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_195	-.0000000009	-.0000003801	-.0000000083	-.0000000316	0.0000000048
PCB_196	-.0000000014	-.0000005549	-.0000000054	-.0000000454	0.0000000063
PCB_201	-.0000000006	-.0000002248	-.0000000002	-.0000000169	0.0000000047
PCB_202	-.0000000008	-.0000003300	0.0000000015	-.0000000241	0.0000000074
PCB_203	-.0000000025	-.0000010293	-.0000000090	-.0000000810	0.0000000177
PCB_204	-.0000000000	-.0000000018	0.0000000000	-.0000000001	0.0000000000
PCB_205	-.0000000001	-.0000000553	-.0000000012	-.0000000045	0.0000000009
PCB_206	-.0000000009	-.0000003915	0.0000000007	-.0000000288	0.0000000087
PCB_207	-.0000000001	-.0000000448	0.0000000004	-.0000000032	0.0000000010
PCB_208	-.0000000003	-.0000001356	0.0000000020	-.0000000094	0.0000000034
PCB_209	-.0000000005	-.0000002228	0.0000000018	-.0000000144	0.0000000080
PCB_12_13	0.0000000000	0.0000000160	0.0000000042	0.0000000021	0.0000000002
PCB_107_124	-.0000000009	-.0000001751	-.0000000162	-.0000000285	-.0000000314
PCB_110_115	0.0000000557	0.0000148675	-.0000007071	0.0000014392	0.0000008088
PCB_128_166	-.0000000116	-.0000026237	-.0000000971	-.0000002830	-.0000002546
PCB_129_138_163	-.0000000800	-.0000213282	-.0000002905	-.0000021349	-.0000013470
PCB_134_143	-.0000000013	-.0000003558	0.0000000349	-.0000000314	-.0000000104
PCB_135_151	-.0000000176	-.0000058805	-.0000002155	-.0000005577	-.0000000293
PCB_139_140	-.0000000015	-.0000002953	-.0000000001	-.0000000314	-.0000000347
PCB_147_149	-.0000000262	-.0000103280	-.0000010609	-.0000011041	-.0000000622
PCB_153_168	-.0000000598	-.0000162895	-.0000000362	-.0000015525	-.0000008860
PCB_156_157	-.0000000074	-.0000016943	-.0000000858	-.0000002154	-.0000001965
PCB_171_173	-.0000000036	-.0000011620	-.0000000323	-.0000001094	-.0000000261
PCB_18_30	0.0000000047	0.0000013120	-.0000000143	0.0000001279	0.0000000641
PCB_180_193	-.0000000195	-.0000070768	-.0000001104	-.0000006317	-.0000000422
PCB_183_185	-.0000000086	-.0000029409	-.0000000015	-.0000002490	-.0000000219
PCB_197_200	-.0000000005	-.0000001828	-.0000000012	-.0000000142	0.0000000035
PCB_198_199	-.0000000036	-.0000015377	-.0000000227	-.0000001228	0.0000000348
PCB_20_28	0.0000000066	0.0000017651	0.0000000657	0.0000001536	0.0000001081
PCB_21_33	0.0000000005	0.0000001361	0.0000000072	0.0000000145	0.0000000096
PCB_26_29	0.0000000102	0.0000031251	0.0000001971	0.0000003461	0.0000001547
PCB_40_41_71	0.0000000077	0.0000022632	0.0000001077	0.0000002575	0.0000001352
PCB_44_47_65	0.0000000274	0.0000092069	0.0000006182	0.0000009548	0.0000003242
PCB_45_51	0.0000000071	0.0000019947	-.0000000991	0.0000001799	0.0000000842
PCB_49_69	0.0000000595	0.0000180714	0.0000003683	0.0000017800	0.0000007258
PCB_50_53	0.0000000081	0.0000024748	0.0000001501	0.0000002932	0.0000001362
PCB_59_62_75	0.0000000040	0.0000011701	0.0000000479	0.0000001158	0.0000000609
PCB_61_70_74_76	0.0000000142	0.0000037910	0.0000000377	0.0000003161	0.0000001150
PCB_85_117_116	-.0000000056	-.0000010088	0.0000000757	-.0000001221	-.0000001644
PCB_86_87_97_108_119_125	0.0000000160	0.0000052832	0.0000000514	0.0000004449	0.0000000725

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_195	-.0000061596	-.0000000491	0.0000000010	0.0000000469	-.0000001113
PCB_196	-.0000089142	-.0000000728	0.0000000015	0.0000000551	-.0000001471
PCB_201	-.0000037088	-.0000000305	0.0000000007	0.0000000285	-.0000000605
PCB_202	-.0000054373	-.0000000448	0.0000000010	0.0000000430	-.0000000871
PCB_203	-.0000168389	-.0000001368	0.0000000029	0.0000001265	-.0000002851
PCB_204	-.0000000280	-.0000000002	0.0000000000	0.0000000002	-.0000000004
PCB_205	-.0000009076	-.0000000072	0.0000000002	0.0000000072	-.0000000163
PCB_206	-.0000064531	-.0000000529	0.0000000012	0.0000000527	-.0000001040
PCB_207	-.0000007329	-.0000000061	0.0000000001	0.0000000055	-.0000000112
PCB_208	-.0000022369	-.0000000186	0.0000000004	0.0000000179	-.0000000339
PCB_209	-.0000038057	-.0000000311	0.0000000008	0.0000000418	-.0000000639
PCB_12_13	0.0000002865	0.0000000016	-.0000000000	-.0000000041	0.0000000099
PCB_107_124	-.0000013400	-.0000000084	-.0000000005	-.0000001053	-.0000000038
PCB_110_115	0.0001857030	0.0000017361	-.0000000094	0.0000038717	0.0000000035
PCB_128_166	-.0000294328	-.0000002084	-.0000000005	-.0000008201	-.0000002530
PCB_129_138_163	-.0002674143	-.0000020750	0.0000000122	-.0000042199	-.0000028937
PCB_134_143	-.0000047425	-.0000000493	0.0000000003	-.0000000846	0.0000000012
PCB_135_151	-.0000947414	-.0000007315	0.0000000117	0.0000001887	-.0000017128
PCB_139_140	-.0000029581	-.0000000222	-.0000000003	-.0000001313	0.0000000022
PCB_147_149	-.0001694494	-.0000011653	0.0000000229	0.0000013153	-.0000043053
PCB_153_168	-.0002103860	-.0000016864	0.0000000146	-.0000029484	-.0000018018
PCB_156_157	-.0000173519	-.0000001281	-.0000000013	-.0000006438	-.0000001099
PCB_171_173	-.0000171812	-.0000001344	0.0000000020	-.0000000326	-.0000002640
PCB_18_30	0.0000171358	0.0000001450	-.0000000011	0.0000002390	0.0000001402
PCB_180_193	-.0001084181	-.0000008803	0.0000000155	0.0000002158	-.0000016552
PCB_183_185	-.0000446639	-.0000003676	0.0000000062	0.0000000119	-.0000006054
PCB_197_200	-.0000030123	-.0000000245	0.0000000005	0.0000000226	-.0000000512
PCB_198_199	-.0000256795	-.0000002079	0.0000000046	0.0000002303	-.0000004610
PCB_20_28	0.0000219141	0.0000001509	-.0000000018	0.0000002153	0.0000003480
PCB_21_33	0.0000017336	0.0000000125	-.0000000001	0.0000000268	0.0000000200
PCB_26_29	0.0000423344	0.0000003127	-.0000000033	0.0000002693	0.0000007574
PCB_40_41_71	0.0000292879	0.0000002271	-.0000000019	0.0000003487	0.0000003702
PCB_44_47_65	0.0001316135	0.0000009441	-.0000000147	0.0000001331	0.0000025293
PCB_45_51	0.0000258707	0.0000002358	-.0000000016	0.0000003986	0.0000001294
PCB_49_69	0.0002470660	0.0000019554	-.0000000220	0.0000017908	0.0000033550
PCB_50_53	0.0000330364	0.0000002566	-.0000000024	0.0000003193	0.0000004527
PCB_59_62_75	0.0000153151	0.0000001127	-.0000000012	0.0000001228	0.0000002511
PCB_61_70_74_76	0.0000552041	0.0000004254	-.0000000057	0.0000003464	0.0000006829
PCB_85_117_116	-.0000065807	-.0000000731	-.0000000028	-.0000007233	0.0000002136
PCB_86_87_97_108_119_125	0.0000795197	0.0000006206	-.0000000105	0.0000000148	0.0000011945

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_195	-.0000000265	0.0000001117	-.0000000760	-.0000002437	-.0000011550
PCB_196	-.0000000353	0.0000001582	-.0000001023	-.0000003847	-.0000015703
PCB_201	-.0000000144	0.0000000705	-.0000000432	-.0000001453	-.0000006725
PCB_202	-.0000000207	0.0000001043	-.0000000630	-.0000002138	-.0000009900
PCB_203	-.0000000679	0.0000003126	-.0000001998	-.0000006698	-.0000030792
PCB_204	-.0000000001	0.0000000006	-.0000000003	-.0000000012	-.0000000048
PCB_205	-.0000000039	0.0000000167	-.0000000112	-.0000000348	-.0000001710
PCB_206	-.0000000248	0.0000001244	-.0000000755	-.0000002516	-.0000011873
PCB_207	-.0000000027	0.0000000140	-.0000000083	-.0000000299	-.0000001317
PCB_208	-.0000000081	0.0000000437	-.0000000253	-.0000000887	-.0000004034
PCB_209	-.0000000150	0.0000000804	-.0000000475	-.0000001210	-.0000007534
PCB_12_13	0.0000000024	-.0000000050	0.0000000062	0.0000000017	0.0000000835
PCB_107_124	-.0000000041	-.0000000541	0.0000000046	-.0000003217	0.0000001489
PCB_110_115	0.0000001480	-.0000007313	0.0000002250	0.0000208334	0.0000052692
PCB_128_166	-.0000000949	-.0000001283	-.0000001844	-.0000034409	-.0000024857
PCB_129_138_163	-.0000008636	0.0000009391	-.0000019265	-.0000251238	-.0000279771
PCB_134_143	-.0000000014	0.0000000343	0.0000000003	-.0000004941	-.0000000242
PCB_135_151	-.0000004152	0.0000013610	-.0000010881	-.0000045871	-.0000157584
PCB_139_140	-.0000000043	-.0000000387	-.0000000019	-.0000004657	-.0000000174
PCB_147_149	-.0000010169	0.0000026282	-.0000026071	-.0000057573	-.0000366078
PCB_153_168	-.0000005757	0.0000011841	-.0000013984	-.0000190842	-.0000217172
PCB_156_157	-.0000000504	-.0000001831	-.0000000599	-.0000024735	-.0000005613
PCB_171_173	-.0000000678	0.0000002111	-.0000001788	-.0000010257	-.0000026473
PCB_18_30	0.0000000429	-.0000001032	0.0000000971	0.0000015734	0.0000014730
PCB_180_193	-.0000004122	0.0000016353	-.0000011417	-.0000057426	-.0000173381
PCB_183_185	-.0000001538	0.0000006497	-.0000004351	-.0000025310	-.0000067283
PCB_197_200	-.0000000121	0.0000000562	-.0000000357	-.0000001177	-.0000005484
PCB_198_199	-.0000001082	0.0000004949	-.0000003163	-.0000009290	-.0000048359
PCB_20_28	0.0000000976	-.0000001318	0.0000002568	0.0000016599	0.0000038041
PCB_21_33	0.0000000064	-.0000000064	0.0000000150	0.0000001526	0.0000002150
PCB_26_29	0.0000001973	-.0000003353	0.0000004640	0.0000029547	0.0000063992
PCB_40_41_71	0.0000001072	-.0000001628	0.0000002397	0.0000025131	0.0000033759
PCB_44_47_65	0.0000006446	-.0000014557	0.0000016346	0.0000076323	0.0000235620
PCB_45_51	0.0000000429	-.0000001607	0.0000000926	0.0000025382	0.0000015402
PCB_49_69	0.0000008989	-.0000021825	0.0000022106	0.0000183743	0.0000324251
PCB_50_53	0.0000001278	-.0000002284	0.0000002884	0.0000026383	0.0000040045
PCB_59_62_75	0.0000000669	-.0000001103	0.0000001636	0.0000011310	0.0000023376
PCB_61_70_74_76	0.0000001897	-.0000005847	0.0000005268	0.0000036190	0.0000080111
PCB_85_117_116	0.0000000325	-.0000003223	0.0000001515	-.0000021615	0.0000023710
PCB_86_87_97_108_119_125	0.0000003024	-.0000010674	0.0000008367	0.0000045537	0.0000128698

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_195	-.0000001053	-.0000002235	-.0000003152	0.0000000010	0.0000000548
PCB_196	-.0000001455	-.0000003030	-.0000004271	0.0000000015	0.0000000791
PCB_201	-.0000000607	-.0000001286	-.0000001797	0.0000000007	0.0000000353
PCB_202	-.0000000874	-.0000001876	-.0000002604	0.0000000010	0.0000000530
PCB_203	-.0000002796	-.0000005914	-.0000008291	0.0000000029	0.0000001558
PCB_204	-.0000000004	-.0000000009	-.0000000012	0.0000000000	0.0000000003
PCB_205	-.0000000156	-.0000000329	-.0000000463	0.0000000002	0.0000000082
PCB_206	-.0000001034	-.0000002240	-.0000003099	0.0000000012	0.0000000635
PCB_207	-.0000000114	-.0000000247	-.0000000341	0.0000000001	0.0000000072
PCB_208	-.0000000347	-.0000000755	-.0000001038	0.0000000004	0.0000000226
PCB_209	-.0000000628	-.0000001411	-.0000001936	0.0000000008	0.0000000408
PCB_12_13	0.0000000083	0.0000000171	0.0000000254	-.0000000000	-.0000000016
PCB_107_124	-.0000000135	0.0000000245	0.0000000121	-.0000000005	-.0000000276
PCB_110_115	0.0000013471	0.0000007239	0.0000012917	-.0000000094	-.0000007107
PCB_128_166	-.0000004123	-.0000004282	-.0000007784	-.0000000005	-.0000000659
PCB_129_138_163	-.0000037142	-.0000051870	-.0000082402	0.0000000122	0.0000005140
PCB_134_143	-.0000000376	-.0000000147	-.0000000344	0.0000000003	0.0000000226
PCB_135_151	-.0000017588	-.0000031289	-.0000045733	0.0000000117	0.0000006073
PCB_139_140	-.0000000278	0.0000000069	-.0000000106	-.0000000003	-.0000000168
PCB_147_149	-.0000037266	-.0000073616	-.0000107483	0.0000000229	0.0000010577
PCB_153_168	-.0000026308	-.0000037879	-.0000057623	0.0000000146	0.0000007419
PCB_156_157	-.0000002034	-.0000001098	-.0000002899	-.0000000013	-.0000000874
PCB_171_173	-.0000002824	-.0000005104	-.0000007482	0.0000000020	0.0000001020
PCB_18_30	0.0000002087	0.0000002775	0.0000004339	-.0000000011	-.0000000619
PCB_180_193	-.0000017047	-.0000033414	-.0000047749	0.0000000155	0.0000008263
PCB_183_185	-.0000006733	-.0000012758	-.0000018222	0.0000000062	0.0000003346
PCB_197_200	-.0000000508	-.0000001060	-.0000001493	0.0000000005	0.0000000277
PCB_198_199	-.0000004404	-.0000009381	-.0000013157	0.0000000046	0.0000002432
PCB_20_28	0.0000003698	0.0000006946	0.0000010622	-.0000000018	-.0000000562
PCB_21_33	0.0000000264	0.0000000388	0.0000000610	-.0000000001	-.0000000032
PCB_26_29	0.0000007419	0.0000012934	0.0000019861	-.0000000033	-.0000001380
PCB_40_41_71	0.0000004148	0.0000006524	0.0000010074	-.0000000019	-.0000000887
PCB_44_47_65	0.0000023567	0.0000045401	0.0000066720	-.0000000147	-.0000006650
PCB_45_51	0.0000002630	0.0000002923	0.0000004680	-.0000000016	-.0000001060
PCB_49_69	0.0000037102	0.0000062616	0.0000094190	-.0000000220	-.0000010970
PCB_50_53	0.0000004888	0.0000007933	0.0000012153	-.0000000024	-.0000001180
PCB_59_62_75	0.0000002570	0.0000004540	0.0000006963	-.0000000012	-.0000000474
PCB_61_70_74_76	0.0000008986	0.0000014673	0.0000021810	-.0000000057	-.0000002801
PCB_85_117_116	0.0000000625	0.0000004471	0.0000005177	-.0000000028	-.0000001395
PCB_86_87_97_108_119_125	0.0000012697	0.0000023849	0.0000034000	-.0000000105	-.0000005392

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_195	0.0000000032	-.0000000200	0.0000000010	0.0000000069	0.0000000601
PCB_196	0.0000000045	-.0000000300	0.0000000014	0.0000000098	0.0000000476
PCB_201	0.0000000020	-.0000000129	0.0000000006	0.0000000044	0.0000000203
PCB_202	0.0000000030	-.0000000189	0.0000000010	0.0000000065	0.0000000238
PCB_203	0.0000000089	-.0000000570	0.0000000029	0.0000000194	0.0000001138
PCB_204	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000000
PCB_205	0.0000000005	-.0000000030	0.0000000002	0.0000000010	0.0000000084
PCB_206	0.0000000036	-.0000000221	0.0000000012	0.0000000078	0.0000000285
PCB_207	0.0000000004	-.0000000025	0.0000000001	0.0000000009	0.0000000016
PCB_208	0.0000000013	-.0000000079	0.0000000004	0.0000000028	0.0000000043
PCB_209	0.0000000023	-.0000000133	0.0000000007	0.0000000051	0.0000000292
PCB_12_13	-.0000000002	0.0000000007	-.0000000000	-.0000000003	-.0000000184
PCB_107_124	-.0000000014	-.0000000046	-.0000000005	-.0000000037	-.0000000764
PCB_110_115	-.0000000168	0.0000007716	-.0000000090	-.0000000498	0.0000091098
PCB_128_166	-.0000000015	-.0000001244	-.0000000008	-.0000000081	-.0000005877
PCB_129_138_163	0.0000000355	-.0000010459	0.0000000113	0.0000000426	-.0000041898
PCB_134_143	0.0000000005	-.0000000222	0.0000000003	0.0000000017	-.0000002204
PCB_135_151	0.0000000381	-.0000003572	0.0000000116	0.0000000803	0.0000005800
PCB_139_140	-.0000000009	-.0000000151	-.0000000003	-.0000000025	-.0000001517
PCB_147_149	0.0000000782	-.0000005154	0.0000000224	0.0000001515	0.0000046670
PCB_153_168	0.0000000399	-.0000008244	0.0000000137	0.0000000762	-.0000045537
PCB_156_157	-.0000000043	-.0000000627	-.0000000015	-.0000000118	-.0000005190
PCB_171_173	0.0000000062	-.0000000616	0.0000000019	0.0000000130	0.0000000063
PCB_18_30	-.0000000029	0.0000000676	-.0000000010	-.0000000057	0.0000004027
PCB_180_193	0.0000000468	-.0000003667	0.0000000150	0.0000001017	0.0000000636
PCB_183_185	0.0000000186	-.0000001626	0.0000000060	0.0000000407	-.0000001874
PCB_197_200	0.0000000016	-.0000000105	0.0000000005	0.0000000035	0.0000000221
PCB_198_199	0.0000000140	-.0000000852	0.0000000045	0.0000000306	0.0000002448
PCB_20_28	-.0000000058	0.0000000801	-.0000000015	-.0000000078	-.0000001972
PCB_21_33	-.0000000003	0.0000000065	-.0000000001	-.0000000005	0.0000000166
PCB_26_29	-.0000000106	0.0000001331	-.0000000029	-.0000000186	-.0000003260
PCB_40_41_71	-.0000000053	0.0000000918	-.0000000017	-.0000000105	0.0000002925
PCB_44_47_65	-.0000000468	0.0000004020	-.0000000139	-.0000000880	-.0000014013
PCB_45_51	-.0000000040	0.0000001096	-.0000000016	-.0000000078	0.0000008660
PCB_49_69	-.0000000661	0.0000008770	-.0000000209	-.0000001258	0.0000014945
PCB_50_53	-.0000000070	0.0000000977	-.0000000021	-.0000000153	0.0000002142
PCB_59_62_75	-.0000000038	0.0000000528	-.0000000011	-.0000000059	-.0000000795
PCB_61_70_74_76	-.0000000180	0.0000002395	-.0000000054	-.0000000383	0.0000003307
PCB_85_117_116	-.0000000093	-.0000000415	-.0000000028	-.0000000223	-.0000009827
PCB_86_87_97_108_119_125	-.0000000320	0.0000002979	-.0000000104	-.0000000647	0.0000001979

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_195	-.0000001295	-.0000001273	0.0000000174	-.0000015337	-.0000000263
PCB_196	-.0000001697	-.0000002085	0.0000000236	-.0000020170	-.0000000339
PCB_201	-.0000000674	-.0000000689	0.0000000108	-.0000008716	-.0000000140
PCB_202	-.0000000974	-.0000000978	0.0000000161	-.0000012749	-.0000000205
PCB_203	-.0000003252	-.0000003350	0.0000000481	-.0000040204	-.0000000665
PCB_204	-.0000000005	-.0000000005	0.0000000001	-.0000000060	-.0000000001
PCB_205	-.0000000188	-.0000000179	0.0000000026	-.0000002268	-.0000000038
PCB_206	-.0000001173	-.0000001134	0.0000000194	-.0000015293	-.0000000249
PCB_207	-.0000000125	-.0000000136	0.0000000022	-.0000001664	-.0000000027
PCB_208	-.0000000373	-.0000000381	0.0000000068	-.0000005109	-.0000000081
PCB_209	-.0000000681	-.0000000353	0.0000000132	-.0000009991	-.0000000157
PCB_12_13	0.0000000109	0.0000000017	-.0000000011	0.0000001312	0.0000000026
PCB_107_124	-.0000000335	-.0000003422	-.0000000137	0.0000004824	0.0000000003
PCB_110_115	0.0000008945	0.0000167628	0.0000002262	-.0000146027	-.0000001486
PCB_128_166	-.0000004096	-.0000031446	-.0000000576	-.0000002075	-.0000000718
PCB_129_138_163	-.0000044849	-.0000214223	-.0000001248	-.0000182632	-.0000006526
PCB_134_143	-.0000000089	-.0000003847	-.0000000044	0.0000004150	0.0000000104
PCB_135_151	-.0000022290	-.0000036117	0.0000001769	-.0000203233	-.0000003486
PCB_139_140	-.0000000179	-.0000004361	-.0000000125	0.0000004802	0.0000000003
PCB_147_149	-.0000054953	-.0000046091	0.0000004369	-.0000533354	-.0000010000
PCB_153_168	-.0000028148	-.0000154873	-.0000000262	-.0000123505	-.0000004334
PCB_156_157	-.0000002517	-.0000023281	-.0000000620	0.0000014596	-.0000000266
PCB_171_173	-.0000003336	-.0000007677	0.0000000254	-.0000030500	-.0000000602
PCB_18_30	0.0000002282	0.0000012831	0.0000000046	0.0000006986	0.0000000238
PCB_180_193	-.0000020229	-.0000037481	0.0000002194	-.0000208325	-.0000003777
PCB_183_185	-.0000007341	-.0000016804	0.0000000824	-.0000076133	-.0000001356
PCB_197_200	-.0000000576	-.0000000590	0.0000000086	-.0000007204	-.0000000117
PCB_198_199	-.0000005286	-.0000004373	0.0000000775	-.0000065008	-.0000001060
PCB_20_28	0.0000003662	0.0000012543	-.0000000188	0.0000040054	0.0000001089
PCB_21_33	0.0000000268	0.0000001308	0.0000000004	0.0000001597	0.0000000056
PCB_26_29	0.0000009899	0.0000024592	-.0000000310	0.0000074319	0.0000001789
PCB_40_41_71	0.0000005524	0.0000021006	0.0000000014	0.0000027829	0.0000000886
PCB_44_47_65	0.0000032903	0.0000059440	-.0000002035	0.0000292037	0.0000006449
PCB_45_51	0.0000002522	0.0000020196	0.0000000128	-.0000001187	0.0000000047
PCB_49_69	0.0000045777	0.0000145341	-.0000001699	0.0000323595	0.0000007533
PCB_50_53	0.0000006543	0.0000021969	-.0000000070	0.0000036980	0.0000001061
PCB_59_62_75	0.0000003126	0.0000009056	-.0000000108	0.0000025529	0.0000000639
PCB_61_70_74_76	0.0000007910	0.0000028087	-.0000000620	0.0000080203	0.0000001621
PCB_85_117_116	0.0000001545	-.0000020363	-.0000000913	0.0000056234	0.0000000687
PCB_86_87_97_108_119_125	0.0000015714	0.0000032739	-.0000001394	0.0000148544	0.0000002800

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_195	-.0000007164	-.0000000113	-.0000039240	-.0000001166	-.0000000047
PCB_196	-.0000011658	-.0000000173	-.0000051887	-.0000001640	-.0000000068
PCB_201	-.0000004058	-.0000000063	-.0000023115	-.0000000687	-.0000000029
PCB_202	-.0000005800	-.0000000091	-.0000033892	-.0000001015	-.0000000044
PCB_203	-.0000019166	-.0000000300	-.0000104991	-.0000003142	-.0000000131
PCB_204	-.0000000030	-.0000000001	-.0000000155	-.0000000005	-.0000000000
PCB_205	-.0000000988	-.0000000016	-.0000005877	-.0000000171	-.0000000007
PCB_206	-.0000006616	-.0000000108	-.0000040563	-.0000001213	-.0000000052
PCB_207	-.0000000797	-.0000000013	-.0000004422	-.0000000137	-.0000000006
PCB_208	-.0000002307	-.0000000036	-.0000013737	-.0000000417	-.0000000018
PCB_209	-.0000002585	-.0000000048	-.0000027207	-.0000000735	-.0000000032
PCB_12_13	0.0000000054	0.0000000004	0.0000003215	0.0000000060	0.0000000002
PCB_107_124	-.0000015371	-.0000000164	0.0000021183	-.0000000068	0.0000000004
PCB_110_115	0.0000797796	0.0000009159	-.0000560302	0.0000022734	0.0000000986
PCB_128_166	-.0000150811	-.0000001568	0.0000062814	-.0000003804	-.0000000127
PCB_129_138_163	-.0001039429	-.0000011405	-.0000075833	-.0000039860	-.0000001453
PCB_134_143	-.0000020210	-.0000000206	0.0000012246	-.0000000526	-.0000000023
PCB_135_151	-.0000164701	-.0000002437	-.0000506672	-.0000016203	-.0000000603
PCB_139_140	-.0000020542	-.0000000206	0.0000020925	-.0000000277	-.0000000009
PCB_147_149	-.0000202336	-.0000003659	-.0001293077	-.0000033014	-.0000001121
PCB_153_168	-.0000739950	-.0000008554	-.0000075422	-.0000031295	-.0000001251
PCB_156_157	-.0000110148	-.0000001173	0.0000091967	-.0000001976	-.0000000049
PCB_171_173	-.0000037664	-.0000000490	-.0000069323	-.0000002907	-.0000000113
PCB_18_30	0.0000062469	0.0000000709	0.0000000322	0.0000002462	0.0000000096
PCB_180_193	-.0000192139	-.0000002668	-.0000506553	-.0000019118	-.0000000771
PCB_183_185	-.0000086151	-.0000001135	-.0000185913	-.0000007624	-.0000000317
PCB_197_200	-.0000003447	-.0000000053	-.0000018956	-.0000000557	-.0000000023
PCB_198_199	-.0000025364	-.0000000430	-.0000171176	-.0000004855	-.0000000200
PCB_20_28	0.0000071128	0.0000000657	0.0000067434	0.0000003828	0.0000000150
PCB_21_33	0.0000006145	0.0000000073	0.0000001542	0.0000000256	0.0000000009
PCB_26_29	0.0000122345	0.0000001461	0.0000136833	0.0000007167	0.0000000242
PCB_40_41_71	0.0000098746	0.0000001229	0.0000029722	0.0000004586	0.0000000160
PCB_44_47_65	0.0000284429	0.0000003845	0.0000620839	0.0000024071	0.0000000867
PCB_45_51	0.0000101256	0.0000001088	-.0000025145	0.0000003523	0.0000000145
PCB_49_69	0.0000719616	0.0000008505	0.0000593926	0.0000040228	0.0000001511
PCB_50_53	0.0000101754	0.0000001340	0.0000052527	0.0000005231	0.0000000180
PCB_59_62_75	0.0000047480	0.0000000508	0.0000044788	0.0000002599	0.0000000094
PCB_61_70_74_76	0.0000138105	0.0000001622	0.0000181609	0.0000008559	0.0000000356
PCB_85_117_116	-.0000102250	-.0000000902	0.0000185873	0.0000000287	0.0000000023
PCB_86_87_97_108_119_125	0.0000156699	0.0000002103	0.0000351959	0.0000013911	0.0000000563

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_195	-.0000007694	0.0000000010	-.0000004299	-.0000000184	0.0000000010
PCB_196	-.0000010256	0.0000000015	-.0000005774	-.0000000239	0.0000000015
PCB_201	-.0000005014	0.0000000007	-.0000002624	-.0000000101	0.0000000007
PCB_202	-.0000007584	0.0000000010	-.0000003876	-.0000000146	0.0000000010
PCB_203	-.0000021880	0.0000000029	-.0000011750	-.0000000472	0.0000000029
PCB_204	-.0000000038	0.0000000000	-.0000000019	-.0000000001	0.0000000000
PCB_205	-.0000001189	0.0000000002	-.0000000649	-.0000000027	0.0000000002
PCB_206	-.0000009159	0.0000000012	-.0000004655	-.0000000174	0.0000000012
PCB_207	-.0000001014	0.0000000001	-.0000000513	-.0000000019	0.0000000001
PCB_208	-.0000003241	0.0000000004	-.0000001602	-.0000000057	0.0000000004
PCB_209	-.0000006586	0.0000000008	-.0000003152	-.0000000113	0.0000000008
PCB_12_13	0.0000000416	-.0000000000	0.0000000313	0.0000000018	-.0000000000
PCB_107_124	0.0000010263	-.0000000005	0.0000002963	0.0000000034	-.0000000005
PCB_110_115	-.0000223563	-.0000000094	-.0000056921	-.0000001958	-.0000000094
PCB_128_166	0.0000060165	-.0000000005	0.0000011271	-.0000000198	-.0000000005
PCB_129_138_163	0.0000248678	0.0000000122	0.0000017280	-.0000003098	0.0000000122
PCB_134_143	0.0000004797	0.0000000003	0.0000001274	0.0000000048	0.0000000003
PCB_135_151	-.0000072172	0.0000000117	-.0000050781	-.0000002596	0.0000000117
PCB_139_140	0.0000010007	-.0000000003	0.0000002766	0.0000000040	-.0000000003
PCB_147_149	-.0000181872	0.0000000229	-.0000124618	-.0000006993	0.0000000229
PCB_153_168	0.0000134272	0.0000000146	-.0000000399	-.0000001713	0.0000000146
PCB_156_157	0.0000055513	-.0000000013	0.0000013308	0.0000000044	-.0000000013
PCB_171_173	-.0000006521	0.0000000020	-.0000006960	-.0000000390	0.0000000020
PCB_18_30	-.0000012141	-.0000000011	-.0000000708	0.0000000110	-.0000000011
PCB_180_193	-.0000080335	0.0000000155	-.0000055088	-.0000002513	0.0000000155
PCB_183_185	-.0000029450	0.0000000062	-.0000020559	-.0000000905	0.0000000062
PCB_197_200	-.0000003925	0.0000000005	-.0000002111	-.0000000085	0.0000000005
PCB_198_199	-.0000036161	0.0000000046	-.0000019055	-.0000000767	0.0000000046
PCB_20_28	-.0000009392	-.0000000018	0.0000004866	0.0000000588	-.0000000018
PCB_21_33	-.0000001503	-.0000000001	0.0000000046	0.0000000024	-.0000000001
PCB_26_29	-.0000012741	-.0000000033	0.0000010344	0.0000001082	-.0000000033
PCB_40_41_71	-.0000021125	-.0000000019	0.0000001306	0.0000000409	-.0000000019
PCB_44_47_65	0.0000040961	-.0000000147	0.0000057817	0.0000003860	-.0000000147
PCB_45_51	-.0000020455	-.0000000016	-.0000003429	0.0000000008	-.0000000016
PCB_49_69	-.0000045310	-.0000000220	0.0000050024	0.0000004442	-.0000000220
PCB_50_53	-.0000018299	-.0000000024	0.0000003877	0.0000000522	-.0000000024
PCB_59_62_75	-.0000005510	-.0000000012	0.0000003219	0.0000000375	-.0000000012
PCB_61_70_74_76	0.0000010726	-.0000000057	0.0000018274	0.0000001032	-.0000000057
PCB_85_117_116	0.0000065905	-.0000000028	0.0000022532	0.0000000580	-.0000000028
PCB_86_87_97_108_119_125	0.0000052335	-.0000000105	0.0000036754	0.0000001802	-.0000000105

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_195	-.0000000592	-.0000036077	-.0000000645	-.0000000065	0.0000000023
PCB_196	-.0000000827	-.0000047545	-.0000000841	-.0000000085	0.0000000035
PCB_201	-.0000000427	-.0000022126	-.0000000359	-.0000000037	0.0000000007
PCB_202	-.0000000659	-.0000032627	-.0000000518	-.0000000053	0.0000000006
PCB_203	-.0000001796	-.0000098797	-.0000001670	-.0000000169	0.0000000044
PCB_204	-.0000000004	-.0000000141	-.0000000002	-.0000000000	0.0000000000
PCB_205	-.0000000094	-.0000005511	-.0000000095	-.0000000010	0.0000000003
PCB_206	-.0000000801	-.0000039053	-.0000000616	-.0000000063	0.0000000006
PCB_207	-.0000000091	-.0000004253	-.0000000066	-.0000000007	0.0000000001
PCB_208	-.0000000295	-.0000013406	-.0000000203	-.0000000021	0.0000000000
PCB_209	-.0000000586	-.0000027230	-.0000000400	-.0000000041	-.0000000007
PCB_12_13	0.0000000011	0.0000002916	0.0000000061	0.0000000006	-.0000000002
PCB_107_124	0.0000001072	0.0000031077	0.0000000152	0.0000000015	0.0000000104
PCB_110_115	-.0000015186	-.0000843685	-.0000007353	-.0000000569	-.0000003370
PCB_128_166	0.0000006513	0.0000143096	-.0000000343	-.0000000053	0.0000000783
PCB_129_138_163	0.0000029397	0.0000439668	-.0000009110	-.0000001015	0.0000005112
PCB_134_143	0.0000000329	0.0000017667	0.0000000150	0.0000000014	0.0000000090
PCB_135_151	-.0000003567	-.0000454421	-.0000009439	-.0000000896	0.0000000653
PCB_139_140	0.0000000962	0.0000030427	0.0000000182	0.0000000015	0.0000000099
PCB_147_149	-.0000006530	-.0001145103	-.0000024656	-.0000002347	0.0000001281
PCB_153_168	0.0000013450	0.0000250438	-.0000004857	-.0000000626	0.0000003179
PCB_156_157	0.0000005730	0.0000157918	0.0000000411	0.0000000029	0.0000000666
PCB_171_173	-.0000000220	-.0000052437	-.0000001347	-.0000000136	0.0000000165
PCB_18_30	-.0000001225	-.0000026180	0.0000000332	0.0000000040	-.0000000290
PCB_180_193	-.0000005940	-.0000423896	-.0000008759	-.0000000896	0.0000000763
PCB_183_185	-.0000002359	-.0000155583	-.0000003164	-.0000000328	0.0000000296
PCB_197_200	-.0000000318	-.0000017968	-.0000000303	-.0000000030	0.0000000008
PCB_198_199	-.0000002914	-.0000163054	-.0000002731	-.0000000274	0.0000000057
PCB_20_28	-.0000001762	0.0000021173	0.0000001766	0.0000000195	-.0000000357
PCB_21_33	-.0000000176	-.0000001728	0.0000000072	0.0000000008	-.0000000031
PCB_26_29	-.0000003070	0.0000056966	0.0000003564	0.0000000355	-.0000000759
PCB_40_41_71	-.0000002572	-.0000028651	0.0000001251	0.0000000137	-.0000000562
PCB_44_47_65	-.0000001368	0.0000431364	0.0000012884	0.0000001305	-.0000001564
PCB_45_51	-.0000001747	-.0000061964	-.0000000017	0.0000000009	-.0000000441
PCB_49_69	-.0000009794	0.0000228729	0.0000014621	0.0000001520	-.0000003574
PCB_50_53	-.0000002414	-.0000009822	0.0000001669	0.0000000176	-.0000000611
PCB_59_62_75	-.0000001136	0.0000015405	0.0000001193	0.0000000123	-.0000000263
PCB_61_70_74_76	0.0000000148	0.0000139621	0.0000003574	0.0000000367	-.0000000445
PCB_85_117_116	0.0000005938	0.0000236276	0.0000002220	0.0000000209	0.0000000582
PCB_86_87_97_108_119_125	0.0000003486	0.0000296201	0.0000006251	0.0000000640	-.0000000484

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_195	-.0000000370	0.0000000083	-.0000000002	0.0000000868	0.0000000135
PCB_196	-.0000000478	0.0000000120	-.0000000001	0.0000001480	0.0000000196
PCB_201	-.0000000219	0.0000000055	-.0000000004	0.0000000547	0.0000000082
PCB_202	-.0000000340	0.0000000083	-.0000000006	0.0000000795	0.0000000117
PCB_203	-.0000000999	0.0000000240	-.0000000011	0.0000002476	0.0000000369
PCB_204	-.0000000002	0.0000000000	-.0000000000	0.0000000005	0.0000000001
PCB_205	-.0000000055	0.0000000013	-.0000000000	0.0000000123	0.0000000020
PCB_206	-.0000000416	0.0000000099	-.0000000008	0.0000000913	0.0000000135
PCB_207	-.0000000046	0.0000000011	-.0000000001	0.0000000112	0.0000000015
PCB_208	-.0000000144	0.0000000036	-.0000000003	0.0000000333	0.0000000047
PCB_209	-.0000000284	0.0000000065	-.0000000010	0.0000000395	0.0000000083
PCB_12_13	0.0000000013	-.0000000002	-.0000000000	0.0000000023	-.0000000007
PCB_107_124	0.0000000314	-.0000000046	0.0000000053	0.0000001550	-.0000000011
PCB_110_115	-.0000006970	-.0000001030	-.0000001671	-.0000103197	-.0000002190
PCB_128_166	0.0000001818	-.0000000076	0.0000000427	0.0000015750	0.0000000234
PCB_129_138_163	0.0000003340	0.0000001026	0.0000002484	0.0000113721	0.0000003388
PCB_134_143	0.0000000214	0.0000000034	0.0000000034	0.0000002717	0.0000000123
PCB_135_151	-.0000003705	0.0000001088	0.0000000237	0.0000018454	0.0000001801
PCB_139_140	0.0000000321	-.0000000018	0.0000000060	0.0000002250	-.0000000001
PCB_147_149	-.0000010504	0.0000001744	0.0000000305	0.0000015228	0.0000003361
PCB_153_168	0.0000001676	0.0000001266	0.0000001643	0.0000085984	0.0000002349
PCB_156_157	0.0000001765	-.0000000168	0.0000000327	0.0000011659	0.0000000139
PCB_171_173	-.0000000430	0.0000000162	0.0000000062	0.0000004271	0.0000000313
PCB_18_30	-.0000000208	-.0000000101	-.0000000132	-.0000007421	-.0000000260
PCB_180_193	-.0000004207	0.0000001232	0.0000000185	0.0000023401	0.0000002174
PCB_183_185	-.0000001501	0.0000000524	0.0000000090	0.0000010742	0.0000000860
PCB_197_200	-.0000000173	0.0000000043	-.0000000002	0.0000000445	0.0000000069
PCB_198_199	-.0000001632	0.0000000373	-.0000000028	0.0000003289	0.0000000583
PCB_20_28	0.0000000071	-.0000000087	-.0000000158	-.0000006762	-.0000000380
PCB_21_33	-.0000000049	-.0000000004	-.0000000016	-.0000000660	-.0000000019
PCB_26_29	0.0000000248	-.0000000164	-.0000000281	-.0000012324	-.0000000824
PCB_40_41_71	-.0000000330	-.0000000085	-.0000000238	-.0000010934	-.0000000416
PCB_44_47_65	0.0000004514	-.0000000966	-.0000000581	-.0000028008	-.0000002128
PCB_45_51	-.0000000366	-.0000000183	-.0000000194	-.0000012574	-.0000000439
PCB_49_69	0.0000002590	-.0000001670	-.0000001445	-.0000080368	-.0000004227
PCB_50_53	-.0000000333	-.0000000102	-.0000000243	-.0000011345	-.0000000519
PCB_59_62_75	0.0000000104	-.0000000068	-.0000000104	-.0000004773	-.0000000285
PCB_61_70_74_76	0.0000000406	-.0000000539	-.0000000257	-.0000015854	-.0000000874
PCB_85_117_116	0.0000002318	-.0000000226	0.0000000288	0.0000011737	0.0000000042
PCB_86_87_97_108_119_125	0.0000003513	-.0000000955	-.0000000216	-.0000018183	-.0000001195

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_195	0.0000006202	-.0000000004	0.0000002639	-.0000002540	0.0000006853
PCB_196	0.0000008638	0.0000000092	0.0000003488	-.0000003547	0.0000009797
PCB_201	0.0000003828	0.0000000027	0.0000001550	-.0000001754	0.0000004063
PCB_202	0.0000005676	0.0000000051	0.0000002218	-.0000002667	0.0000005965
PCB_203	0.0000017115	0.0000000088	0.0000007033	-.0000007488	0.0000018534
PCB_204	0.0000000029	0.0000000001	0.0000000009	-.0000000016	0.0000000031
PCB_205	0.0000000926	-.0000000001	0.0000000396	-.0000000392	0.0000001004
PCB_206	0.0000006790	0.0000000057	0.0000002610	-.0000003222	0.0000007090
PCB_207	0.0000000762	0.0000000010	0.0000000280	-.0000000364	0.0000000804
PCB_208	0.0000002369	0.0000000032	0.0000000874	-.0000001169	0.0000002448
PCB_209	0.0000004415	-.0000000008	0.0000001758	-.0000002300	0.0000004222
PCB_12_13	-.0000000336	0.0000000036	-.0000000251	0.0000000067	-.0000000364
PCB_107_124	-.0000002679	0.0000000357	-.0000001402	0.0000004001	0.0000001600
PCB_110_115	-.0000021340	-.0000029885	0.0000048457	-.0000055687	-.0000184055
PCB_128_166	-.0000002578	0.0000003281	-.0000004662	0.0000025801	0.0000036010
PCB_129_138_163	0.0000068052	0.0000023105	0.0000001146	0.0000111464	0.0000305143
PCB_134_143	0.0000000819	0.0000000730	-.0000000520	0.0000000823	0.0000004312
PCB_135_151	0.0000074389	0.0000001246	0.0000038514	-.0000015629	0.0000100793
PCB_139_140	-.0000001756	0.0000000590	-.0000001552	0.0000003938	0.0000003496
PCB_147_149	0.0000157843	-.0000006451	0.0000095552	-.0000032788	0.0000192888
PCB_153_168	0.0000072522	0.0000019882	-.0000004717	0.0000054320	0.0000234941
PCB_156_157	-.0000007906	0.0000002557	-.0000006426	0.0000021210	0.0000020683
PCB_171_173	0.0000012024	0.0000000543	0.0000004807	-.0000001284	0.0000019093
PCB_18_30	-.0000005318	-.0000001704	0.0000000181	-.0000004288	-.0000018313
PCB_180_193	0.0000089695	0.0000002818	0.0000033572	-.0000027127	0.0000118826
PCB_183_185	0.0000035263	0.0000001694	0.0000012188	-.0000010121	0.0000048639
PCB_197_200	0.0000003061	0.0000000012	0.0000001306	-.0000001333	0.0000003305
PCB_198_199	0.0000027003	-.0000000066	0.0000011677	-.0000012273	0.0000028125
PCB_20_28	-.0000011826	-.0000000624	-.0000004145	-.0000006732	-.0000029155
PCB_21_33	-.0000000543	-.0000000122	-.0000000066	-.0000000692	-.0000002054
PCB_26_29	-.0000021847	-.0000001067	-.0000010424	-.0000008845	-.0000049447
PCB_40_41_71	-.0000010374	-.0000002001	-.0000001283	-.0000008385	-.0000032993
PCB_44_47_65	-.0000092936	-.0000001337	-.0000040287	-.0000000960	-.0000154548
PCB_45_51	-.0000006767	-.0000003189	0.0000001882	-.0000005881	-.0000026458
PCB_49_69	-.0000127920	-.0000013363	-.0000039336	-.0000028897	-.0000277126
PCB_50_53	-.0000013700	-.0000001893	-.0000003113	-.0000007041	-.0000036717
PCB_59_62_75	-.0000007786	-.0000000513	-.0000003182	-.0000003724	-.0000018578
PCB_61_70_74_76	-.0000034439	-.0000002701	-.0000012988	-.0000001098	-.0000062286
PCB_85_117_116	-.0000018363	0.0000003358	-.0000012364	0.0000022035	0.0000006906
PCB_86_87_97_108_119_125	-.0000060878	-.0000002767	-.0000021912	0.0000012503	-.0000087968

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_195	0.0000000010	0.0000002200	0.0000000005	0.0000010932	-.0000000025
PCB_196	0.0000000015	0.0000003069	0.0000000008	0.0000015404	-.0000000030
PCB_201	0.0000000007	0.0000001298	0.0000000004	0.0000006526	-.0000000014
PCB_202	0.0000000010	0.0000001876	0.0000000005	0.0000009605	-.0000000021
PCB_203	0.0000000029	0.0000005910	0.0000000016	0.0000029685	-.0000000065
PCB_204	0.0000000000	0.0000000009	0.0000000000	0.0000000048	-.0000000000
PCB_205	0.0000000002	0.0000000325	0.0000000001	0.0000001624	-.0000000004
PCB_206	0.0000000012	0.0000002216	0.0000000006	0.0000011477	-.0000000025
PCB_207	0.0000000001	0.0000000246	0.0000000001	0.0000001290	-.0000000003
PCB_208	0.0000000004	0.0000000755	0.0000000002	0.0000003948	-.0000000008
PCB_209	0.0000000008	0.0000001371	0.0000000004	0.0000007010	-.0000000019
PCB_12_13	-.0000000000	-.0000000160	-.0000000000	-.0000000624	0.0000000003
PCB_107_124	-.0000000005	0.0000000032	-.0000000002	0.0000000415	0.0000000033
PCB_110_115	-.0000000094	-.0000026276	-.0000000111	-.0000206449	-.0000001637
PCB_128_166	-.0000000005	0.0000007152	-.0000000007	0.0000037142	0.0000000206
PCB_129_138_163	0.0000000122	0.0000068348	0.0000000072	0.0000369756	0.0000001074
PCB_134_143	0.0000000003	0.0000000831	0.0000000006	0.0000004543	0.0000000041
PCB_135_151	0.0000000117	0.0000033382	0.0000000074	0.0000162759	-.0000000190
PCB_139_140	-.0000000003	0.0000000392	-.0000000002	0.0000002791	0.0000000041
PCB_147_149	0.0000000229	0.0000069908	0.0000000110	0.0000322491	-.0000000937
PCB_153_168	0.0000000146	0.0000050172	0.0000000070	0.0000296947	0.0000000834
PCB_156_157	-.0000000013	0.0000003162	-.0000000006	0.0000017319	0.0000000189
PCB_171_173	0.0000000020	0.0000005573	0.0000000011	0.0000027994	-.0000000014
PCB_18_30	-.0000000011	-.0000003993	-.0000000009	-.0000022703	-.0000000079
PCB_180_193	0.0000000155	0.0000035057	0.0000000087	0.0000179709	-.0000000194
PCB_183_185	0.0000000062	0.0000013922	0.0000000035	0.0000072549	-.0000000044
PCB_197_200	0.0000000005	0.0000001074	0.0000000003	0.0000005292	-.0000000012
PCB_198_199	0.0000000046	0.0000009259	0.0000000025	0.0000045919	-.0000000113
PCB_20_28	-.0000000018	-.0000007671	-.0000000001	-.0000034768	0.0000000017
PCB_21_33	-.0000000001	-.0000000493	-.0000000000	-.0000002563	-.0000000005
PCB_26_29	-.0000000033	-.0000014165	-.0000000018	-.0000065766	0.0000000010
PCB_40_41_71	-.0000000019	-.0000007754	-.0000000010	-.0000042032	-.0000000080
PCB_44_47_65	-.0000000147	-.0000045255	-.0000000055	-.0000225862	0.0000000287
PCB_45_51	-.0000000016	-.0000005206	-.0000000019	-.0000031257	-.0000000158
PCB_49_69	-.0000000220	-.0000072168	-.0000000131	-.0000371833	-.0000000285
PCB_50_53	-.0000000024	-.0000009185	-.0000000013	-.0000048475	-.0000000067
PCB_59_62_75	-.0000000012	-.0000005055	-.0000000005	-.0000023584	0.0000000000
PCB_61_70_74_76	-.0000000057	-.0000017773	-.0000000028	-.0000088578	-.0000000025
PCB_85_117_116	-.0000000028	-.0000001662	-.0000000005	-.0000006104	0.0000000273
PCB_86_87_97_108_119_125	-.0000000105	-.0000024931	-.0000000050	-.0000134606	0.0000000096

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_195	0.0000000000	-.0000000005	-.0000000143	0.0000000007	0.0000000354
PCB_196	-.0000000002	-.0000000006	-.0000000141	0.0000000011	0.0000000698
PCB_201	-.0000000000	-.0000000002	-.0000000077	0.0000000005	0.0000000031
PCB_202	-.0000000001	-.0000000003	-.0000000115	0.0000000007	-.0000000031
PCB_203	-.0000000001	-.0000000011	-.0000000354	0.0000000021	0.0000000534
PCB_204	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000001
PCB_205	0.0000000000	-.0000000001	-.0000000022	0.0000000001	0.0000000035
PCB_206	-.0000000002	-.0000000004	-.0000000144	0.0000000009	-.0000000082
PCB_207	-.0000000000	-.0000000000	-.0000000014	0.0000000001	-.0000000004
PCB_208	-.0000000001	-.0000000001	-.0000000046	0.0000000003	-.0000000066
PCB_209	-.0000000000	-.0000000002	-.0000000126	0.0000000005	-.0000000431
PCB_12_13	-.0000000001	0.0000000000	0.0000000021	-.0000000000	-.0000000042
PCB_107_124	-.0000000009	-.0000000008	0.0000000361	-.0000000002	0.0000004361
PCB_110_115	0.0000000748	0.0000000195	-.0000018004	-.0000000180	-.0000149354
PCB_128_166	-.0000000093	-.0000000073	0.0000002789	0.0000000006	0.0000038006
PCB_129_138_163	-.0000000608	-.0000000464	0.0000015654	0.0000000160	0.0000226789
PCB_134_143	-.0000000011	0.0000000006	0.0000000453	0.0000000005	0.0000003140
PCB_135_151	0.0000000059	-.0000000043	-.0000000420	0.0000000085	0.0000024099
PCB_139_140	-.0000000016	-.0000000008	0.0000000473	-.0000000000	0.0000005157
PCB_147_149	0.0000000250	-.0000000213	-.0000006012	0.0000000130	0.0000034028
PCB_153_168	-.0000000569	-.0000000362	0.0000011841	0.0000000169	0.0000151951
PCB_156_157	-.0000000074	-.0000000054	0.0000002286	-.0000000001	0.0000028410
PCB_171_173	-.0000000010	-.0000000018	0.0000000172	0.0000000016	0.0000006442
PCB_18_30	0.0000000040	0.0000000019	-.0000001037	-.0000000014	-.0000012135
PCB_180_193	-.0000000067	-.0000000099	-.0000000086	0.0000000119	0.0000023974
PCB_183_185	-.0000000037	-.0000000034	0.0000000302	0.0000000050	0.0000011064
PCB_197_200	0.0000000000	-.0000000001	-.0000000063	0.0000000004	0.0000000091
PCB_198_199	0.0000000006	-.0000000015	-.0000000682	0.0000000032	-.0000000152
PCB_20_28	0.0000000039	0.0000000050	-.0000000530	-.0000000013	-.0000016472
PCB_21_33	0.0000000004	0.0000000004	-.0000000093	-.0000000001	-.0000001472
PCB_26_29	0.0000000027	0.0000000071	-.0000000848	-.0000000025	-.0000026802
PCB_40_41_71	0.0000000062	0.0000000063	-.0000001344	-.0000000020	-.0000021728
PCB_44_47_65	0.0000000085	0.0000000263	0.0000000111	-.0000000103	-.0000058183
PCB_45_51	0.0000000068	0.0000000013	-.0000001872	-.0000000024	-.0000017977
PCB_49_69	0.0000000340	0.0000000338	-.0000007326	-.0000000199	-.0000139353
PCB_50_53	0.0000000057	0.0000000067	-.0000001272	-.0000000023	-.0000022201
PCB_59_62_75	0.0000000018	0.0000000027	-.0000000375	-.0000000010	-.0000010317
PCB_61_70_74_76	0.0000000044	0.0000000039	-.0000001376	-.0000000047	-.0000025822
PCB_85_117_116	-.0000000081	-.0000000013	0.0000002826	-.0000000007	0.0000024784
PCB_86_87_97_108_119_125	0.0000000068	0.0000000091	-.0000000301	-.0000000082	-.0000023331

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_195	-.0000000006	0.0000000010	0.0000000010	0.0000000021	0.0000004909
PCB_196	-.0000000007	0.0000000015	0.0000000015	0.0000000045	0.0000006842
PCB_201	-.0000000000	0.0000000007	0.0000000007	0.0000000020	0.0000002894
PCB_202	-.0000000000	0.0000000010	0.0000000010	0.0000000034	0.0000004228
PCB_203	-.0000000009	0.0000000029	0.0000000029	0.0000000079	0.0000013213
PCB_204	-.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000021
PCB_205	-.0000000001	0.0000000002	0.0000000002	0.0000000003	0.0000000727
PCB_206	-.0000000002	0.0000000012	0.0000000012	0.0000000041	0.0000005035
PCB_207	-.0000000000	0.0000000001	0.0000000001	0.0000000005	0.0000000561
PCB_208	0.0000000000	0.0000000004	0.0000000004	0.0000000017	0.0000001718
PCB_209	0.0000000003	0.0000000008	0.0000000008	0.0000000024	0.0000003096
PCB_12_13	0.0000000001	-.0000000000	-.0000000000	0.0000000005	-.0000000317
PCB_107_124	-.0000000038	-.0000000005	-.0000000005	0.0000000005	-.0000000015
PCB_110_115	0.0000001301	-.0000000094	-.0000000094	-.0000003566	-.0000067277
PCB_128_166	-.0000000229	-.0000000005	-.0000000005	0.0000000318	0.0000013894
PCB_129_138_163	-.0000001627	0.0000000122	0.0000000122	0.0000002190	0.0000147915
PCB_134_143	-.0000000007	0.0000000003	0.0000000003	0.0000000073	0.0000001715
PCB_135_151	-.0000000337	0.0000000117	0.0000000117	-.0000000195	0.0000073298
PCB_139_140	-.0000000033	-.0000000003	-.0000000003	0.0000000054	0.0000000732
PCB_147_149	-.0000000716	0.0000000229	0.0000000229	-.0000001441	0.0000152564
PCB_153_168	-.0000001251	0.0000000146	0.0000000146	0.0000002524	0.0000113903
PCB_156_157	-.0000000204	-.0000000013	-.0000000013	0.0000000202	0.0000006014
PCB_171_173	-.0000000056	0.0000000020	0.0000000020	0.0000000072	0.0000012173
PCB_18_30	0.0000000092	-.0000000011	-.0000000011	-.0000000179	-.0000008934
PCB_180_193	-.0000000250	0.0000000155	0.0000000155	0.0000000606	0.0000078417
PCB_183_185	-.0000000090	0.0000000062	0.0000000062	0.0000000323	0.0000031070
PCB_197_200	-.0000000000	0.0000000005	0.0000000005	0.0000000013	0.0000002372
PCB_198_199	-.0000000012	0.0000000046	0.0000000046	0.0000000083	0.0000020690
PCB_20_28	0.0000000012	-.0000000018	-.0000000018	-.0000000217	-.0000014935
PCB_21_33	0.0000000011	-.0000000001	-.0000000001	-.0000000016	-.0000001027
PCB_26_29	0.0000000197	-.0000000033	-.0000000033	-.0000000057	-.0000029571
PCB_40_41_71	0.0000000215	-.0000000019	-.0000000019	-.0000000217	-.0000017291
PCB_44_47_65	0.0000000651	-.0000000147	-.0000000147	-.0000000196	-.0000099843
PCB_45_51	0.0000000111	-.0000000016	-.0000000016	-.0000000337	-.0000011868
PCB_49_69	0.0000001077	-.0000000220	-.0000000220	-.0000001510	-.0000157790
PCB_50_53	0.0000000243	-.0000000024	-.0000000024	-.0000000197	-.0000020412
PCB_59_62_75	0.0000000047	-.0000000012	-.0000000012	-.0000000074	-.0000010360
PCB_61_70_74_76	0.0000000118	-.0000000057	-.0000000057	-.0000000391	-.0000037135
PCB_85_117_116	-.0000000102	-.0000000028	-.0000000028	0.0000000290	-.0000004698
PCB_86_87_97_108_119_125	0.0000000284	-.0000000105	-.0000000105	-.0000000395	-.0000057096

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_195	-.0000000073	0.0000000561	0.0000000099	0.0000010526	0.0000003596
PCB_196	-.0000000094	0.0000000914	0.0000000139	0.0000014806	0.0000005053
PCB_201	-.0000000039	0.0000000283	0.0000000062	0.0000006288	0.0000002198
PCB_202	-.0000000056	0.0000000404	0.0000000091	0.0000009224	0.0000003243
PCB_203	-.0000000185	0.0000001413	0.0000000274	0.0000028555	0.0000009883
PCB_204	-.0000000000	0.0000000003	0.0000000000	0.0000000046	0.0000000016
PCB_205	-.0000000011	0.0000000075	0.0000000015	0.0000001557	0.0000000536
PCB_206	-.0000000067	0.0000000477	0.0000000109	0.0000010986	0.0000003869
PCB_207	-.0000000007	0.0000000059	0.0000000012	0.0000001233	0.0000000435
PCB_208	-.0000000022	0.0000000158	0.0000000038	0.0000003781	0.0000001344
PCB_209	-.0000000044	0.0000000129	0.0000000070	0.0000006768	0.0000002450
PCB_12_13	0.0000000008	-.0000000011	-.0000000005	-.0000000615	-.0000000196
PCB_107_124	0.0000000017	0.0000001688	-.0000000039	-.0000000285	-.0000000845
PCB_110_115	-.0000001382	-.0000078141	-.0000000640	-.0000166075	-.0000037839
PCB_128_166	-.0000000042	0.0000015709	-.0000000004	0.0000029188	0.0000004152
PCB_129_138_163	-.0000000866	0.0000102446	0.0000001317	0.0000315614	0.0000074106
PCB_134_143	0.0000000028	0.0000001625	0.0000000022	0.0000004261	0.0000001085
PCB_135_151	-.0000000948	0.0000013057	0.0000001257	0.0000150449	0.0000048170
PCB_139_140	0.0000000026	0.0000002122	-.0000000022	0.0000001637	-.0000000204
PCB_147_149	-.0000002843	0.0000017449	0.0000002529	0.0000304261	0.0000097115
PCB_153_168	-.0000000275	0.0000074503	0.0000001350	0.0000251430	0.0000065130
PCB_156_157	0.0000000037	0.0000011821	-.0000000100	0.0000012600	-.0000000281
PCB_171_173	-.0000000145	0.0000003473	0.0000000201	0.0000025817	0.0000007946
PCB_18_30	0.0000000014	-.0000005944	-.0000000103	-.0000019732	-.0000005056
PCB_180_193	-.0000000953	0.0000017091	0.0000001465	0.0000169370	0.0000055206
PCB_183_185	-.0000000326	0.0000007518	0.0000000584	0.0000067705	0.0000022039
PCB_197_200	-.0000000034	0.0000000237	0.0000000049	0.0000005114	0.0000001771
PCB_198_199	-.0000000305	0.0000001717	0.0000000432	0.0000044422	0.0000015479
PCB_20_28	0.0000000263	-.0000007195	-.0000000185	-.0000032196	-.0000008529
PCB_21_33	0.0000000008	-.0000000659	-.0000000010	-.0000002184	-.0000000527
PCB_26_29	0.0000000454	-.0000012170	-.0000000364	-.0000061126	-.0000016427
PCB_40_41_71	0.0000000140	-.0000010494	-.0000000186	-.0000036929	-.0000009215
PCB_44_47_65	0.0000001531	-.0000029476	-.0000001494	-.0000207167	-.0000061372
PCB_45_51	-.0000000052	-.0000009089	-.0000000140	-.0000027282	-.0000006984
PCB_49_69	0.0000001601	-.0000069069	-.0000002181	-.0000337308	-.0000094825
PCB_50_53	0.0000000190	-.0000010947	-.0000000242	-.0000043316	-.0000011255
PCB_59_62_75	0.0000000158	-.0000004644	-.0000000127	-.0000021830	-.0000005836
PCB_61_70_74_76	0.0000000352	-.0000012412	-.0000000602	-.0000079352	-.0000024044
PCB_85_117_116	0.0000000258	0.0000010089	-.0000000263	-.0000008422	-.0000006677
PCB_86_87_97_108_119_125	0.0000000606	-.0000014120	-.0000001005	-.0000121621	-.0000038910

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_195	0.0000017463	0.0000000841	0.0000001611	0.0000011316	0.0000005871
PCB_196	0.0000024317	0.0000001191	0.0000002257	0.0000015974	0.0000008291
PCB_201	0.0000010672	0.0000000520	0.0000000990	0.0000007002	0.0000003646
PCB_202	0.0000015717	0.0000000768	0.0000001454	0.0000010337	0.0000005393
PCB_203	0.0000047932	0.0000002328	0.0000004436	0.0000031328	0.0000016289
PCB_204	0.0000000078	0.0000000004	0.0000000007	0.0000000052	0.0000000028
PCB_205	0.0000002611	0.0000000126	0.0000000241	0.0000001692	0.0000000879
PCB_206	0.0000018744	0.0000000916	0.0000001729	0.0000012318	0.0000006433
PCB_207	0.0000002095	0.0000000103	0.0000000193	0.0000001386	0.0000000725
PCB_208	0.0000006495	0.0000000320	0.0000000600	0.0000004299	0.0000002249
PCB_209	0.0000012043	0.0000000580	0.0000001107	0.0000007842	0.0000004109
PCB_12_13	-.0000001038	-.0000000043	-.0000000094	-.0000000587	-.0000000298
PCB_107_124	-.0000005714	-.0000000213	-.0000000507	-.0000003315	-.0000001871
PCB_110_115	-.0000092870	-.0000010117	-.0000010786	-.0000115505	-.0000057984
PCB_128_166	0.0000006397	0.0000000923	0.0000000759	0.0000007763	0.0000003079
PCB_129_138_163	0.0000270157	0.0000017086	0.0000026134	0.0000205607	0.0000100823
PCB_134_143	0.0000003365	0.0000000297	0.0000000432	0.0000003694	0.0000001808
PCB_135_151	0.0000231459	0.0000011107	0.0000021706	0.0000150435	0.0000076634
PCB_139_140	-.0000003163	-.0000000046	-.0000000260	-.0000001246	-.0000000763
PCB_147_149	0.0000484155	0.0000021652	0.0000044152	0.0000295323	0.0000150206
PCB_153_168	0.0000246175	0.0000015545	0.0000023478	0.0000189672	0.0000096041
PCB_156_157	-.0000012357	-.0000000099	-.0000000979	-.0000004828	-.0000003304
PCB_171_173	0.0000036583	0.0000001855	0.0000003424	0.0000024379	0.0000012468
PCB_18_30	-.0000018876	-.0000001217	-.0000001880	-.0000015048	-.0000007516
PCB_180_193	0.0000258724	0.0000013010	0.0000024105	0.0000172557	0.0000089127
PCB_183_185	0.0000102077	0.0000005235	0.0000009569	0.0000069199	0.0000035773
PCB_197_200	0.0000008619	0.0000000418	0.0000000801	0.0000005628	0.0000002922
PCB_198_199	0.0000075744	0.0000003635	0.0000007006	0.0000049144	0.0000025531
PCB_20_28	-.0000036653	-.0000001943	-.0000003358	-.0000023628	-.0000011962
PCB_21_33	-.0000002044	-.0000000123	-.0000000193	-.0000001454	-.0000000724
PCB_26_29	-.0000072707	-.0000003709	-.0000006824	-.0000047331	-.0000023550
PCB_40_41_71	-.0000036142	-.0000002137	-.0000003414	-.0000026058	-.0000012986
PCB_44_47_65	-.0000283916	-.0000013890	-.0000025804	-.0000181321	-.0000092425
PCB_45_51	-.0000024182	-.0000001737	-.0000002542	-.0000021492	-.0000010719
PCB_49_69	-.0000407695	-.0000022069	-.0000038526	-.0000282485	-.0000142774
PCB_50_53	-.0000046286	-.0000002616	-.0000004373	-.0000032452	-.0000016241
PCB_59_62_75	-.0000025302	-.0000001325	-.0000002366	-.0000016664	-.0000008338
PCB_61_70_74_76	-.0000108704	-.0000005698	-.0000010323	-.0000073898	-.0000037800
PCB_85_117_116	-.0000044355	-.0000001493	-.0000003748	-.0000023171	-.0000012730
PCB_86_87_97_108_119_125	-.0000180024	-.0000009065	-.0000016584	-.0000120314	-.0000062089

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_195	0.0000007361	0.0000000026	-.0000000058	0.0000000022	0.0000000008
PCB_196	0.0000010306	0.0000000041	-.0000000078	0.0000000032	0.0000000012
PCB_201	0.0000004546	0.0000000011	-.0000000037	0.0000000014	0.0000000005
PCB_202	0.0000006704	0.0000000015	-.0000000055	0.0000000021	0.0000000008
PCB_203	0.0000020336	0.0000000061	-.0000000162	0.0000000063	0.0000000023
PCB_204	0.0000000033	0.0000000000	-.0000000000	0.0000000000	0.0000000000
PCB_205	0.0000001103	0.0000000004	-.0000000009	0.0000000003	0.0000000001
PCB_206	0.0000007989	0.0000000017	-.0000000066	0.0000000025	0.0000000009
PCB_207	0.0000000895	0.0000000002	-.0000000007	0.0000000003	0.0000000001
PCB_208	0.0000002782	0.0000000005	-.0000000023	0.0000000009	0.0000000003
PCB_209	0.0000005147	0.0000000001	-.0000000047	0.0000000016	0.0000000006
PCB_12_13	-.0000000413	-.0000000002	0.0000000004	-.0000000001	-.0000000000
PCB_107_124	-.0000002652	0.0000000103	0.0000000061	-.0000000006	-.0000000003
PCB_110_115	-.0000043458	-.0000003897	-.0000001363	-.0000000311	-.0000000077
PCB_128_166	0.0000001090	0.0000000928	0.0000000313	0.0000000024	0.0000000004
PCB_129_138_163	0.0000106648	0.0000005906	0.0000001148	0.0000000462	0.0000000137
PCB_134_143	0.0000001679	0.0000000082	0.0000000030	0.0000000009	0.0000000003
PCB_135_151	0.0000096699	0.0000000871	-.0000000558	0.0000000295	0.0000000107
PCB_139_140	-.0000001468	0.0000000124	0.0000000059	-.0000000001	-.0000000001
PCB_147_149	0.0000196958	0.0000001386	-.0000001473	0.0000000552	0.0000000208
PCB_153_168	0.0000101368	0.0000004040	0.0000000587	0.0000000436	0.0000000131
PCB_156_157	-.0000006487	0.0000000682	0.0000000307	-.0000000004	-.0000000005
PCB_171_173	0.0000015225	0.0000000196	-.0000000067	0.0000000049	0.0000000017
PCB_18_30	-.0000007909	-.0000000324	-.0000000059	-.0000000034	-.0000000010
PCB_180_193	0.0000109036	0.0000000858	-.0000000662	0.0000000349	0.0000000125
PCB_183_185	0.0000043318	0.0000000378	-.0000000242	0.0000000142	0.0000000050
PCB_197_200	0.0000003661	0.0000000011	-.0000000029	0.0000000011	0.0000000004
PCB_198_199	0.0000032100	0.0000000073	-.0000000265	0.0000000097	0.0000000036
PCB_20_28	-.0000014432	-.0000000411	0.0000000013	-.0000000050	-.0000000017
PCB_21_33	-.0000000795	-.0000000037	-.0000000006	-.0000000003	-.0000000001
PCB_26_29	-.0000028818	-.0000000721	0.0000000020	-.0000000093	-.0000000032
PCB_40_41_71	-.0000014233	-.0000000575	-.0000000079	-.0000000056	-.0000000017
PCB_44_47_65	-.0000114519	-.0000001727	0.0000000535	-.0000000361	-.0000000127
PCB_45_51	-.0000010648	-.0000000481	-.0000000113	-.0000000050	-.0000000015
PCB_49_69	-.0000167417	-.0000003864	0.0000000116	-.0000000588	-.0000000198
PCB_50_53	-.0000018378	-.0000000595	-.0000000053	-.0000000068	-.0000000022
PCB_59_62_75	-.0000010067	-.0000000271	0.0000000004	-.0000000034	-.0000000012
PCB_61_70_74_76	-.0000045649	-.0000000727	0.0000000143	-.0000000155	-.0000000054
PCB_85_117_116	-.0000018908	0.0000000562	0.0000000406	-.0000000039	-.0000000018
PCB_86_87_97_108_119_125	-.0000075535	-.0000000793	0.0000000419	-.0000000247	-.0000000086

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_195	0.0000121925	0.0000000038	0.0000000365	0.0000002182	0.0000000590
PCB_196	0.0000169833	0.0000000053	0.0000000508	0.0000003067	0.0000000830
PCB_201	0.0000074811	0.0000000024	0.0000000212	0.0000001301	0.0000000357
PCB_202	0.0000110432	0.0000000035	0.0000000310	0.0000001891	0.0000000525
PCB_203	0.0000335517	0.0000000105	0.0000000975	0.0000005895	0.0000001612
PCB_204	0.0000000553	0.0000000000	0.0000000002	0.0000000010	0.0000000003
PCB_205	0.0000018254	0.0000000006	0.0000000054	0.0000000320	0.0000000088
PCB_206	0.0000131879	0.0000000042	0.0000000369	0.0000002245	0.0000000626
PCB_207	0.0000014755	0.0000000005	0.0000000041	0.0000000251	0.0000000070
PCB_208	0.0000045787	0.0000000015	0.0000000125	0.0000000771	0.0000000216
PCB_209	0.0000084972	0.0000000027	0.0000000224	0.0000001392	0.0000000391
PCB_12_13	-.0000007035	-.0000000002	-.0000000024	-.0000000137	-.0000000033
PCB_107_124	-.0000043628	-.0000000013	0.0000000025	-.0000000238	-.0000000077
PCB_110_115	-.0000609657	-.0000000398	-.0000005477	-.0000026114	-.0000007856
PCB_128_166	0.0000014745	0.0000000014	0.0000001188	0.0000004032	0.0000001166
PCB_129_138_163	0.0001728827	0.0000000618	0.0000012015	0.0000051729	0.0000014970
PCB_134_143	0.0000021353	0.0000000012	0.0000000137	0.0000000867	0.0000000210
PCB_135_151	0.0001593501	0.0000000473	0.0000005560	0.0000028533	0.0000008110
PCB_139_140	-.0000025515	-.0000000005	0.0000000074	-.0000000005	0.0000000030
PCB_147_149	0.0003323278	0.0000000908	0.0000011686	0.0000060133	0.0000016390
PCB_153_168	0.0001649259	0.0000000620	0.0000008997	0.0000041556	0.0000012446
PCB_156_157	-.0000109185	-.0000000027	0.0000000588	0.0000001671	0.0000000341
PCB_171_173	0.0000250873	0.0000000078	0.0000000929	0.0000005005	0.0000001374
PCB_18_30	-.0000124874	-.0000000048	-.0000000714	-.0000003444	-.0000000971
PCB_180_193	0.0001796739	0.0000000570	0.0000005899	0.0000034289	0.0000009286
PCB_183_185	0.0000709272	0.0000000230	0.0000002327	0.0000013387	0.0000003709
PCB_197_200	0.0000060226	0.0000000019	0.0000000175	0.0000001060	0.0000000289
PCB_198_199	0.0000530224	0.0000000164	0.0000001527	0.0000009250	0.0000002514
PCB_20_28	-.0000239848	-.0000000075	-.0000001168	-.0000006189	-.0000001616
PCB_21_33	-.0000013227	-.0000000004	-.0000000081	-.0000000384	-.0000000105
PCB_26_29	-.0000479924	-.0000000140	-.0000002352	-.0000012260	-.0000003065
PCB_40_41_71	-.0000237941	-.0000000079	-.0000001394	-.0000006983	-.0000001801
PCB_44_47_65	-.0001936261	-.0000000572	-.0000007749	-.0000040017	-.0000010847
PCB_45_51	-.0000159756	-.0000000070	-.0000000952	-.0000004682	-.0000001345
PCB_49_69	-.0002747163	-.0000000893	-.0000012372	-.0000063688	-.0000017270
PCB_50_53	-.0000307656	-.0000000098	-.0000001632	-.0000008598	-.0000002147
PCB_59_62_75	-.0000166583	-.0000000051	-.0000000820	-.0000004241	-.0000001095
PCB_61_70_74_76	-.0000741076	-.0000000239	-.0000002792	-.0000014283	-.0000004183
PCB_85_117_116	-.0000329250	-.0000000083	-.0000000233	-.0000002441	-.0000000769
PCB_86_87_97_108_119_125	-.0001251810	-.0000000398	-.0000004313	-.0000022015	-.0000006590

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_195	0.0000000010	0.0000003989	0.0000002366	0.0000003300	0.0000001450
PCB_196	0.0000000015	0.0000005564	0.0000003300	0.0000004633	0.0000002038
PCB_201	0.0000000007	0.0000002441	0.0000001450	0.0000002038	0.0000000902
PCB_202	0.0000000010	0.0000003614	0.0000002145	0.0000003015	0.0000001336
PCB_203	0.0000000029	0.0000010962	0.0000006506	0.0000009119	0.0000004023
PCB_204	0.0000000000	0.0000000019	0.0000000011	0.0000000016	0.0000000007
PCB_205	0.0000000002	0.0000000595	0.0000000353	0.0000000493	0.0000000217
PCB_206	0.0000000012	0.0000004322	0.0000002564	0.0000003601	0.0000001595
PCB_207	0.0000000001	0.0000000485	0.0000000288	0.0000000405	0.0000000180
PCB_208	0.0000000004	0.0000001503	0.0000000892	0.0000001256	0.0000000558
PCB_209	0.0000000008	0.0000002774	0.0000001649	0.0000002310	0.0000001029
PCB_12_13	-.0000000000	-.0000000217	-.0000000131	-.0000000174	-.0000000075
PCB_107_124	-.0000000004	-.0000001330	-.0000000813	-.0000001128	-.0000000561
PCB_110_115	-.0000000095	-.0000025929	-.0000014384	-.0000025463	-.0000009996
PCB_128_166	-.0000000003	0.0000001253	0.0000000623	0.0000001044	0.0000000013
PCB_129_138_163	0.0000000134	0.0000062290	0.0000035770	0.0000051457	0.0000019940
PCB_134_143	0.0000000003	0.0000000770	0.0000000445	0.0000000798	0.0000000331
PCB_135_151	0.0000000118	0.0000050518	0.0000029956	0.0000041848	0.0000018168
PCB_139_140	-.0000000002	-.0000000711	-.0000000444	-.0000000564	-.0000000303
PCB_147_149	0.0000000235	0.0000105677	0.0000062652	0.0000084988	0.0000036573
PCB_153_168	0.0000000151	0.0000058596	0.0000033947	0.0000049623	0.0000020332
PCB_156_157	-.0000000011	-.0000002828	-.0000001796	-.0000002340	-.0000001409
PCB_171_173	0.0000000020	0.0000008227	0.0000004865	0.0000006841	0.0000002942
PCB_18_30	-.0000000011	-.0000004415	-.0000002553	-.0000003800	-.0000001546
PCB_180_193	0.0000000156	0.0000059233	0.0000035050	0.0000049380	0.0000021509
PCB_183_185	0.0000000062	0.0000023390	0.0000013842	0.0000019640	0.0000008576
PCB_197_200	0.0000000005	0.0000001959	0.0000001164	0.0000001633	0.0000000721
PCB_198_199	0.0000000046	0.0000017248	0.0000010242	0.0000014322	0.0000006322
PCB_20_28	-.0000000019	-.0000008448	-.0000004985	-.0000006823	-.0000002797
PCB_21_33	-.0000000001	-.0000000455	-.0000000267	-.0000000382	-.0000000152
PCB_26_29	-.0000000035	-.0000016093	-.0000009466	-.0000013062	-.0000005334
PCB_40_41_71	-.0000000020	-.0000008395	-.0000004874	-.0000006941	-.0000002760
PCB_44_47_65	-.0000000152	-.0000064394	-.0000037922	-.0000051997	-.0000021969
PCB_45_51	-.0000000017	-.0000005846	-.0000003346	-.0000005203	-.0000002124
PCB_49_69	-.0000000227	-.0000093192	-.0000054612	-.0000077238	-.0000032272
PCB_50_53	-.0000000025	-.0000010567	-.0000006180	-.0000008777	-.0000003551
PCB_59_62_75	-.0000000013	-.0000005713	-.0000003356	-.0000004635	-.0000001896
PCB_61_70_74_76	-.0000000058	-.0000023935	-.0000014234	-.0000020295	-.0000008783
PCB_85_117_116	-.0000000026	-.0000009862	-.0000005980	-.0000007878	-.0000003761
PCB_86_87_97_108_119_125	-.0000000105	-.0000041232	-.0000024297	-.0000034059	-.0000014798

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_195	0.0000002145	0.0000006506	0.0000000011	0.0000000353	0.0000002564
PCB_196	0.0000003015	0.0000009119	0.0000000016	0.0000000493	0.0000003601
PCB_201	0.0000001336	0.0000004023	0.0000000007	0.0000000217	0.0000001595
PCB_202	0.0000001982	0.0000005957	0.0000000010	0.0000000321	0.0000002369
PCB_203	0.0000005957	0.0000017990	0.0000000031	0.0000000973	0.0000007118
PCB_204	0.0000000010	0.0000000031	0.0000000000	0.0000000002	0.0000000012
PCB_205	0.0000000321	0.0000000973	0.0000000002	0.0000000053	0.0000000384
PCB_206	0.0000002369	0.0000007118	0.0000000012	0.0000000384	0.0000002834
PCB_207	0.0000000267	0.0000000800	0.0000000001	0.0000000043	0.0000000319
PCB_208	0.0000000830	0.0000002485	0.0000000004	0.0000000134	0.0000000993
PCB_209	0.0000001531	0.0000004585	0.0000000008	0.0000000247	0.0000001831
PCB_12_13	-.0000000108	-.0000000344	-.0000000000	-.0000000019	-.0000000129
PCB_107_124	-.0000000850	-.0000002394	-.0000000005	-.0000000126	-.0000001023
PCB_110_115	-.0000014867	-.0000043656	-.0000000097	-.0000002105	-.0000017418
PCB_128_166	-.0000000110	0.0000000793	-.0000000002	0.0000000061	-.0000000190
PCB_129_138_163	0.0000029061	0.0000093773	0.0000000143	0.0000005137	0.0000034395
PCB_134_143	0.0000000473	0.0000001399	0.0000000003	0.0000000066	0.0000000534
PCB_135_151	0.0000026602	0.0000081953	0.0000000126	0.0000004486	0.0000031625
PCB_139_140	-.0000000459	-.0000001289	-.0000000002	-.0000000070	-.0000000557
PCB_147_149	0.0000053508	0.0000167303	0.0000000252	0.0000009309	0.0000063910
PCB_153_168	0.0000030054	0.0000092689	0.0000000159	0.0000004976	0.0000035815
PCB_156_157	-.0000002201	-.0000005709	-.0000000011	-.0000000298	-.0000002673
PCB_171_173	0.0000004321	0.0000013286	0.0000000022	0.0000000723	0.0000005147
PCB_18_30	-.0000002265	-.0000007023	-.0000000012	-.0000000374	-.0000002675
PCB_180_193	0.0000031765	0.0000096542	0.0000000164	0.0000005223	0.0000037919
PCB_183_185	0.0000012677	0.0000038363	0.0000000065	0.0000002067	0.0000015118
PCB_197_200	0.0000001066	0.0000003221	0.0000000005	0.0000000174	0.0000001272
PCB_198_199	0.0000009354	0.0000028287	0.0000000048	0.0000001532	0.0000011175
PCB_20_28	-.0000004104	-.0000012999	-.0000000021	-.0000000719	-.0000004901
PCB_21_33	-.0000000219	-.0000000705	-.0000000001	-.0000000039	-.0000000260
PCB_26_29	-.0000007711	-.0000024787	-.0000000038	-.0000001378	-.0000009163
PCB_40_41_71	-.0000004007	-.0000012847	-.0000000021	-.0000000706	-.0000004779
PCB_44_47_65	-.0000032295	-.0000100919	-.0000000162	-.0000005583	-.0000038684
PCB_45_51	-.0000003134	-.0000009505	-.0000000017	-.0000000490	-.0000003675
PCB_49_69	-.0000047343	-.0000147363	-.0000000241	-.0000008024	-.0000056337
PCB_50_53	-.0000005136	-.0000016401	-.0000000027	-.0000000902	-.0000006123
PCB_59_62_75	-.0000002763	-.0000008801	-.0000000014	-.0000000487	-.0000003287
PCB_61_70_74_76	-.0000012865	-.0000039350	-.0000000061	-.0000002132	-.0000015265
PCB_85_117_116	-.0000005633	-.0000016615	-.0000000028	-.0000000917	-.0000006819
PCB_86_87_97_108_119_125	-.0000021956	-.0000066702	-.0000000111	-.0000003622	-.0000026252

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_195	0.0000000288	0.0000000892	0.0000001649	-.0000000131	-.0000000813
PCB_196	0.0000000405	0.0000001256	0.0000002310	-.0000000174	-.0000001128
PCB_201	0.0000000180	0.0000000558	0.0000001029	-.0000000075	-.0000000561
PCB_202	0.0000000267	0.0000000830	0.0000001531	-.0000000108	-.0000000850
PCB_203	0.0000000800	0.0000002485	0.0000004585	-.0000000344	-.0000002394
PCB_204	0.0000000001	0.0000000004	0.0000000008	-.0000000000	-.0000000005
PCB_205	0.0000000043	0.0000000134	0.0000000247	-.0000000019	-.0000000126
PCB_206	0.0000000319	0.0000000993	0.0000001831	-.0000000129	-.0000001023
PCB_207	0.0000000036	0.0000000112	0.0000000206	-.0000000014	-.0000000115
PCB_208	0.0000000112	0.0000000349	0.0000000642	-.0000000043	-.0000000371
PCB_209	0.0000000206	0.0000000642	0.0000001192	-.0000000083	-.0000000738
PCB_12_13	-.0000000014	-.0000000043	-.0000000083	0.0000000013	0.0000000032
PCB_107_124	-.0000000115	-.0000000371	-.0000000738	0.0000000032	0.0000001210
PCB_110_115	-.0000002154	-.0000006525	-.0000008229	-.0000000824	-.0000018976
PCB_128_166	-.0000000018	-.0000000146	-.0000000686	-.0000000125	0.0000006856
PCB_129_138_163	0.0000003905	0.0000011615	0.0000018491	-.0000001885	0.0000029801
PCB_134_143	0.0000000065	0.0000000202	0.0000000273	0.0000000020	0.0000000324
PCB_135_151	0.0000003523	0.0000010896	0.0000019973	-.0000001849	-.0000006089
PCB_139_140	-.0000000061	-.0000000198	-.0000000439	0.0000000029	0.0000001094
PCB_147_149	0.0000007038	0.0000021639	0.0000040695	-.0000004593	-.0000012809
PCB_153_168	0.0000004111	0.0000012466	0.0000020610	-.0000001355	0.0000014089
PCB_156_157	-.0000000297	-.0000000998	-.0000002206	0.0000000043	0.0000006226
PCB_171_173	0.0000000578	0.0000001779	0.0000003216	-.0000000283	-.0000000599
PCB_18_30	-.0000000308	-.0000000935	-.0000001504	0.0000000086	-.0000001244
PCB_180_193	0.0000004268	0.0000013201	0.0000024019	-.0000001855	-.0000008762
PCB_183_185	0.0000001707	0.0000005287	0.0000009564	-.0000000689	-.0000003408
PCB_197_200	0.0000000143	0.0000000444	0.0000000820	-.0000000062	-.0000000431
PCB_198_199	0.0000001254	0.0000003896	0.0000007210	-.0000000555	-.0000003887
PCB_20_28	-.0000000549	-.0000001655	-.0000002989	0.0000000367	-.0000001181
PCB_21_33	-.0000000029	-.0000000087	-.0000000146	0.0000000020	-.0000000168
PCB_26_29	-.0000001016	-.0000003064	-.0000005465	0.0000000709	-.0000002185
PCB_40_41_71	-.0000000539	-.0000001611	-.0000002688	0.0000000300	-.0000002495
PCB_44_47_65	-.0000004304	-.0000013136	-.0000024052	0.0000002554	0.0000001475
PCB_45_51	-.0000000430	-.0000001318	-.0000002020	0.0000000016	-.0000001868
PCB_49_69	-.0000006344	-.0000019360	-.0000033957	0.0000003023	-.0000006641
PCB_50_53	-.0000000688	-.0000002067	-.0000003528	0.0000000405	-.0000002183
PCB_59_62_75	-.0000000367	-.0000001107	-.0000001971	0.0000000235	-.0000000817
PCB_61_70_74_76	-.0000001721	-.0000005313	-.0000009537	0.0000000829	0.0000001282
PCB_85_117_116	-.0000000750	-.0000002372	-.0000004846	0.0000000425	0.0000006789
PCB_86_87_97_108_119_125	-.0000002953	-.0000009126	-.0000016583	0.0000001254	0.0000004886

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_195	-.0000014384	0.0000000623	0.0000035770	0.0000000445	0.0000029956
PCB_196	-.0000025463	0.0000001044	0.0000051457	0.0000000798	0.0000041848
PCB_201	-.0000009996	0.0000000013	0.0000019940	0.0000000331	0.0000018168
PCB_202	-.0000014867	-.0000000110	0.0000029061	0.0000000473	0.0000026602
PCB_203	-.0000043656	0.0000000793	0.0000093773	0.0000001399	0.0000081953
PCB_204	-.0000000097	-.0000000002	0.0000000143	0.0000000003	0.0000000126
PCB_205	-.0000002105	0.0000000061	0.0000005137	0.0000000066	0.0000004486
PCB_206	-.0000017418	-.0000000190	0.0000034395	0.0000000534	0.0000031625
PCB_207	-.0000002154	-.0000000018	0.0000003905	0.0000000065	0.0000003523
PCB_208	-.0000006525	-.0000000146	0.0000011615	0.0000000202	0.0000010896
PCB_209	-.0000008229	-.0000000686	0.0000018491	0.0000000273	0.0000019973
PCB_12_13	-.0000000824	-.0000000125	-.0000001885	0.0000000020	-.0000001849
PCB_107_124	-.0000018976	0.0000006856	0.0000029801	0.0000000324	-.0000006089
PCB_110_115	0.0001785771	-.0000206263	-.0001587259	-.0000045862	-.0000267066
PCB_128_166	-.0000206263	0.0000060225	0.0000352977	0.0000003974	0.0000037625
PCB_129_138_163	-.0001587259	0.0000352977	0.0002630382	0.0000035208	0.0000635131
PCB_134_143	-.0000045862	0.0000003974	0.0000035208	0.0000001526	0.0000008932
PCB_135_151	-.0000267066	0.0000037625	0.0000635131	0.0000008932	0.0000441319
PCB_139_140	-.0000031488	0.0000007937	0.0000041403	0.0000000633	-.0000001549
PCB_147_149	-.0000087218	0.0000067020	0.0001192467	0.0000002728	0.0000894527
PCB_153_168	-.0001336571	0.0000230550	0.0001873935	0.0000029737	0.0000524456
PCB_156_157	-.0000156242	0.0000044507	0.0000234938	0.0000003087	-.0000001378
PCB_171_173	-.0000064010	0.0000010103	0.0000124909	0.0000001723	0.0000068271
PCB_18_30	0.0000115331	-.0000017946	-.0000149053	-.0000002963	-.0000042046
PCB_180_193	-.0000386295	0.0000036324	0.0000698410	0.0000010936	0.0000458865
PCB_183_185	-.0000180260	0.0000016190	0.0000289481	0.0000005141	0.0000182600
PCB_197_200	-.0000007687	0.0000000130	0.0000016641	0.0000000264	0.0000014811
PCB_198_199	-.0000058270	-.0000000201	0.0000138785	0.0000002003	0.0000129538
PCB_20_28	0.0000072669	-.0000028017	-.0000215944	-.0000001042	-.0000066945
PCB_21_33	0.0000009433	-.0000002339	-.0000016445	-.0000000189	-.0000004458
PCB_26_29	0.0000150996	-.0000043937	-.0000375183	-.0000003527	-.0000144397
PCB_40_41_71	0.0000162039	-.0000033951	-.0000265286	-.0000003480	-.0000076372
PCB_44_47_65	0.0000353501	-.0000098655	-.0001064006	-.0000006189	-.0000525796
PCB_45_51	0.0000201467	-.0000025381	-.0000219600	-.0000005577	-.0000056391
PCB_49_69	0.0001162493	-.0000217101	-.0002054490	-.0000028574	-.0000801666
PCB_50_53	0.0000171693	-.0000034681	-.0000283090	-.0000003871	-.0000094688
PCB_59_62_75	0.0000057196	-.0000016990	-.0000141312	-.0000001222	-.0000049286
PCB_61_70_74_76	0.0000238681	-.0000039950	-.0000414643	-.0000006536	-.0000209476
PCB_85_117_116	-.0000166979	0.0000036792	0.0000150669	0.0000004110	-.0000058589
PCB_86_87_97_108_119_125	0.0000285016	-.0000036215	-.0000562182	-.0000006932	-.0000330427

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_195	-.0000000444	0.0000062652	0.0000033947	-.0000001796	0.0000004865
PCB_196	-.0000000564	0.0000084988	0.0000049623	-.0000002340	0.0000006841
PCB_201	-.0000000303	0.0000036573	0.0000020332	-.0000001409	0.0000002942
PCB_202	-.0000000459	0.0000053508	0.0000030054	-.0000002201	0.0000004321
PCB_203	-.0000001289	0.0000167303	0.0000092689	-.0000005709	0.0000013286
PCB_204	-.0000000002	0.0000000252	0.0000000159	-.0000000011	0.0000000022
PCB_205	-.0000000070	0.0000009309	0.0000004976	-.0000000298	0.0000000723
PCB_206	-.0000000557	0.0000063910	0.0000035815	-.0000002673	0.0000005147
PCB_207	-.0000000061	0.0000007038	0.0000004111	-.0000000297	0.0000000578
PCB_208	-.0000000198	0.0000021639	0.0000012466	-.0000000998	0.0000001779
PCB_209	-.0000000439	0.0000040695	0.0000020610	-.0000002206	0.0000003216
PCB_12_13	0.0000000029	-.0000004593	-.0000001355	0.0000000043	-.0000000283
PCB_107_124	0.0000001094	-.0000012809	0.0000014089	0.0000006226	-.0000000599
PCB_110_115	-.0000031488	-.0000087218	-.0001336571	-.0000156242	-.0000064010
PCB_128_166	0.0000007937	0.0000067020	0.0000230550	0.0000044507	0.0000010103
PCB_129_138_163	0.0000041403	0.0001192467	0.0001873935	0.0000234938	0.0000124909
PCB_134_143	0.0000000633	0.0000002728	0.0000029737	0.0000003087	0.0000001723
PCB_135_151	-.0000001549	0.0000894527	0.0000524456	-.0000001378	0.0000068271
PCB_139_140	0.0000001224	-.0000008037	0.0000026346	0.0000006386	0.0000000301
PCB_147_149	-.0000008037	0.0002056333	0.0000901424	-.0000011950	0.0000137497
PCB_153_168	0.0000026346	0.0000901424	0.0001473120	0.0000143269	0.0000103327
PCB_156_157	0.0000006386	-.0000011950	0.0000143269	0.0000036741	0.0000002996
PCB_171_173	0.0000000301	0.0000137497	0.0000103327	0.0000002996	0.0000011454
PCB_18_30	-.0000002140	-.0000066600	-.0000115442	-.0000011764	-.0000008046
PCB_180_193	-.0000002440	0.0000918230	0.0000630941	-.0000004629	0.0000076656
PCB_183_185	-.0000000529	0.0000351850	0.0000264617	-.0000000850	0.0000030670
PCB_197_200	-.0000000233	0.0000030072	0.0000016385	-.0000001037	0.0000002384
PCB_198_199	-.0000002267	0.0000267033	0.0000137917	-.0000010018	0.0000020739
PCB_20_28	-.0000002306	-.0000158539	-.0000153639	-.0000015215	-.0000013410
PCB_21_33	-.0000000250	-.0000008761	-.0000012215	-.0000001501	-.0000000889
PCB_26_29	-.0000003334	-.0000320042	-.0000264920	-.0000025423	-.0000025568
PCB_40_41_71	-.0000003520	-.0000152017	-.0000197600	-.0000022610	-.0000014928
PCB_44_47_65	-.0000003515	-.0001187027	-.0000813005	-.0000038400	-.0000090054
PCB_45_51	-.0000003402	-.0000069185	-.0000174123	-.0000017325	-.0000011016
PCB_49_69	-.0000017975	-.0001591752	-.0001581105	-.0000116832	-.0000143128
PCB_50_53	-.0000003252	-.0000190135	-.0000215148	-.0000022512	-.0000017840
PCB_59_62_75	-.0000001396	-.0000109568	-.0000100239	-.0000009625	-.0000009097
PCB_61_70_74_76	-.0000002474	-.0000393649	-.0000346638	-.0000013869	-.0000035417
PCB_85_117_116	0.0000006751	-.0000159452	0.0000079285	0.0000035348	-.0000006397
PCB_86_87_97_108_119_125	-.0000000016	-.0000665610	-.0000484500	-.0000002197	-.0000054677

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_195	-.0000002553	0.0000035050	0.0000013842	0.0000001164	0.0000010242
PCB_196	-.0000003800	0.0000049380	0.0000019640	0.0000001633	0.0000014322
PCB_201	-.0000001546	0.0000021509	0.0000008576	0.0000000721	0.0000006322
PCB_202	-.0000002265	0.0000031765	0.0000012677	0.0000001066	0.0000009354
PCB_203	-.0000007023	0.0000096542	0.0000038363	0.0000003221	0.0000028287
PCB_204	-.0000000012	0.0000000164	0.0000000065	0.0000000005	0.0000000048
PCB_205	-.0000000374	0.0000005223	0.0000002067	0.0000000174	0.0000001532
PCB_206	-.0000002675	0.0000037919	0.0000015118	0.0000001272	0.0000011175
PCB_207	-.0000000308	0.0000004268	0.0000001707	0.0000000143	0.0000001254
PCB_208	-.0000000935	0.0000013201	0.0000005287	0.0000000444	0.0000003896
PCB_209	-.0000001504	0.0000024019	0.0000009564	0.0000000820	0.0000007210
PCB_12_13	0.0000000086	-.0000001855	-.0000000689	-.0000000062	-.0000000555
PCB_107_124	-.0000001244	-.0000008762	-.0000003408	-.0000000431	-.0000003887
PCB_110_115	0.0000115331	-.0000386295	-.0000180260	-.0000007687	-.0000058270
PCB_128_166	-.0000017946	0.0000036324	0.0000016190	0.0000000130	-.0000000201
PCB_129_138_163	-.0000149053	0.0000698410	0.0000289481	0.0000016641	0.0000138785
PCB_134_143	-.0000002963	0.0000010936	0.0000005141	0.0000000264	0.0000002003
PCB_135_151	-.0000042046	0.0000458865	0.0000182600	0.0000014811	0.0000129538
PCB_139_140	-.0000002140	-.0000002440	-.0000000529	-.0000000233	-.0000002267
PCB_147_149	-.0000066600	0.0000918230	0.0000351850	0.0000030072	0.0000267033
PCB_153_168	-.0000115442	0.0000630941	0.0000264617	0.0000016385	0.0000137917
PCB_156_157	-.0000011764	-.0000004629	-.0000000850	-.0000001037	-.0000010018
PCB_171_173	-.0000008046	0.0000076656	0.0000030670	0.0000002384	0.0000020739
PCB_18_30	0.0000009603	-.0000048963	-.0000020705	-.0000001256	-.0000010475
PCB_180_193	-.0000048963	0.0000538777	0.0000215198	0.0000017276	0.0000151002
PCB_183_185	-.0000020705	0.0000215198	0.0000086863	0.0000006872	0.0000059785
PCB_197_200	-.0000001256	0.0000017276	0.0000006872	0.0000000578	0.0000005069
PCB_198_199	-.0000010475	0.0000151002	0.0000059785	0.0000005069	0.0000044589
PCB_20_28	0.0000010808	-.0000081178	-.0000031982	-.0000002302	-.0000019792
PCB_21_33	0.0000000923	-.0000005039	-.0000002062	-.0000000126	-.0000001053
PCB_26_29	0.0000020697	-.0000156124	-.0000060905	-.0000004443	-.0000038612
PCB_40_41_71	0.0000015547	-.0000089270	-.0000035885	-.0000002272	-.0000019441
PCB_44_47_65	0.0000059517	-.0000587669	-.0000228639	-.0000017949	-.0000158040
PCB_45_51	0.0000015172	-.0000068275	-.0000029892	-.0000001707	-.0000013930
PCB_49_69	0.0000125194	-.0000912507	-.0000367569	-.0000026323	-.0000227086
PCB_50_53	0.0000017030	-.0000109507	-.0000043656	-.0000002917	-.0000025128
PCB_59_62_75	0.0000007627	-.0000055447	-.0000021844	-.0000001571	-.0000013570
PCB_61_70_74_76	0.0000026812	-.0000230451	-.0000094554	-.0000007107	-.0000060898
PCB_85_117_116	-.0000008047	-.0000065456	-.0000023424	-.0000002970	-.0000027395
PCB_86_87_97_108_119_125	0.0000036647	-.0000375085	-.0000150607	-.0000011903	-.0000104067

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_195	-.0000004985	-.0000000267	-.0000009466	-.0000004874	-.0000037922
PCB_196	-.0000006823	-.0000000382	-.0000013062	-.0000006941	-.0000051997
PCB_201	-.0000002797	-.0000000152	-.0000005334	-.0000002760	-.0000021969
PCB_202	-.0000004104	-.0000000219	-.0000007711	-.0000004007	-.0000032295
PCB_203	-.0000012999	-.0000000705	-.0000024787	-.0000012847	-.0000100919
PCB_204	-.0000000021	-.0000000001	-.0000000038	-.0000000021	-.0000000162
PCB_205	-.0000000719	-.0000000039	-.0000001378	-.0000000706	-.0000005583
PCB_206	-.0000004901	-.0000000260	-.0000009163	-.0000004779	-.0000038684
PCB_207	-.0000000549	-.0000000029	-.0000001016	-.0000000539	-.0000004304
PCB_208	-.0000001655	-.0000000087	-.0000003064	-.0000001611	-.0000013136
PCB_209	-.0000002989	-.0000000146	-.0000005465	-.0000002688	-.0000024052
PCB_12_13	0.0000000367	0.0000000020	0.0000000709	0.0000000300	0.0000002554
PCB_107_124	-.0000001181	-.0000000168	-.0000002185	-.0000002495	0.0000001475
PCB_110_115	0.0000072669	0.0000009433	0.0000150996	0.0000162039	0.0000353501
PCB_128_166	-.0000028017	-.0000002339	-.0000043937	-.0000033951	-.0000098655
PCB_129_138_163	-.0000215944	-.0000016445	-.0000375183	-.0000265286	-.0001064006
PCB_134_143	-.0000001042	-.0000000189	-.0000003527	-.0000003480	-.0000006189
PCB_135_151	-.0000066945	-.0000004458	-.0000144397	-.0000076372	-.0000525796
PCB_139_140	-.0000002306	-.0000000250	-.0000003334	-.0000003520	-.0000003515
PCB_147_149	-.0000158539	-.0000008761	-.0000320042	-.0000152017	-.0001187027
PCB_153_168	-.0000153639	-.0000012215	-.0000264920	-.0000197600	-.0000813005
PCB_156_157	-.0000015215	-.0000001501	-.0000025423	-.0000022610	-.0000038400
PCB_171_173	-.0000013410	-.0000000889	-.0000025568	-.0000014928	-.0000090054
PCB_18_30	0.0000010808	0.0000000923	0.0000020697	0.0000015547	0.0000059517
PCB_180_193	-.0000081178	-.0000005039	-.0000156124	-.0000089270	-.0000587669
PCB_183_185	-.0000031982	-.0000002062	-.0000060905	-.0000035885	-.0000228639
PCB_197_200	-.0000002302	-.0000000126	-.0000004443	-.0000002272	-.0000017949
PCB_198_199	-.0000019792	-.0000001053	-.0000038612	-.0000019441	-.0000158040
PCB_20_28	0.0000027211	0.0000001547	0.0000039369	0.0000023250	0.0000125456
PCB_21_33	0.0000001547	0.0000000122	0.0000002611	0.0000001820	0.0000007582
PCB_26_29	0.0000039369	0.0000002611	0.0000072703	0.0000043116	0.0000225396
PCB_40_41_71	0.0000023250	0.0000001820	0.0000043116	0.0000030206	0.0000127592
PCB_44_47_65	0.0000125456	0.0000007582	0.0000225396	0.0000127592	0.0000791329
PCB_45_51	0.0000013146	0.0000001233	0.0000026502	0.0000021770	0.0000071841
PCB_49_69	0.0000195498	0.0000013584	0.0000360190	0.0000229209	0.0001163286
PCB_50_53	0.0000025465	0.0000002029	0.0000049613	0.0000033868	0.0000149545
PCB_59_62_75	0.0000015445	0.0000000962	0.0000025931	0.0000015502	0.0000081092
PCB_61_70_74_76	0.0000042914	0.0000003067	0.0000077077	0.0000046532	0.0000264708
PCB_85_117_116	-.0000001645	-.0000000705	-.0000001140	-.0000010343	0.0000052604
PCB_86_87_97_108_119_125	0.0000061059	0.0000003780	0.0000112890	0.0000065221	0.0000430274

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_195	-.0000003346	-.0000054612	-.0000006180	-.0000003356	-.0000014234
PCB_196	-.0000005203	-.0000077238	-.0000008777	-.0000004635	-.0000020295
PCB_201	-.0000002124	-.0000032272	-.0000003551	-.0000001896	-.0000008783
PCB_202	-.0000003134	-.0000047343	-.0000005136	-.0000002763	-.0000012865
PCB_203	-.0000009505	-.0000147363	-.0000016401	-.0000008801	-.0000039350
PCB_204	-.0000000017	-.0000000241	-.0000000027	-.0000000014	-.0000000061
PCB_205	-.0000000490	-.0000008024	-.0000000902	-.0000000487	-.0000002132
PCB_206	-.0000003675	-.0000056337	-.0000006123	-.0000003287	-.0000015265
PCB_207	-.0000000430	-.0000006344	-.0000000688	-.0000000367	-.0000001721
PCB_208	-.0000001318	-.0000019360	-.0000002067	-.0000001107	-.0000005313
PCB_209	-.0000002020	-.0000033957	-.0000003528	-.0000001971	-.0000009537
PCB_12_13	0.0000000016	0.0000003023	0.0000000405	0.0000000235	0.0000000829
PCB_107_124	-.0000001868	-.0000006641	-.0000002183	-.0000000817	0.0000001282
PCB_110_115	0.0000201467	0.0001162493	0.0000171693	0.0000057196	0.0000238681
PCB_128_166	-.0000025381	-.0000217101	-.0000034681	-.0000016990	-.0000039950
PCB_129_138_163	-.0000219600	-.0002054490	-.0000283090	-.0000141312	-.0000414643
PCB_134_143	-.0000005577	-.0000028574	-.0000003871	-.0000001222	-.0000006536
PCB_135_151	-.0000056391	-.0000801666	-.0000094688	-.0000049286	-.0000209476
PCB_139_140	-.0000003402	-.0000017975	-.0000003252	-.0000001396	-.0000002474
PCB_147_149	-.0000069185	-.0001591752	-.0000190135	-.0000109568	-.0000393649
PCB_153_168	-.0000174123	-.0001581105	-.0000215148	-.0000100239	-.0000346638
PCB_156_157	-.0000017325	-.0000116832	-.0000022512	-.0000009625	-.0000013869
PCB_171_173	-.0000011016	-.0000143128	-.0000017840	-.0000009097	-.0000035417
PCB_18_30	0.0000015172	0.0000125194	0.0000017030	0.0000007627	0.0000026812
PCB_180_193	-.0000068275	-.0000912507	-.0000109507	-.0000055447	-.0000230451
PCB_183_185	-.0000029892	-.0000367569	-.0000043656	-.0000021844	-.0000094554
PCB_197_200	-.0000001707	-.0000026323	-.0000002917	-.0000001571	-.0000007107
PCB_198_199	-.0000013930	-.0000227086	-.0000025128	-.0000013570	-.0000060898
PCB_20_28	0.0000013146	0.0000195498	0.0000025465	0.0000015445	0.0000042914
PCB_21_33	0.0000001233	0.0000013584	0.0000002029	0.0000000962	0.0000003067
PCB_26_29	0.0000026502	0.0000360190	0.0000049613	0.0000025931	0.0000077077
PCB_40_41_71	0.0000021770	0.0000229209	0.0000033868	0.0000015502	0.0000046532
PCB_44_47_65	0.0000071841	0.0001163286	0.0000149545	0.0000081092	0.0000264708
PCB_45_51	0.0000025868	0.0000178758	0.0000023340	0.0000009951	0.0000037580
PCB_49_69	0.0000178758	0.0001994927	0.0000260721	0.0000131076	0.0000444543
PCB_50_53	0.0000023340	0.0000260721	0.0000038999	0.0000017370	0.0000054897
PCB_59_62_75	0.0000009951	0.0000131076	0.0000017370	0.0000009647	0.0000028075
PCB_61_70_74_76	0.0000037580	0.0000444543	0.0000054897	0.0000028075	0.0000119576
PCB_85_117_116	-.0000015869	-.0000007958	-.0000007181	-.0000001275	0.0000012967
PCB_86_87_97_108_119_125	0.0000051040	0.0000667889	0.0000077109	0.0000041109	0.0000167347

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_195	-.0000005980	-.0000024297	-.0000002746	-.0000042530	-.0000001554
PCB_196	-.0000007878	-.0000034059	-.0000004241	-.0000058665	-.0000002072
PCB_201	-.0000003761	-.0000014798	-.0000001748	-.0000026742	-.0000000892
PCB_202	-.0000005633	-.0000021956	-.0000002656	-.0000039594	-.0000001332
PCB_203	-.0000016615	-.0000066702	-.0000007830	-.0000118595	-.0000004111
PCB_204	-.0000000028	-.0000000111	-.0000000015	-.0000000193	-.0000000006
PCB_205	-.0000000917	-.0000003622	-.0000000400	-.0000006460	-.0000000230
PCB_206	-.0000006819	-.0000026252	-.0000003153	-.0000047376	-.0000001614
PCB_207	-.0000000750	-.0000002953	-.0000000373	-.0000005276	-.0000000179
PCB_208	-.0000002372	-.0000009126	-.0000001145	-.0000016538	-.0000000547
PCB_209	-.0000004846	-.0000016583	-.0000001773	-.0000031687	-.0000001037
PCB_12_13	0.0000000425	0.0000001254	-.0000000034	0.0000002574	0.0000000113
PCB_107_124	0.0000006789	0.0000004886	-.0000001398	0.0000027868	0.0000000248
PCB_110_115	-.0000166979	0.0000285016	0.0000167716	-.0000222525	0.0000001664
PCB_128_166	0.0000036792	-.0000036215	-.0000021236	0.0000094237	-.0000003318
PCB_129_138_163	0.0000150669	-.0000562182	-.0000185737	0.0000009093	-.0000036874
PCB_134_143	0.0000004110	-.0000006932	-.0000004105	0.0000002107	0.0000000345
PCB_135_151	-.0000058589	-.0000330427	-.0000041199	-.0000526826	-.0000020253
PCB_139_140	0.0000006751	-.0000000016	-.0000002944	0.0000022759	-.0000000009
PCB_147_149	-.0000159452	-.0000665610	-.0000048445	-.0001129164	-.0000050477
PCB_153_168	0.0000079285	-.0000484500	-.0000150738	-.0000175331	-.0000029214
PCB_156_157	0.0000035348	-.0000002197	-.0000013693	0.0000118695	-.0000000403
PCB_171_173	-.0000006397	-.0000054677	-.0000008738	-.0000073556	-.0000003460
PCB_18_30	-.0000008047	0.0000036647	0.0000012411	0.0000010124	0.0000001671
PCB_180_193	-.0000065456	-.0000375085	-.0000055266	-.0000575215	-.0000022664
PCB_183_185	-.0000023424	-.0000150607	-.0000024497	-.0000224323	-.0000008725
PCB_197_200	-.0000002970	-.0000011903	-.0000001373	-.0000021377	-.0000000721
PCB_198_199	-.0000027395	-.0000104067	-.0000011236	-.0000190314	-.0000006431
PCB_20_28	-.0000001645	0.0000061059	0.0000012203	0.0000040014	0.0000005507
PCB_21_33	-.0000000705	0.0000003780	0.0000000998	0.0000001065	0.0000000289
PCB_26_29	-.0000001140	0.0000112890	0.0000020015	0.0000096791	0.0000008227
PCB_40_41_71	-.0000010343	0.0000065221	0.0000017441	0.0000023203	0.0000004325
PCB_44_47_65	0.0000052604	0.0000430274	0.0000060011	0.0000535623	0.0000033260
PCB_45_51	-.0000015869	0.0000051040	0.0000021289	0.0000002934	0.0000001316
PCB_49_69	-.0000007958	0.0000667889	0.0000146029	0.0000588974	0.0000041897
PCB_50_53	-.0000007181	0.0000077109	0.0000017759	0.0000047527	0.0000004963
PCB_59_62_75	-.0000001275	0.0000041109	0.0000008239	0.0000030376	0.0000003142
PCB_61_70_74_76	0.0000012967	0.0000167347	0.0000030138	0.0000212229	0.0000010446
PCB_85_117_116	0.0000047571	0.0000041881	-.0000012705	0.0000192649	0.0000004070
PCB_86_87_97_108_119_125	0.0000041881	0.0000276312	0.0000044511	0.0000390904	0.0000018059

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_88_91	PCB 88/91	0.0000000532	-.0000000016	-.0000000006
PCB_90_101_113	PCB 90/101/113	0.0000004412	-.0000000153	0.0000000439
PCB_93_98_100_102	PCB 93/98/100/102	0.0000000130	-.0000000005	0.0000000009

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_88_91	0.0000014079	0.0000000037	0.0000000379	0.0000000185	0.0000001114
PCB_90_101_113	0.0000044290	-.0000000023	0.0000006845	0.0000001204	0.0000024986
PCB_93_98_100_102	0.0000001860	-.0000000001	0.0000000335	0.0000000048	0.0000000891

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_88_91	0.0000000201	0.0000001294	-.0000000416	-.0000000015	-.0000000288
PCB_90_101_113	0.0000001525	0.0000003825	-.0000001930	-.0000000187	0.0000007999
PCB_93_98_100_102	0.0000000067	0.0000000156	-.0000000070	-.0000000006	0.0000000217

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_88_91	0.0000001034	0.0000020164	0.0000008792	0.0000001953	0.0000000002
PCB_90_101_113	0.0000001725	0.0000045753	0.0000019661	0.0000002440	-.0000000122
PCB_93_98_100_102	0.0000000277	0.0000003045	0.0000001203	0.0000000748	-.0000000001

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_88_91	0.0000000144	0.0000008728	0.0000007401	0.0000007254	0.0000012012
PCB_90_101_113	0.0000000124	0.0000039832	0.0000065509	0.0000031353	0.0000037403
PCB_93_98_100_102	-.0000000067	0.0000003259	0.0000004757	0.0000003395	0.0000002998

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_88_91	0.0000000062	-.0000000007	-.0000000015	-.0000000179	0.0000000132
PCB_90_101_113	0.0000001153	-.0000000125	-.0000000187	0.0000002173	0.0000000009
PCB_93_98_100_102	0.0000000073	-.0000000011	-.0000000006	0.0000000159	0.0000000023

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_88_91	0.0000000061	0.0000016702	-.0000001122	0.0000001311	0.0000000752
PCB_90_101_113	-.0000000026	0.0000015462	0.0000001877	0.0000000013	-.0000005404
PCB_93_98_100_102	0.0000000010	0.0000002952	0.0000000324	0.0000000257	0.0000000132

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_88_91	0.0000209278	0.0000001877	-.0000000015	0.0000003482	0.0000000667
PCB_90_101_113	0.0000559103	0.0000004090	-.0000000187	-.0000023136	0.0000017220
PCB_93_98_100_102	0.0000042725	0.0000000231	-.0000000006	-.0000000083	0.0000000979

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_88_91	0.0000000277	-.0000001169	0.0000000703	0.0000021524	0.0000013717
PCB_90_101_113	0.0000003601	-.0000021795	0.0000012014	-.0000027877	0.0000184339
PCB_93_98_100_102	0.0000000259	-.0000000480	0.0000000726	0.0000001927	0.0000010954

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_88_91	0.0000001839	0.0000002120	0.0000003199	-.0000000015	-.0000000905
PCB_90_101_113	0.0000014612	0.0000035579	0.0000047510	-.0000000187	-.0000009976
PCB_93_98_100_102	0.0000000892	0.0000001885	0.0000002665	-.0000000006	-.0000000216

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_88_91	-.0000000035	0.0000000932	-.0000000015	-.0000000057	0.0000008178
PCB_90_101_113	-.0000000608	0.0000001919	-.0000000187	-.0000001409	-.0000027413
PCB_93_98_100_102	-.0000000020	0.0000000143	-.0000000006	-.0000000034	-.0000000933

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_88_91	0.0000001601	0.0000016615	0.0000000098	-.0000002526	0.0000000057
PCB_90_101_113	0.0000017693	-.0000035128	-.0000004251	0.0000305241	0.0000004022
PCB_93_98_100_102	0.0000001230	0.0000001503	-.0000000104	0.0000013806	0.0000000322

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_88_91	0.0000083948	0.0000000864	-.0000026666	0.0000002956	0.0000000132
PCB_90_101_113	-.0000179970	-.0000000937	0.0000927415	0.0000013138	0.0000000576
PCB_93_98_100_102	0.0000005895	0.0000000099	0.0000030655	0.0000000878	0.0000000034

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_88_91	-.0000015655	-.0000000015	-.0000003194	-.0000000035	-.0000000015
PCB_90_101_113	0.0000266317	-.0000000187	0.0000108032	0.0000003384	-.0000000187
PCB_93_98_100_102	0.0000004018	-.0000000006	0.0000003022	0.0000000172	-.0000000006

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_88_91	-.0000001141	-.0000055618	-.0000000225	-.0000000003	-.0000000305
PCB_90_101_113	0.0000023130	0.0001067991	0.0000012846	0.0000001219	0.0000001446
PCB_93_98_100_102	0.0000000173	0.0000026250	0.0000000560	0.0000000059	-.0000000009

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_88_91	-.0000000040	-.0000000181	-.0000000157	-.0000010391	-.0000000250
PCB_90_101_113	0.0000009520	-.0000001717	0.0000000767	0.0000018717	-.0000001459
PCB_93_98_100_102	0.0000000301	-.0000000045	-.0000000016	-.0000000346	-.0000000006

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_88_91	-.0000005677	-.0000002861	0.0000003151	-.0000004853	-.0000022326
PCB_90_101_113	-.0000117439	0.0000007742	-.0000065669	0.0000087326	-.0000057184
PCB_93_98_100_102	-.0000003888	0.0000000092	-.0000001587	0.0000000116	-.0000005663

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_88_91	-.0000000015	-.0000003742	-.0000000012	-.0000026027	-.0000000132
PCB_90_101_113	-.0000000187	-.0000030388	-.0000000088	-.0000143558	0.0000000911
PCB_93_98_100_102	-.0000000006	-.0000001655	0.0000000001	-.0000009061	0.0000000024

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_88_91	0.0000000076	0.0000000022	-.0000001563	-.0000000021	-.0000014891
PCB_90_101_113	-.0000000274	-.0000000059	0.0000008292	-.0000000103	0.0000061827
PCB_93_98_100_102	0.0000000005	0.0000000016	0.0000000127	-.0000000003	-.0000001686

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_88_91	0.0000000089	-.0000000015	-.0000000015	-.0000000368	-.0000009117
PCB_90_101_113	-.0000000207	-.0000000187	-.0000000187	0.0000000690	-.0000069336
PCB_93_98_100_102	0.0000000029	-.0000000006	-.0000000006	-.0000000009	-.0000003795

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_88_91	-.0000000074	-.0000007730	-.0000000111	-.0000021720	-.0000005633
PCB_90_101_113	0.0000001340	0.0000021686	-.0000001857	-.0000142347	-.0000059335
PCB_93_98_100_102	0.0000000063	-.0000000825	-.0000000060	-.0000007727	-.0000002397

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_88_91	-.0000018423	-.0000001405	-.0000001854	-.0000017043	-.0000008686
PCB_90_101_113	-.0000321250	-.0000013808	-.0000029194	-.0000195824	-.0000103055
PCB_93_98_100_102	-.0000011463	-.0000000529	-.0000000974	-.0000006888	-.0000003597

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_88_91	-.0000008199	-.0000000399	-.0000000088	-.0000000042	-.0000000012
PCB_90_101_113	-.0000137374	0.0000001169	0.0000001706	-.0000000370	-.0000000146
PCB_93_98_100_102	-.0000004547	-.0000000054	0.0000000035	-.0000000014	-.0000000005

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_88_91	-.0000124777	-.0000000060	-.0000000725	-.0000003190	-.0000001081
PCB_90_101_113	-.0002293258	-.0000000659	-.0000004791	-.0000029913	-.0000008771
PCB_93_98_100_102	-.0000079832	-.0000000023	-.0000000286	-.0000001228	-.0000000412

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_88_91	-.0000000015	-.0000004851	-.0000002746	-.0000004241	-.0000001748
PCB_90_101_113	-.0000000183	-.0000070900	-.0000042530	-.0000058665	-.0000026742
PCB_93_98_100_102	-.0000000006	-.0000002635	-.0000001554	-.0000002072	-.0000000892

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_88_91	-.0000002656	-.0000007830	-.0000000015	-.0000000400	-.0000003153
PCB_90_101_113	-.0000039594	-.0000118595	-.0000000193	-.0000006460	-.0000047376
PCB_93_98_100_102	-.0000001332	-.0000004111	-.0000000006	-.0000000230	-.0000001614

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_88_91	-.0000000373	-.0000001145	-.0000001773	-.0000000034	-.0000001398
PCB_90_101_113	-.0000005276	-.0000016538	-.0000031687	0.0000002574	0.0000027868
PCB_93_98_100_102	-.0000000179	-.0000000547	-.0000001037	0.0000000113	0.0000000248

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_ 138_163	PCB_134_143	PCB_135_151
PCB_88_91	0.0000167716	-.0000021236	-.0000185737	-.0000004105	-.0000041199
PCB_90_101_113	-.0000222525	0.0000094237	0.0000009093	0.0000002107	-.0000526826
PCB_93_98_100_102	0.0000001664	-.0000003318	-.0000036874	0.0000000345	-.0000020253

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_88_91	-.0000002944	-.0000048445	-.0000150738	-.0000013693	-.0000008738
PCB_90_101_113	0.0000022759	-.0001129164	-.0000175331	0.0000118695	-.0000073556
PCB_93_98_100_102	-.0000000009	-.0000050477	-.0000029214	-.0000000403	-.0000003460

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_88_91	0.0000012411	-.0000055266	-.0000024497	-.0000001373	-.0000011236
PCB_90_101_113	0.0000010124	-.0000575215	-.0000224323	-.0000021377	-.0000190314
PCB_93_98_100_102	0.0000001671	-.0000022664	-.0000008725	-.0000000721	-.0000006431

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_88_91	0.0000012203	0.0000000998	0.0000020015	0.0000017441	0.0000060011
PCB_90_101_113	0.0000040014	0.0000001065	0.0000096791	0.0000023203	0.0000535623
PCB_93_98_100_102	0.0000005507	0.0000000289	0.0000008227	0.0000004325	0.0000033260

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_88_91	0.0000021289	0.0000146029	0.0000017759	0.0000008239	0.0000030138
PCB_90_101_113	0.0000002934	0.0000588974	0.0000047527	0.0000030376	0.0000212229
PCB_93_98_100_102	0.0000001316	0.0000041897	0.0000004963	0.0000003142	0.0000010446

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_88_91	-.0000012705	0.0000044511	0.0000019369	-.0000000946	0.0000001740
PCB_90_101_113	0.0000192649	0.0000390904	-.0000000946	0.0001030367	0.0000025821
PCB_93_98_100_102	0.0000004070	0.0000018059	0.0000001740	0.0000025821	0.0000001827

Total Variance 0.0027257444

Eigenvalues of the Covariance Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	0.00185091	0.00110697	0.6790	0.6790
2	0.00074394	0.00064284	0.2729	0.9520
3	0.00010110	0.00008897	0.0371	0.9891
4	0.00001213	0.00000252	0.0044	0.9935
5	0.00000961		0.0035	0.9970

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_1	PCB 1	0.001224	-.000053
PCB_2	PCB 2	-.000038	0.000012
PCB_3	PCB 3	0.000059	-.000117
PCB_4	PCB 4	0.022918	0.015693
PCB_5	PCB 5	0.000024	0.000069
PCB_6	PCB 6	0.002050	-.000854
PCB_7	PCB 7	0.000410	0.000033
PCB_8	PCB 8	0.005414	-.004538
PCB_9	PCB 9	0.000516	-.000001
PCB_10	PCB 10	0.001894	0.001388
PCB_11	PCB 11	-.000671	-.000258
PCB_14	PCB 14	-.000043	0.000022
PCB_15	PCB 15	0.001211	-.002375
PCB_16	PCB 16	0.002155	0.001956
PCB_17	PCB 17	0.031037	0.026084
PCB_19	PCB 19	0.013864	0.012560
PCB_22	PCB 22	0.004072	0.003306
PCB_23	PCB 23	-.000007	0.000039
PCB_24	PCB 24	0.000217	0.000475
PCB_25	PCB 25	0.021830	0.007627
PCB_27	PCB 27	0.028125	0.000940
PCB_31	PCB 31	0.019296	0.006592
PCB_32	PCB 32	0.024130	0.014346
PCB_34	PCB 34	0.000403	-.000113
PCB_35	PCB 35	-.000037	0.000016
PCB_36	PCB 36	-.000043	0.000022
PCB_37	PCB 37	0.000560	-.000579
PCB_38	PCB 38	0.000194	0.000245
PCB_39	PCB 39	0.000079	0.000130
PCB_42	PCB 42	0.025674	0.028955
PCB_43	PCB 43	0.000661	-.001292
PCB_46	PCB 46	0.002428	0.003109
PCB_48	PCB 48	0.000601	0.003128
PCB_52	PCB 52	0.377277	0.278810
PCB_54	PCB 54	0.002951	0.002606
PCB_55	PCB 55	-.000043	0.000022
PCB_56	PCB 56	0.000803	0.013182
PCB_57	PCB 57	0.005831	-.002568
PCB_58	PCB 58	0.001490	-.000173
PCB_60	PCB 60	-.004522	0.003461
PCB_63	PCB 63	0.003885	-.001369
PCB_64	PCB 64	0.023039	0.049328

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_1	0.002183	0.009582	0.006151
PCB_2	-.000089	0.000164	-.000093
PCB_3	0.000035	0.001207	0.000710
PCB_4	0.039464	0.032388	-.026211
PCB_5	0.000145	0.000473	0.000135
PCB_6	-.002789	-.000873	-.000395
PCB_7	0.000353	0.000714	0.000587
PCB_8	0.000493	0.013230	0.029330
PCB_9	0.000126	0.000754	0.000588
PCB_10	0.004304	0.004280	0.003513
PCB_11	-.002256	0.003461	-.001346
PCB_14	-.000094	0.000206	-.000050
PCB_15	-.001338	0.008354	0.001472
PCB_16	-.002485	-.001681	-.008589
PCB_17	0.033243	0.022933	0.006383
PCB_19	0.019421	0.002418	-.028057
PCB_22	-.011231	-.014540	0.017778
PCB_23	-.000098	-.000009	-.000043
PCB_24	0.002203	-.001754	-.005482
PCB_25	-.028112	-.040166	-.002681
PCB_27	-.046881	-.120778	-.035415
PCB_31	-.042763	-.059409	0.050039
PCB_32	-.009106	-.047379	-.007338
PCB_34	-.000932	-.000322	-.000426
PCB_35	0.000082	0.000279	-.000518
PCB_36	-.000094	0.000206	-.000050
PCB_37	-.003789	0.007517	0.009157
PCB_38	-.000245	0.000125	0.000059
PCB_39	-.000046	0.000245	0.000446
PCB_42	-.003963	-.023893	0.002471
PCB_43	-.010905	-.012293	-.017726
PCB_46	-.002669	-.006394	-.018014
PCB_48	-.004746	-.003734	0.005879
PCB_52	0.089737	0.164518	-.292762
PCB_54	0.003761	0.000617	-.008563
PCB_55	-.000094	0.000206	-.000050
PCB_56	-.002835	0.021439	0.029126
PCB_57	-.016259	-.001515	-.033407
PCB_58	-.003946	-.001055	-.005091
PCB_60	-.010346	0.006578	0.015776
PCB_63	-.007595	-.004480	0.001273
PCB_64	0.008710	0.011154	0.015131

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_66	PCB 66	0.057520	-.018673
PCB_67	PCB 67	0.006149	0.000561
PCB_68	PCB 68	0.011084	-.004353
PCB_72	PCB 72	0.016234	-.004706
PCB_73	PCB 73	-.000043	0.000022
PCB_77	PCB 77	-.002196	0.000991
PCB_78	PCB 78	-.000133	0.000094
PCB_79	PCB 79	0.001346	0.001260
PCB_80	PCB 80	-.000042	0.000023
PCB_81	PCB 81	-.000272	0.000221
PCB_82	PCB 82	0.000171	0.021715
PCB_83	PCB 83	0.007621	-.000771
PCB_84	PCB 84	0.017481	0.043151
PCB_89	PCB 89	-.000530	0.001349
PCB_92	PCB 92	0.066093	-.080897
PCB_94	PCB 94	0.001314	-.000770
PCB_95	PCB 95	0.084915	0.208842
PCB_96	PCB 96	0.001102	0.002109
PCB_99	PCB 99	0.148140	-.286721
PCB_103	PCB 103	0.006416	0.002313
PCB_104	PCB 104	0.000246	0.000090
PCB_105	PCB 105	0.013208	-.104930
PCB_106	PCB 106	-.000043	0.000022
PCB_109	PCB 109	0.014615	-.033337
PCB_111	PCB 111	0.000848	-.000898
PCB_112	PCB 112	-.000043	0.000022
PCB_114	PCB 114	0.000339	-.008825
PCB_118	PCB 118	0.109589	-.383624
PCB_120	PCB 120	0.002925	-.003545
PCB_121	PCB 121	0.000295	-.000307
PCB_122	PCB 122	-.000376	-.001043
PCB_123	PCB 123	0.001056	-.003397
PCB_126	PCB 126	-.000356	0.000179
PCB_127	PCB 127	-.000144	-.000545
PCB_130	PCB 130	-.009579	-.024904
PCB_131	PCB 131	-.000661	-.000117
PCB_132	PCB 132	-.025752	0.019856
PCB_133	PCB 133	-.001282	-.007297
PCB_136	PCB 136	-.010108	0.022038
PCB_137	PCB 137	0.002208	-.033743
PCB_141	PCB 141	-.041766	-.029758
PCB_142	PCB 142	-.000043	0.000022

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_66	-.078855	-.088952	0.158264
PCB_67	-.009196	0.019049	-.009069
PCB_68	-.017529	-.014745	-.013358
PCB_72	-.030645	-.012818	-.031645
PCB_73	-.000094	0.000206	-.000050
PCB_77	-.008164	0.009335	0.003876
PCB_78	-.000190	0.000358	-.000167
PCB_79	0.001047	0.010237	0.007830
PCB_80	-.000097	0.000143	-.000058
PCB_81	-.000813	0.000930	0.000270
PCB_82	0.051491	0.039504	0.060150
PCB_83	-.021053	0.011289	-.058370
PCB_84	-.011586	0.076736	-.004512
PCB_89	-.000688	0.003393	-.000613
PCB_92	-.160775	-.126223	-.056264
PCB_94	-.004992	-.007533	0.002082
PCB_95	-.055540	0.189261	-.025717
PCB_96	-.000133	0.001891	-.003652
PCB_99	-.227785	0.003729	-.116019
PCB_103	-.001500	-.012744	-.005329
PCB_104	0.000201	-.000609	0.000795
PCB_105	0.088723	0.001039	0.121283
PCB_106	-.000094	0.000206	-.000050
PCB_109	0.003032	-.027096	0.009495
PCB_111	-.002994	-.000789	-.002125
PCB_112	-.000094	0.000206	-.000050
PCB_114	0.018688	-.007993	0.023826
PCB_118	-.047441	0.510073	0.296827
PCB_120	-.009350	0.003057	-.010870
PCB_121	-.000849	-.000347	-.000450
PCB_122	0.001303	0.001868	0.006758
PCB_123	0.000157	-.003506	0.006273
PCB_126	-.001181	-.002010	-.002608
PCB_127	0.000599	-.000859	-.000170
PCB_130	-.011030	-.022132	0.010097
PCB_131	-.000351	0.001653	0.009597
PCB_132	-.025023	0.071802	-.010501
PCB_133	-.010050	-.009605	-.013057
PCB_136	0.022840	-.053191	0.073662
PCB_137	0.070542	-.080770	-.039231
PCB_141	0.018161	0.044859	-.058296
PCB_142	-.000094	0.000206	-.000050

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_144	PCB 144	-.012008	-.000485
PCB_145	PCB 145	-.000024	0.000002
PCB_146	PCB 146	-.061308	-.016980
PCB_148	PCB 148	0.000025	-.000498
PCB_150	PCB 150	0.000026	0.000205
PCB_152	PCB 152	0.000042	0.000067
PCB_154	PCB 154	-.000406	-.005312
PCB_155	PCB 155	-.000034	-.000011
PCB_158	PCB 158	-.014598	-.047507
PCB_159	PCB 159	0.000142	0.000313
PCB_160	PCB 160	-.000043	0.000022
PCB_161	PCB 161	-.000043	0.000022
PCB_162	PCB 162	-.000143	-.000818
PCB_164	PCB 164	-.026573	-.001619
PCB_165	PCB 165	0.000309	-.000466
PCB_167	PCB 167	-.007839	-.021519
PCB_169	PCB 169	-.000430	0.000256
PCB_170	PCB 170	-.056206	-.008102
PCB_172	PCB 172	-.017186	0.004076
PCB_174	PCB 174	-.078680	0.045079
PCB_175	PCB 175	-.003995	0.000758
PCB_176	PCB 176	-.007346	0.003696
PCB_177	PCB 177	-.052576	0.016898
PCB_178	PCB 178	-.026858	0.009609
PCB_179	PCB 179	-.032692	0.019185
PCB_181	PCB 181	-.000446	-.001135
PCB_182	PCB 182	0.000137	-.000639
PCB_184	PCB 184	-.000107	0.000014
PCB_186	PCB 186	-.000037	0.000015
PCB_187	PCB 187	-.539724	0.339211
PCB_188	PCB 188	-.000169	0.000058
PCB_189	PCB 189	-.002037	-.000312
PCB_190	PCB 190	-.010709	0.000502
PCB_191	PCB 191	-.002982	0.000072
PCB_192	PCB 192	-.000044	0.000021
PCB_194	PCB 194	-.017766	0.009039
PCB_195	PCB 195	-.010480	0.005659
PCB_196	PCB 196	-.014711	0.006875
PCB_201	PCB 201	-.006308	0.003531
PCB_202	PCB 202	-.009280	0.005236
PCB_203	PCB 203	-.028556	0.015523
PCB_204	PCB 204	-.000046	0.000022

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_144	0.012465	-.012988	0.013551
PCB_145	-.000099	-.000063	0.000418
PCB_146	0.011316	-.030670	-.074478
PCB_148	-.000442	-.001123	-.000053
PCB_150	0.000209	-.001010	0.001006
PCB_152	-.000205	-.000993	0.000478
PCB_154	-.002832	-.007958	-.003572
PCB_155	-.000115	0.000125	-.000035
PCB_158	0.051204	-.039237	-.033907
PCB_159	-.000253	0.000428	-.001206
PCB_160	-.000094	0.000206	-.000050
PCB_161	-.000094	0.000206	-.000050
PCB_162	-.002008	0.005124	-.006335
PCB_164	0.016047	-.015795	0.028149
PCB_165	-.001520	-.001579	-.002032
PCB_167	0.009171	0.016252	-.006986
PCB_169	-.000505	0.000394	-.000121
PCB_170	0.010100	0.025269	0.030300
PCB_172	-.008958	0.009804	-.000954
PCB_174	-.032876	0.019179	0.026978
PCB_175	-.003660	0.003045	-.000899
PCB_176	-.004212	-.002709	0.008397
PCB_177	-.050671	0.005076	0.013988
PCB_178	-.029910	0.012277	-.006790
PCB_179	-.025848	-.001230	0.006193
PCB_181	0.001152	-.001464	-.000570
PCB_182	0.000301	-.000835	0.000588
PCB_184	-.000141	0.000038	-.000168
PCB_186	-.000043	0.000005	-.000019
PCB_187	-.336808	0.220466	-.000424
PCB_188	-.000251	0.000192	-.000255
PCB_189	0.001719	-.001049	0.003813
PCB_190	0.000291	0.040475	0.055319
PCB_191	-.000495	0.002337	0.000809
PCB_192	-.000084	0.000201	-.000038
PCB_194	-.011531	0.030823	-.003718
PCB_195	-.006940	0.017524	-.002470
PCB_196	-.013879	0.022090	-.002623
PCB_201	-.007496	0.008530	-.004072
PCB_202	-.011687	0.014267	-.009848
PCB_203	-.028112	0.041235	-.014057
PCB_204	-.000082	0.000204	-.000031

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_205	PCB 205	-.001556	0.000884
PCB_206	PCB 206	-.011062	0.006334
PCB_207	PCB 207	-.001241	0.000669
PCB_208	PCB 208	-.003819	0.002162
PCB_209	PCB 209	-.006890	0.004946
PCB_12_13	PCB 12/13	0.000597	-.000597
PCB_107_124	PCB 107/124	0.001076	-.010473
PCB_110_115	PCB 110/115	0.142351	0.389629
PCB_128_166	PCB 128/166	-.022861	-.069843
PCB_129_138_163	PCB 129/138/163	-.279888	-.366821
PCB_134_143	PCB 134/143	-.003723	-.008766
PCB_135_151	PCB 135/151	-.148030	0.047896
PCB_139_140	PCB 139/140	-.000837	-.011888
PCB_147_149	PCB 147/149	-.299473	0.182403
PCB_153_168	PCB 153/168	-.228319	-.252660
PCB_156_157	PCB 156/157	-.007349	-.061332
PCB_171_173	PCB 171/173	-.024810	0.000836
PCB_18_30	PCB 18/30	0.017803	0.021964
PCB_180_193	PCB 180/193	-.165447	0.037756
PCB_183_185	PCB 183/185	-.066150	0.009348
PCB_197_200	PCB 197/200	-.005116	0.002840
PCB_198_199	PCB 198/199	-.044565	0.027300
PCB_20_28	PCB 20/28	0.029234	0.013226
PCB_21_33	PCB 21/33	0.001927	0.002016
PCB_26_29	PCB 26/29	0.055924	0.018901
PCB_40_41_71	PCB 40/41/71	0.032839	0.031739
PCB_44_47_65	PCB 44/47/65	0.197037	-.014719
PCB_45_51	PCB 45/51	0.024571	0.039372
PCB_49_69	PCB 49/69	0.313990	0.140072
PCB_50_53	PCB 50/53	0.038864	0.028499
PCB_59_62_75	PCB 59/62/75	0.019960	0.008706
PCB_61_70_74_76	PCB 61/70/74/76	0.076054	0.009491
PCB_85_117_116	PCB 85/117/116	0.012876	-.074849
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.119495	-.017362
PCB_88_91	PCB 88/91	0.019830	0.034016
PCB_90_101_113	PCB 90/101/113	0.155213	-.263235
PCB_93_98_100_102	PCB 93/98/100/102	0.007608	-.003428

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_205	-.001197	0.002121	-.000633
PCB_206	-.013885	0.019264	-.013449
PCB_207	-.001727	0.002331	-.001762
PCB_208	-.005698	0.006647	-.005859
PCB_209	-.009386	0.012616	-.012314
PCB_12_13	-.001280	-.000538	-.001234
PCB_107_124	0.017486	-.010950	0.017085
PCB_110_115	0.520299	0.150873	-.146954
PCB_128_166	0.105827	-.035714	-.077510
PCB_129_138_163	0.403925	-.203853	-.265712
PCB_134_143	-.019317	-.026864	0.037087
PCB_135_151	-.012434	-.361896	0.151009
PCB_139_140	0.010026	-.014775	-.013645
PCB_147_149	0.353252	-.176550	0.338164
PCB_153_168	-.017479	0.104920	-.537682
PCB_156_157	0.079816	0.002103	0.056251
PCB_171_173	-.002362	0.003188	0.001295
PCB_18_30	0.008257	0.019220	-.014782
PCB_180_193	-.123095	0.215546	0.017539
PCB_183_185	-.067081	0.051062	-.031274
PCB_197_200	-.005059	0.005324	-.001323
PCB_198_199	-.041234	0.056833	-.005135
PCB_20_28	-.069484	-.127408	0.126539
PCB_21_33	-.002711	-.002060	0.003406
PCB_26_29	-.096866	-.066377	-.118256
PCB_40_41_71	-.032069	-.073947	-.054403
PCB_44_47_65	-.224726	-.365972	0.077389
PCB_45_51	0.041582	0.058889	-.040426
PCB_49_69	-.126855	-.185752	-.121540
PCB_50_53	-.027675	-.087820	-.110910
PCB_59_62_75	-.036373	-.037968	0.006463
PCB_61_70_74_76	0.024039	0.129045	0.165389
PCB_85_117_116	0.032501	-.063887	0.082792
PCB_86_87_97_108_119_125	0.042838	0.006254	0.227571
PCB_88_91	0.034823	0.011753	0.080748
PCB_90_101_113	0.246741	0.143733	0.175462
PCB_93_98_100_102	-.014649	-.019991	0.058539

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Observations	8
Variables	163

Simple Statistics

	PCB_1	PCB_2	PCB_3	PCB_4	PCB_5	PCB_6
Mean	0.0000922446	1.7484591E-6	3.9022719E-6	0.0020342113	9.9038237E-6	0.0002895413
StD	0.0000582816	3.237818E-6	3.18419E-6	0.0011099871	5.6989823E-6	0.0001588489

Simple Statistics

	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11	PCB_14
Mean	0.0000391357	0.0007998899	0.0000661946	0.0001800907	0.0000310176	1.6303709E-6
StD	0.0000216743	0.0005367955	0.0000390565	0.0001034670	0.0000403289	3.2880997E-6

Simple Statistics

	PCB_15	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
Mean	0.0000666301	0.0008956239	0.0049515955	0.0026929275	0.0009222218	5.5169885E-6
StD	0.0000469861	0.0004272774	0.0027462644	0.0015332057	0.0004855710	2.6193367E-6

Simple Statistics

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32	PCB_34
Mean	0.0000050294	0.0012410347	0.0049519640	0.0023845543	0.0038394669	0.0000774904
StD	0.0000128977	0.0006826547	0.0033726732	0.0013327947	0.0019156060	0.0000380741

Simple Statistics

	PCB_35	PCB_36	PCB_37	PCB_38	PCB_39	PCB_42
Mean	1.6303709E-6	0.0002363722	0.0002172738	0.0000209701	0.0000241605	0.0053074682
StD	3.2880997E-6	0.0004336497	0.0001060369	0.0000180292	0.0000068961	0.0020607570

Simple Statistics

	PCB_43	PCB_46	PCB_48	PCB_52	PCB_54	PCB_55
Mean	0.0007385467	0.0015558788	0.0009804662	0.0214058854	0.0003634894	1.6303709E-6
StD	0.0005733781	0.0009720649	0.0002735872	0.0102801256	0.0002414092	3.2880997E-6

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_56	PCB_57	PCB_58	PCB_60	PCB_63	PCB_64
Mean	0.0023683639	0.0003242430	0.0001710510	0.0013468376	0.0008436697	0.0070388366
StD	0.0004115502	0.0001775939	0.0000938858	0.0002981266	0.0001818981	0.0022426500

Simple Statistics

	PCB_66	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
Mean	0.0158025255	0.0002338300	0.0011480299	0.0013559232	0.0000848676	0.0004087194
StD	0.0019447168	0.0001086017	0.0005642974	0.0008319040	0.0001860843	0.0001495317

Simple Statistics

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82	PCB_83
Mean	5.4087021E-6	0.0004371379	1.6303709E-6	0.0000357822	0.0057041645	0.0030941572
StD	8.3599039E-6	0.0000875330	3.2880997E-6	0.0000138351	0.0006847483	0.0008960730

Simple Statistics

	PCB_84	PCB_89	PCB_92	PCB_94	PCB_95	PCB_96
Mean	0.0124521701	0.0003551022	0.0135879540	0.0006484426	0.0363193595	0.0004736836
StD	0.0023800399	0.0001029187	0.0027814067	0.0002570406	0.0085710033	0.0002265721

Simple Statistics

	PCB_99	PCB_103	PCB_104	PCB_105	PCB_106	PCB_109
Mean	0.0401206495	0.0008878738	0.0000304531	0.0197632091	1.6303709E-6	0.0049691296
StD	0.0060687872	0.0004023683	0.0000148761	0.0058523543	3.2880997E-6	0.0009659013

Simple Statistics

	PCB_111	PCB_112	PCB_114	PCB_118	PCB_120	PCB_121
Mean	0.0000991426	1.6303709E-6	0.0014532054	0.0469218155	0.0003236838	0.0000366293
StD	0.0000662318	3.2880997E-6	0.0006583919	0.0079903303	0.0001998556	0.0000216375

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_122	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
Mean	0.0005166783	0.0013168470	0.0001125392	0.0001131679	0.0052023871	0.0011027145
StD	0.0001126066	0.0004570651	0.0000642821	0.0000200795	0.0009808105	0.0002579093

Simple Statistics

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141	PCB_142
Mean	0.0179494755	0.0011854557	0.0061186006	0.0061508745	0.0091104470	2.1045088E-6
StD	0.0051508552	0.0002101699	0.0004898579	0.0016490693	0.0025933402	4.6274892E-6

Simple Statistics

	PCB_144	PCB_145	PCB_146	PCB_148	PCB_150	PCB_152
Mean	0.0028034873	0.0000275500	0.0111338898	0.0000830717	0.0000925029	0.0000707943
StD	0.0006062084	0.0000034332	0.0023068586	0.0000168341	0.0000142257	0.0000103350

Simple Statistics

	PCB_154	PCB_155	PCB_158	PCB_159	PCB_160	PCB_161
Mean	0.0007458946	4.2822961E-6	0.0093452172	0.0000181171	1.6303709E-6	1.6303709E-6
StD	0.0001366747	2.375829E-6	0.0021233296	0.0000121549	3.2880997E-6	3.2880997E-6

Simple Statistics

	PCB_162	PCB_164	PCB_165	PCB_167	PCB_169	PCB_170
Mean	0.0003136336	0.0044696460	0.0000478279	0.0031040060	0.0000109149	0.0073814719
StD	0.0001116030	0.0009977651	0.0000326411	0.0009930083	0.0000105776	0.0025776957

Simple Statistics

	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
Mean	0.0012476270	0.0044363502	0.0003240638	0.0008636004	0.0037846333	0.0013929446
StD	0.0006443890	0.0027711311	0.0001532148	0.0004189125	0.0019030415	0.0009975073

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
Mean	0.0020176583	0.0001823235	0.0000537778	8.7140298E-6	4.2833858E-6	0.0119047397
StD	0.0014365735	0.0000544620	0.0000158681	4.0854793E-6	2.2549667E-6	0.0106743168

Simple Statistics

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192	PCB_194
Mean	9.9716677E-6	0.0003286722	0.0008634777	0.0003196831	1.7701162E-6	0.0011262266
StD	5.2534142E-6	0.0001126875	0.0004865542	0.0001252716	3.2347325E-6	0.0007310006

Simple Statistics

	PCB_195	PCB_196	PCB_201	PCB_202	PCB_203	PCB_204
Mean	0.0006010271	0.0007615957	0.0002373829	0.0002838764	0.0012651132	1.9718734E-6
StD	0.0003850039	0.0005135425	0.0002181066	0.0003332749	0.0009873533	3.1512462E-6

Simple Statistics

	PCB_205	PCB_206	PCB_207	PCB_208	PCB_209	PCB_12_13
Mean	0.0000754115	0.0004051393	0.0000538938	0.0001212929	0.0001321324	0.0000531645
StD	0.0000514174	0.0004231944	0.0000554469	0.0001590907	0.0002104406	0.0000287362

Simple Statistics

	PCB_107_124	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
Mean	0.0020744709	0.0807839455	0.0141677923	0.0861571307	0.0031703106	0.0173490616
StD	0.0004847352	0.0078371704	0.0034580847	0.0209018283	0.0001947011	0.0039629066

Simple Statistics

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
Mean	0.0018865524	0.0451495369	0.0611721362	0.0097883165	0.0027771565	0.0025360161
StD	0.0004127251	0.0095353055	0.0148242468	0.0036786457	0.0008995954	0.0015185938

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28	PCB_21_33
Mean	0.0121333579	0.0055575103	0.0002526461	0.0013038154	0.0070796735	0.0006795692
StD	0.0070519682	0.0029525360	0.0002281099	0.0012312849	0.0026698759	0.0003112369

Simple Statistics

	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51	PCB_49_69	PCB_50_53
Mean	0.0037940867	0.0096045090	0.0333897531	0.0063227552	0.0313193633	0.0081873856
StD	0.0027993569	0.0038664293	0.0122662606	0.0031833492	0.0156502514	0.0056753858

Simple Statistics

	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113
Mean	0.0025733921	0.0212777276	0.0134502282	0.0450269613	0.0120320564	0.0600076002
StD	0.0017274040	0.0055372594	0.0016438642	0.0080852887	0.0021795154	0.0068333131

Simple Statistics

	PCB_93_98_100_102
Mean	0.0033518533
StD	0.0007856649

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_1	PCB 1	0.0000000034	-.0000000001	0.0000000000
PCB_2	PCB 2	-.0000000001	0.0000000000	0.0000000000
PCB_3	PCB 3	0.0000000000	0.0000000000	0.0000000000
PCB_4	PCB 4	0.0000000475	-.0000000021	-.0000000006
PCB_5	PCB 5	0.0000000003	-.0000000000	0.0000000000
PCB_6	PCB 6	0.0000000074	-.0000000002	0.0000000000
PCB_7	PCB 7	0.0000000011	-.0000000000	0.0000000000
PCB_8	PCB 8	0.0000000286	-.0000000008	0.0000000002
PCB_9	PCB 9	0.0000000019	-.0000000001	0.0000000000
PCB_10	PCB 10	0.0000000040	-.0000000002	-.0000000001
PCB_11	PCB 11	-.0000000004	0.0000000001	0.0000000001
PCB_14	PCB 14	-.0000000001	0.0000000000	0.0000000000
PCB_15	PCB 15	0.0000000024	-.0000000000	0.0000000001
PCB_16	PCB 16	0.0000000104	-.0000000003	-.0000000001
PCB_17	PCB 17	0.0000000393	-.0000000049	-.0000000046
PCB_19	PCB 19	0.0000000343	-.0000000028	-.0000000021
PCB_22	PCB 22	0.0000000111	-.0000000001	0.0000000003
PCB_23	PCB 23	-.0000000000	0.0000000000	0.0000000000
PCB_24	PCB 24	-.0000000004	0.0000000000	0.0000000000
PCB_25	PCB 25	0.0000000064	-.0000000008	-.0000000008
PCB_27	PCB 27	0.0000000170	-.0000000057	-.0000000064
PCB_31	PCB 31	0.0000000254	-.0000000005	0.0000000002
PCB_32	PCB 32	0.0000000248	-.0000000024	-.0000000022
PCB_34	PCB 34	0.0000000004	-.0000000001	-.0000000001
PCB_35	PCB 35	-.0000000001	0.0000000000	0.0000000000
PCB_36	PCB 36	-.0000000057	-.0000000003	-.0000000005
PCB_37	PCB 37	0.0000000033	0.0000000000	0.0000000001
PCB_38	PCB 38	-.0000000002	-.0000000000	-.0000000000
PCB_39	PCB 39	0.0000000001	0.0000000000	0.0000000000
PCB_42	PCB 42	0.0000000053	-.0000000015	-.0000000019
PCB_43	PCB 43	0.0000000040	-.0000000006	-.0000000005
PCB_46	PCB 46	-.0000000082	-.0000000007	-.0000000013
PCB_48	PCB 48	0.0000000002	0.0000000003	0.0000000003
PCB_52	PCB 52	-.0000000531	-.0000000109	-.0000000161
PCB_54	PCB 54	0.0000000013	-.0000000004	-.0000000005
PCB_55	PCB 55	-.0000000001	0.0000000000	0.0000000000
PCB_56	PCB 56	0.0000000031	0.0000000008	0.0000000009
PCB_57	PCB 57	-.0000000008	-.0000000002	-.0000000003
PCB_58	PCB 58	-.0000000014	-.0000000001	-.0000000002
PCB_60	PCB 60	0.0000000027	0.0000000007	0.0000000009

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_1	0.0000000475	0.0000000003	0.0000000074	0.0000000011	0.0000000286
PCB_2	-.0000000021	-.0000000000	-.0000000002	-.0000000000	-.0000000008
PCB_3	-.0000000006	0.0000000000	0.0000000000	0.0000000000	0.0000000002
PCB_4	0.0000012321	0.0000000041	0.0000001715	0.0000000230	0.0000004516
PCB_5	0.0000000041	0.0000000000	0.0000000007	0.0000000001	0.0000000026
PCB_6	0.0000001715	0.0000000007	0.0000000252	0.0000000034	0.0000000690
PCB_7	0.0000000230	0.0000000001	0.0000000034	0.0000000005	0.0000000102
PCB_8	0.0000004516	0.0000000026	0.0000000690	0.0000000102	0.0000002881
PCB_9	0.0000000413	0.0000000002	0.0000000061	0.0000000008	0.0000000184
PCB_10	0.0000001131	0.0000000003	0.0000000157	0.0000000021	0.0000000363
PCB_11	-.0000000220	0.0000000000	-.0000000027	-.0000000003	0.0000000002
PCB_14	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_15	0.0000000367	0.0000000002	0.0000000058	0.0000000008	0.0000000171
PCB_16	0.0000004166	0.0000000013	0.0000000586	0.0000000074	0.0000001097
PCB_17	0.0000025052	0.0000000026	0.0000003160	0.0000000385	0.0000005424
PCB_19	0.0000015244	0.0000000028	0.0000002024	0.0000000255	0.0000004162
PCB_22	0.0000004018	0.0000000014	0.0000000594	0.0000000074	0.0000000791
PCB_23	0.0000000002	0.0000000000	0.0000000001	0.0000000000	-.0000000003
PCB_24	-.0000000086	-.0000000000	-.0000000010	-.0000000001	-.0000000032
PCB_25	0.0000005433	0.0000000004	0.0000000658	0.0000000077	0.0000000665
PCB_27	0.0000026238	-.0000000005	0.0000003045	0.0000000345	0.0000002832
PCB_31	0.0000010605	0.0000000029	0.0000001500	0.0000000181	0.0000001846
PCB_32	0.0000017281	0.0000000024	0.0000002231	0.0000000268	0.0000003004
PCB_34	0.0000000329	0.0000000000	0.0000000041	0.0000000005	0.0000000054
PCB_35	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_36	-.0000000617	-.0000000009	-.0000000093	-.0000000017	-.0000000562
PCB_37	0.0000000808	0.0000000004	0.0000000124	0.0000000016	0.0000000209
PCB_38	0.0000000066	-.0000000000	0.0000000006	0.0000000000	-.0000000029
PCB_39	0.0000000035	0.0000000000	0.0000000006	0.0000000001	0.0000000003
PCB_42	0.0000014039	0.0000000006	0.0000001715	0.0000000188	0.0000000327
PCB_43	0.0000002135	-.0000000003	0.0000000300	0.0000000028	-.0000000100
PCB_46	0.0000005616	-.0000000006	0.0000000607	0.0000000061	-.0000000396
PCB_48	0.0000001340	0.0000000005	0.0000000207	0.0000000024	0.0000000052
PCB_52	0.0000058360	-.0000000078	0.0000005556	0.0000000591	-.0000002300
PCB_54	0.0000001944	0.0000000000	0.0000000230	0.0000000027	0.0000000287
PCB_55	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_56	0.0000000236	0.0000000011	0.0000000121	0.0000000016	0.0000000330
PCB_57	0.0000000835	-.0000000002	0.0000000079	0.0000000007	-.0000000192
PCB_58	0.0000000310	-.0000000002	0.0000000024	0.0000000001	-.0000000140
PCB_60	-.0000000259	0.0000000010	0.0000000051	0.0000000009	0.0000000210

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_1	0.0000000019	0.0000000040	-.0000000004	-.0000000001	0.0000000024
PCB_2	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_3	0.0000000000	-.0000000001	0.0000000001	0.0000000000	0.0000000001
PCB_4	0.0000000413	0.0000001131	-.0000000220	-.0000000022	0.0000000367
PCB_5	0.0000000002	0.0000000003	0.0000000000	-.0000000000	0.0000000002
PCB_6	0.0000000061	0.0000000157	-.0000000027	-.0000000003	0.0000000058
PCB_7	0.0000000008	0.0000000021	-.0000000003	-.0000000000	0.0000000008
PCB_8	0.0000000184	0.0000000363	0.0000000002	-.0000000008	0.0000000171
PCB_9	0.0000000015	0.0000000037	-.0000000006	-.0000000001	0.0000000014
PCB_10	0.0000000037	0.0000000107	-.0000000026	-.0000000002	0.0000000034
PCB_11	-.0000000006	-.0000000026	0.0000000016	0.0000000001	-.0000000006
PCB_14	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_15	0.0000000014	0.0000000034	-.0000000006	-.0000000000	0.0000000022
PCB_16	0.0000000133	0.0000000397	-.0000000071	-.0000000004	0.0000000108
PCB_17	0.0000000727	0.0000002394	-.0000000614	-.0000000050	0.0000000288
PCB_19	0.0000000479	0.0000001445	-.0000000339	-.0000000029	0.0000000254
PCB_22	0.0000000127	0.0000000407	-.0000000098	-.0000000001	0.0000000154
PCB_23	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_24	-.0000000003	-.0000000008	0.0000000003	0.0000000000	-.0000000002
PCB_25	0.0000000136	0.0000000533	-.0000000140	-.0000000009	0.0000000095
PCB_27	0.0000000649	0.0000002591	-.0000000812	-.0000000058	0.0000000218
PCB_31	0.0000000314	0.0000001070	-.0000000262	-.0000000007	0.0000000371
PCB_32	0.0000000491	0.0000001691	-.0000000435	-.0000000026	0.0000000282
PCB_34	0.0000000009	0.0000000032	-.0000000009	-.0000000001	0.0000000004
PCB_35	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_36	-.0000000023	-.0000000036	-.0000000064	-.0000000003	-.0000000071
PCB_37	0.0000000026	0.0000000080	-.0000000016	-.0000000000	0.0000000041
PCB_38	0.0000000000	0.0000000008	-.0000000004	-.0000000000	0.0000000000
PCB_39	0.0000000001	0.0000000004	-.0000000001	0.0000000000	0.0000000002
PCB_42	0.0000000326	0.0000001438	-.0000000448	-.0000000016	0.0000000226
PCB_43	0.0000000055	0.0000000246	-.0000000156	-.0000000007	0.0000000061
PCB_46	0.0000000109	0.0000000580	-.0000000174	-.0000000007	0.0000000009
PCB_48	0.0000000039	0.0000000140	-.0000000015	0.0000000003	0.0000000041
PCB_52	0.0000001004	0.0000005882	-.0000001720	-.0000000111	0.0000000303
PCB_54	0.0000000051	0.0000000189	-.0000000052	-.0000000004	0.0000000011
PCB_55	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_56	0.0000000025	0.0000000016	0.0000000066	0.0000000008	0.0000000066
PCB_57	0.0000000011	0.0000000095	-.0000000053	-.0000000002	0.0000000008
PCB_58	0.0000000002	0.0000000036	-.0000000020	-.0000000001	-.0000000006
PCB_60	0.0000000011	-.0000000028	0.0000000056	0.0000000007	0.0000000050

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_1	0.0000000104	0.0000000393	0.0000000343	0.0000000111	-.0000000000
PCB_2	-.0000000003	-.0000000049	-.0000000028	-.0000000001	0.0000000000
PCB_3	-.0000000001	-.0000000046	-.0000000021	0.0000000003	0.0000000000
PCB_4	0.0000004166	0.0000025052	0.0000015244	0.0000004018	0.0000000002
PCB_5	0.0000000013	0.0000000026	0.0000000028	0.0000000014	0.0000000000
PCB_6	0.0000000586	0.0000003160	0.0000002024	0.0000000594	0.0000000001
PCB_7	0.0000000074	0.0000000385	0.0000000255	0.0000000074	0.0000000000
PCB_8	0.0000001097	0.0000005424	0.0000004162	0.0000000791	-.0000000003
PCB_9	0.0000000133	0.0000000727	0.0000000479	0.0000000127	0.0000000000
PCB_10	0.0000000397	0.0000002394	0.0000001445	0.0000000407	0.0000000000
PCB_11	-.0000000071	-.0000000614	-.0000000339	-.0000000098	0.0000000000
PCB_14	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_15	0.0000000108	0.0000000288	0.0000000254	0.0000000154	0.0000000000
PCB_16	0.0000001826	0.0000010119	0.0000005892	0.0000001887	0.0000000006
PCB_17	0.0000010119	0.0000075420	0.0000041083	0.0000008629	0.0000000012
PCB_19	0.0000005892	0.0000041083	0.0000023507	0.0000005174	0.0000000005
PCB_22	0.0000001887	0.0000008629	0.0000005174	0.0000002358	0.0000000008
PCB_23	0.0000000006	0.0000000012	0.0000000005	0.0000000008	0.0000000000
PCB_24	-.0000000014	-.0000000201	-.0000000114	-.0000000005	0.0000000000
PCB_25	0.0000002486	0.0000016599	0.0000008605	0.0000002500	0.0000000007
PCB_27	0.0000011391	0.0000088478	0.0000045723	0.0000010220	0.0000000019
PCB_31	0.0000005055	0.0000025042	0.0000014444	0.0000006118	0.0000000020
PCB_32	0.0000007625	0.0000050973	0.0000027702	0.0000007403	0.0000000019
PCB_34	0.0000000140	0.0000001022	0.0000000542	0.0000000130	0.0000000000
PCB_35	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_36	-.0000000328	0.0000001592	0.0000000326	-.0000000464	-.0000000003
PCB_37	0.0000000354	0.0000001275	0.0000000808	0.0000000483	0.0000000002
PCB_38	0.0000000041	0.0000000310	0.0000000135	0.0000000051	0.0000000000
PCB_39	0.0000000022	0.0000000079	0.0000000045	0.0000000030	0.0000000000
PCB_42	0.0000007146	0.0000047280	0.0000023614	0.0000007676	0.0000000029
PCB_43	0.0000000915	0.0000007528	0.0000003640	0.0000001241	0.0000000002
PCB_46	0.0000003151	0.0000022467	0.0000011039	0.0000003069	0.0000000012
PCB_48	0.0000000936	0.0000003812	0.0000002147	0.0000001146	0.0000000006
PCB_52	0.0000029085	0.0000212938	0.0000105098	0.0000027541	0.0000000083
PCB_54	0.0000000839	0.0000006492	0.0000003447	0.0000000704	0.0000000001
PCB_55	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_56	0.0000000519	-.0000001591	-.0000000321	0.0000000842	0.0000000007
PCB_57	0.0000000387	0.0000003337	0.0000001520	0.0000000449	0.0000000001
PCB_58	0.0000000191	0.0000001784	0.0000000765	0.0000000189	0.0000000001
PCB_60	0.0000000157	-.0000003030	-.0000001148	0.0000000453	0.0000000005

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_1	-.0000000004	0.0000000064	0.0000000170	0.0000000254	0.0000000248
PCB_2	0.0000000000	-.0000000008	-.0000000057	-.0000000005	-.0000000024
PCB_3	0.0000000000	-.0000000008	-.0000000064	0.0000000002	-.0000000022
PCB_4	-.0000000086	0.0000005433	0.0000026238	0.0000010605	0.0000017281
PCB_5	-.0000000000	0.0000000004	-.0000000005	0.0000000029	0.0000000024
PCB_6	-.0000000010	0.0000000658	0.0000003045	0.0000001500	0.0000002231
PCB_7	-.0000000001	0.0000000077	0.0000000345	0.0000000181	0.0000000268
PCB_8	-.0000000032	0.0000000665	0.0000002832	0.0000001846	0.0000003004
PCB_9	-.0000000003	0.0000000136	0.0000000649	0.0000000314	0.0000000491
PCB_10	-.0000000008	0.0000000533	0.0000002591	0.0000001070	0.0000001691
PCB_11	0.0000000003	-.0000000140	-.0000000812	-.0000000262	-.0000000435
PCB_14	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_15	-.0000000002	0.0000000095	0.0000000218	0.0000000371	0.0000000282
PCB_16	-.0000000014	0.0000002486	0.0000011391	0.0000005055	0.0000007625
PCB_17	-.0000000201	0.0000016599	0.0000088478	0.0000025042	0.0000050973
PCB_19	-.0000000114	0.0000008605	0.0000045723	0.0000014444	0.0000027702
PCB_22	-.0000000005	0.0000002500	0.0000010220	0.0000006118	0.0000007403
PCB_23	0.0000000000	0.0000000007	0.0000000019	0.0000000020	0.0000000019
PCB_24	0.0000000002	-.0000000034	-.0000000234	-.0000000027	-.0000000103
PCB_25	-.0000000034	0.0000004660	0.0000021983	0.0000007787	0.0000012312
PCB_27	-.0000000234	0.0000021983	0.0000113749	0.0000032362	0.0000061470
PCB_31	-.0000000027	0.0000007787	0.0000032362	0.0000017763	0.0000020872
PCB_32	-.0000000103	0.0000012312	0.0000061470	0.0000020872	0.0000036695
PCB_34	-.0000000003	0.0000000246	0.0000001262	0.0000000384	0.0000000715
PCB_35	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_36	-.0000000012	-.0000000280	0.0000001523	-.0000001857	0.0000000404
PCB_37	-.0000000000	0.0000000434	0.0000001477	0.0000001190	0.0000001237
PCB_38	-.0000000000	0.0000000102	0.0000000484	0.0000000156	0.0000000251
PCB_39	0.0000000000	0.0000000029	0.0000000098	0.0000000074	0.0000000082
PCB_42	-.0000000068	0.0000013476	0.0000063561	0.0000022470	0.0000036346
PCB_43	-.0000000025	0.0000002156	0.0000010846	0.0000003997	0.0000005655
PCB_46	-.0000000029	0.0000006270	0.0000030650	0.0000009563	0.0000016786
PCB_48	0.0000000012	0.0000001261	0.0000004795	0.0000003056	0.0000003588
PCB_52	-.0000000465	0.0000062606	0.0000302156	0.0000091979	0.0000156977
PCB_54	-.0000000016	0.0000001500	0.0000007981	0.0000002181	0.0000004412
PCB_55	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_56	0.0000000031	0.0000000234	-.0000002055	0.0000002573	0.0000000109
PCB_57	-.0000000010	0.0000000955	0.0000004890	0.0000001304	0.0000002499
PCB_58	-.0000000003	0.0000000507	0.0000002630	0.0000000616	0.0000001307
PCB_60	0.0000000029	-.0000000512	-.0000004608	0.0000000744	-.0000001192

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_1	0.0000000004	-.0000000001	-.0000000057	0.0000000033	-.0000000002
PCB_2	-.0000000001	0.0000000000	-.0000000003	0.0000000000	-.0000000000
PCB_3	-.0000000001	0.0000000000	-.0000000005	0.0000000001	-.0000000000
PCB_4	0.0000000329	-.0000000022	-.0000000617	0.0000000808	0.0000000066
PCB_5	0.0000000000	-.0000000000	-.0000000009	0.0000000004	-.0000000000
PCB_6	0.0000000041	-.0000000003	-.0000000093	0.0000000124	0.0000000006
PCB_7	0.0000000005	-.0000000000	-.0000000017	0.0000000016	0.0000000000
PCB_8	0.0000000054	-.0000000008	-.0000000562	0.0000000209	-.0000000029
PCB_9	0.0000000009	-.0000000001	-.0000000023	0.0000000026	0.0000000000
PCB_10	0.0000000032	-.0000000002	-.0000000036	0.0000000080	0.0000000008
PCB_11	-.0000000009	0.0000000001	-.0000000064	-.0000000016	-.0000000004
PCB_14	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_15	0.0000000004	-.0000000000	-.0000000071	0.0000000041	0.0000000000
PCB_16	0.0000000140	-.0000000004	-.0000000328	0.0000000354	0.0000000041
PCB_17	0.0000001022	-.0000000050	0.0000001592	0.0000001275	0.0000000310
PCB_19	0.0000000542	-.0000000029	0.0000000326	0.0000000808	0.0000000135
PCB_22	0.0000000130	-.0000000001	-.0000000464	0.0000000483	0.0000000051
PCB_23	0.0000000000	0.0000000000	-.0000000003	0.0000000002	0.0000000000
PCB_24	-.0000000003	0.0000000000	-.0000000012	-.0000000000	-.0000000000
PCB_25	0.0000000246	-.0000000009	-.0000000280	0.0000000434	0.0000000102
PCB_27	0.0000001262	-.0000000058	0.0000001523	0.0000001477	0.0000000484
PCB_31	0.0000000384	-.0000000007	-.0000001857	0.0000001190	0.0000000156
PCB_32	0.0000000715	-.0000000026	0.0000000404	0.0000001237	0.0000000251
PCB_34	0.0000000014	-.0000000001	0.0000000025	0.0000000020	0.0000000005
PCB_35	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_36	0.0000000025	-.0000000003	0.0000001881	-.0000000134	0.0000000016
PCB_37	0.0000000020	-.0000000000	-.0000000134	0.0000000112	0.0000000009
PCB_38	0.0000000005	-.0000000000	0.0000000016	0.0000000009	0.0000000003
PCB_39	0.0000000001	0.0000000000	-.0000000007	0.0000000006	0.0000000001
PCB_42	0.0000000725	-.0000000016	0.0000000895	0.0000001361	0.0000000342
PCB_43	0.0000000133	-.0000000007	0.0000001213	0.0000000206	0.0000000069
PCB_46	0.0000000333	-.0000000007	0.0000000013	0.0000000464	0.0000000154
PCB_48	0.0000000059	0.0000000003	-.0000000362	0.0000000221	0.0000000027
PCB_52	0.0000003099	-.0000000111	-.0000010543	0.0000004288	0.0000001440
PCB_54	0.0000000089	-.0000000004	0.0000000078	0.0000000093	0.0000000030
PCB_55	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_56	-.0000000016	0.0000000008	-.0000001255	0.0000000193	-.0000000010
PCB_57	0.0000000053	-.0000000002	0.0000000263	0.0000000078	0.0000000030
PCB_58	0.0000000029	-.0000000001	0.0000000169	0.0000000025	0.0000000016
PCB_60	-.0000000042	0.0000000007	-.0000000636	0.0000000136	-.0000000019

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_1	0.0000000001	0.0000000053	0.0000000040	-.0000000082	0.0000000002
PCB_2	0.0000000000	-.0000000015	-.0000000006	-.0000000007	0.0000000003
PCB_3	0.0000000000	-.0000000019	-.0000000005	-.0000000013	0.0000000003
PCB_4	0.0000000035	0.0000014039	0.0000002135	0.0000005616	0.0000001340
PCB_5	0.0000000000	0.0000000006	-.0000000003	-.0000000006	0.0000000005
PCB_6	0.0000000006	0.0000001715	0.0000000300	0.0000000607	0.0000000207
PCB_7	0.0000000001	0.0000000188	0.0000000028	0.0000000061	0.0000000024
PCB_8	0.0000000003	0.0000000327	-.0000000100	-.0000000396	0.0000000052
PCB_9	0.0000000001	0.0000000326	0.0000000055	0.0000000109	0.0000000039
PCB_10	0.0000000004	0.0000001438	0.0000000246	0.0000000580	0.0000000140
PCB_11	-.0000000001	-.0000000448	-.0000000156	-.0000000174	-.0000000015
PCB_14	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_15	0.0000000002	0.0000000226	0.0000000061	0.0000000009	0.0000000041
PCB_16	0.0000000022	0.0000007146	0.0000000915	0.0000003151	0.0000000936
PCB_17	0.0000000079	0.0000047280	0.0000007528	0.0000022467	0.0000003812
PCB_19	0.0000000045	0.0000023614	0.0000003640	0.0000011039	0.0000002147
PCB_22	0.0000000030	0.0000007676	0.0000001241	0.0000003069	0.0000001146
PCB_23	0.0000000000	0.0000000029	0.0000000002	0.0000000012	0.0000000006
PCB_24	0.0000000000	-.0000000068	-.0000000025	-.0000000029	0.0000000012
PCB_25	0.0000000029	0.0000013476	0.0000002156	0.0000006270	0.0000001261
PCB_27	0.0000000098	0.0000063561	0.0000010846	0.0000030650	0.0000004795
PCB_31	0.0000000074	0.0000022470	0.0000003997	0.0000009563	0.0000003056
PCB_32	0.0000000082	0.0000036346	0.0000005655	0.0000016786	0.0000003588
PCB_34	0.0000000001	0.0000000725	0.0000000133	0.0000000333	0.0000000059
PCB_35	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_36	-.0000000007	0.0000000895	0.0000001213	0.0000000013	-.0000000362
PCB_37	0.0000000006	0.0000001361	0.0000000206	0.0000000464	0.0000000221
PCB_38	0.0000000001	0.0000000342	0.0000000069	0.0000000154	0.0000000027
PCB_39	0.0000000000	0.0000000098	0.0000000011	0.0000000040	0.0000000018
PCB_42	0.0000000098	0.0000042467	0.0000007652	0.0000018990	0.0000004068
PCB_43	0.0000000011	0.0000007652	0.0000003288	0.0000002564	0.0000000405
PCB_46	0.0000000040	0.0000018990	0.0000002564	0.0000009449	0.0000001845
PCB_48	0.0000000018	0.0000004068	0.0000000405	0.0000001845	0.0000000748
PCB_52	0.0000000319	0.0000172681	0.0000013793	0.0000092206	0.0000015377
PCB_54	0.0000000007	0.0000004230	0.0000000610	0.0000002125	0.0000000342
PCB_55	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_56	0.0000000016	0.0000000288	-.0000000260	0.0000000049	0.0000000702
PCB_57	0.0000000005	0.0000003157	0.0000000665	0.0000001403	0.0000000179
PCB_58	0.0000000002	0.0000001712	0.0000000374	0.0000000789	0.0000000106
PCB_60	0.0000000011	-.0000001292	-.0000000538	-.0000000814	0.0000000398

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_1	-.0000000531	0.0000000013	-.0000000001	0.0000000031	-.0000000008
PCB_2	-.0000000109	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_3	-.0000000161	-.0000000005	0.0000000000	0.0000000009	-.0000000003
PCB_4	0.0000058360	0.0000001944	-.0000000022	0.0000000236	0.0000000835
PCB_5	-.0000000078	0.0000000000	-.0000000000	0.0000000011	-.0000000002
PCB_6	0.0000005556	0.0000000230	-.0000000003	0.0000000121	0.0000000079
PCB_7	0.0000000591	0.0000000027	-.0000000000	0.0000000016	0.0000000007
PCB_8	-.0000002300	0.0000000287	-.0000000008	0.0000000330	-.0000000192
PCB_9	0.0000001004	0.0000000051	-.0000000001	0.0000000025	0.0000000011
PCB_10	0.0000005882	0.0000000189	-.0000000002	0.0000000016	0.0000000095
PCB_11	-.0000001720	-.0000000052	0.0000000001	0.0000000066	-.0000000053
PCB_14	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_15	0.0000000303	0.0000000011	-.0000000000	0.0000000066	0.0000000008
PCB_16	0.0000029085	0.0000000839	-.0000000004	0.0000000519	0.0000000387
PCB_17	0.0000212938	0.0000006492	-.0000000050	-.0000001591	0.0000003337
PCB_19	0.0000105098	0.0000003447	-.0000000029	-.0000000321	0.0000001520
PCB_22	0.0000027541	0.0000000704	-.0000000001	0.0000000842	0.0000000449
PCB_23	0.0000000083	0.0000000001	0.0000000000	0.0000000007	0.0000000001
PCB_24	-.0000000465	-.0000000016	0.0000000000	0.0000000031	-.0000000010
PCB_25	0.0000062606	0.0000001500	-.0000000009	0.0000000234	0.0000000955
PCB_27	0.0000302156	0.0000007981	-.0000000058	-.0000002055	0.0000004890
PCB_31	0.0000091979	0.0000002181	-.0000000007	0.0000002573	0.0000001304
PCB_32	0.0000156977	0.0000004412	-.0000000026	0.0000000109	0.0000002499
PCB_34	0.0000003099	0.0000000089	-.0000000001	-.0000000016	0.0000000053
PCB_35	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_36	-.0000010543	0.0000000078	-.0000000003	-.0000001255	0.0000000263
PCB_37	0.0000004288	0.0000000093	-.0000000000	0.0000000193	0.0000000078
PCB_38	0.0000001440	0.0000000030	-.0000000000	-.0000000010	0.0000000030
PCB_39	0.0000000319	0.0000000007	0.0000000000	0.0000000016	0.0000000005
PCB_42	0.0000172681	0.0000004230	-.0000000016	0.0000000288	0.0000003157
PCB_43	0.0000013793	0.0000000610	-.0000000007	-.0000000260	0.0000000665
PCB_46	0.0000092206	0.0000002125	-.0000000007	0.0000000049	0.0000001403
PCB_48	0.0000015377	0.0000000342	0.0000000003	0.0000000702	0.0000000179
PCB_52	0.0001056810	0.0000021045	-.0000000111	-.0000001305	0.0000013736
PCB_54	0.0000021045	0.0000000583	-.0000000004	-.0000000133	0.0000000308
PCB_55	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_56	-.0000001305	-.0000000133	0.0000000008	0.0000001694	-.0000000284
PCB_57	0.0000013736	0.0000000308	-.0000000002	-.0000000284	0.0000000315
PCB_58	0.0000006920	0.0000000168	-.0000000001	-.0000000118	0.0000000154
PCB_60	-.0000010862	-.0000000302	0.0000000007	0.0000001031	-.0000000282

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_1	-.0000000014	0.0000000027	0.0000000042	0.0000000058	0.0000000389
PCB_2	-.0000000001	0.0000000007	-.0000000004	-.0000000005	-.0000000040
PCB_3	-.0000000002	0.0000000009	-.0000000002	-.0000000007	-.0000000034
PCB_4	0.0000000310	-.0000000259	0.0000001523	0.0000014282	0.0000012913
PCB_5	-.0000000002	0.0000000010	0.0000000002	0.0000000016	0.0000000013
PCB_6	0.0000000024	0.0000000051	0.0000000192	0.0000001838	0.0000001523
PCB_7	0.0000000001	0.0000000009	0.0000000024	0.0000000202	0.0000000195
PCB_8	-.0000000140	0.0000000210	0.0000000354	-.0000000324	0.0000004817
PCB_9	0.0000000002	0.0000000011	0.0000000043	0.0000000334	0.0000000373
PCB_10	0.0000000036	-.0000000028	0.0000000144	0.0000001520	0.0000001074
PCB_11	-.0000000020	0.0000000056	-.0000000045	-.0000000486	-.0000000175
PCB_14	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_15	-.0000000006	0.0000000050	0.0000000033	0.0000000355	0.0000000101
PCB_16	0.0000000191	0.0000000157	0.0000000538	0.0000007856	0.0000003940
PCB_17	0.0000001784	-.0000003030	0.0000004153	0.0000044853	0.0000038503
PCB_19	0.0000000765	-.0000001148	0.0000002140	0.0000022855	0.0000019239
PCB_22	0.0000000189	0.0000000453	0.0000000508	0.0000009456	0.0000001844
PCB_23	0.0000000001	0.0000000005	0.0000000001	0.0000000039	-.0000000006
PCB_24	-.0000000003	0.0000000029	-.0000000015	-.0000000029	-.0000000158
PCB_25	0.0000000507	-.0000000512	0.0000001017	0.0000013838	0.0000008668
PCB_27	0.0000002630	-.0000004608	0.0000005150	0.0000061390	0.0000046637
PCB_31	0.0000000616	0.0000000744	0.0000001465	0.0000026361	0.0000008251
PCB_32	0.0000001307	-.0000001192	0.0000002860	0.0000037258	0.0000023056
PCB_34	0.0000000029	-.0000000042	0.0000000061	0.0000000710	0.0000000536
PCB_35	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_36	0.0000000169	-.0000000636	0.0000000255	-.0000000116	0.0000002009
PCB_37	0.0000000025	0.0000000136	0.0000000097	0.0000001798	0.0000000222
PCB_38	0.0000000016	-.0000000019	0.0000000024	0.0000000363	0.0000000154
PCB_39	0.0000000002	0.0000000011	0.0000000005	0.0000000128	0.0000000002
PCB_42	0.0000001712	-.0000001292	0.0000003120	0.0000044578	0.0000023532
PCB_43	0.0000000374	-.0000000538	0.0000000754	0.0000007596	0.0000005614
PCB_46	0.0000000789	-.0000000814	0.0000001234	0.0000019529	0.0000010141
PCB_48	0.0000000106	0.0000000398	0.0000000163	0.0000005099	0.0000000346
PCB_52	0.0000006920	-.0000010862	0.0000010884	0.0000177826	0.0000092145
PCB_54	0.0000000168	-.0000000302	0.0000000338	0.0000004025	0.0000003183
PCB_55	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_56	-.0000000118	0.0000001031	-.0000000209	0.0000001705	-.0000002274
PCB_57	0.0000000154	-.0000000282	0.0000000257	0.0000003239	0.0000001686
PCB_58	0.0000000088	-.0000000146	0.0000000132	0.0000001662	0.0000001091
PCB_60	-.0000000146	0.0000000889	-.0000000246	-.0000000047	-.0000003240

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_1	0.0000000007	0.0000000015	-.0000000045	0.0000000024	-.0000000009
PCB_2	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000004
PCB_3	-.0000000001	-.0000000012	-.0000000015	0.0000000001	0.0000000003
PCB_4	0.0000000726	0.0000002925	0.0000003825	-.0000000122	0.0000000039
PCB_5	0.0000000000	-.0000000007	-.0000000012	0.0000000003	0.0000000003
PCB_6	0.0000000091	0.0000000286	0.0000000356	-.0000000011	0.0000000032
PCB_7	0.0000000010	0.0000000030	0.0000000031	0.0000000002	0.0000000003
PCB_8	0.0000000034	0.0000000072	-.0000000660	0.0000000456	-.0000000151
PCB_9	0.0000000017	0.0000000056	0.0000000054	0.0000000004	0.0000000001
PCB_10	0.0000000075	0.0000000291	0.0000000412	-.0000000044	0.0000000012
PCB_11	-.0000000024	-.0000000139	-.0000000214	0.0000000062	0.0000000007
PCB_14	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_15	0.0000000016	0.0000000001	0.0000000000	-.0000000010	0.0000000019
PCB_16	0.0000000362	0.0000001040	0.0000001768	-.0000000137	0.0000000259
PCB_17	0.0000002305	0.0000011455	0.0000016646	-.0000000989	0.0000000015
PCB_19	0.0000001170	0.0000005243	0.0000007436	-.0000000515	0.0000000010
PCB_22	0.0000000408	0.0000000803	0.0000001746	-.0000000374	0.0000000454
PCB_23	0.0000000001	-.0000000000	0.0000000004	-.0000000001	0.0000000004
PCB_24	-.0000000004	-.0000000045	-.0000000048	0.0000000003	0.0000000014
PCB_25	0.0000000706	0.0000002803	0.0000004563	-.0000000318	0.0000000268
PCB_27	0.0000003216	0.0000015592	0.0000023870	-.0000001832	0.0000000231
PCB_31	0.0000001285	0.0000002739	0.0000005499	-.0000000908	0.0000001102
PCB_32	0.0000001799	0.0000007495	0.0000011887	-.0000001025	0.0000000661
PCB_34	0.0000000036	0.0000000173	0.0000000262	-.0000000020	0.0000000006
PCB_35	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_36	-.0000000009	0.0000001238	0.0000001523	-.0000000225	-.0000000157
PCB_37	0.0000000072	0.0000000106	0.0000000270	-.0000000060	0.0000000103
PCB_38	0.0000000017	0.0000000081	0.0000000140	-.0000000017	0.0000000009
PCB_39	0.0000000005	0.0000000005	0.0000000019	-.0000000004	0.0000000009
PCB_42	0.0000002142	0.0000008946	0.0000015025	-.0000001366	0.0000001225
PCB_43	0.0000000456	0.0000002252	0.0000003367	-.0000000512	0.0000000158
PCB_46	0.0000000938	0.0000003893	0.0000006696	-.0000000560	0.0000000436
PCB_48	0.0000000208	0.0000000190	0.0000000743	-.0000000121	0.0000000342
PCB_52	0.0000008634	0.0000035627	0.0000061664	-.0000005061	0.0000001752
PCB_54	0.0000000208	0.0000001004	0.0000001517	-.0000000105	0.0000000000
PCB_55	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_56	0.0000000077	-.0000001261	-.0000001393	0.0000000139	0.0000000446
PCB_57	0.0000000152	0.0000000882	0.0000001425	-.0000000190	0.0000000028
PCB_58	0.0000000083	0.0000000476	0.0000000762	-.0000000069	0.0000000024
PCB_60	-.0000000056	-.0000001225	-.0000001484	0.0000000087	0.0000000331

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_1	-.0000000002	0.0000000013	-.0000000001	-.0000000005	0.0000000268
PCB_2	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000009
PCB_3	0.0000000000	-.0000000000	0.0000000000	0.0000000000	0.0000000001
PCB_4	-.0000000037	-.0000000203	-.0000000022	-.0000000092	0.0000002412
PCB_5	-.0000000000	0.0000000000	-.0000000000	-.0000000000	0.0000000018
PCB_6	-.0000000006	-.0000000027	-.0000000003	-.0000000011	0.0000000429
PCB_7	-.0000000001	-.0000000002	-.0000000000	-.0000000002	0.0000000067
PCB_8	-.0000000024	0.0000000178	-.0000000008	-.0000000046	0.0000002597
PCB_9	-.0000000002	-.0000000002	-.0000000001	-.0000000003	0.0000000133
PCB_10	-.0000000003	-.0000000030	-.0000000002	-.0000000008	0.0000000173
PCB_11	-.0000000000	0.0000000017	0.0000000001	0.0000000002	0.0000000011
PCB_14	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_15	-.0000000001	-.0000000005	-.0000000000	-.0000000003	0.0000000141
PCB_16	-.0000000012	-.0000000201	-.0000000004	-.0000000011	0.0000000001
PCB_17	-.0000000054	-.0000001013	-.0000000050	-.0000000143	-.0000001039
PCB_19	-.0000000050	-.0000000463	-.0000000029	-.0000000094	0.0000001171
PCB_22	-.0000000007	-.0000000297	-.0000000001	-.0000000002	-.0000000259
PCB_23	0.0000000000	-.0000000002	0.0000000000	0.0000000000	-.0000000010
PCB_24	0.0000000000	-.0000000002	0.0000000000	0.0000000002	-.0000000035
PCB_25	-.0000000005	-.0000000344	-.0000000009	-.0000000019	-.0000000973
PCB_27	-.0000000029	-.0000001503	-.0000000058	-.0000000140	-.0000004569
PCB_31	-.0000000029	-.0000000707	-.0000000007	-.0000000014	-.0000000067
PCB_32	-.0000000028	-.0000000997	-.0000000026	-.0000000062	-.0000002133
PCB_34	-.0000000000	-.0000000018	-.0000000001	-.0000000002	-.0000000040
PCB_35	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_36	0.0000000021	-.0000000082	-.0000000003	0.0000000005	-.0000001019
PCB_37	-.0000000000	-.0000000057	-.0000000000	-.0000000001	-.0000000040
PCB_38	0.0000000001	-.0000000013	-.0000000000	0.0000000000	-.0000000076
PCB_39	0.0000000000	-.0000000005	0.0000000000	0.0000000000	-.0000000017
PCB_42	0.0000000024	-.0000001361	-.0000000016	-.0000000003	-.0000005832
PCB_43	0.0000000014	-.0000000237	-.0000000007	-.0000000001	-.0000000388
PCB_46	0.0000000001	-.0000000582	-.0000000007	-.0000000001	-.0000003011
PCB_48	-.0000000003	-.0000000178	0.0000000003	0.0000000015	-.0000000606
PCB_52	-.0000000095	-.0000004546	-.0000000111	-.0000000321	-.0000023737
PCB_54	-.0000000005	-.0000000094	-.0000000004	-.0000000011	-.0000000224
PCB_55	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_56	-.0000000015	-.0000000030	0.0000000008	0.0000000025	0.0000000611
PCB_57	0.0000000006	-.0000000112	-.0000000002	-.0000000004	-.0000000651
PCB_58	0.0000000003	-.0000000057	-.0000000001	0.0000000001	-.0000000389
PCB_60	-.0000000005	-.0000000031	0.0000000007	0.0000000022	0.0000000189

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_1	0.0000000002	-.0000000079	-.0000000021	0.0000000189	0.0000000034
PCB_2	-.0000000006	-.0000000016	0.0000000003	-.0000000030	-.0000000004
PCB_3	-.0000000008	-.0000000028	0.0000000002	-.0000000030	-.0000000004
PCB_4	0.0000003616	0.0000011904	-.0000000511	0.0000018167	0.0000001998
PCB_5	-.0000000005	-.0000000011	0.0000000001	0.0000000004	0.0000000001
PCB_6	0.0000000363	0.0000001271	-.0000000051	0.0000002119	0.0000000247
PCB_7	0.0000000033	0.0000000128	-.0000000007	0.0000000236	0.0000000029
PCB_8	-.0000000276	0.0000000520	-.0000000163	0.0000000562	0.0000000361
PCB_9	0.0000000051	0.0000000239	-.0000000014	0.0000000394	0.0000000054
PCB_10	0.0000000360	0.0000001137	-.0000000048	0.0000001843	0.0000000192
PCB_11	-.0000000115	-.0000000200	0.0000000027	-.0000000652	-.0000000057
PCB_14	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_15	0.0000000065	0.0000000045	-.0000000008	0.0000000365	0.0000000029
PCB_16	0.0000001942	0.0000006564	-.0000000038	0.0000008326	0.0000000816
PCB_17	0.0000013635	0.0000045473	-.0000001240	0.0000058572	0.0000006265
PCB_19	0.0000005923	0.0000022434	-.0000000670	0.0000028134	0.0000003223
PCB_22	0.0000002134	0.0000005917	0.0000000024	0.0000009140	0.0000000744
PCB_23	0.0000000009	0.0000000024	0.0000000002	0.0000000030	0.0000000001
PCB_24	-.0000000026	-.0000000068	0.0000000013	-.0000000131	-.0000000018
PCB_25	0.0000005141	0.0000014349	-.0000000178	0.0000017437	0.0000001615
PCB_27	0.0000022243	0.0000065728	-.0000001479	0.0000081841	0.0000008097
PCB_31	0.0000008184	0.0000023166	0.0000000018	0.0000027266	0.0000002474
PCB_32	0.0000010828	0.0000033588	-.0000000567	0.0000044738	0.0000004344
PCB_34	0.0000000236	0.0000000687	-.0000000016	0.0000000928	0.0000000093
PCB_35	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_36	-.0000000375	-.0000003117	-.0000000153	0.0000002002	0.0000000181
PCB_37	0.0000000391	0.0000000822	0.0000000010	0.0000001744	0.0000000116
PCB_38	0.0000000135	0.0000000295	-.0000000004	0.0000000470	0.0000000035
PCB_39	0.0000000027	0.0000000071	0.0000000003	0.0000000111	0.0000000007
PCB_42	0.0000015233	0.0000038607	-.0000000346	0.0000055251	0.0000004718
PCB_43	0.0000003308	0.0000005517	-.0000000171	0.0000011191	0.0000001094
PCB_46	0.0000006778	0.0000019928	-.0000000141	0.0000023612	0.0000002072
PCB_48	0.0000001202	0.0000003890	0.0000000129	0.0000004262	0.0000000324
PCB_52	0.0000066981	0.0000207414	-.0000002856	0.0000220654	0.0000018753
PCB_54	0.0000001325	0.0000004492	-.0000000101	0.0000005184	0.0000000545
PCB_55	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_56	0.0000000495	0.0000002647	0.0000000324	-.0000001226	-.0000000080
PCB_57	0.0000001131	0.0000002326	-.0000000085	0.0000004530	0.0000000343
PCB_58	0.0000000661	0.0000001486	-.0000000027	0.0000002361	0.0000000196
PCB_60	-.0000000748	-.0000001524	0.0000000253	-.0000002789	-.0000000325

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_1	-.0000002678	-.0000000022	-.0000000918	0.0000000001	-.0000000000
PCB_2	0.0000000042	-.0000000002	-.0000000112	-.0000000005	-.0000000000
PCB_3	-.0000000091	-.0000000003	-.0000000139	-.0000000006	-.0000000000
PCB_4	0.0000000639	0.0000001117	-.0000012009	0.0000002202	0.0000000084
PCB_5	-.0000000201	-.0000000003	-.0000000225	-.0000000003	-.0000000000
PCB_6	-.0000001638	0.0000000114	-.0000003153	0.0000000243	0.0000000009
PCB_7	-.0000000391	0.0000000010	-.0000000452	0.0000000024	0.0000000001
PCB_8	-.0000018290	-.0000000197	-.0000012639	-.0000000120	0.0000000007
PCB_9	-.0000000703	0.0000000018	-.0000000775	0.0000000043	0.0000000002
PCB_10	0.0000000238	0.0000000120	-.0000000704	0.0000000230	0.0000000008
PCB_11	0.0000000153	-.0000000047	-.0000001357	-.0000000100	-.0000000003
PCB_14	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_15	-.0000001679	0.0000000001	-.0000000896	0.0000000024	-.0000000001
PCB_16	0.0000012524	0.0000000640	-.0000009817	0.0000001036	0.0000000035
PCB_17	0.0000106634	0.0000004876	0.0000003374	0.0000008367	0.0000000350
PCB_19	0.0000038125	0.0000002276	-.0000006668	0.0000003894	0.0000000169
PCB_22	0.0000009174	0.0000000655	-.0000011027	0.0000001090	0.0000000023
PCB_23	0.0000000120	0.0000000003	-.0000000100	0.0000000003	0.0000000000
PCB_24	0.0000000159	-.0000000008	-.0000000443	-.0000000021	-.0000000001
PCB_25	0.0000038234	0.0000001430	-.0000002632	0.0000002380	0.0000000079
PCB_27	0.0000179144	0.0000006994	0.0000025836	0.0000011817	0.0000000449
PCB_31	0.0000043664	0.0000002112	-.0000028486	0.0000003410	0.0000000084
PCB_32	0.0000083503	0.0000003672	-.0000009743	0.0000006165	0.0000000225
PCB_34	0.0000001739	0.0000000076	0.0000000081	0.0000000133	0.0000000005
PCB_35	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_36	-.0000002178	0.0000000144	0.0000013684	0.0000000592	0.0000000028
PCB_37	0.0000000454	0.0000000100	-.0000002632	0.0000000184	0.0000000002
PCB_38	0.0000001095	0.0000000039	0.0000000252	0.0000000068	0.0000000002
PCB_39	0.0000000219	0.0000000008	-.0000000229	0.0000000012	0.0000000000
PCB_42	0.0000119457	0.0000004497	-.0000004567	0.0000007738	0.0000000243
PCB_43	0.0000011137	0.0000000818	0.0000005989	0.0000001829	0.0000000055
PCB_46	0.0000067207	0.0000002130	0.0000000405	0.0000003321	0.0000000115
PCB_48	0.0000012264	0.0000000376	-.0000009857	0.0000000500	0.0000000010
PCB_52	0.0000646084	0.0000020006	0.0000077956	0.0000029232	0.0000000997
PCB_54	0.0000012014	0.0000000461	0.0000001072	0.0000000746	0.0000000031
PCB_55	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_56	0.0000003754	-.0000000071	-.0000022118	-.0000000366	-.0000000024
PCB_57	0.0000008097	0.0000000359	0.0000004876	0.0000000663	0.0000000020
PCB_58	0.0000005962	0.0000000202	0.0000001740	0.0000000362	0.0000000012
PCB_60	-.0000005564	-.0000000253	-.0000015075	-.0000000553	-.0000000029

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_1	0.0000001713	-.0000000001	0.0000000294	-.0000000002	-.0000000001
PCB_2	-.0000000096	0.0000000000	-.0000000026	-.0000000001	0.0000000000
PCB_3	-.0000000029	0.0000000000	-.0000000016	-.0000000001	0.0000000000
PCB_4	0.0000005569	-.0000000022	0.0000004179	0.0000000178	-.0000000022
PCB_5	0.0000000072	-.0000000000	0.0000000004	-.0000000001	-.0000000000
PCB_6	0.0000001008	-.0000000003	0.0000000537	0.0000000014	-.0000000003
PCB_7	0.0000000249	-.0000000000	0.0000000075	0.0000000001	-.0000000000
PCB_8	0.0000018088	-.0000000008	0.0000002412	-.0000000084	-.0000000008
PCB_9	0.0000000564	-.0000000001	0.0000000152	0.0000000001	-.0000000001
PCB_10	-.0000000087	-.0000000002	0.0000000358	0.0000000022	-.0000000002
PCB_11	0.0000000376	0.0000000001	-.0000000181	-.0000000017	0.0000000001
PCB_14	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_15	0.0000000369	-.0000000000	0.0000000107	0.0000000002	-.0000000000
PCB_16	-.0000008059	-.0000000004	0.0000000031	0.0000000074	-.0000000004
PCB_17	-.0000032277	-.0000000050	0.0000007913	0.0000000820	-.0000000050
PCB_19	-.0000007569	-.0000000029	0.0000004523	0.0000000312	-.0000000029
PCB_22	-.0000013529	-.0000000001	-.0000000567	0.0000000102	-.0000000001
PCB_23	-.0000000127	0.0000000000	-.0000000017	0.0000000000	0.0000000000
PCB_24	-.0000000362	0.0000000000	-.0000000103	-.0000000003	0.0000000000
PCB_25	-.0000017029	-.0000000009	0.0000000674	0.0000000245	-.0000000009
PCB_27	-.0000065591	-.0000000058	0.0000007844	0.0000001283	-.0000000058
PCB_31	-.0000032271	-.0000000007	-.0000000914	0.0000000261	-.0000000007
PCB_32	-.0000043007	-.0000000026	0.0000002593	0.0000000624	-.0000000026
PCB_34	-.0000000726	-.0000000001	0.0000000103	0.0000000014	-.0000000001
PCB_35	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_36	-.0000003405	-.0000000003	0.0000002022	0.0000000165	-.0000000003
PCB_37	-.0000002624	-.0000000000	-.0000000126	0.0000000021	-.0000000000
PCB_38	-.0000000766	-.0000000000	0.0000000002	0.0000000010	-.0000000000
PCB_39	-.0000000292	0.0000000000	-.0000000030	0.0000000001	0.0000000000
PCB_42	-.0000074628	-.0000000016	0.0000000994	0.0000000940	-.0000000016
PCB_43	-.0000009285	-.0000000007	0.0000002823	0.0000000262	-.0000000007
PCB_46	-.0000034423	-.0000000007	-.0000000834	0.0000000360	-.0000000007
PCB_48	-.0000011175	0.0000000003	-.0000001344	0.0000000027	0.0000000003
PCB_52	-.0000263974	-.0000000111	-.0000010775	0.0000003048	-.0000000111
PCB_54	-.0000003738	-.0000000004	0.0000000465	0.0000000071	-.0000000004
PCB_55	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_56	-.0000003925	0.0000000008	-.0000002265	-.0000000144	0.0000000008
PCB_57	-.0000005932	-.0000000002	0.0000000376	0.0000000107	-.0000000002
PCB_58	-.0000003436	-.0000000001	0.0000000147	0.0000000053	-.0000000001
PCB_60	-.0000003415	0.0000000007	-.0000001841	-.0000000105	0.0000000007

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_1	0.0000000252	-.0000001179	-.0000000016	-.0000000001	0.0000000027
PCB_2	-.0000000011	-.0000000156	-.0000000002	-.0000000000	-.0000000001
PCB_3	-.0000000001	-.0000000200	-.0000000003	-.0000000000	0.0000000000
PCB_4	0.0000001686	-.0000021719	0.0000000504	0.0000000064	-.0000000097
PCB_5	0.0000000015	-.0000000294	-.0000000003	-.0000000000	0.0000000002
PCB_6	0.0000000285	-.0000004487	0.0000000040	0.0000000005	-.0000000001
PCB_7	0.0000000052	-.0000000624	0.0000000002	0.0000000000	0.0000000002
PCB_8	0.0000002449	-.0000009539	-.0000000300	-.0000000026	0.0000000317
PCB_9	0.0000000104	-.0000000896	0.0000000002	0.0000000000	0.0000000006
PCB_10	0.0000000094	-.0000001887	0.0000000065	0.0000000007	-.0000000023
PCB_11	0.0000000021	-.0000001016	-.0000000052	-.0000000005	0.0000000020
PCB_14	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_15	0.0000000102	-.0000001909	0.0000000000	-.0000000000	0.0000000003
PCB_16	-.0000000544	-.0000016726	0.0000000251	0.0000000029	-.0000000187
PCB_17	-.0000002685	-.0000003322	0.0000002673	0.0000000327	-.0000001135
PCB_19	-.0000000014	-.0000008944	0.0000001057	0.0000000129	-.0000000435
PCB_22	-.0000000998	-.0000024256	0.0000000327	0.0000000031	-.0000000285
PCB_23	-.0000000013	-.0000000175	0.0000000001	0.0000000000	-.0000000002
PCB_24	-.0000000042	-.0000000592	-.0000000008	-.0000000001	-.0000000003
PCB_25	-.0000001716	-.0000013548	0.0000000741	0.0000000093	-.0000000404
PCB_27	-.0000006941	0.0000003009	0.0000004007	0.0000000495	-.0000001870
PCB_31	-.0000002655	-.0000059176	0.0000000792	0.0000000094	-.0000000665
PCB_32	-.0000003859	-.0000032066	0.0000002023	0.0000000236	-.0000001110
PCB_34	-.0000000070	-.0000000198	0.0000000046	0.0000000005	-.0000000020
PCB_35	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_36	-.0000000507	0.0000019864	0.0000000554	0.0000000053	-.0000000118
PCB_37	-.0000000161	-.0000006183	0.0000000061	0.0000000005	-.0000000053
PCB_38	-.0000000085	-.0000000146	0.0000000030	0.0000000003	-.0000000017
PCB_39	-.0000000026	-.0000000456	0.0000000004	0.0000000000	-.0000000005
PCB_42	-.0000007733	-.0000044510	0.0000002924	0.0000000337	-.0000001618
PCB_43	-.0000001036	0.0000004318	0.0000000796	0.0000000089	-.0000000220
PCB_46	-.0000003807	-.0000014270	0.0000001154	0.0000000139	-.0000000752
PCB_48	-.0000001080	-.0000016914	0.0000000111	0.0000000011	-.0000000184
PCB_52	-.0000028897	-.0000096054	0.0000009074	0.0000001182	-.0000006649
PCB_54	-.0000000384	0.0000000385	0.0000000232	0.0000000029	-.0000000116
PCB_55	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_56	-.0000000309	-.0000027508	-.0000000429	-.0000000045	0.0000000049
PCB_57	-.0000000632	0.0000001563	0.0000000323	0.0000000035	-.0000000154
PCB_58	-.0000000407	0.0000000735	0.0000000164	0.0000000019	-.0000000077
PCB_60	-.0000000175	-.0000019986	-.0000000300	-.0000000038	0.0000000019

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_1	0.0000000224	0.0000000025	0.0000000003	0.0000000399	0.0000000075
PCB_2	-.0000000006	0.0000000001	0.0000000000	-.0000000009	-.0000000002
PCB_3	0.0000000002	0.0000000002	0.0000000000	0.0000000008	0.0000000002
PCB_4	0.0000002517	0.0000000259	-.0000000070	0.0000001251	-.0000000331
PCB_5	0.0000000018	0.0000000003	0.0000000000	0.0000000030	0.0000000005
PCB_6	0.0000000425	0.0000000056	-.0000000005	0.0000000328	-.0000000012
PCB_7	0.0000000066	0.0000000008	-.0000000000	0.0000000069	0.0000000005
PCB_8	0.0000001919	0.0000000199	0.0000000015	0.0000003338	0.0000000631
PCB_9	0.0000000119	0.0000000014	-.0000000001	0.0000000124	0.0000000010
PCB_10	0.0000000210	0.0000000022	-.0000000007	0.0000000030	-.0000000053
PCB_11	-.0000000034	0.0000000004	0.0000000001	0.0000000055	0.0000000026
PCB_14	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_15	0.0000000138	0.0000000023	0.0000000001	0.0000000206	0.0000000029
PCB_16	0.0000000239	0.0000000091	-.0000000048	-.0000001250	-.0000000555
PCB_17	0.0000000530	-.0000000183	-.0000000328	-.0000009944	-.0000003786
PCB_19	0.0000001432	0.0000000047	-.0000000150	-.0000003291	-.0000001557
PCB_22	0.0000000214	0.0000000148	-.0000000044	-.0000001416	-.0000000625
PCB_23	-.0000000005	0.0000000001	-.0000000000	-.0000000016	-.0000000005
PCB_24	-.0000000026	0.0000000002	0.0000000000	-.0000000035	-.0000000006
PCB_25	-.0000000717	-.0000000048	-.0000000112	-.0000003782	-.0000001243
PCB_27	-.0000002888	-.0000000602	-.0000000502	-.0000018084	-.0000005848
PCB_31	-.0000000445	0.0000000240	-.0000000165	-.0000005208	-.0000001869
PCB_32	-.0000000341	0.0000000006	-.0000000254	-.0000008828	-.0000003213
PCB_34	-.0000000011	-.0000000003	-.0000000005	-.0000000175	-.0000000063
PCB_35	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_36	0.0000000154	-.0000000072	0.0000000032	-.0000000282	-.0000000157
PCB_37	0.0000000110	0.0000000044	-.0000000006	-.0000000103	-.0000000090
PCB_38	-.0000000040	-.0000000003	-.0000000003	-.0000000134	-.0000000040
PCB_39	-.0000000005	0.0000000002	-.0000000001	-.0000000031	-.0000000011
PCB_42	-.0000002744	-.0000000103	-.0000000308	-.0000013302	-.0000004375
PCB_43	-.0000000179	-.0000000025	-.0000000017	-.0000001651	-.0000000608
PCB_46	-.0000001999	-.0000000176	-.0000000171	-.0000007391	-.0000002186
PCB_48	-.0000000367	0.0000000063	-.0000000033	-.0000001593	-.0000000505
PCB_52	-.0000019376	-.0000002445	-.0000001915	-.0000066275	-.0000018828
PCB_54	-.0000000145	-.0000000040	-.0000000035	-.0000001196	-.0000000388
PCB_55	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_56	-.0000000295	0.0000000146	-.0000000016	-.0000000413	-.0000000084
PCB_57	-.0000000217	-.0000000038	-.0000000021	-.0000001016	-.0000000328
PCB_58	-.0000000202	-.0000000026	-.0000000012	-.0000000685	-.0000000204
PCB_60	0.0000000129	0.0000000151	0.0000000011	0.0000000363	0.0000000072

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_1	-.0000001708	0.0000000023	-.0000000030	0.0000000559	-.0000000091
PCB_2	0.0000000053	0.0000000001	0.0000000008	-.0000000018	0.0000000048
PCB_3	-.0000000012	0.0000000002	0.0000000007	0.0000000006	0.0000000055
PCB_4	-.0000045528	-.0000000181	-.0000000481	0.0000001062	-.0000018359
PCB_5	-.0000000162	0.0000000002	0.0000000002	0.0000000036	0.0000000017
PCB_6	-.0000006694	-.0000000001	-.0000000020	0.0000000382	-.0000002025
PCB_7	-.0000000871	0.0000000001	-.0000000009	0.0000000089	-.0000000223
PCB_8	-.0000011401	-.0000000011	-.0000000605	0.0000004892	-.0000001453
PCB_9	-.0000001504	-.0000000002	-.0000000025	0.0000000175	-.0000000422
PCB_10	-.0000004622	-.0000000014	-.0000000031	-.0000000021	-.0000001819
PCB_11	0.0000001487	-.0000000011	0.0000000021	0.0000000046	0.0000000650
PCB_14	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_15	-.0000001855	0.0000000019	0.0000000036	0.0000000226	-.0000000103
PCB_16	-.0000016904	-.0000000158	0.0000000403	-.0000002507	-.0000007674
PCB_17	-.0000084969	-.0000001157	-.0000000556	-.0000015282	-.0000065233
PCB_19	-.0000053390	-.0000000756	-.0000000844	-.0000004896	-.0000032593
PCB_22	-.0000021694	-.0000000029	0.0000000895	-.0000003102	-.0000006655
PCB_23	-.0000000036	0.0000000000	0.0000000009	-.0000000031	-.0000000009
PCB_24	0.0000000235	0.0000000002	0.0000000030	-.0000000069	0.0000000197
PCB_25	-.0000019857	-.0000000338	0.0000001074	-.0000006950	-.0000016325
PCB_27	-.0000090171	-.0000001707	0.0000001776	-.0000029470	-.0000085983
PCB_31	-.0000049770	-.0000000646	0.0000003102	-.0000010971	-.0000021949
PCB_32	-.0000068036	-.0000000667	0.0000001251	-.0000014937	-.0000044572
PCB_34	-.0000001213	-.0000000011	0.0000000025	-.0000000287	-.0000000947
PCB_35	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_36	-.0000001046	0.0000000593	-.0000000286	0.0000000765	-.0000002467
PCB_37	-.0000004680	0.0000000036	0.0000000214	-.0000000427	-.0000000920
PCB_38	-.0000000410	0.0000000003	0.0000000041	-.0000000230	-.0000000387
PCB_39	-.0000000232	0.0000000001	0.0000000019	-.0000000065	-.0000000058
PCB_42	-.0000063035	-.0000000081	0.0000004271	-.0000023528	-.0000048081
PCB_43	-.0000013120	0.0000000393	0.0000001417	-.0000002574	-.0000009368
PCB_46	-.0000021322	-.0000000548	0.0000001364	-.0000012536	-.0000022735
PCB_48	-.0000007514	-.0000000102	0.0000000742	-.0000003066	-.0000002868
PCB_52	-.0000190697	-.0000009782	0.0000005247	-.0000117391	-.0000221915
PCB_54	-.0000006228	-.0000000166	-.0000000025	-.0000001864	-.0000005886
PCB_55	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_56	-.0000000906	-.0000000303	0.0000001194	-.0000001707	0.0000002898
PCB_57	-.0000004915	0.0000000059	0.0000000169	-.0000001660	-.0000003986
PCB_58	-.0000001501	0.0000000022	0.0000000160	-.0000001096	-.0000002158
PCB_60	-.0000001687	0.0000000015	0.0000000563	0.0000000019	0.0000004450

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_1	-.0000000001	0.0000000101	0.0000000002	0.0000000269	0.0000000003
PCB_2	0.0000000000	0.0000000010	-.0000000000	0.0000000033	-.0000000000
PCB_3	0.0000000000	0.0000000017	0.0000000000	0.0000000052	-.0000000000
PCB_4	-.0000000031	-.0000001428	0.0000000009	-.0000008458	0.0000000066
PCB_5	-.0000000000	0.0000000017	0.0000000000	0.0000000047	0.0000000000
PCB_6	-.0000000004	-.0000000002	0.0000000002	-.0000000569	0.0000000010
PCB_7	-.0000000000	0.0000000007	0.0000000000	-.0000000039	0.0000000001
PCB_8	-.0000000012	0.0000000413	0.0000000014	0.0000000773	0.0000000012
PCB_9	-.0000000001	0.0000000005	0.0000000001	-.0000000104	0.0000000002
PCB_10	-.0000000003	-.0000000128	0.0000000001	-.0000000827	0.0000000007
PCB_11	0.0000000001	0.0000000058	0.0000000000	0.0000000270	-.0000000003
PCB_14	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_15	-.0000000001	0.0000000117	0.0000000001	0.0000000219	0.0000000003
PCB_16	-.0000000005	-.0000000601	-.0000000001	-.0000004165	0.0000000021
PCB_17	-.0000000071	-.0000010330	-.0000000021	-.0000041531	0.0000000150
PCB_19	-.0000000041	-.0000004387	-.0000000004	-.0000020129	0.0000000069
PCB_22	-.0000000002	0.0000000117	-.0000000001	-.0000002473	0.0000000032
PCB_23	0.0000000000	0.0000000002	-.0000000000	0.0000000000	0.0000000000
PCB_24	0.0000000001	0.0000000040	-.0000000000	0.0000000133	-.0000000001
PCB_25	-.0000000012	-.0000002522	-.0000000008	-.0000011536	0.0000000040
PCB_27	-.0000000082	-.0000014986	-.0000000044	-.0000060787	0.0000000188
PCB_31	-.0000000010	-.0000001131	-.0000000004	-.0000014181	0.0000000068
PCB_32	-.0000000037	-.0000006034	-.0000000019	-.0000027008	0.0000000120
PCB_34	-.0000000001	-.0000000144	-.0000000000	-.0000000585	0.0000000003
PCB_35	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_36	-.0000000004	-.0000000434	-.0000000003	0.0000002163	0.0000000044
PCB_37	-.0000000000	0.0000000146	0.0000000000	0.0000000034	0.0000000008
PCB_38	-.0000000000	-.0000000062	-.0000000000	-.0000000231	0.0000000002
PCB_39	0.0000000000	0.0000000006	-.0000000000	-.0000000009	0.0000000000
PCB_42	-.0000000024	-.0000006718	-.0000000032	-.0000027971	0.0000000178
PCB_43	-.0000000009	-.0000000767	-.0000000000	-.0000003066	0.0000000076
PCB_46	-.0000000010	-.0000004074	-.0000000020	-.0000017068	0.0000000040
PCB_48	0.0000000004	-.0000000002	-.0000000003	-.0000001659	0.0000000007
PCB_52	-.0000000161	-.0000046209	-.0000000204	-.0000201888	0.0000000027
PCB_54	-.0000000006	-.0000001052	-.0000000003	-.0000004339	0.0000000009
PCB_55	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_56	0.0000000011	0.0000001173	0.0000000003	0.0000000572	-.0000000019
PCB_57	-.0000000003	-.0000000659	-.0000000004	-.0000002134	0.0000000017
PCB_58	-.0000000001	-.0000000406	-.0000000002	-.0000001280	0.0000000009
PCB_60	0.0000000010	0.0000001427	0.0000000003	0.0000003664	-.0000000009

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_1	0.0000000002	0.0000000002	0.0000000043	-.0000000001	0.0000000642
PCB_2	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000018
PCB_3	-.0000000000	-.0000000000	0.0000000000	0.0000000000	0.0000000013
PCB_4	0.0000000053	0.0000000053	0.0000000725	-.0000000016	-.0000001769
PCB_5	0.0000000000	0.0000000000	0.0000000003	-.0000000000	0.0000000039
PCB_6	0.0000000007	0.0000000007	0.0000000113	-.0000000002	0.0000000076
PCB_7	0.0000000001	0.0000000001	0.0000000015	-.0000000000	0.0000000058
PCB_8	0.0000000014	0.0000000018	0.0000000224	-.0000000007	0.0000005061
PCB_9	0.0000000001	0.0000000002	0.0000000025	-.0000000001	0.0000000118
PCB_10	0.0000000005	0.0000000005	0.0000000073	-.0000000001	-.0000000301
PCB_11	-.0000000002	-.0000000002	-.0000000034	0.0000000001	0.0000000088
PCB_14	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_15	0.0000000002	0.0000000000	0.0000000038	-.0000000000	0.0000000268
PCB_16	0.0000000014	0.0000000015	0.0000000190	-.0000000003	-.0000004310
PCB_17	0.0000000148	0.0000000170	0.0000001158	-.0000000032	-.0000028062
PCB_19	0.0000000061	0.0000000084	0.0000000653	-.0000000020	-.0000011185
PCB_22	0.0000000014	0.0000000008	0.0000000296	-.0000000001	-.0000004615
PCB_23	0.0000000000	-.0000000000	0.0000000000	0.0000000000	-.0000000040
PCB_24	-.0000000001	-.0000000001	-.0000000007	0.0000000000	-.0000000066
PCB_25	0.0000000042	0.0000000037	0.0000000279	-.0000000005	-.0000010143
PCB_27	0.0000000207	0.0000000211	0.0000001291	-.0000000034	-.0000045625
PCB_31	0.0000000045	0.0000000038	0.0000000640	-.0000000006	-.0000015296
PCB_32	0.0000000101	0.0000000099	0.0000000902	-.0000000016	-.0000024275
PCB_34	0.0000000003	0.0000000003	0.0000000021	-.0000000000	-.0000000465
PCB_35	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_36	0.0000000032	0.0000000021	0.0000000292	0.0000000001	0.0000000652
PCB_37	0.0000000004	0.0000000001	0.0000000076	-.0000000000	-.0000000630
PCB_38	0.0000000001	0.0000000001	0.0000000010	-.0000000000	-.0000000304
PCB_39	0.0000000000	-.0000000000	0.0000000003	0.0000000000	-.0000000089
PCB_42	0.0000000155	0.0000000110	0.0000001161	-.0000000005	-.0000033469
PCB_43	0.0000000063	0.0000000046	0.0000000595	-.0000000002	-.0000003265
PCB_46	0.0000000043	0.0000000040	0.0000000160	-.0000000003	-.0000017802
PCB_48	0.0000000000	-.0000000001	0.0000000032	0.0000000002	-.0000004185
PCB_52	0.0000000208	0.0000000250	-.0000000671	-.0000000077	-.0000166267
PCB_54	0.0000000010	0.0000000013	0.0000000057	-.0000000003	-.0000003061
PCB_55	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_56	-.0000000019	-.0000000014	-.0000000129	0.0000000004	-.0000001745
PCB_57	0.0000000015	0.0000000009	0.0000000119	-.0000000001	-.0000002312
PCB_58	0.0000000008	0.0000000006	0.0000000048	-.0000000000	-.0000001506
PCB_60	-.0000000017	-.0000000018	-.0000000057	0.0000000004	0.0000000297

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_1	0.0000000005	-.0000000001	-.0000000001	-.0000000012	0.0000000223
PCB_2	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000011
PCB_3	0.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000024
PCB_4	0.0000000041	-.0000000022	-.0000000022	-.0000000534	-.0000002540
PCB_5	0.0000000001	-.0000000000	-.0000000000	-.0000000001	0.0000000027
PCB_6	0.0000000010	-.0000000003	-.0000000003	-.0000000051	-.0000000065
PCB_7	0.0000000001	-.0000000000	-.0000000000	-.0000000008	0.0000000011
PCB_8	0.0000000042	-.0000000008	-.0000000008	-.0000000198	0.0000001245
PCB_9	0.0000000003	-.0000000001	-.0000000001	-.0000000014	0.0000000007
PCB_10	0.0000000003	-.0000000002	-.0000000002	-.0000000044	-.0000000262
PCB_11	0.0000000002	0.0000000001	0.0000000001	-.0000000000	0.0000000111
PCB_14	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_15	0.0000000004	-.0000000000	-.0000000000	-.0000000006	0.0000000182
PCB_16	0.0000000014	-.0000000004	-.0000000004	-.0000000164	-.0000001653
PCB_17	-.0000000050	-.0000000050	-.0000000050	-.0000001232	-.0000018850
PCB_19	0.0000000003	-.0000000029	-.0000000029	-.0000000728	-.0000008229
PCB_22	0.0000000020	-.0000000001	-.0000000001	-.0000000074	-.0000000822
PCB_23	0.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000003
PCB_24	0.0000000001	0.0000000000	0.0000000000	0.0000000006	0.0000000044
PCB_25	-.0000000016	-.0000000009	-.0000000009	-.0000000302	-.0000005038
PCB_27	-.0000000142	-.0000000058	-.0000000058	-.0000001506	-.0000027629
PCB_31	0.0000000031	-.0000000007	-.0000000007	-.0000000362	-.0000004622
PCB_32	-.0000000018	-.0000000026	-.0000000026	-.0000000733	-.0000012396
PCB_34	-.0000000001	-.0000000001	-.0000000001	-.0000000013	-.0000000273
PCB_35	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_36	-.0000000018	-.0000000003	-.0000000003	0.0000000301	-.0000000451
PCB_37	0.0000000006	-.0000000000	-.0000000000	-.0000000008	0.0000000063
PCB_38	-.0000000001	-.0000000000	-.0000000000	-.0000000001	-.0000000129
PCB_39	0.0000000000	0.0000000000	0.0000000000	0.0000000000	-.0000000008
PCB_42	-.0000000051	-.0000000016	-.0000000016	-.0000000368	-.0000014395
PCB_43	-.0000000013	-.0000000007	-.0000000007	0.0000000271	-.0000001783
PCB_46	-.0000000043	-.0000000007	-.0000000007	-.0000000387	-.0000008256
PCB_48	0.0000000010	0.0000000003	0.0000000003	-.0000000028	-.0000000764
PCB_52	-.0000000548	-.0000000111	-.0000000111	-.0000007391	-.0000086476
PCB_54	-.0000000009	-.0000000004	-.0000000004	-.0000000128	-.0000001933
PCB_55	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_56	0.0000000032	0.0000000008	0.0000000008	-.0000000005	0.0000001087
PCB_57	-.0000000011	-.0000000002	-.0000000002	-.0000000019	-.0000001218
PCB_58	-.0000000006	-.0000000001	-.0000000001	0.0000000001	-.0000000763
PCB_60	0.0000000030	0.0000000007	0.0000000007	0.0000000076	0.0000001844

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_1	-.0000000005	0.0000000261	-.0000000003	0.0000000069	-.0000000073
PCB_2	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_3	-.0000000000	0.0000000008	0.0000000000	0.0000000056	0.0000000017
PCB_4	-.0000000003	-.0000001610	-.0000000064	-.0000013930	-.0000003806
PCB_5	-.0000000001	0.0000000017	0.0000000000	0.0000000035	0.0000000007
PCB_6	-.0000000006	-.0000000096	-.0000000007	-.0000001297	-.0000000358
PCB_7	-.0000000001	0.0000000013	-.0000000001	-.0000000128	-.0000000043
PCB_8	-.0000000068	0.0000002121	-.0000000024	0.0000000022	-.0000000862
PCB_9	-.0000000003	0.0000000024	-.0000000002	-.0000000243	-.0000000086
PCB_10	0.0000000002	-.0000000223	-.0000000006	-.0000001362	-.0000000346
PCB_11	-.0000000006	0.0000000091	0.0000000002	0.0000000511	0.0000000131
PCB_14	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_15	-.0000000002	0.0000000101	-.0000000001	0.0000000050	-.0000000007
PCB_16	0.0000000007	-.0000002227	-.0000000009	-.0000005999	-.0000000969
PCB_17	0.0000000237	-.0000015285	-.0000000159	-.0000057070	-.0000012515
PCB_19	0.0000000047	-.0000006429	-.0000000087	-.0000026505	-.0000006223
PCB_22	0.0000000015	-.0000002411	0.0000000000	-.0000004672	-.0000000358
PCB_23	0.0000000000	-.0000000018	0.0000000000	-.0000000008	0.0000000007
PCB_24	-.0000000001	-.0000000019	0.0000000001	0.0000000179	0.0000000072
PCB_25	0.0000000076	-.0000005154	-.0000000026	-.0000015381	-.0000002870
PCB_27	0.0000000429	-.0000023863	-.0000000187	-.0000080144	-.0000016677
PCB_31	0.0000000022	-.0000008017	-.0000000011	-.0000017918	-.0000002466
PCB_32	0.0000000185	-.0000012694	-.0000000077	-.0000038638	-.0000007206
PCB_34	0.0000000005	-.0000000253	-.0000000002	-.0000000854	-.0000000172
PCB_35	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_36	0.0000000097	-.0000000259	-.0000000011	-.0000002285	-.0000000389
PCB_37	0.0000000004	-.0000000327	0.0000000001	-.0000000569	0.0000000016
PCB_38	0.0000000004	-.0000000154	-.0000000000	-.0000000390	-.0000000057
PCB_39	0.0000000000	-.0000000041	0.0000000000	-.0000000041	0.0000000008
PCB_42	0.0000000360	-.0000017205	-.0000000050	-.0000045269	-.0000006953
PCB_43	0.0000000106	-.0000002715	-.0000000018	-.0000008700	-.0000001521
PCB_46	0.0000000136	-.0000008596	-.0000000023	-.0000021855	-.0000003558
PCB_48	0.0000000004	-.0000001952	0.0000000011	-.0000002172	0.0000000189
PCB_52	0.0000000942	-.0000074855	-.0000000382	-.0000219136	-.0000043326
PCB_54	0.0000000021	-.0000001571	-.0000000013	-.0000005324	-.0000001144
PCB_55	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_56	-.0000000077	-.0000000687	0.0000000028	0.0000003256	0.0000001310
PCB_57	0.0000000045	-.0000001208	-.0000000008	-.0000003893	-.0000000708
PCB_58	0.0000000024	-.0000000786	-.0000000003	-.0000002200	-.0000000361
PCB_60	-.0000000048	0.0000000326	0.0000000026	0.0000004947	0.0000001593

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_1	-.0000000593	-.0000000021	-.0000000071	-.0000000329	-.0000000234
PCB_2	0.0000000087	0.0000000005	0.0000000013	0.0000000058	0.0000000032
PCB_3	0.0000000071	0.0000000004	0.0000000011	0.0000000051	0.0000000025
PCB_4	-.0000017346	-.0000000892	-.0000002439	-.0000011347	-.0000006173
PCB_5	0.0000000011	0.0000000001	0.0000000003	0.0000000014	0.0000000003
PCB_6	-.0000001785	-.0000000084	-.0000000232	-.0000001109	-.0000000648
PCB_7	-.0000000237	-.0000000011	-.0000000031	-.0000000145	-.0000000088
PCB_8	-.0000005924	-.0000000246	-.0000000786	-.0000003619	-.0000002292
PCB_9	-.0000000467	-.0000000021	-.0000000061	-.0000000291	-.0000000174
PCB_10	-.0000001541	-.0000000080	-.0000000215	-.0000001006	-.0000000550
PCB_11	0.0000000590	0.0000000030	0.0000000080	0.0000000381	0.0000000214
PCB_14	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_15	-.0000000171	-.0000000002	-.0000000012	-.0000000058	-.0000000079
PCB_16	-.0000003110	-.0000000193	-.0000000446	-.0000002154	-.0000000979
PCB_17	-.0000047082	-.0000002772	-.0000007030	-.0000033023	-.0000015427
PCB_19	-.0000024782	-.0000001406	-.0000003656	-.0000017219	-.0000008523
PCB_22	-.0000000403	-.0000000034	0.0000000000	-.0000000139	-.0000000058
PCB_23	0.0000000043	0.0000000002	0.0000000006	0.0000000028	0.0000000017
PCB_24	0.0000000346	0.0000000018	0.0000000051	0.0000000232	0.0000000126
PCB_25	-.0000009041	-.0000000594	-.0000001397	-.0000006492	-.0000002781
PCB_27	-.0000057980	-.0000003607	-.0000008882	-.0000041414	-.0000018584
PCB_31	-.0000005505	-.0000000422	-.0000000792	-.0000003936	-.0000001763
PCB_32	-.0000024542	-.0000001512	-.0000003645	-.0000017277	-.0000007680
PCB_34	-.0000000612	-.0000000037	-.0000000090	-.0000000427	-.0000000193
PCB_35	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_36	-.0000002378	-.0000000082	-.0000000198	-.0000001220	-.0000000459
PCB_37	0.0000000174	0.0000000012	0.0000000046	0.0000000198	0.0000000082
PCB_38	-.0000000144	-.0000000011	-.0000000022	-.0000000102	-.0000000033
PCB_39	0.0000000063	0.0000000003	0.0000000010	0.0000000044	0.0000000026
PCB_42	-.0000019378	-.0000001328	-.0000002839	-.0000013640	-.0000004937
PCB_43	-.0000005332	-.0000000287	-.0000000600	-.0000003206	-.0000001458
PCB_46	-.0000009435	-.0000000705	-.0000001561	-.0000007269	-.0000002592
PCB_48	0.0000002228	0.0000000085	0.0000000321	0.0000001405	0.0000000915
PCB_52	-.0000131598	-.0000009316	-.0000022729	-.0000101330	-.0000042994
PCB_54	-.0000004046	-.0000000252	-.0000000630	-.0000002931	-.0000001330
PCB_55	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_56	0.0000006842	0.0000000339	0.0000000983	0.0000004499	0.0000002287
PCB_57	-.0000002422	-.0000000147	-.0000000352	-.0000001645	-.0000000705
PCB_58	-.0000001059	-.0000000071	-.0000000156	-.0000000748	-.0000000262
PCB_60	0.0000006855	0.0000000384	0.0000001043	0.0000004763	0.0000002339

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_1	-.0000000339	0.0000000018	0.0000000000	-.0000000001	-.0000000001
PCB_2	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_3	0.0000000036	0.0000000001	0.0000000000	0.0000000000	0.0000000000
PCB_4	-.0000008613	-.0000000020	-.0000000084	-.0000000023	-.0000000016
PCB_5	0.0000000004	0.0000000001	0.0000000000	0.0000000000	0.0000000000
PCB_6	-.0000000892	0.0000000007	-.0000000007	-.0000000002	-.0000000002
PCB_7	-.0000000122	0.0000000002	-.0000000001	-.0000000000	-.0000000000
PCB_8	-.0000003279	0.0000000143	-.0000000001	-.0000000006	-.0000000005
PCB_9	-.0000000242	0.0000000004	-.0000000001	-.0000000001	-.0000000000
PCB_10	-.0000000764	-.0000000006	-.0000000008	-.0000000002	-.0000000001
PCB_11	0.0000000303	0.0000000003	0.0000000004	0.0000000001	0.0000000001
PCB_14	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_15	-.0000000110	0.0000000009	0.0000000001	-.0000000000	-.0000000000
PCB_16	-.0000001219	-.0000000095	-.0000000031	-.0000000004	-.0000000003
PCB_17	-.0000021211	-.0000000727	-.0000000346	-.0000000068	-.0000000040
PCB_19	-.0000011684	-.0000000275	-.0000000164	-.0000000036	-.0000000022
PCB_22	0.0000000120	-.0000000097	-.0000000020	-.0000000001	-.0000000002
PCB_23	0.0000000026	-.0000000001	0.0000000000	0.0000000000	0.0000000000
PCB_24	0.0000000182	-.0000000001	0.0000000001	0.0000000001	0.0000000000
PCB_25	-.0000003686	-.0000000261	-.0000000087	-.0000000014	-.0000000008
PCB_27	-.0000025382	-.0000001220	-.0000000481	-.0000000089	-.0000000050
PCB_31	-.0000001768	-.0000000362	-.0000000090	-.0000000011	-.0000000008
PCB_32	-.0000010262	-.0000000604	-.0000000221	-.0000000037	-.0000000022
PCB_34	-.0000000262	-.0000000012	-.0000000005	-.0000000001	-.0000000001
PCB_35	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_36	-.0000000801	-.0000000007	-.0000000014	-.0000000002	-.0000000001
PCB_37	0.0000000143	-.0000000010	-.0000000001	0.0000000000	-.0000000000
PCB_38	-.0000000042	-.0000000008	-.0000000002	-.0000000000	-.0000000000
PCB_39	0.0000000040	-.0000000002	-.0000000000	0.0000000000	0.0000000000
PCB_42	-.0000006308	-.0000000862	-.0000000241	-.0000000030	-.0000000018
PCB_43	-.0000001931	-.0000000119	-.0000000046	-.0000000008	-.0000000004
PCB_46	-.0000003307	-.0000000455	-.0000000123	-.0000000016	-.0000000009
PCB_48	0.0000001458	-.0000000093	-.0000000006	0.0000000003	0.0000000001
PCB_52	-.0000058065	-.0000004167	-.0000001330	-.0000000231	-.0000000122
PCB_54	-.0000001815	-.0000000080	-.0000000033	-.0000000006	-.0000000003
PCB_55	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_56	0.0000003503	-.0000000025	0.0000000028	0.0000000009	0.0000000005
PCB_57	-.0000000996	-.0000000063	-.0000000023	-.0000000004	-.0000000002
PCB_58	-.0000000357	-.0000000042	-.0000000012	-.0000000002	-.0000000001
PCB_60	0.0000003412	0.0000000029	0.0000000037	0.0000000010	0.0000000005

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_1	-.0000002041	-.0000000001	0.0000000025	-.0000000102	-.0000000003
PCB_2	0.0000000335	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_3	0.0000000282	0.0000000000	0.0000000002	0.0000000011	0.0000000003
PCB_4	-.0000059777	-.0000000032	-.0000000247	-.0000003388	-.0000000677
PCB_5	0.0000000075	0.0000000000	0.0000000003	-.0000000001	0.0000000002
PCB_6	-.0000005891	-.0000000003	-.0000000008	-.0000000366	-.0000000059
PCB_7	-.0000000782	-.0000000000	0.0000000001	-.0000000048	-.0000000006
PCB_8	-.0000021114	-.0000000010	0.0000000160	-.0000001084	-.0000000083
PCB_9	-.0000001599	-.0000000001	0.0000000002	-.0000000089	-.0000000013
PCB_10	-.0000005305	-.0000000003	-.0000000026	-.0000000295	-.0000000062
PCB_11	0.0000002186	0.0000000001	0.0000000010	0.0000000083	0.0000000022
PCB_14	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_15	-.0000000436	-.0000000000	0.0000000017	-.0000000034	0.0000000004
PCB_16	-.0000008971	-.0000000006	-.0000000204	-.0000000867	-.0000000225
PCB_17	-.0000164029	-.0000000083	-.0000002001	-.0000009695	-.0000002607
PCB_19	-.0000087858	-.0000000046	-.0000000833	-.0000004856	-.0000001237
PCB_22	0.0000001735	-.0000000002	-.0000000142	-.0000000387	-.0000000110
PCB_23	0.0000000184	0.0000000000	-.0000000001	0.0000000004	0.0000000001
PCB_24	0.0000001328	0.0000000001	0.0000000003	0.0000000052	0.0000000012
PCB_25	-.0000030207	-.0000000016	-.0000000599	-.0000002131	-.0000000648
PCB_27	-.0000203756	-.0000000102	-.0000003047	-.0000012061	-.0000003589
PCB_31	-.0000015541	-.0000000013	-.0000000663	-.0000001743	-.0000000606
PCB_32	-.0000080369	-.0000000043	-.0000001413	-.0000005662	-.0000001602
PCB_34	-.0000002075	-.0000000001	-.0000000031	-.0000000133	-.0000000037
PCB_35	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_36	-.0000006163	-.0000000002	-.0000000058	-.0000000509	-.0000000079
PCB_37	0.0000001577	0.0000000000	-.0000000007	-.0000000048	-.0000000003
PCB_38	-.0000000401	-.0000000000	-.0000000016	-.0000000041	-.0000000014
PCB_39	0.0000000301	0.0000000000	-.0000000002	0.0000000003	0.0000000000
PCB_42	-.0000055097	-.0000000029	-.0000001824	-.0000005546	-.0000001716
PCB_43	-.0000016932	-.0000000009	-.0000000294	-.0000001210	-.0000000324
PCB_46	-.0000030182	-.0000000015	-.0000000960	-.0000002487	-.0000000881
PCB_48	0.0000010157	0.0000000004	-.0000000129	0.0000000105	-.0000000021
PCB_52	-.0000474689	-.0000000246	-.0000009183	-.0000027668	-.0000009811
PCB_54	-.0000014473	-.0000000007	-.0000000204	-.0000000820	-.0000000244
PCB_55	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_56	0.0000025040	0.0000000012	0.0000000048	0.0000001020	0.0000000215
PCB_57	-.0000007764	-.0000000004	-.0000000141	-.0000000526	-.0000000158
PCB_58	-.0000003232	-.0000000002	-.0000000093	-.0000000273	-.0000000088
PCB_60	0.0000026346	0.0000000012	0.0000000159	0.0000001076	0.0000000291

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_1	-.0000000001	-.0000000112	-.0000000064	-.0000000103	-.0000000052
PCB_2	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_3	0.0000000000	0.0000000019	0.0000000010	0.0000000013	0.0000000005
PCB_4	-.0000000022	-.0000004623	-.0000002327	-.0000003247	-.0000001347
PCB_5	-.0000000000	0.0000000005	0.0000000003	0.0000000002	0.0000000001
PCB_6	-.0000000003	-.0000000467	-.0000000228	-.0000000331	-.0000000141
PCB_7	-.0000000000	-.0000000058	-.0000000029	-.0000000043	-.0000000019
PCB_8	-.0000000008	-.0000001269	-.0000000716	-.0000001056	-.0000000500
PCB_9	-.0000000001	-.0000000115	-.0000000059	-.0000000085	-.0000000038
PCB_10	-.0000000002	-.0000000414	-.0000000205	-.0000000287	-.0000000120
PCB_11	0.0000000001	0.0000000148	0.0000000074	0.0000000105	0.0000000047
PCB_14	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_15	-.0000000000	-.0000000020	-.0000000010	-.0000000028	-.0000000017
PCB_16	-.0000000004	-.0000001135	-.0000000486	-.0000000651	-.0000000210
PCB_17	-.0000000051	-.0000014495	-.0000007005	-.0000009163	-.0000003384
PCB_19	-.0000000029	-.0000007293	-.0000003566	-.0000004725	-.0000001843
PCB_22	-.0000000001	-.0000000396	-.0000000073	-.0000000142	-.0000000009
PCB_23	0.0000000000	0.0000000008	0.0000000005	0.0000000007	0.0000000004
PCB_24	0.0000000000	0.0000000083	0.0000000046	0.0000000062	0.0000000028
PCB_25	-.0000000009	-.0000003135	-.0000001446	-.0000001878	-.0000000618
PCB_27	-.0000000059	-.0000018567	-.0000008894	-.0000011522	-.0000004099
PCB_31	-.0000000008	-.0000002522	-.0000000944	-.0000001304	-.0000000366
PCB_32	-.0000000026	-.0000008229	-.0000003779	-.0000004941	-.0000001689
PCB_34	-.0000000001	-.0000000198	-.0000000093	-.0000000122	-.0000000043
PCB_35	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_36	-.0000000002	-.0000000715	-.0000000304	-.0000000426	-.0000000133
PCB_37	-.0000000000	0.0000000011	0.0000000029	0.0000000020	0.0000000017
PCB_38	-.0000000000	-.0000000060	-.0000000025	-.0000000032	-.0000000008
PCB_39	0.0000000000	0.0000000010	0.0000000008	0.0000000010	0.0000000006
PCB_42	-.0000000017	-.0000007756	-.0000003287	-.0000004260	-.0000001155
PCB_43	-.0000000006	-.0000001872	-.0000000776	-.0000001098	-.0000000354
PCB_46	-.0000000007	-.0000003763	-.0000001667	-.0000002056	-.0000000577
PCB_48	0.0000000003	0.0000000264	0.0000000237	0.0000000337	0.0000000204
PCB_52	-.0000000117	-.0000043756	-.0000021440	-.0000026828	-.0000009259
PCB_54	-.0000000004	-.0000001277	-.0000000619	-.0000000795	-.0000000289
PCB_55	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_56	0.0000000007	0.0000001593	0.0000000893	0.0000001201	0.0000000519
PCB_57	-.0000000002	-.0000000782	-.0000000364	-.0000000484	-.0000000163
PCB_58	-.0000000001	-.0000000404	-.0000000178	-.0000000227	-.0000000063
PCB_60	0.0000000007	0.0000001797	0.0000000965	0.0000001266	0.0000000521

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_1	-.0000000086	-.0000000177	-.0000000001	-.0000000009	-.0000000106
PCB_2	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_3	0.0000000008	0.0000000026	0.0000000000	0.0000000001	0.0000000010
PCB_4	-.0000002126	-.0000005711	-.0000000020	-.0000000306	-.0000002673
PCB_5	0.0000000000	0.0000000007	0.0000000000	0.0000000000	0.0000000001
PCB_6	-.0000000232	-.0000000560	-.0000000002	-.0000000030	-.0000000293
PCB_7	-.0000000031	-.0000000073	-.0000000000	-.0000000004	-.0000000039
PCB_8	-.0000000783	-.0000001853	-.0000000007	-.0000000097	-.0000000945
PCB_9	-.0000000061	-.0000000147	-.0000000001	-.0000000008	-.0000000077
PCB_10	-.0000000192	-.0000000507	-.0000000002	-.0000000027	-.0000000244
PCB_11	0.0000000079	0.0000000203	0.0000000001	0.0000000010	0.0000000105
PCB_14	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_15	-.0000000034	-.0000000032	-.0000000000	-.0000000001	-.0000000043
PCB_16	-.0000000332	-.0000001004	-.0000000003	-.0000000062	-.0000000433
PCB_17	-.0000005146	-.0000016594	-.0000000047	-.0000000912	-.0000006651
PCB_19	-.0000002860	-.0000008582	-.0000000027	-.0000000467	-.0000003642
PCB_22	-.0000000061	0.0000000007	-.0000000001	-.0000000007	-.0000000114
PCB_23	0.0000000006	0.0000000015	0.0000000000	0.0000000001	0.0000000007
PCB_24	0.0000000043	0.0000000121	0.0000000000	0.0000000006	0.0000000054
PCB_25	-.0000000901	-.0000003247	-.0000000008	-.0000000189	-.0000001222
PCB_27	-.0000006107	-.0000020922	-.0000000056	-.0000001163	-.0000008072
PCB_31	-.0000000606	-.0000001829	-.0000000006	-.0000000126	-.0000000933
PCB_32	-.0000002586	-.0000008565	-.0000000024	-.0000000487	-.0000003415
PCB_34	-.0000000065	-.0000000217	-.0000000001	-.0000000012	-.0000000087
PCB_35	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_36	-.0000000265	-.0000000843	-.0000000003	-.0000000037	-.0000000409
PCB_37	0.0000000014	0.0000000112	0.0000000000	0.0000000005	0.0000000013
PCB_38	-.0000000012	-.0000000054	-.0000000000	-.0000000003	-.0000000019
PCB_39	0.0000000008	0.0000000024	0.0000000000	0.0000000001	0.0000000010
PCB_42	-.0000001713	-.0000006939	-.0000000015	-.0000000419	-.0000002521
PCB_43	-.0000000613	-.0000001949	-.0000000006	-.0000000105	-.0000000984
PCB_46	-.0000000792	-.0000003523	-.0000000007	-.0000000213	-.0000001097
PCB_48	0.0000000313	0.0000000806	0.0000000003	0.0000000034	0.0000000377
PCB_52	-.0000012757	-.0000048348	-.0000000116	-.0000002783	-.0000016059
PCB_54	-.0000000430	-.0000001457	-.0000000004	-.0000000081	-.0000000555
PCB_55	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_56	0.0000000810	0.0000002409	0.0000000008	0.0000000116	0.0000001009
PCB_57	-.0000000252	-.0000000861	-.0000000002	-.0000000047	-.0000000346
PCB_58	-.0000000092	-.0000000397	-.0000000001	-.0000000023	-.0000000137
PCB_60	0.0000000780	0.0000002510	0.0000000007	0.0000000128	0.0000001002

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_1	-.0000000014	-.0000000043	-.0000000061	0.0000000002	0.0000000149
PCB_2	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_3	0.0000000001	0.0000000004	0.0000000005	-.0000000000	0.0000000000
PCB_4	-.0000000359	-.0000000977	-.0000001204	0.0000000226	0.0000000270
PCB_5	0.0000000000	0.0000000000	-.0000000000	0.0000000000	0.0000000008
PCB_6	-.0000000039	-.0000000109	-.0000000136	0.0000000027	0.0000000088
PCB_7	-.0000000005	-.0000000015	-.0000000019	0.0000000003	0.0000000021
PCB_8	-.0000000126	-.0000000369	-.0000000502	0.0000000023	0.0000001434
PCB_9	-.0000000010	-.0000000029	-.0000000037	0.0000000006	0.0000000046
PCB_10	-.0000000033	-.0000000089	-.0000000109	0.0000000023	-.0000000016
PCB_11	0.0000000014	0.0000000040	0.0000000051	-.0000000007	0.0000000030
PCB_14	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_15	-.0000000006	-.0000000018	-.0000000027	0.0000000003	0.0000000054
PCB_16	-.0000000060	-.0000000135	-.0000000119	0.0000000102	-.0000000674
PCB_17	-.0000000892	-.0000002278	-.0000002544	0.0000000748	-.0000004089
PCB_19	-.0000000488	-.0000001273	-.0000001457	0.0000000390	-.0000001176
PCB_22	-.0000000018	-.0000000024	0.0000000012	0.0000000097	-.0000000930
PCB_23	0.0000000001	0.0000000003	0.0000000004	0.0000000000	-.0000000009
PCB_24	0.0000000007	0.0000000020	0.0000000027	-.0000000002	-.0000000022
PCB_25	-.0000000164	-.0000000390	-.0000000399	0.0000000190	-.0000001633
PCB_27	-.0000001078	-.0000002706	-.0000002965	0.0000000962	-.0000007196
PCB_31	-.0000000128	-.0000000267	-.0000000210	0.0000000301	-.0000002270
PCB_32	-.0000000463	-.0000001121	-.0000001152	0.0000000533	-.0000004166
PCB_34	-.0000000012	-.0000000029	-.0000000032	0.0000000011	-.0000000078
PCB_35	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_36	-.0000000053	-.0000000162	-.0000000217	0.0000000010	-.0000000493
PCB_37	0.0000000001	0.0000000006	0.0000000012	0.0000000015	-.0000000166
PCB_38	-.0000000003	-.0000000005	-.0000000004	0.0000000004	-.0000000069
PCB_39	0.0000000001	0.0000000004	0.0000000006	0.0000000001	-.0000000021
PCB_42	-.0000000344	-.0000000747	-.0000000644	0.0000000558	-.0000006772
PCB_43	-.0000000127	-.0000000354	-.0000000453	0.0000000098	-.0000000806
PCB_46	-.0000000151	-.0000000299	-.0000000198	0.0000000264	-.0000003234
PCB_48	0.0000000047	0.0000000163	0.0000000251	0.0000000047	-.0000000821
PCB_52	-.0000002181	-.0000004929	-.0000004545	0.0000002542	-.0000026046
PCB_54	-.0000000074	-.0000000186	-.0000000199	0.0000000067	-.0000000439
PCB_55	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_56	0.0000000133	0.0000000387	0.0000000511	-.0000000007	0.0000000009
PCB_57	-.0000000046	-.0000000118	-.0000000133	0.0000000041	-.0000000566
PCB_58	-.0000000018	-.0000000042	-.0000000041	0.0000000022	-.0000000338
PCB_60	0.0000000131	0.0000000368	0.0000000468	-.0000000031	-.0000000007

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_1	-.0000003071	0.0000001021	0.0000005180	0.0000000068	-.0000000199
PCB_2	0.0000000043	-.0000000039	0.0000000072	-.0000000002	0.0000000104
PCB_3	-.0000000054	0.0000000006	0.0000000334	0.0000000001	0.0000000104
PCB_4	-.0000072525	-.0000001627	-.0000052226	0.0000000039	-.0000007801
PCB_5	-.0000000367	0.0000000056	0.0000000498	0.0000000003	0.0000000069
PCB_6	-.0000010877	0.0000000129	-.0000003165	0.0000000023	-.0000000113
PCB_7	-.0000001508	0.0000000100	0.0000000138	0.0000000006	-.0000000034
PCB_8	-.0000030896	0.0000009561	0.0000042094	0.0000000399	-.0000004745
PCB_9	-.0000002633	0.0000000219	0.0000000141	0.0000000009	-.0000000155
PCB_10	-.0000006419	-.0000000482	-.0000006603	-.0000000006	-.0000000514
PCB_11	0.0000000461	0.0000000283	0.0000003569	-.0000000002	0.0000000294
PCB_14	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_15	-.0000002388	0.0000000271	0.0000002403	0.0000000046	0.0000000450
PCB_16	-.0000026739	-.0000006843	-.0000046091	-.0000000280	0.0000002135
PCB_17	-.0000130847	-.0000038025	-.0000388689	-.0000002159	-.0000030813
PCB_19	-.0000082516	-.0000014638	-.0000170564	-.0000000973	-.0000015886
PCB_22	-.0000026249	-.0000009000	-.0000045395	-.0000000196	0.0000007852
PCB_23	-.0000000070	-.0000000072	-.0000000246	-.0000000003	0.0000000083
PCB_24	0.0000000196	-.0000000143	0.0000000327	-.0000000008	0.0000000403
PCB_25	-.0000025597	-.0000015365	-.0000115979	-.0000000425	-.0000002236
PCB_27	-.0000111398	-.0000065695	-.0000586683	-.0000002610	-.0000036997
PCB_31	-.0000055067	-.0000027001	-.0000159967	-.0000000364	0.0000013846
PCB_32	-.0000096120	-.0000036996	-.0000293656	-.0000001630	-.0000005413
PCB_34	-.0000001641	-.0000000685	-.0000006129	-.0000000028	-.0000000275
PCB_35	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_36	0.0000002189	0.0000000430	-.0000015518	-.0000000148	-.0000001121
PCB_37	-.0000005988	-.0000001455	-.0000004869	-.0000000000	0.0000002154
PCB_38	-.0000000224	-.0000000513	-.0000003402	-.0000000013	0.0000000076
PCB_39	-.0000000327	-.0000000168	-.0000000640	-.0000000005	0.0000000189
PCB_42	-.0000075793	-.0000054200	-.0000372641	-.0000001671	0.0000008518
PCB_43	-.0000004248	-.0000006822	-.0000065440	0.0000000131	0.0000002501
PCB_46	-.0000026383	-.0000027152	-.0000189550	-.0000001107	-.0000001755
PCB_48	-.0000011281	-.0000007303	-.0000032485	-.0000000272	0.0000006318
PCB_52	-.0000205017	-.0000241986	-.0001751025	-.0000009110	-.0000102258
PCB_54	-.0000008915	-.0000004200	-.0000039211	-.0000000224	-.0000003098
PCB_55	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_56	-.0000005116	-.0000003452	0.0000005732	0.0000000032	0.0000009914
PCB_57	-.0000002932	-.0000003929	-.0000029972	-.0000000108	-.0000000638
PCB_58	-.0000000996	-.0000002387	-.0000018116	-.0000000082	-.0000000199
PCB_60	-.0000006223	-.0000000651	0.0000023374	-.0000000002	0.0000009496

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_1	0.0000000181	-.0000000882	0.0000002311	0.0000001355	-.0000000039
PCB_2	-.0000000005	0.0000000269	0.0000000153	-.0000000052	0.0000000021
PCB_3	0.0000000003	0.0000000271	0.0000000302	0.0000000006	0.0000000023
PCB_4	0.0000001091	-.0000056605	-.0000054433	0.0000005354	-.0000005154
PCB_5	0.0000000013	0.0000000107	0.0000000306	0.0000000081	0.0000000011
PCB_6	0.0000000224	-.0000005398	-.0000004328	0.0000001107	-.0000000460
PCB_7	0.0000000039	-.0000000655	-.0000000236	0.0000000234	-.0000000052
PCB_8	0.0000001388	-.0000013811	0.0000012347	0.0000012112	-.0000000742
PCB_9	0.0000000069	-.0000001364	-.0000000619	0.0000000455	-.0000000103
PCB_10	0.0000000081	-.0000005105	-.0000005613	0.0000000193	-.0000000474
PCB_11	-.0000000019	0.0000001853	0.0000002139	0.0000000106	0.0000000162
PCB_14	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_15	0.0000000108	0.0000000245	0.0000001593	0.0000000593	0.0000000013
PCB_16	-.0000000296	-.0000014517	-.0000032647	-.0000004733	-.0000001683
PCB_17	-.0000002653	-.0000194392	-.0000305338	-.0000028905	-.0000018713
PCB_19	-.0000000537	-.0000098603	-.0000139853	-.0000007613	-.0000009053
PCB_22	-.0000000241	-.0000003372	-.0000024594	-.0000006348	-.0000000883
PCB_23	-.0000000006	0.0000000107	-.0000000094	-.0000000074	0.0000000004
PCB_24	-.0000000019	0.0000001068	0.0000000624	-.0000000200	0.0000000086
PCB_25	-.0000001253	-.0000039550	-.0000084886	-.0000012885	-.0000004691
PCB_27	-.0000005760	-.0000245502	-.0000440957	-.0000055768	-.0000025700
PCB_31	-.0000001408	-.0000027793	-.0000105866	-.0000019351	-.0000004634
PCB_32	-.0000002489	-.0000108462	-.0000210510	-.0000030007	-.0000011535
PCB_34	-.0000000049	-.0000002559	-.0000004594	-.0000000571	-.0000000263
PCB_35	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_36	0.0000000194	-.0000008613	-.0000007558	-.0000001954	-.0000000236
PCB_37	0.0000000025	0.0000000963	-.0000001613	-.0000000889	-.0000000043
PCB_38	-.0000000043	-.0000000721	-.0000002120	-.0000000505	-.0000000100
PCB_39	-.0000000010	0.0000000153	-.0000000263	-.0000000151	0.0000000002
PCB_42	-.0000004175	-.0000094761	-.0000249005	-.0000050338	-.0000012000
PCB_43	-.0000000131	-.0000018860	-.0000046413	-.0000006724	-.0000002032
PCB_46	-.0000002684	-.0000051188	-.0000129022	-.0000025474	-.0000006291
PCB_48	-.0000000566	0.0000003400	-.0000017060	-.0000006626	-.0000000169
PCB_52	-.0000026086	-.0000608226	-.0001238026	-.0000204964	-.0000073273
PCB_54	-.0000000392	-.0000017586	-.0000030024	-.0000003441	-.0000001764
PCB_55	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_56	-.0000000296	0.0000021583	0.0000006163	-.0000002399	0.0000001438
PCB_57	-.0000000283	-.0000009667	-.0000018963	-.0000003725	-.0000001099
PCB_58	-.0000000225	-.0000005063	-.0000012110	-.0000002515	-.0000000591
PCB_60	0.0000000098	0.0000023944	0.0000022712	-.0000000365	0.0000002041

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_1	0.0000000218	-.0000001478	-.0000000530	-.0000000055	-.0000000267
PCB_2	-.0000000014	0.0000000203	0.0000000088	0.0000000007	0.0000000039
PCB_3	-.0000000010	0.0000000169	0.0000000077	0.0000000006	0.0000000032
PCB_4	0.0000013388	-.0000052204	-.0000018673	-.0000001403	-.0000007947
PCB_5	0.0000000025	0.0000000005	0.0000000015	0.0000000000	0.0000000005
PCB_6	0.0000001718	-.0000005702	-.0000001866	-.0000000147	-.0000000840
PCB_7	0.0000000210	-.0000000724	-.0000000243	-.0000000020	-.0000000110
PCB_8	0.0000002124	-.0000014326	-.0000005952	-.0000000531	-.0000002520
PCB_9	0.0000000366	-.0000001369	-.0000000480	-.0000000039	-.0000000215
PCB_10	0.0000001317	-.0000004766	-.0000001644	-.0000000124	-.0000000724
PCB_11	-.0000000311	0.0000001648	0.0000000550	0.0000000048	0.0000000298
PCB_14	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_15	0.0000000307	-.0000000663	-.0000000124	-.0000000019	-.0000000092
PCB_16	0.0000006089	-.0000013786	-.0000004064	-.0000000212	-.0000001507
PCB_17	0.0000036318	-.0000147944	-.0000053823	-.0000003493	-.0000021615
PCB_19	0.0000019858	-.0000076136	-.0000028029	-.0000001896	-.0000011432
PCB_22	0.0000006441	-.0000008307	-.0000000953	0.0000000000	-.0000000450
PCB_23	0.0000000019	0.0000000062	0.0000000039	0.0000000004	0.0000000018
PCB_24	-.0000000061	0.0000000816	0.0000000350	0.0000000029	0.0000000155
PCB_25	0.0000009837	-.0000033088	-.0000011348	-.0000000635	-.0000004164
PCB_27	0.0000045432	-.0000187255	-.0000068248	-.0000004221	-.0000026626
PCB_31	0.0000018080	-.0000033793	-.0000008782	-.0000000347	-.0000003014
PCB_32	0.0000027729	-.0000088512	-.0000029299	-.0000001732	-.0000011576
PCB_34	0.0000000521	-.0000002045	-.0000000705	-.0000000044	-.0000000285
PCB_35	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_36	-.0000001229	-.0000006405	-.0000000969	-.0000000153	-.0000001328
PCB_37	0.0000001198	-.0000001052	0.0000000151	0.0000000018	0.0000000027
PCB_38	0.0000000203	-.0000000654	-.0000000178	-.0000000008	-.0000000073
PCB_39	0.0000000077	0.0000000037	0.0000000055	0.0000000006	0.0000000025
PCB_42	0.0000028493	-.0000085052	-.0000024392	-.0000001191	-.0000009460
PCB_43	0.0000003420	-.0000019985	-.0000005043	-.0000000375	-.0000002847
PCB_46	0.0000013227	-.0000038613	-.0000012891	-.0000000581	-.0000004381
PCB_48	0.0000003213	0.0000000940	0.0000001582	0.0000000220	0.0000000909
PCB_52	0.0000134624	-.0000442758	-.0000174424	-.0000009373	-.0000057904
PCB_54	0.0000003206	-.0000012734	-.0000004813	-.0000000297	-.0000001842
PCB_55	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_56	0.0000000994	0.0000014469	0.0000006039	0.0000000552	0.0000003098
PCB_57	0.0000001935	-.0000008354	-.0000002603	-.0000000170	-.0000001172
PCB_58	0.0000000929	-.0000004042	-.0000001228	-.0000000066	-.0000000509
PCB_60	-.0000000292	0.0000016070	0.0000007048	0.0000000546	0.0000003047

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_1	0.0000000493	0.0000000073	-.0000000162	-.0000000344	-.0000000083
PCB_2	-.0000000018	-.0000000001	-.0000000026	-.0000000027	-.0000000201
PCB_3	-.0000000007	0.0000000002	-.0000000041	-.0000000054	-.0000000256
PCB_4	0.0000023860	0.0000002717	0.0000017159	0.0000020386	0.0000078248
PCB_5	0.0000000059	0.0000000010	-.0000000018	-.0000000031	-.0000000104
PCB_6	0.0000003322	0.0000000399	0.0000001865	0.0000002176	0.0000008275
PCB_7	0.0000000404	0.0000000050	0.0000000190	0.0000000208	0.0000000882
PCB_8	0.0000004446	0.0000000642	-.0000001036	-.0000002418	0.0000004168
PCB_9	0.0000000715	0.0000000087	0.0000000339	0.0000000369	0.0000001681
PCB_10	0.0000002367	0.0000000268	0.0000001792	0.0000002137	0.0000007661
PCB_11	-.0000000577	-.0000000051	-.0000000608	-.0000000757	-.0000002583
PCB_14	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_15	0.0000000634	0.0000000094	0.0000000103	-.0000000022	-.0000000044
PCB_16	0.0000011009	0.0000001266	0.0000009069	0.0000011411	0.0000034401
PCB_17	0.0000062342	0.0000005924	0.0000065287	0.0000086800	0.0000301244
PCB_19	0.0000034922	0.0000003594	0.0000032324	0.0000040972	0.0000146336
PCB_22	0.0000012161	0.0000001483	0.0000009150	0.0000011166	0.0000027866
PCB_23	0.0000000038	0.0000000005	0.0000000032	0.0000000048	0.0000000058
PCB_24	-.0000000083	-.0000000004	-.0000000111	-.0000000119	-.0000000822
PCB_25	0.0000016482	0.0000001638	0.0000018281	0.0000023599	0.0000075486
PCB_27	0.0000075212	0.0000006798	0.0000089678	0.0000118187	0.0000398858
PCB_31	0.0000033257	0.0000003923	0.0000028392	0.0000033028	0.0000093483
PCB_32	0.0000048375	0.0000004899	0.0000048760	0.0000064485	0.0000204982
PCB_34	0.0000000911	0.0000000085	0.0000000974	0.0000001315	0.0000004380
PCB_35	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_36	-.0000000676	-.0000000431	0.0000000201	0.0000004170	0.0000013641
PCB_37	0.0000002280	0.0000000295	0.0000001424	0.0000001738	0.0000003615
PCB_38	0.0000000341	0.0000000028	0.0000000455	0.0000000646	0.0000001836
PCB_39	0.0000000148	0.0000000019	0.0000000111	0.0000000150	0.0000000270
PCB_42	0.0000050039	0.0000004769	0.0000055135	0.0000076577	0.0000226460
PCB_43	0.0000008688	0.0000000611	0.0000008147	0.0000012792	0.0000041715
PCB_46	0.0000021375	0.0000002022	0.0000027011	0.0000036024	0.0000108399
PCB_48	0.0000006014	0.0000000748	0.0000005069	0.0000006487	0.0000013460
PCB_52	0.0000188998	0.0000018903	0.0000268128	0.0000325257	0.0001034624
PCB_54	0.0000005251	0.0000000491	0.0000006150	0.0000007971	0.0000027324
PCB_55	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_56	0.0000002770	0.0000000611	-.0000000363	-.0000002355	-.0000014465
PCB_57	0.0000003135	0.0000000243	0.0000004272	0.0000006100	0.0000018529
PCB_58	0.0000001585	0.0000000105	0.0000002296	0.0000003455	0.0000010508
PCB_60	0.0000000450	0.0000000306	-.0000002714	-.0000004086	-.0000021052

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_1	-.0000000081	-.0000000924	-.0000000402	-.0000000200	0.0000000752
PCB_2	-.0000000037	-.0000000220	-.0000000058	-.0000000011	-.0000000062
PCB_3	-.0000000053	-.0000000312	-.0000000093	-.0000000023	-.0000000040
PCB_4	0.0000021556	0.0000088913	0.0000032750	0.0000007053	0.0000002121
PCB_5	-.0000000013	-.0000000181	-.0000000055	-.0000000024	0.0000000017
PCB_6	0.0000002457	0.0000008876	0.0000003388	0.0000000655	0.0000000050
PCB_7	0.0000000264	0.0000000890	0.0000000332	0.0000000047	0.0000000081
PCB_8	0.0000000849	-.0000005115	-.0000002599	-.0000002287	0.0000012275
PCB_9	0.0000000496	0.0000001641	0.0000000598	0.0000000074	0.0000000261
PCB_10	0.0000002155	0.0000009116	0.0000003399	0.0000000795	-.0000000389
PCB_11	-.0000000644	-.0000003608	-.0000001196	-.0000000366	0.0000000757
PCB_14	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_15	0.0000000051	-.0000000291	0.0000000066	0.0000000014	-.0000000165
PCB_16	0.0000010613	0.0000041740	0.0000017200	0.0000004348	-.0000004679
PCB_17	0.0000080948	0.0000366490	0.0000131342	0.0000032871	-.0000015068
PCB_19	0.0000040652	0.0000173990	0.0000063503	0.0000014673	-.0000001439
PCB_22	0.0000009555	0.0000036525	0.0000016678	0.0000004841	-.0000010988
PCB_23	0.0000000030	0.0000000097	0.0000000058	0.0000000021	-.0000000086
PCB_24	-.0000000154	-.0000000913	-.0000000248	-.0000000049	-.0000000228
PCB_25	0.0000020479	0.0000092353	0.0000036803	0.0000010487	-.0000007619
PCB_27	0.0000104968	0.0000491747	0.0000182713	0.0000049945	-.0000028884
PCB_31	0.0000029449	0.0000111321	0.0000053706	0.0000015749	-.0000016974
PCB_32	0.0000057525	0.0000255806	0.0000096493	0.0000025703	-.0000026540
PCB_34	0.0000001168	0.0000005385	0.0000001971	0.0000000536	-.0000000458
PCB_35	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_36	0.0000002094	0.0000022099	0.0000001705	0.0000001002	-.0000011920
PCB_37	0.0000001364	0.0000005092	0.0000002487	0.0000000787	-.0000002616
PCB_38	0.0000000481	0.0000002491	0.0000000934	0.0000000307	-.0000000583
PCB_39	0.0000000110	0.0000000400	0.0000000200	0.0000000064	-.0000000223
PCB_42	0.0000061981	0.0000290883	0.0000111230	0.0000033566	-.0000052725
PCB_43	0.0000009831	0.0000049724	0.0000017435	0.0000006377	-.0000013507
PCB_46	0.0000030098	0.0000139240	0.0000054481	0.0000015650	-.0000016736
PCB_48	0.0000005246	0.0000017962	0.0000009282	0.0000002766	-.0000006530
PCB_52	0.0000282340	0.0001328049	0.0000538542	0.0000148788	-.0000048778
PCB_54	0.0000007366	0.0000033481	0.0000012413	0.0000003175	-.0000000914
PCB_55	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_56	-.0000001446	-.0000023341	-.0000002165	-.0000000507	0.0000002503
PCB_57	0.0000004633	0.0000025558	0.0000008817	0.0000002798	-.0000005394
PCB_58	0.0000002635	0.0000013880	0.0000004844	0.0000001542	-.0000002691
PCB_60	-.0000003656	-.0000026227	-.0000006788	-.0000001854	-.0000002314

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_1	0.0000000428	0.0000000625	0.0000000071	-.0000000455	0.0000000136
PCB_2	-.0000000024	-.0000000153	-.0000000011	-.0000000089	-.0000000011
PCB_3	-.0000000008	-.0000000143	-.0000000014	-.0000000089	-.0000000009
PCB_4	0.0000000076	-.0000004983	0.0000011839	-.0000023374	0.0000006014
PCB_5	0.0000000015	-.0000000099	0.0000000005	-.0000000173	0.0000000007
PCB_6	0.0000000127	-.0000001624	0.0000001472	-.0000004269	0.0000000777
PCB_7	0.0000000044	-.0000000142	0.0000000154	-.0000000521	0.0000000091
PCB_8	0.0000004498	0.0000012646	-.0000000232	-.0000006571	0.0000001151
PCB_9	0.0000000114	-.0000000024	0.0000000257	-.0000000870	0.0000000166
PCB_10	-.0000000170	-.0000001291	0.0000001226	-.0000002079	0.0000000578
PCB_11	0.0000000111	0.0000000532	-.0000000427	-.0000000386	-.0000000170
PCB_14	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_15	0.0000000022	-.0000001107	0.0000000245	-.0000000678	0.0000000126
PCB_16	-.0000002720	-.0000013060	0.0000006229	-.0000016504	0.0000002467
PCB_17	-.0000008960	-.0000006922	0.0000041033	-.0000065778	0.0000017614
PCB_19	-.0000003398	-.0000004105	0.0000019258	-.0000033744	0.0000008990
PCB_22	-.0000004379	-.0000025402	0.0000007163	-.0000018226	0.0000002464
PCB_23	-.0000000033	-.0000000175	0.0000000031	-.0000000141	0.0000000006
PCB_24	-.0000000090	-.0000000575	-.0000000051	-.0000000341	-.0000000046
PCB_25	-.0000005051	-.0000012349	0.0000012792	-.0000018892	0.0000004747
PCB_27	-.0000018377	-.0000017901	0.0000058113	-.0000066612	0.0000022823
PCB_31	-.0000011375	-.0000051410	0.0000021303	-.0000041277	0.0000007679
PCB_32	-.0000012251	-.0000039558	0.0000032659	-.0000060790	0.0000012679
PCB_34	-.0000000179	-.0000000376	0.0000000677	-.0000001057	0.0000000269
PCB_35	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_36	0.0000001874	0.0000003167	0.0000002079	-.0000004320	0.0000000722
PCB_37	-.0000000834	-.0000005932	0.0000001363	-.0000003966	0.0000000444
PCB_38	-.0000000182	-.0000000606	0.0000000360	-.0000000453	0.0000000110
PCB_39	-.0000000083	-.0000000473	0.0000000097	-.0000000348	0.0000000026
PCB_42	-.0000018145	-.0000065353	0.0000042569	-.0000077144	0.0000014541
PCB_43	-.0000000135	-.0000005033	0.0000009742	-.0000013417	0.0000003630
PCB_46	-.0000009741	-.0000023785	0.0000017498	-.0000027059	0.0000005901
PCB_48	-.0000003359	-.0000016310	0.0000003755	-.0000013187	0.0000001059
PCB_52	-.0000100683	-.0000149098	0.0000144056	-.0000077950	0.0000049726
PCB_54	-.0000001201	-.0000000523	0.0000003586	-.0000004459	0.0000001480
PCB_55	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_56	-.0000002164	-.0000013417	0.0000000243	-.0000011041	-.0000000122
PCB_57	-.0000001360	-.0000004227	0.0000003238	-.0000002534	0.0000001059
PCB_58	-.0000000658	-.0000001581	0.0000001825	-.0000002428	0.0000000595
PCB_60	-.0000001364	-.0000014182	-.0000001269	-.0000008903	-.0000000755

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_63	PCB 63	0.0000000042	-.0000000004	-.0000000002
PCB_64	PCB 64	0.0000000058	-.0000000005	-.0000000007
PCB_66	PCB 66	0.0000000389	-.0000000040	-.0000000034
PCB_67	PCB 67	0.0000000007	-.0000000001	-.0000000001
PCB_68	PCB 68	0.0000000015	-.0000000011	-.0000000012
PCB_72	PCB 72	-.0000000045	-.0000000012	-.0000000015
PCB_73	PCB 73	0.0000000024	0.0000000001	0.0000000001
PCB_77	PCB 77	-.0000000009	0.0000000004	0.0000000003
PCB_78	PCB 78	-.0000000002	0.0000000000	0.0000000000
PCB_79	PCB 79	0.0000000013	-.0000000001	-.0000000000
PCB_80	PCB 80	-.0000000001	0.0000000000	0.0000000000
PCB_81	PCB 81	-.0000000005	0.0000000000	0.0000000000
PCB_82	PCB 82	0.0000000268	-.0000000009	0.0000000001
PCB_83	PCB 83	0.0000000002	-.0000000006	-.0000000008
PCB_84	PCB 84	-.0000000079	-.0000000016	-.0000000028
PCB_89	PCB 89	-.0000000021	0.0000000003	0.0000000002
PCB_92	PCB 92	0.0000000189	-.0000000030	-.0000000030
PCB_94	PCB 94	0.0000000034	-.0000000004	-.0000000004
PCB_95	PCB 95	-.0000002678	0.0000000042	-.0000000091
PCB_96	PCB 96	-.0000000022	-.0000000002	-.0000000003
PCB_99	PCB 99	-.0000000918	-.0000000112	-.0000000139
PCB_103	PCB 103	0.0000000001	-.0000000005	-.0000000006
PCB_104	PCB 104	-.0000000000	-.0000000000	-.0000000000
PCB_105	PCB 105	0.0000001713	-.0000000096	-.0000000029
PCB_106	PCB 106	-.0000000001	0.0000000000	0.0000000000
PCB_109	PCB 109	0.0000000294	-.0000000026	-.0000000016
PCB_111	PCB 111	-.0000000002	-.0000000001	-.0000000001
PCB_112	PCB 112	-.0000000001	0.0000000000	0.0000000000
PCB_114	PCB 114	0.0000000252	-.0000000011	-.0000000001
PCB_118	PCB 118	-.0000001179	-.0000000156	-.0000000200
PCB_120	PCB 120	-.0000000016	-.0000000002	-.0000000003
PCB_121	PCB 121	-.0000000001	-.0000000000	-.0000000000
PCB_122	PCB 122	0.0000000027	-.0000000001	0.0000000000
PCB_123	PCB 123	0.0000000224	-.0000000006	0.0000000002
PCB_126	PCB 126	0.0000000025	0.0000000001	0.0000000002
PCB_127	PCB 127	0.0000000003	0.0000000000	0.0000000000
PCB_130	PCB 130	0.0000000399	-.0000000009	0.0000000008
PCB_131	PCB 131	0.0000000075	-.0000000002	0.0000000002
PCB_132	PCB 132	-.0000001708	0.0000000053	-.0000000012
PCB_133	PCB 133	0.0000000023	0.0000000001	0.0000000002

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_63	0.0000001523	0.0000000002	0.0000000192	0.0000000024	0.0000000354
PCB_64	0.0000014282	0.0000000016	0.0000001838	0.0000000202	-.0000000324
PCB_66	0.0000012913	0.0000000013	0.0000001523	0.0000000195	0.0000004817
PCB_67	0.0000000726	0.0000000000	0.0000000091	0.0000000010	0.0000000034
PCB_68	0.0000002925	-.0000000007	0.0000000286	0.0000000030	0.0000000072
PCB_72	0.0000003825	-.0000000012	0.0000000356	0.0000000031	-.0000000660
PCB_73	-.0000000122	0.0000000003	-.0000000011	0.0000000002	0.0000000456
PCB_77	0.0000000039	0.0000000003	0.0000000032	0.0000000003	-.0000000151
PCB_78	-.0000000037	-.0000000000	-.0000000006	-.0000000001	-.0000000024
PCB_79	-.0000000203	0.0000000000	-.0000000027	-.0000000002	0.0000000178
PCB_80	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_81	-.0000000092	-.0000000000	-.0000000011	-.0000000002	-.0000000046
PCB_82	0.0000002412	0.0000000018	0.0000000429	0.0000000067	0.0000002597
PCB_83	0.0000003616	-.0000000005	0.0000000363	0.0000000033	-.0000000276
PCB_84	0.0000011904	-.0000000011	0.0000001271	0.0000000128	0.0000000520
PCB_89	-.0000000511	0.0000000001	-.0000000051	-.0000000007	-.0000000163
PCB_92	0.0000018167	0.0000000004	0.0000002119	0.0000000236	0.0000000562
PCB_94	0.0000001998	0.0000000001	0.0000000247	0.0000000029	0.0000000361
PCB_95	0.0000000639	-.0000000201	-.0000001638	-.0000000391	-.0000018290
PCB_96	0.0000001117	-.0000000003	0.0000000114	0.0000000010	-.0000000197
PCB_99	-.0000012009	-.0000000225	-.0000003153	-.0000000452	-.0000012639
PCB_103	0.0000002202	-.0000000003	0.0000000243	0.0000000024	-.0000000120
PCB_104	0.0000000084	-.0000000000	0.0000000009	0.0000000001	0.0000000007
PCB_105	0.0000005569	0.0000000072	0.0000001008	0.0000000249	0.0000018088
PCB_106	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_109	0.0000004179	0.0000000004	0.0000000537	0.0000000075	0.0000002412
PCB_111	0.0000000178	-.0000000001	0.0000000014	0.0000000001	-.0000000084
PCB_112	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_114	0.0000001686	0.0000000015	0.0000000285	0.0000000052	0.0000002449
PCB_118	-.0000021719	-.0000000294	-.0000004487	-.0000000624	-.0000009539
PCB_120	0.0000000504	-.0000000003	0.0000000040	0.0000000002	-.0000000300
PCB_121	0.0000000064	-.0000000000	0.0000000005	0.0000000000	-.0000000026
PCB_122	-.0000000097	0.0000000002	-.0000000001	0.0000000002	0.0000000317
PCB_123	0.0000002517	0.0000000018	0.0000000425	0.0000000066	0.0000001919
PCB_126	0.0000000259	0.0000000003	0.0000000056	0.0000000008	0.0000000199
PCB_127	-.0000000070	0.0000000000	-.0000000005	-.0000000000	0.0000000015
PCB_130	0.0000001251	0.0000000030	0.0000000328	0.0000000069	0.0000003338
PCB_131	-.0000000331	0.0000000005	-.0000000012	0.0000000005	0.0000000631
PCB_132	-.0000045528	-.0000000162	-.0000006694	-.0000000871	-.0000011401
PCB_133	-.0000000181	0.0000000002	-.0000000001	0.0000000001	-.0000000011

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_63	0.0000000043	0.0000000144	-.0000000045	-.0000000004	0.0000000033
PCB_64	0.0000000334	0.0000001520	-.0000000486	-.0000000007	0.0000000355
PCB_66	0.0000000373	0.0000001074	-.0000000175	-.0000000040	0.0000000101
PCB_67	0.0000000017	0.0000000075	-.0000000024	-.0000000001	0.0000000016
PCB_68	0.0000000056	0.0000000291	-.0000000139	-.0000000011	0.0000000001
PCB_72	0.0000000054	0.0000000412	-.0000000214	-.0000000012	0.0000000000
PCB_73	0.0000000004	-.0000000044	0.0000000062	0.0000000001	-.0000000010
PCB_77	0.0000000001	0.0000000012	0.0000000007	0.0000000003	0.0000000019
PCB_78	-.0000000002	-.0000000003	-.0000000000	0.0000000000	-.0000000001
PCB_79	-.0000000002	-.0000000030	0.0000000017	-.0000000001	-.0000000005
PCB_80	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_81	-.0000000003	-.0000000008	0.0000000002	0.0000000000	-.0000000003
PCB_82	0.0000000133	0.0000000173	0.0000000011	-.0000000010	0.0000000141
PCB_83	0.0000000051	0.0000000360	-.0000000115	-.0000000007	0.0000000065
PCB_84	0.0000000239	0.0000001137	-.0000000200	-.0000000017	0.0000000045
PCB_89	-.0000000014	-.0000000048	0.0000000027	0.0000000003	-.0000000008
PCB_92	0.0000000394	0.0000001843	-.0000000652	-.0000000032	0.0000000365
PCB_94	0.0000000054	0.0000000192	-.0000000057	-.0000000005	0.0000000029
PCB_95	-.0000000703	0.0000000238	0.0000000153	0.0000000048	-.0000001679
PCB_96	0.0000000018	0.0000000120	-.0000000047	-.0000000002	0.0000000001
PCB_99	-.0000000775	-.0000000704	-.0000001357	-.0000000109	-.0000000896
PCB_103	0.0000000043	0.0000000230	-.0000000100	-.0000000005	0.0000000024
PCB_104	0.0000000002	0.0000000008	-.0000000003	-.0000000000	-.0000000001
PCB_105	0.0000000564	-.0000000087	0.0000000376	-.0000000096	0.0000000369
PCB_106	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_109	0.0000000152	0.0000000358	-.0000000181	-.0000000027	0.0000000107
PCB_111	0.0000000001	0.0000000022	-.0000000017	-.0000000001	0.0000000002
PCB_112	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_114	0.0000000104	0.0000000094	0.0000000021	-.0000000011	0.0000000102
PCB_118	-.0000000896	-.0000001887	-.0000001016	-.0000000147	-.0000001909
PCB_120	0.0000000002	0.0000000065	-.0000000052	-.0000000002	0.0000000000
PCB_121	0.0000000000	0.0000000007	-.0000000005	-.0000000000	-.0000000000
PCB_122	0.0000000006	-.0000000023	0.0000000020	-.0000000001	0.0000000003
PCB_123	0.0000000119	0.0000000210	-.0000000034	-.0000000007	0.0000000138
PCB_126	0.0000000014	0.0000000022	0.0000000004	0.0000000001	0.0000000023
PCB_127	-.0000000001	-.0000000007	0.0000000001	0.0000000000	0.0000000001
PCB_130	0.0000000124	0.0000000030	0.0000000055	-.0000000010	0.0000000206
PCB_131	0.0000000010	-.0000000053	0.0000000026	-.0000000002	0.0000000029
PCB_132	-.0000001504	-.0000004622	0.0000001487	0.0000000062	-.0000001855
PCB_133	-.0000000002	-.0000000014	-.0000000011	0.0000000000	0.0000000019

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_63	0.0000000538	0.0000004153	0.0000002140	0.0000000508	0.0000000001
PCB_64	0.0000007856	0.0000044853	0.0000022855	0.0000009456	0.0000000039
PCB_66	0.0000003940	0.0000038503	0.0000019239	0.0000001844	-.0000000006
PCB_67	0.0000000362	0.0000002305	0.0000001170	0.0000000408	0.0000000001
PCB_68	0.0000001040	0.0000011455	0.0000005243	0.0000000803	-.0000000000
PCB_72	0.0000001768	0.0000016646	0.0000007436	0.0000001746	0.0000000004
PCB_73	-.0000000137	-.0000000989	-.0000000515	-.0000000374	-.0000000001
PCB_77	0.0000000259	0.0000000015	0.0000000010	0.0000000454	0.0000000004
PCB_78	-.0000000012	-.0000000054	-.0000000050	-.0000000007	0.0000000000
PCB_79	-.0000000201	-.0000001013	-.0000000463	-.0000000297	-.0000000002
PCB_80	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_81	-.0000000011	-.0000000143	-.0000000094	-.0000000002	0.0000000000
PCB_82	0.0000000001	-.0000001039	0.0000001171	-.0000000259	-.0000000010
PCB_83	0.0000001942	0.0000013635	0.0000005923	0.0000002134	0.0000000009
PCB_84	0.0000006564	0.0000045473	0.0000022434	0.0000005917	0.0000000024
PCB_89	-.0000000038	-.0000001240	-.0000000670	0.0000000024	0.0000000002
PCB_92	0.0000008326	0.0000058572	0.0000028134	0.0000009140	0.0000000030
PCB_94	0.0000000816	0.0000006265	0.0000003223	0.0000000744	0.0000000001
PCB_95	0.0000012524	0.0000106634	0.0000038125	0.0000009174	0.0000000120
PCB_96	0.0000000640	0.0000004876	0.0000002276	0.0000000655	0.0000000003
PCB_99	-.0000009817	0.0000003374	-.0000006668	-.0000011027	-.0000000100
PCB_103	0.0000001036	0.0000008367	0.0000003894	0.0000001090	0.0000000003
PCB_104	0.0000000035	0.0000000350	0.0000000169	0.0000000023	0.0000000000
PCB_105	-.0000008059	-.0000032277	-.0000007569	-.0000013529	-.0000000127
PCB_106	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_109	0.0000000031	0.0000007913	0.0000004523	-.0000000567	-.0000000017
PCB_111	0.0000000074	0.0000000820	0.0000000312	0.0000000102	0.0000000000
PCB_112	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_114	-.0000000544	-.0000002685	-.0000000014	-.0000000998	-.0000000013
PCB_118	-.0000016726	-.0000003322	-.0000008944	-.0000024256	-.0000000175
PCB_120	0.0000000251	0.0000002673	0.0000001057	0.0000000327	0.0000000001
PCB_121	0.0000000029	0.0000000327	0.0000000129	0.0000000031	0.0000000000
PCB_122	-.0000000187	-.0000001135	-.0000000435	-.0000000285	-.0000000002
PCB_123	0.0000000239	0.0000000530	0.0000001432	0.0000000214	-.0000000005
PCB_126	0.0000000091	-.0000000183	0.0000000047	0.0000000148	0.0000000001
PCB_127	-.0000000048	-.0000000328	-.0000000150	-.0000000044	-.0000000000
PCB_130	-.0000001250	-.0000009944	-.0000003291	-.0000001416	-.0000000016
PCB_131	-.0000000555	-.0000003786	-.0000001557	-.0000000625	-.0000000005
PCB_132	-.0000016904	-.0000084969	-.0000053390	-.0000021694	-.0000000036
PCB_133	-.0000000158	-.0000001157	-.0000000756	-.0000000029	0.0000000000

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_63	-.0000000015	0.0000001017	0.0000005150	0.0000001465	0.0000002860
PCB_64	-.0000000029	0.0000013838	0.0000061390	0.0000026361	0.0000037258
PCB_66	-.0000000158	0.0000008668	0.0000046637	0.0000008251	0.0000023056
PCB_67	-.0000000004	0.0000000706	0.0000003216	0.0000001285	0.0000001799
PCB_68	-.0000000045	0.0000002803	0.0000015592	0.0000002739	0.0000007495
PCB_72	-.0000000048	0.0000004563	0.0000023870	0.0000005499	0.0000011887
PCB_73	0.0000000003	-.0000000318	-.0000001832	-.0000000908	-.0000001025
PCB_77	0.0000000014	0.0000000268	0.0000000231	0.0000001102	0.0000000661
PCB_78	0.0000000000	-.0000000005	-.0000000029	-.0000000029	-.0000000028
PCB_79	-.0000000002	-.0000000344	-.0000001503	-.0000000707	-.0000000997
PCB_80	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_81	0.0000000002	-.0000000019	-.0000000140	-.0000000014	-.0000000062
PCB_82	-.0000000035	-.0000000973	-.0000004569	-.0000000067	-.0000002133
PCB_83	-.0000000026	0.0000005141	0.0000022243	0.0000008184	0.0000010828
PCB_84	-.0000000068	0.0000014349	0.0000065728	0.0000023166	0.0000033588
PCB_89	0.0000000013	-.0000000178	-.0000001479	0.0000000018	-.0000000567
PCB_92	-.0000000131	0.0000017437	0.0000081841	0.0000027266	0.0000044738
PCB_94	-.0000000018	0.0000001615	0.0000008097	0.0000002474	0.0000004344
PCB_95	0.0000000159	0.0000038234	0.0000179144	0.0000043664	0.0000083503
PCB_96	-.0000000008	0.0000001430	0.0000006994	0.0000002112	0.0000003672
PCB_99	-.0000000443	-.0000002632	0.0000025836	-.0000028486	-.0000009743
PCB_103	-.0000000021	0.0000002380	0.0000011817	0.0000003410	0.0000006165
PCB_104	-.0000000001	0.0000000079	0.0000000449	0.0000000084	0.0000000225
PCB_105	-.0000000362	-.0000017029	-.0000065591	-.0000032271	-.0000043007
PCB_106	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_109	-.0000000103	0.0000000674	0.0000007844	-.0000000914	0.0000002593
PCB_111	-.0000000003	0.0000000245	0.0000001283	0.0000000261	0.0000000624
PCB_112	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_114	-.0000000042	-.0000001716	-.0000006941	-.0000002655	-.0000003859
PCB_118	-.0000000592	-.0000013548	0.0000003009	-.0000059176	-.0000032066
PCB_120	-.0000000008	0.0000000741	0.0000004007	0.0000000792	0.0000002023
PCB_121	-.0000000001	0.0000000093	0.0000000495	0.0000000094	0.0000000236
PCB_122	-.0000000003	-.0000000404	-.0000001870	-.0000000665	-.0000001110
PCB_123	-.0000000026	-.0000000717	-.0000002888	-.0000000445	-.0000000341
PCB_126	0.0000000002	-.0000000048	-.0000000602	0.0000000240	0.0000000006
PCB_127	0.0000000000	-.0000000112	-.0000000502	-.0000000165	-.0000000254
PCB_130	-.0000000035	-.0000003782	-.0000018084	-.0000005208	-.0000008828
PCB_131	-.0000000006	-.0000001243	-.0000005848	-.0000001869	-.0000003213
PCB_132	0.0000000235	-.0000019857	-.0000090171	-.0000049770	-.0000068036
PCB_133	0.0000000002	-.0000000338	-.0000001707	-.0000000646	-.0000000667

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_63	0.0000000061	-.0000000004	0.0000000255	0.0000000097	0.0000000024
PCB_64	0.0000000710	-.0000000007	-.0000000116	0.0000001798	0.0000000363
PCB_66	0.0000000536	-.0000000040	0.0000002009	0.0000000222	0.0000000154
PCB_67	0.0000000036	-.0000000001	-.0000000009	0.0000000072	0.0000000017
PCB_68	0.0000000173	-.0000000011	0.0000001238	0.0000000106	0.0000000081
PCB_72	0.0000000262	-.0000000012	0.0000001523	0.0000000270	0.0000000140
PCB_73	-.0000000020	0.0000000001	-.0000000225	-.0000000060	-.0000000017
PCB_77	0.0000000006	0.0000000003	-.0000000157	0.0000000103	0.0000000009
PCB_78	-.0000000000	0.0000000000	0.0000000021	-.0000000000	0.0000000001
PCB_79	-.0000000018	-.0000000001	-.0000000082	-.0000000057	-.0000000013
PCB_80	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_81	-.0000000002	0.0000000000	0.0000000005	-.0000000001	0.0000000000
PCB_82	-.0000000040	-.0000000010	-.0000001019	-.0000000040	-.0000000076
PCB_83	0.0000000236	-.0000000007	-.0000000375	0.0000000391	0.0000000135
PCB_84	0.0000000687	-.0000000017	-.0000003117	0.0000000822	0.0000000295
PCB_89	-.0000000016	0.0000000003	-.0000000153	0.0000000010	-.0000000004
PCB_92	0.0000000928	-.0000000032	0.0000002002	0.0000001744	0.0000000470
PCB_94	0.0000000093	-.0000000005	0.0000000181	0.0000000116	0.0000000035
PCB_95	0.0000001739	0.0000000048	-.0000002178	0.0000000454	0.0000001095
PCB_96	0.0000000076	-.0000000002	0.0000000144	0.0000000100	0.0000000039
PCB_99	0.0000000081	-.0000000109	0.0000013684	-.0000002632	0.0000000252
PCB_103	0.0000000133	-.0000000005	0.0000000592	0.0000000184	0.0000000068
PCB_104	0.0000000005	-.0000000000	0.0000000028	0.0000000002	0.0000000002
PCB_105	-.0000000726	-.0000000096	-.0000003405	-.0000002624	-.0000000766
PCB_106	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_109	0.0000000103	-.0000000027	0.0000002022	-.0000000126	0.0000000002
PCB_111	0.0000000014	-.0000000001	0.0000000165	0.0000000021	0.0000000010
PCB_112	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_114	-.0000000070	-.0000000011	-.0000000507	-.0000000161	-.0000000085
PCB_118	-.0000000198	-.0000000147	0.0000019864	-.0000006183	-.0000000146
PCB_120	0.0000000046	-.0000000002	0.0000000554	0.0000000061	0.0000000030
PCB_121	0.0000000005	-.0000000000	0.0000000053	0.0000000005	0.0000000003
PCB_122	-.0000000020	-.0000000001	-.0000000118	-.0000000053	-.0000000017
PCB_123	-.0000000011	-.0000000007	0.0000000154	0.0000000110	-.0000000040
PCB_126	-.0000000003	0.0000000001	-.0000000072	0.0000000044	-.0000000003
PCB_127	-.0000000005	0.0000000000	0.0000000032	-.0000000006	-.0000000003
PCB_130	-.0000000175	-.0000000010	-.0000000282	-.0000000103	-.0000000134
PCB_131	-.0000000063	-.0000000002	-.0000000157	-.0000000090	-.0000000040
PCB_132	-.0000001213	0.0000000062	-.0000001046	-.0000004680	-.0000000410
PCB_133	-.0000000011	0.0000000000	0.0000000593	0.0000000036	0.0000000003

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_63	0.0000000005	0.0000003120	0.0000000754	0.0000001234	0.0000000163
PCB_64	0.0000000128	0.0000044578	0.0000007596	0.0000019529	0.0000005099
PCB_66	0.0000000002	0.0000023532	0.0000005614	0.0000010141	0.0000000346
PCB_67	0.0000000005	0.0000002142	0.0000000456	0.0000000938	0.0000000208
PCB_68	0.0000000005	0.0000008946	0.0000002252	0.0000003893	0.0000000190
PCB_72	0.0000000019	0.0000015025	0.0000003367	0.0000006696	0.0000000743
PCB_73	-.0000000004	-.0000001366	-.0000000512	-.0000000560	-.0000000121
PCB_77	0.0000000009	0.0000001225	0.0000000158	0.0000000436	0.0000000342
PCB_78	0.0000000000	0.0000000024	0.0000000014	0.0000000001	-.0000000003
PCB_79	-.0000000005	-.0000001361	-.0000000237	-.0000000582	-.0000000178
PCB_80	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_81	0.0000000000	-.0000000003	-.0000000001	-.0000000001	0.0000000015
PCB_82	-.0000000017	-.0000005832	-.0000000388	-.0000003011	-.0000000606
PCB_83	0.0000000027	0.0000015233	0.0000003308	0.0000006778	0.0000001202
PCB_84	0.0000000071	0.0000038607	0.0000005517	0.0000019928	0.0000003890
PCB_89	0.0000000003	-.0000000346	-.0000000171	-.0000000141	0.0000000129
PCB_92	0.0000000111	0.0000055251	0.0000011191	0.0000023612	0.0000004262
PCB_94	0.0000000007	0.0000004718	0.0000001094	0.0000002072	0.0000000324
PCB_95	0.0000000219	0.0000119457	0.0000011137	0.0000067207	0.0000012264
PCB_96	0.0000000008	0.0000004497	0.0000000818	0.0000002130	0.0000000376
PCB_99	-.0000000229	-.0000004567	0.0000005989	0.0000000405	-.0000009857
PCB_103	0.0000000012	0.0000007738	0.0000001829	0.0000003321	0.0000000500
PCB_104	0.0000000000	0.0000000243	0.0000000055	0.0000000115	0.0000000010
PCB_105	-.0000000292	-.0000074628	-.0000009285	-.0000034423	-.0000011175
PCB_106	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_109	-.0000000030	0.0000000994	0.0000002823	-.0000000834	-.0000001344
PCB_111	0.0000000001	0.0000000940	0.0000000262	0.0000000360	0.0000000027
PCB_112	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_114	-.0000000026	-.0000007733	-.0000001036	-.0000003807	-.0000001080
PCB_118	-.0000000456	-.0000044510	0.0000004318	-.0000014270	-.0000016914
PCB_120	0.0000000004	0.0000002924	0.0000000796	0.0000001154	0.0000000111
PCB_121	0.0000000000	0.0000000337	0.0000000089	0.0000000139	0.0000000011
PCB_122	-.0000000005	-.0000001618	-.0000000220	-.0000000752	-.0000000184
PCB_123	-.0000000005	-.0000002744	-.0000000179	-.0000001999	-.0000000367
PCB_126	0.0000000002	-.0000000103	-.0000000025	-.0000000176	0.0000000063
PCB_127	-.0000000001	-.0000000308	-.0000000017	-.0000000171	-.0000000033
PCB_130	-.0000000031	-.0000013302	-.0000001651	-.0000007391	-.0000001593
PCB_131	-.0000000011	-.0000004375	-.0000000608	-.0000002186	-.0000000505
PCB_132	-.0000000232	-.0000063035	-.0000013120	-.0000021322	-.0000007514
PCB_133	0.0000000001	-.0000000081	0.0000000393	-.0000000548	-.0000000102

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_63	0.0000010884	0.0000000338	-.0000000004	-.0000000209	0.0000000257
PCB_64	0.0000177826	0.0000004025	-.0000000007	0.0000001705	0.0000003239
PCB_66	0.0000092145	0.0000003183	-.0000000040	-.0000002274	0.0000001686
PCB_67	0.0000008634	0.0000000208	-.0000000001	0.0000000077	0.0000000152
PCB_68	0.0000035627	0.0000001004	-.0000000011	-.0000001261	0.0000000882
PCB_72	0.0000061664	0.0000001517	-.0000000012	-.0000001393	0.0000001425
PCB_73	-.0000005061	-.0000000105	0.0000000001	0.0000000139	-.0000000190
PCB_77	0.0000001752	0.0000000000	0.0000000003	0.0000000446	0.0000000028
PCB_78	-.0000000095	-.0000000005	0.0000000000	-.0000000015	0.0000000006
PCB_79	-.0000004546	-.0000000094	-.0000000001	-.0000000030	-.0000000112
PCB_80	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_81	-.0000000321	-.0000000011	0.0000000000	0.0000000025	-.0000000004
PCB_82	-.0000023737	-.0000000224	-.0000000010	0.0000000611	-.0000000651
PCB_83	0.0000066981	0.0000001325	-.0000000007	0.0000000495	0.0000001131
PCB_84	0.0000207414	0.0000004492	-.0000000017	0.0000002647	0.0000002326
PCB_89	-.0000002856	-.0000000101	0.0000000003	0.0000000324	-.0000000085
PCB_92	0.0000220654	0.0000005184	-.0000000032	-.0000001226	0.0000004530
PCB_94	0.0000018753	0.0000000545	-.0000000005	-.0000000080	0.0000000343
PCB_95	0.0000646084	0.0000012014	0.0000000048	0.0000003754	0.0000008097
PCB_96	0.0000020006	0.0000000461	-.0000000002	-.0000000071	0.0000000359
PCB_99	0.0000077956	0.0000001072	-.0000000109	-.0000022118	0.0000004876
PCB_103	0.0000029232	0.0000000746	-.0000000005	-.0000000366	0.0000000663
PCB_104	0.0000000997	0.0000000031	-.0000000000	-.0000000024	0.0000000020
PCB_105	-.0000263974	-.0000003738	-.0000000096	-.0000003925	-.0000005932
PCB_106	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_109	-.0000010775	0.0000000465	-.0000000027	-.0000002265	0.0000000376
PCB_111	0.0000003048	0.0000000071	-.0000000001	-.0000000144	0.0000000107
PCB_112	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_114	-.0000028897	-.0000000384	-.0000000011	-.0000000309	-.0000000632
PCB_118	-.0000096054	0.0000000385	-.0000000147	-.0000027508	0.0000001563
PCB_120	0.0000009074	0.0000000232	-.0000000002	-.0000000429	0.0000000323
PCB_121	0.0000001182	0.0000000029	-.0000000000	-.0000000045	0.0000000035
PCB_122	-.0000006649	-.0000000116	-.0000000001	0.0000000049	-.0000000154
PCB_123	-.0000019376	-.0000000145	-.0000000007	-.0000000295	-.0000000217
PCB_126	-.0000002445	-.0000000040	0.0000000001	0.0000000146	-.0000000038
PCB_127	-.0000001915	-.0000000035	0.0000000000	-.0000000016	-.0000000021
PCB_130	-.0000066275	-.0000001196	-.0000000010	-.0000000413	-.0000001016
PCB_131	-.0000018828	-.0000000388	-.0000000002	-.0000000084	-.0000000328
PCB_132	-.0000190697	-.0000006228	0.0000000062	-.0000000906	-.0000004915
PCB_133	-.0000009782	-.0000000166	0.0000000000	-.0000000303	0.0000000059

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_63	0.0000000132	-.0000000246	0.0000000331	0.0000002915	0.0000002976
PCB_64	0.0000001662	-.0000000047	0.0000002915	0.0000050295	0.0000016334
PCB_66	0.0000001091	-.0000003240	0.0000002976	0.0000016334	0.0000037819
PCB_67	0.0000000083	-.0000000056	0.0000000157	0.0000002266	0.0000001216
PCB_68	0.0000000476	-.0000001225	0.0000000929	0.0000007709	0.0000008831
PCB_72	0.0000000762	-.0000001484	0.0000001300	0.0000014399	0.0000010706
PCB_73	-.0000000069	0.0000000087	-.0000000058	-.0000001939	0.0000001058
PCB_77	0.0000000024	0.0000000331	0.0000000002	0.0000001925	-.0000000782
PCB_78	0.0000000003	-.0000000005	0.0000000003	0.0000000025	0.0000000002
PCB_79	-.0000000057	-.0000000031	-.0000000068	-.0000001679	0.0000000031
PCB_80	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_81	0.0000000001	0.0000000022	-.0000000010	0.0000000029	-.0000000115
PCB_82	-.0000000389	0.0000000189	-.0000000142	-.0000006822	0.0000001159
PCB_83	0.0000000661	-.0000000748	0.0000001141	0.0000015275	0.0000011021
PCB_84	0.0000001486	-.0000001524	0.0000002422	0.0000038057	0.0000027400
PCB_89	-.0000000027	0.0000000253	-.0000000102	-.0000000040	-.0000001025
PCB_92	0.0000002361	-.0000002789	0.0000004547	0.0000056720	0.0000035513
PCB_94	0.0000000196	-.0000000325	0.0000000429	0.0000004420	0.0000004184
PCB_95	0.0000005962	-.0000005564	0.0000005231	0.0000116142	0.0000066115
PCB_96	0.0000000202	-.0000000253	0.0000000315	0.0000004562	0.0000002571
PCB_99	0.0000001740	-.0000015075	0.0000001657	-.0000017128	0.0000007797
PCB_103	0.0000000362	-.0000000553	0.0000000657	0.0000007624	0.0000005412
PCB_104	0.0000000012	-.0000000029	0.0000000023	0.0000000203	0.0000000247
PCB_105	-.0000003436	-.0000003415	-.0000002173	-.0000094302	0.0000013646
PCB_106	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_109	0.0000000147	-.0000001841	0.0000000981	-.0000002642	0.0000011896
PCB_111	0.0000000053	-.0000000105	0.0000000091	0.0000000934	0.0000000598
PCB_112	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_114	-.0000000407	-.0000000175	-.0000000176	-.0000009360	0.0000001082
PCB_118	0.0000000735	-.0000019986	0.0000000121	-.0000077688	0.0000025287
PCB_120	0.0000000164	-.0000000300	0.0000000268	0.0000002926	0.0000001684
PCB_121	0.0000000019	-.0000000038	0.0000000032	0.0000000319	0.0000000251
PCB_122	-.0000000077	0.0000000019	-.0000000075	-.0000001955	0.0000000078
PCB_123	-.0000000202	0.0000000129	0.0000000112	-.0000002954	0.0000000623
PCB_126	-.0000000026	0.0000000151	-.0000000002	0.0000000099	-.0000000249
PCB_127	-.0000000012	0.0000000011	-.0000000015	-.0000000318	-.0000000163
PCB_130	-.0000000685	0.0000000363	-.0000000382	-.0000014467	-.0000001979
PCB_131	-.0000000204	0.0000000072	-.0000000206	-.0000004764	-.0000001222
PCB_132	-.0000001501	-.0000001687	-.0000005800	-.0000078217	-.0000017319
PCB_133	0.0000000022	0.0000000015	0.0000000093	-.0000000016	0.0000000127

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_63	0.0000000157	0.0000000929	0.0000001300	-.0000000058	0.0000000002
PCB_64	0.0000002266	0.0000007709	0.0000014399	-.0000001939	0.0000001925
PCB_66	0.0000001216	0.0000008831	0.0000010706	0.0000001058	-.0000000782
PCB_67	0.0000000118	0.0000000431	0.0000000728	-.0000000074	0.0000000065
PCB_68	0.0000000431	0.0000003184	0.0000004496	-.0000000260	-.0000000148
PCB_72	0.0000000728	0.0000004496	0.0000006921	-.0000000621	0.0000000065
PCB_73	-.0000000074	-.0000000260	-.0000000621	0.0000000346	-.0000000053
PCB_77	0.0000000065	-.0000000148	0.0000000065	-.0000000053	0.0000000224
PCB_78	0.0000000000	0.0000000017	0.0000000029	-.0000000003	0.0000000002
PCB_79	-.0000000062	-.0000000204	-.0000000461	0.0000000106	-.0000000090
PCB_80	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_81	-.0000000001	-.0000000024	-.0000000015	-.0000000001	0.0000000015
PCB_82	-.0000000173	-.0000001289	-.0000002912	0.0000000390	-.0000000420
PCB_83	0.0000000874	0.0000003512	0.0000005752	-.0000000220	0.0000000389
PCB_84	0.0000002202	0.0000007216	0.0000012194	-.0000000170	0.0000000822
PCB_89	-.0000000016	-.0000000360	-.0000000388	0.0000000043	0.0000000117
PCB_92	0.0000002805	0.0000013485	0.0000021602	-.0000001738	0.0000001179
PCB_94	0.0000000255	0.0000001232	0.0000001793	-.0000000083	0.0000000028
PCB_95	0.0000005864	0.0000023611	0.0000044091	0.0000000016	0.0000004099
PCB_96	0.0000000227	0.0000001039	0.0000001737	-.0000000157	0.0000000096
PCB_99	-.0000000591	0.0000015649	0.0000019943	-.0000005276	-.0000005988
PCB_103	0.0000000394	0.0000002093	0.0000003260	-.0000000279	0.0000000114
PCB_104	0.0000000012	0.0000000078	0.0000000109	-.0000000004	-.0000000003
PCB_105	-.0000003219	-.0000008904	-.0000024990	0.0000004911	-.0000006523
PCB_106	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_109	0.0000000113	0.0000002958	0.0000002500	0.0000000042	-.0000000934
PCB_111	0.0000000043	0.0000000323	0.0000000498	-.0000000059	0.0000000007
PCB_112	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_114	-.0000000337	-.0000001076	-.0000002850	0.0000000474	-.0000000650
PCB_118	-.0000002478	0.0000014147	0.0000010264	-.0000002437	-.0000010297
PCB_120	0.0000000130	0.0000000964	0.0000001510	-.0000000193	0.0000000033
PCB_121	0.0000000016	0.0000000114	0.0000000173	-.0000000015	0.0000000001
PCB_122	-.0000000068	-.0000000291	-.0000000632	0.0000000133	-.0000000089
PCB_123	-.0000000147	-.0000000331	-.0000001158	0.0000000107	-.0000000226
PCB_126	-.0000000005	-.0000000147	-.0000000209	0.0000000019	0.0000000050
PCB_127	-.0000000016	-.0000000053	-.0000000099	0.0000000002	-.0000000008
PCB_130	-.0000000642	-.0000002192	-.0000004872	0.0000000645	-.0000000675
PCB_131	-.0000000205	-.0000000782	-.0000001565	0.0000000176	-.0000000210
PCB_132	-.0000003123	-.0000010301	-.0000017704	0.0000005070	-.0000002383
PCB_133	-.0000000027	0.0000000253	0.0000000298	-.0000000035	0.0000000042

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_63	0.0000000003	-.0000000068	-.0000000004	-.0000000010	-.0000000142
PCB_64	0.0000000025	-.0000001679	-.0000000007	0.0000000029	-.0000006822
PCB_66	0.0000000002	0.0000000031	-.0000000040	-.0000000115	0.0000001159
PCB_67	0.0000000000	-.0000000062	-.0000000001	-.0000000001	-.0000000173
PCB_68	0.0000000017	-.0000000204	-.0000000011	-.0000000024	-.0000001289
PCB_72	0.0000000029	-.0000000461	-.0000000012	-.0000000015	-.0000002912
PCB_73	-.0000000003	0.0000000106	0.0000000001	-.0000000001	0.0000000390
PCB_77	0.0000000002	-.0000000090	0.0000000003	0.0000000015	-.0000000420
PCB_78	0.0000000001	-.0000000003	0.0000000000	0.0000000000	-.0000000042
PCB_79	-.0000000003	0.0000000077	-.0000000001	-.0000000005	0.0000000436
PCB_80	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_81	0.0000000000	-.0000000005	0.0000000000	0.0000000002	-.0000000055
PCB_82	-.0000000042	0.0000000436	-.0000000010	-.0000000055	0.0000004689
PCB_83	0.0000000014	-.0000000356	-.0000000007	-.0000000000	-.0000001674
PCB_84	-.0000000045	-.0000000713	-.0000000017	-.0000000017	-.0000002080
PCB_89	0.0000000000	-.0000000016	0.0000000003	0.0000000012	-.0000000178
PCB_92	0.0000000067	-.0000001676	-.0000000032	-.0000000044	-.0000007756
PCB_94	-.0000000001	-.0000000093	-.0000000005	-.0000000010	-.0000000119
PCB_95	0.0000000131	-.0000003611	0.0000000048	0.0000000434	-.0000035969
PCB_96	0.0000000004	-.0000000141	-.0000000002	0.0000000001	-.0000000776
PCB_99	0.0000000192	0.0000000061	-.0000000109	-.0000000350	-.0000008790
PCB_103	0.0000000012	-.0000000231	-.0000000005	-.0000000004	-.0000001168
PCB_104	0.0000000000	-.0000000005	-.0000000000	-.0000000000	-.0000000025
PCB_105	-.0000000258	0.0000004730	-.0000000096	-.0000000531	0.0000035300
PCB_106	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_109	0.0000000002	0.0000000293	-.0000000027	-.0000000092	0.0000003077
PCB_111	0.0000000004	-.0000000037	-.0000000001	-.0000000001	-.0000000267
PCB_112	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_114	-.0000000031	0.0000000483	-.0000000011	-.0000000065	0.0000004107
PCB_118	0.0000000072	0.0000002651	-.0000000147	-.0000000466	0.0000005203
PCB_120	0.0000000012	-.0000000124	-.0000000002	0.0000000000	-.0000000879
PCB_121	0.0000000001	-.0000000012	-.0000000000	-.0000000000	-.0000000086
PCB_122	-.0000000005	0.0000000094	-.0000000001	-.0000000006	0.0000000660
PCB_123	-.0000000011	0.0000000148	-.0000000007	-.0000000039	0.0000002039
PCB_126	-.0000000001	-.0000000004	0.0000000001	0.0000000001	0.0000000136
PCB_127	0.0000000000	0.0000000008	0.0000000000	-.0000000000	0.0000000053
PCB_130	-.0000000021	0.0000000605	-.0000000010	-.0000000071	0.0000005022
PCB_131	-.0000000007	0.0000000189	-.0000000002	-.0000000016	0.0000001360
PCB_132	0.0000000038	0.0000002617	0.0000000062	0.0000000235	-.0000001100
PCB_133	0.0000000013	-.0000000045	0.0000000000	0.0000000005	-.0000000430

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_63	0.0000001141	0.0000002422	-.0000000102	0.0000004547	0.0000000429
PCB_64	0.0000015275	0.0000038057	-.0000000040	0.0000056720	0.0000004420
PCB_66	0.0000011021	0.0000027400	-.0000001025	0.0000035513	0.0000004184
PCB_67	0.0000000874	0.0000002202	-.0000000016	0.0000002805	0.0000000255
PCB_68	0.0000003512	0.0000007216	-.0000000360	0.0000013485	0.0000001232
PCB_72	0.0000005752	0.0000012194	-.0000000388	0.0000021602	0.0000001793
PCB_73	-.0000000220	-.0000000170	0.0000000043	-.0000001738	-.0000000083
PCB_77	0.0000000389	0.0000000822	0.0000000117	0.0000001179	0.0000000028
PCB_78	0.0000000014	-.0000000045	0.0000000000	0.0000000067	-.0000000001
PCB_79	-.0000000356	-.0000000713	-.0000000016	-.0000001676	-.0000000093
PCB_80	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_81	-.0000000000	-.0000000017	0.0000000012	-.0000000044	-.0000000010
PCB_82	-.0000001674	-.0000002080	-.0000000178	-.0000007756	-.0000000119
PCB_83	0.0000008029	0.0000018614	-.0000000107	0.0000021633	0.0000001905
PCB_84	0.0000018614	0.0000056646	-.0000000113	0.0000047802	0.0000004946
PCB_89	-.0000000107	-.0000000113	0.0000000106	-.0000000869	-.0000000106
PCB_92	0.0000021633	0.0000047802	-.0000000869	0.0000077362	0.0000006371
PCB_94	0.0000001905	0.0000004946	-.0000000106	0.0000006371	0.0000000661
PCB_95	0.0000056357	0.0000165039	0.0000001797	0.0000144862	0.0000012111
PCB_96	0.0000001746	0.0000004483	-.0000000046	0.0000005904	0.0000000507
PCB_99	-.0000001530	-.0000026290	-.0000004644	0.0000018375	0.0000000454
PCB_103	0.0000003064	0.0000006646	-.0000000146	0.0000010890	0.0000000940
PCB_104	0.0000000090	0.0000000239	-.0000000007	0.0000000330	0.0000000035
PCB_105	-.0000022631	-.0000045436	-.0000002553	-.0000089348	-.0000003493
PCB_106	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_109	0.0000001018	-.0000001140	-.0000000803	0.0000005549	0.0000001043
PCB_111	0.0000000350	0.0000000421	-.0000000031	0.0000001501	0.0000000102
PCB_112	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_114	-.0000002737	-.0000005784	-.0000000296	-.0000009241	-.0000000380
PCB_118	-.0000015412	-.0000044158	-.0000005687	-.0000038336	-.0000000500
PCB_120	0.0000000977	0.0000001238	-.0000000081	0.0000004465	0.0000000307
PCB_121	0.0000000133	0.0000000215	-.0000000010	0.0000000519	0.0000000039
PCB_122	-.0000000433	-.0000000851	-.0000000010	-.0000002063	-.0000000097
PCB_123	-.0000001950	-.0000005499	-.0000000198	-.0000002948	-.0000000134
PCB_126	-.0000000141	-.0000000466	0.0000000024	-.0000000204	-.0000000028
PCB_127	-.0000000140	-.0000000437	-.0000000001	-.0000000379	-.0000000032
PCB_130	-.0000005260	-.0000015319	-.0000000285	-.0000015149	-.0000001070
PCB_131	-.0000001540	-.0000004125	-.0000000056	-.0000005260	-.0000000378
PCB_132	-.0000010338	-.0000020198	0.0000001610	-.0000082124	-.0000006376
PCB_133	-.0000000235	-.0000002669	-.0000000015	0.0000000728	-.0000000047

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_63	0.0000005231	0.0000000315	0.0000001657	0.0000000657	0.0000000023
PCB_64	0.0000116142	0.0000004562	-.0000017128	0.0000007624	0.0000000203
PCB_66	0.0000066115	0.0000002571	0.0000007797	0.0000005412	0.0000000247
PCB_67	0.0000005864	0.0000000227	-.0000000591	0.0000000394	0.0000000012
PCB_68	0.0000023611	0.0000001039	0.0000015649	0.0000002093	0.0000000078
PCB_72	0.0000044091	0.0000001737	0.0000019943	0.0000003260	0.0000000109
PCB_73	0.0000000016	-.0000000157	-.0000005276	-.0000000279	-.0000000004
PCB_77	0.0000004099	0.0000000096	-.0000005988	0.0000000114	-.0000000003
PCB_78	0.0000000131	0.0000000004	0.0000000192	0.0000000012	0.0000000000
PCB_79	-.0000003611	-.0000000141	0.0000000061	-.0000000231	-.0000000005
PCB_80	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_81	0.0000000434	0.0000000001	-.0000000350	-.0000000004	-.0000000000
PCB_82	-.0000035969	-.0000000776	-.0000008790	-.0000001168	-.0000000025
PCB_83	0.0000056357	0.0000001746	-.0000001530	0.0000003064	0.0000000090
PCB_84	0.0000165039	0.0000004483	-.0000026290	0.0000006646	0.0000000239
PCB_89	0.0000001797	-.0000000046	-.0000004644	-.0000000146	-.0000000007
PCB_92	0.0000144862	0.0000005904	0.0000018375	0.0000010890	0.0000000330
PCB_94	0.0000012111	0.0000000507	0.0000000454	0.0000000940	0.0000000035
PCB_95	0.0000734621	0.0000015492	-.0000041230	0.0000021436	0.0000000772
PCB_96	0.0000015492	0.0000000513	0.0000001619	0.0000000860	0.0000000028
PCB_99	-.0000041230	0.0000001619	0.0000368302	0.0000005291	0.0000000232
PCB_103	0.0000021436	0.0000000860	0.0000005291	0.0000001619	0.0000000052
PCB_104	0.0000000772	0.0000000028	0.0000000232	0.0000000052	0.0000000002
PCB_105	-.0000318998	-.0000008327	0.0000033467	-.0000012256	-.0000000206
PCB_106	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_109	-.0000028328	0.0000000078	0.0000026565	0.0000001171	0.0000000065
PCB_111	0.0000002037	0.0000000107	0.0000002082	0.0000000228	0.0000000006
PCB_112	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_114	-.0000041612	-.0000000948	0.0000001389	-.0000001360	-.0000000028
PCB_118	-.0000113120	-.0000001768	0.0000410631	-.0000000008	0.0000000313
PCB_120	0.0000006686	0.0000000332	0.0000005959	0.0000000689	0.0000000020
PCB_121	0.0000000935	0.0000000039	0.0000000617	0.0000000080	0.0000000003
PCB_122	-.0000005382	-.0000000182	-.0000001297	-.0000000288	-.0000000006
PCB_123	-.0000032726	-.0000000497	-.0000000761	-.0000000519	-.0000000014
PCB_126	-.0000002771	-.0000000049	-.0000002650	-.0000000065	-.0000000004
PCB_127	-.0000001528	-.0000000037	0.0000000130	-.0000000050	-.0000000002
PCB_130	-.0000076368	-.0000001729	-.0000000974	-.0000002325	-.0000000071
PCB_131	-.0000019334	-.0000000513	0.0000000622	-.0000000768	-.0000000023
PCB_132	0.0000067406	-.0000004680	0.0000014501	-.0000009900	-.0000000212
PCB_133	-.0000006128	-.0000000053	0.0000002106	0.0000000132	-.0000000001

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_63	-.0000002173	-.0000000004	0.0000000981	0.0000000091	-.0000000004
PCB_64	-.0000094302	-.0000000007	-.0000002642	0.0000000934	-.0000000007
PCB_66	0.0000013646	-.0000000040	0.0000011896	0.0000000598	-.0000000040
PCB_67	-.0000003219	-.0000000001	0.0000000113	0.0000000043	-.0000000001
PCB_68	-.0000008904	-.0000000011	0.0000002958	0.0000000323	-.0000000011
PCB_72	-.0000024990	-.0000000012	0.0000002500	0.0000000498	-.0000000012
PCB_73	0.0000004911	0.0000000001	0.0000000042	-.0000000059	0.0000000001
PCB_77	-.0000006523	0.0000000003	-.0000000934	0.0000000007	0.0000000003
PCB_78	-.0000000258	0.0000000000	0.0000000002	0.0000000004	0.0000000000
PCB_79	0.0000004730	-.0000000001	0.0000000293	-.0000000037	-.0000000001
PCB_80	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_81	-.0000000531	0.0000000000	-.0000000092	-.0000000001	0.0000000000
PCB_82	0.0000035300	-.0000000010	0.0000003077	-.0000000267	-.0000000010
PCB_83	-.0000022631	-.0000000007	0.0000001018	0.0000000350	-.0000000007
PCB_84	-.0000045436	-.0000000017	-.0000001140	0.0000000421	-.0000000017
PCB_89	-.0000002553	0.0000000003	-.0000000803	-.0000000031	0.0000000003
PCB_92	-.0000089348	-.0000000032	0.0000005549	0.0000001501	-.0000000032
PCB_94	-.0000003493	-.0000000005	0.0000001043	0.0000000102	-.0000000005
PCB_95	-.0000318998	0.0000000048	-.0000028328	0.0000002037	0.0000000048
PCB_96	-.0000008327	-.0000000002	0.0000000078	0.0000000107	-.0000000002
PCB_99	0.0000033467	-.0000000109	0.0000026565	0.0000002082	-.0000000109
PCB_103	-.0000012256	-.0000000005	0.0000001171	0.0000000228	-.0000000005
PCB_104	-.0000000206	-.0000000000	0.0000000065	0.0000000006	-.0000000000
PCB_105	0.0000342501	-.0000000096	0.0000032423	-.0000002044	-.0000000096
PCB_106	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_109	0.0000032423	-.0000000027	0.0000009330	0.0000000223	-.0000000027
PCB_111	-.0000002044	-.0000000001	0.0000000223	0.0000000044	-.0000000001
PCB_112	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_114	0.0000037468	-.0000000011	0.0000003590	-.0000000220	-.0000000011
PCB_118	0.0000201646	-.0000000147	0.0000045400	0.0000000966	-.0000000147
PCB_120	-.0000006902	-.0000000002	0.0000000569	0.0000000131	-.0000000002
PCB_121	-.0000000651	-.0000000000	0.0000000076	0.0000000014	-.0000000000
PCB_122	0.0000006135	-.0000000001	0.0000000410	-.0000000052	-.0000000001
PCB_123	0.0000016668	-.0000000007	0.0000002415	-.0000000049	-.0000000007
PCB_126	0.0000000133	0.0000000001	-.0000000070	-.0000000011	0.0000000001
PCB_127	0.0000000589	0.0000000000	0.0000000060	-.0000000004	0.0000000000
PCB_130	0.0000047053	-.0000000010	0.0000004513	-.0000000265	-.0000000010
PCB_131	0.0000013338	-.0000000002	0.0000000943	-.0000000097	-.0000000002
PCB_132	0.0000076013	0.0000000062	-.0000009575	-.0000001468	0.0000000062
PCB_133	-.0000002349	0.0000000000	0.0000000626	0.0000000073	0.0000000000

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_63	-.0000000176	0.0000000121	0.0000000268	0.0000000032	-.0000000075
PCB_64	-.0000009360	-.0000077688	0.0000002926	0.0000000319	-.0000001955
PCB_66	0.0000001082	0.0000025287	0.0000001684	0.0000000251	0.0000000078
PCB_67	-.0000000337	-.0000002478	0.0000000130	0.0000000016	-.0000000068
PCB_68	-.0000001076	0.0000014147	0.0000000964	0.0000000114	-.0000000291
PCB_72	-.0000002850	0.0000010264	0.0000001510	0.0000000173	-.0000000632
PCB_73	0.0000000474	-.0000002437	-.0000000193	-.0000000015	0.0000000133
PCB_77	-.0000000650	-.0000010297	0.0000000033	0.0000000001	-.0000000089
PCB_78	-.0000000031	0.0000000072	0.0000000012	0.0000000001	-.0000000005
PCB_79	0.0000000483	0.0000002651	-.0000000124	-.0000000012	0.0000000094
PCB_80	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_81	-.0000000065	-.0000000466	0.0000000000	-.0000000000	-.0000000006
PCB_82	0.0000004107	0.0000005203	-.0000000879	-.0000000086	0.0000000660
PCB_83	-.0000002737	-.0000015412	0.0000000977	0.0000000133	-.0000000433
PCB_84	-.0000005784	-.0000044158	0.0000001238	0.0000000215	-.0000000851
PCB_89	-.0000000296	-.0000005687	-.0000000081	-.0000000010	-.0000000010
PCB_92	-.0000009241	-.0000038336	0.0000004465	0.0000000519	-.0000002063
PCB_94	-.0000000380	-.0000000500	0.0000000307	0.0000000039	-.0000000097
PCB_95	-.0000041612	-.0000113120	0.0000006686	0.0000000935	-.0000005382
PCB_96	-.0000000948	-.0000001768	0.0000000332	0.0000000039	-.0000000182
PCB_99	0.0000001389	0.0000410631	0.0000005959	0.0000000617	-.0000001297
PCB_103	-.0000001360	-.0000000008	0.0000000689	0.0000000080	-.0000000288
PCB_104	-.0000000028	0.0000000313	0.0000000020	0.0000000003	-.0000000006
PCB_105	0.0000037468	0.0000201646	-.0000006902	-.0000000651	0.0000006135
PCB_106	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_109	0.0000003590	0.0000045400	0.0000000569	0.0000000076	0.0000000410
PCB_111	-.0000000220	0.0000000966	0.0000000131	0.0000000014	-.0000000052
PCB_112	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_114	0.0000004335	0.0000016266	-.0000000750	-.0000000075	0.0000000652
PCB_118	0.0000016266	0.0000638454	0.0000002902	0.0000000355	0.0000001945
PCB_120	-.0000000750	0.0000002902	0.0000000399	0.0000000042	-.0000000169
PCB_121	-.0000000075	0.0000000355	0.0000000042	0.0000000005	-.0000000016
PCB_122	0.0000000652	0.0000001945	-.0000000169	-.0000000016	0.0000000127
PCB_123	0.0000002321	0.0000002061	-.0000000178	-.0000000026	0.0000000249
PCB_126	0.0000000093	-.0000003696	-.0000000033	-.0000000005	0.0000000011
PCB_127	0.0000000071	0.0000000450	-.0000000012	-.0000000002	0.0000000011
PCB_130	0.0000005786	0.0000011468	-.0000000930	-.0000000106	0.0000000845
PCB_131	0.0000001538	0.0000005380	-.0000000325	-.0000000036	0.0000000249
PCB_132	0.0000001731	0.0000132384	-.0000004523	-.0000000387	0.0000002509
PCB_133	-.0000000168	0.0000000144	0.0000000218	0.0000000019	-.0000000048

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_63	0.0000000112	-.0000000002	-.0000000015	-.0000000382	-.0000000206
PCB_64	-.0000002954	0.0000000099	-.0000000318	-.0000014467	-.0000004764
PCB_66	0.0000000623	-.0000000249	-.0000000163	-.0000001979	-.0000001222
PCB_67	-.0000000147	-.0000000005	-.0000000016	-.0000000642	-.0000000205
PCB_68	-.0000000331	-.0000000147	-.0000000053	-.0000002192	-.0000000782
PCB_72	-.0000001158	-.0000000209	-.0000000099	-.0000004872	-.0000001565
PCB_73	0.0000000107	0.0000000019	0.0000000002	0.0000000645	0.0000000176
PCB_77	-.0000000226	0.0000000050	-.0000000008	-.0000000675	-.0000000210
PCB_78	-.0000000011	-.0000000001	0.0000000000	-.0000000021	-.0000000007
PCB_79	0.0000000148	-.0000000004	0.0000000008	0.0000000605	0.0000000189
PCB_80	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_81	-.0000000039	0.0000000001	-.0000000000	-.0000000071	-.0000000016
PCB_82	0.0000002039	0.0000000136	0.0000000053	0.0000005022	0.0000001360
PCB_83	-.0000001950	-.0000000141	-.0000000140	-.0000005260	-.0000001540
PCB_84	-.0000005499	-.0000000466	-.0000000437	-.0000015319	-.0000004125
PCB_89	-.0000000198	0.0000000024	-.0000000001	-.0000000285	-.0000000056
PCB_92	-.0000002948	-.0000000204	-.0000000379	-.0000015149	-.0000005260
PCB_94	-.0000000134	-.0000000028	-.0000000032	-.0000001070	-.0000000378
PCB_95	-.0000032726	-.0000002771	-.0000001528	-.0000076368	-.0000019334
PCB_96	-.0000000497	-.0000000049	-.0000000037	-.0000001729	-.0000000513
PCB_99	-.0000000761	-.0000002650	0.0000000130	-.0000000974	0.0000000622
PCB_103	-.0000000519	-.0000000065	-.0000000050	-.0000002325	-.0000000768
PCB_104	-.0000000014	-.0000000004	-.0000000002	-.0000000071	-.0000000023
PCB_105	0.0000016668	0.0000000133	0.0000000589	0.0000047053	0.0000013338
PCB_106	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_109	0.0000002415	-.0000000070	0.0000000060	0.0000004513	0.0000000943
PCB_111	-.0000000049	-.0000000011	-.0000000004	-.0000000265	-.0000000097
PCB_112	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_114	0.0000002321	0.0000000093	0.0000000071	0.0000005786	0.0000001538
PCB_118	0.0000002061	-.0000003696	0.0000000450	0.0000011468	0.0000005380
PCB_120	-.0000000178	-.0000000033	-.0000000012	-.0000000930	-.0000000325
PCB_121	-.0000000026	-.0000000005	-.0000000002	-.0000000106	-.0000000036
PCB_122	0.0000000249	0.0000000011	0.0000000011	0.0000000845	0.0000000249
PCB_123	0.0000002089	0.0000000178	0.0000000058	0.0000003919	0.0000000836
PCB_126	0.0000000178	0.0000000041	0.0000000005	0.0000000303	0.0000000049
PCB_127	0.0000000058	0.0000000005	0.0000000004	0.0000000150	0.0000000040
PCB_130	0.0000003919	0.0000000303	0.0000000150	0.0000009620	0.0000002406
PCB_131	0.0000000836	0.0000000049	0.0000000040	0.0000002406	0.0000000665
PCB_132	-.0000010885	-.0000001653	0.0000000108	-.0000001558	0.0000002863
PCB_133	0.0000000324	0.0000000049	0.0000000022	0.0000000534	0.0000000043

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_63	-.0000005800	0.0000000093	0.0000000170	-.0000000707	-.0000004165
PCB_64	-.0000078217	-.0000000016	0.0000005396	-.0000026492	-.0000044900
PCB_66	-.0000017319	0.0000000127	0.0000000879	-.0000003753	-.0000038835
PCB_67	-.0000003123	-.0000000027	0.0000000286	-.0000001182	-.0000002429
PCB_68	-.0000010301	0.0000000253	0.0000000278	-.0000003304	-.0000013271
PCB_72	-.0000017704	0.0000000298	0.0000001001	-.0000007848	-.0000019776
PCB_73	0.0000005070	-.0000000035	-.0000000033	0.0000000831	0.0000001395
PCB_77	-.0000002383	0.0000000042	0.0000000557	-.0000001415	0.0000000130
PCB_78	0.0000000038	0.0000000013	0.0000000014	-.0000000035	-.0000000006
PCB_79	0.0000002617	-.0000000045	-.0000000191	0.0000001023	0.0000001096
PCB_80	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_81	0.0000000235	0.0000000005	0.0000000041	-.0000000120	0.0000000114
PCB_82	-.0000001100	-.0000000430	-.0000000978	0.0000008099	0.0000004230
PCB_83	-.0000010338	-.0000000235	0.0000002833	-.0000010286	-.0000017869
PCB_84	-.0000020198	-.0000002669	0.0000005020	-.0000028214	-.0000048271
PCB_89	0.0000001610	-.0000000015	0.0000000281	-.0000000607	0.0000001347
PCB_92	-.0000082124	0.0000000728	0.0000005763	-.0000027800	-.0000064829
PCB_94	-.0000006376	-.0000000047	0.0000000387	-.0000001855	-.0000006316
PCB_95	0.0000067406	-.0000006128	0.0000019202	-.0000130437	-.0000137235
PCB_96	-.0000004680	-.0000000053	0.0000000439	-.0000002925	-.0000005422
PCB_99	0.0000014501	0.0000002106	-.0000014197	0.0000011567	-.0000038325
PCB_103	-.0000009900	0.0000000132	0.0000000792	-.0000003942	-.0000009607
PCB_104	-.0000000212	-.0000000001	0.0000000007	-.0000000103	-.0000000364
PCB_105	0.0000076013	-.0000002349	-.0000015733	0.0000080955	0.0000047839
PCB_106	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_109	-.0000009575	0.0000000626	-.0000001227	0.0000008453	-.0000008682
PCB_111	-.0000001468	0.0000000073	0.0000000079	-.0000000427	-.0000001166
PCB_112	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_114	0.0000001731	-.0000000168	-.0000001827	0.0000009709	0.0000005382
PCB_118	0.0000132384	0.0000000144	-.0000023393	0.0000043656	-.0000025036
PCB_120	-.0000004523	0.0000000218	0.0000000224	-.0000001421	-.0000003566
PCB_121	-.0000000387	0.0000000019	0.0000000029	-.0000000170	-.0000000438
PCB_122	0.0000002509	-.0000000048	-.0000000171	0.0000001392	0.0000001425
PCB_123	-.0000010885	0.0000000324	-.0000001085	0.0000006523	0.0000002391
PCB_126	-.0000001653	0.0000000049	0.0000000067	0.0000000373	0.0000000597
PCB_127	0.0000000108	0.0000000022	-.0000000032	0.0000000275	0.0000000363
PCB_130	-.0000001558	0.0000000534	-.0000002185	0.0000015669	0.0000013526
PCB_131	0.0000002863	0.0000000043	-.0000000616	0.0000004002	0.0000004386
PCB_132	0.0000265313	-.0000002552	-.0000000678	0.0000000688	0.0000061638
PCB_133	-.0000002552	0.0000000442	0.0000000169	0.0000000895	0.0000000742

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_63	-.0000000005	-.0000000582	-.0000000000	-.0000001780	0.0000000023
PCB_64	-.0000000010	-.0000004658	-.0000000035	-.0000024171	0.0000000181
PCB_66	-.0000000056	-.0000008119	0.0000000006	-.0000023898	0.0000000151
PCB_67	-.0000000001	-.0000000313	-.0000000001	-.0000001585	0.0000000009
PCB_68	-.0000000016	-.0000002573	-.0000000007	-.0000007031	0.0000000061
PCB_72	-.0000000017	-.0000003595	-.0000000015	-.0000010889	0.0000000087
PCB_73	0.0000000001	-.0000000030	0.0000000003	0.0000000442	-.0000000009
PCB_77	0.0000000005	0.0000000352	-.0000000001	0.0000000628	0.0000000005
PCB_78	0.0000000000	-.0000000003	-.0000000000	0.0000000061	0.0000000001
PCB_79	-.0000000001	0.0000000053	0.0000000002	0.0000000259	-.0000000007
PCB_80	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_81	0.0000000001	0.0000000024	-.0000000000	0.0000000091	-.0000000000
PCB_82	-.0000000013	0.0000001210	0.0000000021	0.0000000981	-.0000000028
PCB_83	-.0000000009	-.0000003185	-.0000000009	-.0000013861	0.0000000061
PCB_84	-.0000000024	-.0000009745	-.0000000026	-.0000048239	0.0000000011
PCB_89	0.0000000005	0.0000000306	-.0000000000	0.0000000775	-.0000000005
PCB_92	-.0000000046	-.0000009483	-.0000000037	-.0000034567	0.0000000298
PCB_94	-.0000000006	-.0000000999	-.0000000001	-.0000004020	0.0000000022
PCB_95	0.0000000064	-.0000037125	-.0000000210	-.0000141726	-.0000000019
PCB_96	-.0000000003	-.0000000956	-.0000000005	-.0000003735	0.0000000016
PCB_99	-.0000000155	-.0000015918	-.0000000069	-.0000025658	0.0000000147
PCB_103	-.0000000007	-.0000001524	-.0000000006	-.0000005158	0.0000000045
PCB_104	-.0000000000	-.0000000073	-.0000000000	-.0000000231	0.0000000001
PCB_105	-.0000000133	0.0000004242	0.0000000156	0.0000014182	-.0000000298
PCB_106	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_109	-.0000000037	-.0000001429	0.0000000016	-.0000001451	0.0000000083
PCB_111	-.0000000001	-.0000000182	-.0000000001	-.0000000312	0.0000000009
PCB_112	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_114	-.0000000016	0.0000000934	0.0000000019	0.0000002910	-.0000000025
PCB_118	-.0000000209	-.0000020731	-.0000000021	-.0000033873	-.0000000057
PCB_120	-.0000000003	-.0000000543	-.0000000004	-.0000000911	0.0000000026
PCB_121	-.0000000000	-.0000000079	-.0000000000	-.0000000178	0.0000000003
PCB_122	-.0000000001	0.0000000178	0.0000000003	0.0000000539	-.0000000007
PCB_123	-.0000000010	0.0000001233	0.0000000012	0.0000005122	0.0000000018
PCB_126	0.0000000001	0.0000000301	0.0000000001	0.0000000946	0.0000000003
PCB_127	0.0000000000	0.0000000086	0.0000000000	0.0000000389	0.0000000000
PCB_130	-.0000000013	0.0000003172	0.0000000029	0.0000013137	-.0000000003
PCB_131	-.0000000002	0.0000000796	0.0000000007	0.0000003068	-.0000000011
PCB_132	0.0000000086	-.0000003896	-.0000000009	-.0000000035	-.0000000469
PCB_133	0.0000000001	0.0000000444	0.0000000001	0.0000003380	0.0000000028

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_63	0.0000000021	0.0000000015	0.0000000174	-.0000000002	-.0000001291
PCB_64	0.0000000129	0.0000000074	0.0000001234	0.0000000000	-.0000036506
PCB_66	0.0000000204	0.0000000180	0.0000001041	-.0000000019	-.0000009118
PCB_67	0.0000000008	0.0000000006	0.0000000063	-.0000000000	-.0000001616
PCB_68	0.0000000063	0.0000000047	0.0000000416	-.0000000005	-.0000005182
PCB_72	0.0000000083	0.0000000056	0.0000000555	-.0000000004	-.0000011135
PCB_73	-.0000000000	0.0000000001	-.0000000086	0.0000000001	0.0000000939
PCB_77	-.0000000000	-.0000000004	0.0000000023	0.0000000002	-.0000001692
PCB_78	0.0000000001	0.0000000000	0.0000000005	0.0000000000	-.0000000035
PCB_79	-.0000000003	-.0000000000	-.0000000042	-.0000000001	0.0000001345
PCB_80	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_81	-.0000000000	-.0000000000	-.0000000004	0.0000000000	-.0000000132
PCB_82	-.0000000016	0.0000000010	0.0000000023	-.0000000009	0.0000010248
PCB_83	0.0000000077	0.0000000054	0.0000000367	-.0000000001	-.0000013180
PCB_84	0.0000000085	0.0000000110	-.0000000169	-.0000000010	-.0000038356
PCB_89	-.0000000006	-.0000000006	-.0000000056	0.0000000002	-.0000000625
PCB_92	0.0000000272	0.0000000174	0.0000002053	-.0000000010	-.0000039165
PCB_94	0.0000000024	0.0000000022	0.0000000165	-.0000000002	-.0000002855
PCB_95	0.0000000226	0.0000000208	-.0000002992	0.0000000056	-.0000171391
PCB_96	0.0000000016	0.0000000012	0.0000000085	-.0000000000	-.0000004032
PCB_99	0.0000000162	0.0000000112	0.0000001294	-.0000000064	0.0000016358
PCB_103	0.0000000042	0.0000000029	0.0000000304	-.0000000001	-.0000005528
PCB_104	0.0000000001	0.0000000001	0.0000000007	-.0000000000	-.0000000166
PCB_105	-.0000000116	0.0000000083	-.0000000739	-.0000000083	0.0000102248
PCB_106	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_109	0.0000000089	0.0000000078	0.0000000822	-.0000000015	0.0000009893
PCB_111	0.0000000007	0.0000000004	0.0000000061	-.0000000000	-.0000000580
PCB_112	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_114	-.0000000013	0.0000000006	0.0000000018	-.0000000010	0.0000012088
PCB_118	0.0000000105	0.0000000252	-.0000000225	-.0000000092	0.0000054651
PCB_120	0.0000000021	0.0000000011	0.0000000175	-.0000000000	-.0000001967
PCB_121	0.0000000002	0.0000000001	0.0000000018	-.0000000000	-.0000000235
PCB_122	-.0000000003	0.0000000001	-.0000000033	-.0000000001	0.0000001821
PCB_123	0.0000000006	0.0000000005	0.0000000290	-.0000000006	0.0000007705
PCB_126	0.0000000000	-.0000000001	0.0000000033	0.0000000000	0.0000000457
PCB_127	-.0000000000	-.0000000000	0.0000000006	0.0000000000	0.0000000370
PCB_130	-.0000000008	-.0000000006	0.0000000280	-.0000000009	0.0000020072
PCB_131	-.0000000009	-.0000000005	-.0000000010	-.0000000002	0.0000005306
PCB_132	-.0000000209	-.0000000102	-.0000004726	0.0000000044	0.0000009569
PCB_133	0.0000000018	0.0000000004	0.0000000208	0.0000000002	0.0000001209

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_63	-.0000000003	-.0000000004	-.0000000004	-.0000000021	-.0000000972
PCB_64	-.0000000023	-.0000000007	-.0000000007	-.0000000278	-.0000012365
PCB_66	-.0000000043	-.0000000040	-.0000000040	-.0000000522	-.0000011777
PCB_67	-.0000000002	-.0000000001	-.0000000001	-.0000000018	-.0000000701
PCB_68	-.0000000036	-.0000000011	-.0000000011	-.0000000047	-.0000004103
PCB_72	-.0000000055	-.0000000012	-.0000000012	-.0000000051	-.0000006376
PCB_73	0.0000000008	0.0000000001	0.0000000001	-.0000000043	0.0000000213
PCB_77	0.0000000008	0.0000000003	0.0000000003	0.0000000055	0.0000000164
PCB_78	-.0000000000	0.0000000000	0.0000000000	0.0000000006	-.0000000003
PCB_79	0.0000000001	-.0000000001	-.0000000001	-.0000000021	0.0000000294
PCB_80	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_81	0.0000000000	0.0000000000	0.0000000000	0.0000000009	0.0000000012
PCB_82	0.0000000037	-.0000000010	-.0000000010	-.0000000175	0.0000002840
PCB_83	-.0000000034	-.0000000007	-.0000000007	-.0000000170	-.0000006209
PCB_84	-.0000000081	-.0000000017	-.0000000017	-.0000001251	-.0000019246
PCB_89	0.0000000005	0.0000000003	0.0000000003	0.0000000037	0.0000000299
PCB_92	-.0000000090	-.0000000032	-.0000000032	-.0000000376	-.0000018532
PCB_94	-.0000000007	-.0000000005	-.0000000005	-.0000000059	-.0000001825
PCB_95	-.0000000513	0.0000000048	0.0000000048	-.0000002304	-.0000073701
PCB_96	-.0000000012	-.0000000002	-.0000000002	-.0000000047	-.0000001904
PCB_99	-.0000000584	-.0000000109	-.0000000109	-.0000000202	-.0000016802
PCB_103	-.0000000019	-.0000000005	-.0000000005	-.0000000004	-.0000002881
PCB_104	-.0000000001	-.0000000000	-.0000000000	-.0000000003	-.0000000123
PCB_105	0.0000000134	-.0000000096	-.0000000096	-.0000001575	0.0000020964
PCB_106	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_109	-.0000000015	-.0000000027	-.0000000027	0.0000000088	-.0000000415
PCB_111	-.0000000004	-.0000000001	-.0000000001	0.0000000016	-.0000000311
PCB_112	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_114	0.0000000027	-.0000000011	-.0000000011	-.0000000187	0.0000003013
PCB_118	-.0000000678	-.0000000147	-.0000000147	0.0000000057	-.0000018159
PCB_120	-.0000000011	-.0000000002	-.0000000002	0.0000000058	-.0000000980
PCB_121	-.0000000001	-.0000000000	-.0000000000	0.0000000004	-.0000000134
PCB_122	0.0000000005	-.0000000001	-.0000000001	-.0000000013	0.0000000509
PCB_123	0.0000000032	-.0000000007	-.0000000007	0.0000000002	0.0000002736
PCB_126	0.0000000008	0.0000000001	0.0000000001	0.0000000017	0.0000000452
PCB_127	0.0000000001	0.0000000000	0.0000000000	0.0000000013	0.0000000168
PCB_130	0.0000000063	-.0000000010	-.0000000010	0.0000000042	0.0000007327
PCB_131	0.0000000012	-.0000000002	-.0000000002	0.0000000002	0.0000001876
PCB_132	-.0000000197	0.0000000062	0.0000000062	0.0000000328	-.0000001210
PCB_133	0.0000000005	0.0000000000	0.0000000000	0.0000000172	0.0000000852

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_63	0.0000000035	-.0000000845	-.0000000012	-.0000003926	-.0000000849
PCB_64	0.0000000341	-.0000018297	-.0000000012	-.0000040601	-.0000004746
PCB_66	0.0000000237	-.0000006451	-.0000000135	-.0000040189	-.0000010240
PCB_67	0.0000000014	-.0000000866	-.0000000003	-.0000002296	-.0000000376
PCB_68	0.0000000142	-.0000003076	-.0000000038	-.0000013440	-.0000002940
PCB_72	0.0000000219	-.0000005989	-.0000000040	-.0000019914	-.0000003715
PCB_73	-.0000000021	0.0000000554	0.0000000002	0.0000000836	0.0000000050
PCB_77	0.0000000003	-.0000000779	0.0000000012	0.0000000288	0.0000000520
PCB_78	0.0000000002	-.0000000019	0.0000000000	-.0000000033	0.0000000006
PCB_79	-.0000000017	0.0000000652	-.0000000002	0.0000000930	-.0000000028
PCB_80	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_81	0.0000000001	-.0000000058	0.0000000001	0.0000000092	0.0000000061
PCB_82	-.0000000163	0.0000004404	-.0000000026	0.0000005602	-.0000000497
PCB_83	0.0000000134	-.0000006852	-.0000000021	-.0000019382	-.0000003382
PCB_84	0.0000000092	-.0000018716	-.0000000056	-.0000049439	-.0000009305
PCB_89	-.0000000010	-.0000000214	0.0000000011	0.0000001251	0.0000000528
PCB_92	0.0000000601	-.0000020748	-.0000000101	-.0000063568	-.0000010872
PCB_94	0.0000000035	-.0000001674	-.0000000014	-.0000006024	-.0000001263
PCB_95	0.0000001078	-.0000078126	0.0000000089	-.0000158426	-.0000019723
PCB_96	0.0000000044	-.0000002033	-.0000000006	-.0000005372	-.0000000877
PCB_99	0.0000001004	0.0000006191	-.0000000384	-.0000044981	-.0000018599
PCB_103	0.0000000096	-.0000003055	-.0000000016	-.0000009514	-.0000001681
PCB_104	0.0000000003	-.0000000095	-.0000000001	-.0000000358	-.0000000077
PCB_105	-.0000001095	0.0000046383	-.0000000303	0.0000048798	-.0000007462
PCB_106	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_109	0.0000000077	0.0000003037	-.0000000084	-.0000008120	-.0000003944
PCB_111	0.0000000021	-.0000000334	-.0000000002	-.0000001201	-.0000000203
PCB_112	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_114	-.0000000127	0.0000005502	-.0000000034	0.0000006200	-.0000000632
PCB_118	0.0000000578	0.0000021201	-.0000000529	-.0000033186	-.0000024199
PCB_120	0.0000000062	-.0000001115	-.0000000006	-.0000003575	-.0000000552
PCB_121	0.0000000007	-.0000000132	-.0000000001	-.0000000458	-.0000000081
PCB_122	-.0000000025	0.0000000836	-.0000000002	0.0000001343	0.0000000023
PCB_123	-.0000000040	0.0000003359	-.0000000019	0.0000004048	0.0000000023
PCB_126	-.0000000006	0.0000000206	0.0000000002	0.0000000800	0.0000000222
PCB_127	-.0000000001	0.0000000163	0.0000000000	0.0000000388	0.0000000064
PCB_130	-.0000000140	0.0000009229	-.0000000026	0.0000014659	0.0000000960
PCB_131	-.0000000047	0.0000002501	-.0000000005	0.0000004446	0.0000000332
PCB_132	-.0000000331	0.0000008302	0.0000000143	0.0000035698	0.0000005842
PCB_133	0.0000000043	0.0000000389	0.0000000002	0.0000000701	0.0000000337

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_63	-.0000003389	-.0000000185	-.0000000465	-.0000002202	-.0000001034
PCB_64	-.0000009095	-.0000000769	-.0000001280	-.0000006476	-.0000001488
PCB_66	-.0000041011	-.0000002321	-.0000005962	-.0000027767	-.0000012799
PCB_67	-.0000001047	-.0000000072	-.0000000153	-.0000000739	-.0000000294
PCB_68	-.0000011274	-.0000000646	-.0000001617	-.0000007580	-.0000003395
PCB_72	-.0000012677	-.0000000775	-.0000001837	-.0000008650	-.0000003567
PCB_73	0.0000000063	0.0000000002	-.0000000010	0.0000000012	0.0000000069
PCB_77	0.0000002880	0.0000000146	0.0000000442	0.0000001982	0.0000001105
PCB_78	0.0000000035	0.0000000002	0.0000000007	0.0000000031	0.0000000023
PCB_79	-.0000000499	-.0000000020	-.0000000083	-.0000000349	-.0000000251
PCB_80	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_81	0.0000000324	0.0000000016	0.0000000048	0.0000000216	0.0000000125
PCB_82	-.0000005364	-.0000000202	-.0000000751	-.0000003435	-.0000002726
PCB_83	-.0000009115	-.0000000659	-.0000001417	-.0000006573	-.0000002423
PCB_84	-.0000024272	-.0000001889	-.0000004238	-.0000019392	-.0000007479
PCB_89	0.0000002625	0.0000000134	0.0000000382	0.0000001745	0.0000000953
PCB_92	-.0000034725	-.0000002177	-.0000004954	-.0000023376	-.0000009424
PCB_94	-.0000004475	-.0000000269	-.0000000650	-.0000003082	-.0000001389
PCB_95	-.0000016585	-.0000003318	-.0000005174	-.0000023302	0.0000002924
PCB_96	-.0000002404	-.0000000172	-.0000000375	-.0000001770	-.0000000632
PCB_99	-.0000091028	-.0000004750	-.0000013614	-.0000061518	-.0000032621
PCB_103	-.0000005471	-.0000000339	-.0000000773	-.0000003697	-.0000001490
PCB_104	-.0000000279	-.0000000017	-.0000000041	-.0000000195	-.0000000084
PCB_105	-.0000065856	-.0000002747	-.0000009686	-.0000043258	-.0000029410
PCB_106	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_109	-.0000020936	-.0000000990	-.0000002812	-.0000013232	-.0000007355
PCB_111	-.0000000745	-.0000000041	-.0000000096	-.0000000461	-.0000000186
PCB_112	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_114	-.0000007045	-.0000000264	-.0000000994	-.0000004435	-.0000003232
PCB_118	-.0000125075	-.0000006444	-.0000018790	-.0000086457	-.0000046233
PCB_120	-.0000001930	-.0000000108	-.0000000242	-.0000001189	-.0000000441
PCB_121	-.0000000284	-.0000000017	-.0000000039	-.0000000184	-.0000000073
PCB_122	-.0000000416	-.0000000010	-.0000000061	-.0000000264	-.0000000246
PCB_123	-.0000003366	-.0000000057	-.0000000338	-.0000001607	-.0000001496
PCB_126	0.0000000742	0.0000000052	0.0000000132	0.0000000593	0.0000000252
PCB_127	0.0000000135	0.0000000013	0.0000000028	0.0000000121	0.0000000037
PCB_130	-.0000003497	0.0000000062	-.0000000270	-.0000001122	-.0000002086
PCB_131	-.0000000421	0.0000000032	-.0000000029	-.0000000072	-.0000000431
PCB_132	0.0000032214	0.0000001218	0.0000003337	0.0000016939	0.0000011568
PCB_133	0.0000000761	0.0000000084	0.0000000223	0.0000000925	0.0000000467

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_63	-.0000001462	-.0000000038	-.0000000022	-.0000000004	-.0000000003
PCB_64	-.0000001247	-.0000000900	-.0000000203	-.0000000017	-.0000000012
PCB_66	-.0000018131	-.0000000320	-.0000000237	-.0000000050	-.0000000030
PCB_67	-.0000000367	-.0000000043	-.0000000012	-.0000000002	-.0000000001
PCB_68	-.0000004859	-.0000000161	-.0000000080	-.0000000016	-.0000000009
PCB_72	-.0000005026	-.0000000316	-.0000000114	-.0000000019	-.0000000011
PCB_73	0.0000000077	0.0000000026	0.0000000006	0.0000000001	0.0000000001
PCB_77	0.0000001638	-.0000000036	0.0000000007	0.0000000004	0.0000000002
PCB_78	0.0000000030	-.0000000001	-.0000000000	0.0000000000	0.0000000000
PCB_79	-.0000000377	0.0000000032	0.0000000004	-.0000000001	-.0000000000
PCB_80	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_81	0.0000000182	-.0000000003	0.0000000001	0.0000000000	0.0000000000
PCB_82	-.0000003815	0.0000000255	0.0000000021	-.0000000007	-.0000000004
PCB_83	-.0000003104	-.0000000366	-.0000000103	-.0000000014	-.0000000008
PCB_84	-.0000009283	-.0000001016	-.0000000281	-.0000000041	-.0000000020
PCB_89	0.0000001394	-.0000000011	0.0000000010	0.0000000004	0.0000000002
PCB_92	-.0000012856	-.0000001045	-.0000000343	-.0000000050	-.0000000031
PCB_94	-.0000001890	-.0000000082	-.0000000035	-.0000000006	-.0000000004
PCB_95	0.0000007563	-.0000004484	-.0000000830	-.0000000040	-.0000000008
PCB_96	-.0000000822	-.0000000108	-.0000000030	-.0000000004	-.0000000002
PCB_99	-.0000049208	0.0000000081	-.0000000424	-.0000000150	-.0000000075
PCB_103	-.0000002043	-.0000000156	-.0000000053	-.0000000008	-.0000000005
PCB_104	-.0000000118	-.0000000005	-.0000000002	-.0000000000	-.0000000000
PCB_105	-.0000043140	0.0000002461	0.0000000141	-.0000000083	-.0000000046
PCB_106	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_109	-.0000010736	0.0000000186	-.0000000063	-.0000000027	-.0000000016
PCB_111	-.0000000278	-.0000000017	-.0000000007	-.0000000001	-.0000000001
PCB_112	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_114	-.0000004757	0.0000000303	0.0000000021	-.0000000009	-.0000000005
PCB_118	-.0000068723	0.0000000808	-.0000000442	-.0000000193	-.0000000091
PCB_120	-.0000000659	-.0000000057	-.0000000019	-.0000000003	-.0000000002
PCB_121	-.0000000106	-.0000000007	-.0000000003	-.0000000000	-.0000000000
PCB_122	-.0000000361	0.0000000044	0.0000000006	-.0000000000	-.0000000000
PCB_123	-.0000002292	0.0000000206	0.0000000019	-.0000000003	-.0000000003
PCB_126	0.0000000360	0.0000000016	0.0000000006	0.0000000001	0.0000000001
PCB_127	0.0000000044	0.0000000009	0.0000000002	0.0000000000	0.0000000000
PCB_130	-.0000003384	0.0000000520	0.0000000075	-.0000000001	-.0000000003
PCB_131	-.0000000710	0.0000000135	0.0000000022	0.0000000000	-.0000000000
PCB_132	0.0000016062	0.0000000066	0.0000000188	0.0000000049	0.0000000041
PCB_133	0.0000000560	0.0000000029	0.0000000008	0.0000000002	0.0000000001

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_63	-.0000010985	-.0000000005	-.0000000120	-.0000000748	-.0000000173
PCB_64	-.0000014995	-.0000000014	-.0000001662	-.0000003815	-.0000001331
PCB_66	-.0000142233	-.0000000061	-.0000001378	-.0000008777	-.0000002051
PCB_67	-.0000003306	-.0000000002	-.0000000092	-.0000000275	-.0000000089
PCB_68	-.0000037991	-.0000000018	-.0000000469	-.0000002359	-.0000000613
PCB_72	-.0000040708	-.0000000020	-.0000000756	-.0000002890	-.0000000833
PCB_73	0.0000000462	0.0000000002	0.0000000019	-.0000000101	0.0000000009
PCB_77	0.0000011975	0.0000000006	-.0000000020	0.0000000337	0.0000000069
PCB_78	0.0000000223	0.0000000000	-.0000000002	-.0000000001	0.0000000000
PCB_79	-.0000002717	-.0000000001	0.0000000044	-.0000000009	0.0000000013
PCB_80	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_81	0.0000001274	0.0000000001	-.0000000002	0.0000000044	0.0000000008
PCB_82	-.0000026487	-.0000000014	0.0000000380	-.0000000253	0.0000000077
PCB_83	-.0000029599	-.0000000014	-.0000000834	-.0000002464	-.0000000804
PCB_84	-.0000089893	-.0000000042	-.0000002309	-.0000005902	-.0000002198
PCB_89	0.0000010024	0.0000000005	0.0000000013	0.0000000383	0.0000000083
PCB_92	-.0000103724	-.0000000053	-.0000002373	-.0000008954	-.0000002517
PCB_94	-.0000015392	-.0000000007	-.0000000222	-.0000000980	-.0000000268
PCB_95	-.0000030959	0.0000000013	-.0000009038	-.0000012103	-.0000006204
PCB_96	-.0000007561	-.0000000004	-.0000000231	-.0000000628	-.0000000214
PCB_99	-.0000360047	-.0000000183	-.0000000776	-.0000010578	-.0000002968
PCB_103	-.0000017042	-.0000000008	-.0000000365	-.0000001339	-.0000000385
PCB_104	-.0000000964	-.0000000000	-.0000000014	-.0000000060	-.0000000017
PCB_105	-.0000302101	-.0000000140	0.0000003307	-.0000004974	0.0000000161
PCB_106	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_109	-.0000078184	-.0000000037	0.0000000009	-.0000003303	-.0000000580
PCB_111	-.0000002088	-.0000000001	-.0000000040	-.0000000180	-.0000000046
PCB_112	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_114	-.0000031587	-.0000000015	0.0000000445	-.0000000513	0.0000000071
PCB_118	-.0000525167	-.0000000246	-.0000000409	-.0000013382	-.0000003544
PCB_120	-.0000005070	-.0000000003	-.0000000125	-.0000000496	-.0000000131
PCB_121	-.0000000845	-.0000000000	-.0000000017	-.0000000069	-.0000000018
PCB_122	-.0000002548	-.0000000001	0.0000000066	0.0000000016	0.0000000029
PCB_123	-.0000012080	-.0000000007	0.0000000350	-.0000000338	0.0000000121
PCB_126	0.0000003217	0.0000000001	0.0000000042	0.0000000100	0.0000000046
PCB_127	0.0000000472	0.0000000000	0.0000000019	0.0000000039	0.0000000017
PCB_130	-.0000015962	-.0000000008	0.0000000910	0.0000000177	0.0000000462
PCB_131	-.0000003442	-.0000000002	0.0000000241	0.0000000214	0.0000000138
PCB_132	0.0000085059	0.0000000074	-.0000000060	0.0000006632	0.0000000934
PCB_133	0.0000005486	0.0000000003	0.0000000065	-.0000000014	0.0000000067

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_63	-.0000000004	-.0000001028	-.0000000490	-.0000000668	-.0000000239
PCB_64	-.0000000007	-.0000005046	-.0000001801	-.0000002341	-.0000000379
PCB_66	-.0000000040	-.0000012349	-.0000006120	-.0000008113	-.0000002928
PCB_67	-.0000000001	-.0000000410	-.0000000175	-.0000000230	-.0000000067
PCB_68	-.0000000011	-.0000003443	-.0000001668	-.0000002215	-.0000000784
PCB_72	-.0000000012	-.0000004223	-.0000001960	-.0000002573	-.0000000834
PCB_73	0.0000000001	-.0000000004	-.0000000020	-.0000000013	0.0000000010
PCB_77	0.0000000003	0.0000000604	0.0000000370	0.0000000495	0.0000000240
PCB_78	0.0000000000	0.0000000005	0.0000000004	0.0000000005	0.0000000004
PCB_79	-.0000000001	-.0000000041	-.0000000054	-.0000000075	-.0000000052
PCB_80	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_81	0.0000000000	0.0000000070	0.0000000041	0.0000000057	0.0000000027
PCB_82	-.0000000010	-.0000000681	-.0000000538	-.0000000830	-.0000000558
PCB_83	-.0000000007	-.0000003598	-.0000001595	-.0000002061	-.0000000574
PCB_84	-.0000000019	-.0000009517	-.0000004380	-.0000005377	-.0000001621
PCB_89	0.0000000003	0.0000000614	0.0000000341	0.0000000467	0.0000000210
PCB_92	-.0000000032	-.0000012319	-.0000005496	-.0000007323	-.0000002226
PCB_94	-.0000000005	-.0000001456	-.0000000684	-.0000000904	-.0000000314
PCB_95	0.0000000038	-.0000018634	-.0000007111	-.0000006795	0.0000000451
PCB_96	-.0000000002	-.0000000946	-.0000000415	-.0000000523	-.0000000146
PCB_99	-.0000000104	-.0000020204	-.0000011665	-.0000015699	-.0000007230
PCB_103	-.0000000005	-.0000001925	-.0000000863	-.0000001140	-.0000000352
PCB_104	-.0000000000	-.0000000090	-.0000000043	-.0000000056	-.0000000019
PCB_105	-.0000000095	-.0000009848	-.0000007356	-.0000010524	-.0000006226
PCB_106	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_109	-.0000000026	-.0000005015	-.0000002688	-.0000003779	-.0000001657
PCB_111	-.0000000001	-.0000000242	-.0000000109	-.0000000150	-.0000000047
PCB_112	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_114	-.0000000011	-.0000000916	-.0000000727	-.0000001092	-.0000000682
PCB_118	-.0000000144	-.0000027774	-.0000016287	-.0000021420	-.0000010113
PCB_120	-.0000000002	-.0000000667	-.0000000289	-.0000000394	-.0000000114
PCB_121	-.0000000000	-.0000000095	-.0000000043	-.0000000058	-.0000000018
PCB_122	-.0000000001	-.0000000002	-.0000000035	-.0000000056	-.0000000051
PCB_123	-.0000000006	-.0000000279	-.0000000245	-.0000000473	-.0000000326
PCB_126	0.0000000001	0.0000000219	0.0000000119	0.0000000142	0.0000000055
PCB_127	0.0000000000	0.0000000061	0.0000000028	0.0000000032	0.0000000008
PCB_130	-.0000000009	0.0000000587	-.0000000021	-.0000000312	-.0000000451
PCB_131	-.0000000002	0.0000000301	0.0000000054	0.0000000016	-.0000000087
PCB_132	0.0000000057	0.0000007831	0.0000003367	0.0000005648	0.0000002537
PCB_133	0.0000000001	0.0000000221	0.0000000147	0.0000000143	0.0000000079

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_63	-.0000000369	-.0000001174	-.0000000003	-.0000000064	-.0000000499
PCB_64	-.0000000605	-.0000003116	-.0000000005	-.0000000219	-.0000001106
PCB_66	-.0000004266	-.0000014701	-.0000000039	-.0000000809	-.0000005691
PCB_67	-.0000000100	-.0000000384	-.0000000001	-.0000000023	-.0000000151
PCB_68	-.0000001185	-.0000004042	-.0000000011	-.0000000217	-.0000001605
PCB_72	-.0000001256	-.0000004585	-.0000000012	-.0000000253	-.0000001752
PCB_73	0.0000000055	0.0000000016	0.0000000001	-.0000000003	0.0000000087
PCB_77	0.0000000362	0.0000001034	0.0000000003	0.0000000050	0.0000000439
PCB_78	0.0000000006	0.0000000013	0.0000000000	0.0000000001	0.0000000006
PCB_79	-.0000000073	-.0000000185	-.0000000001	-.0000000008	-.0000000081
PCB_80	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_81	0.0000000042	0.0000000111	0.0000000000	0.0000000006	0.0000000051
PCB_82	-.0000000898	-.0000001812	-.0000000009	-.0000000084	-.0000001096
PCB_83	-.0000000764	-.0000003483	-.0000000007	-.0000000212	-.0000001190
PCB_84	-.0000002068	-.0000009511	-.0000000018	-.0000000585	-.0000002932
PCB_89	0.0000000327	0.0000000916	0.0000000003	0.0000000045	0.0000000412
PCB_92	-.0000003336	-.0000012288	-.0000000031	-.0000000707	-.0000004765
PCB_94	-.0000000471	-.0000001617	-.0000000004	-.0000000090	-.0000000650
PCB_95	0.0000002634	-.0000010209	0.0000000032	-.0000000880	0.0000002323
PCB_96	-.0000000207	-.0000000902	-.0000000002	-.0000000053	-.0000000303
PCB_99	-.0000011394	-.0000032850	-.0000000109	-.0000001545	-.0000014362
PCB_103	-.0000000533	-.0000001980	-.0000000005	-.0000000112	-.0000000771
PCB_104	-.0000000028	-.0000000102	-.0000000000	-.0000000006	-.0000000039
PCB_105	-.0000009593	-.0000022920	-.0000000092	-.0000001065	-.0000011454
PCB_106	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_109	-.0000002628	-.0000007309	-.0000000025	-.0000000364	-.0000003455
PCB_111	-.0000000075	-.0000000259	-.0000000001	-.0000000014	-.0000000108
PCB_112	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_114	-.0000001082	-.0000002335	-.0000000010	-.0000000105	-.0000001274
PCB_118	-.0000015696	-.0000046437	-.0000000149	-.0000002203	-.0000019835
PCB_120	-.0000000187	-.0000000674	-.0000000002	-.0000000036	-.0000000277
PCB_121	-.0000000027	-.0000000102	-.0000000000	-.0000000006	-.0000000040
PCB_122	-.0000000074	-.0000000150	-.0000000001	-.0000000006	-.0000000085
PCB_123	-.0000000589	-.0000000895	-.0000000006	-.0000000034	-.0000000691
PCB_126	0.0000000074	0.0000000303	0.0000000001	0.0000000016	0.0000000095
PCB_127	0.0000000008	0.0000000055	0.0000000000	0.0000000004	0.0000000010
PCB_130	-.0000000811	-.0000000776	-.0000000008	-.0000000011	-.0000000899
PCB_131	-.0000000156	-.0000000077	-.0000000002	0.0000000004	-.0000000159
PCB_132	0.0000004938	0.0000008599	0.0000000049	0.0000000416	0.0000006362
PCB_133	0.0000000086	0.0000000361	0.0000000001	0.0000000022	0.0000000079

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_63	-.0000000066	-.0000000177	-.0000000216	0.0000000043	-.0000000284
PCB_64	-.0000000160	-.0000000227	0.0000000032	0.0000000556	-.0000007801
PCB_66	-.0000000751	-.0000001998	-.0000002443	0.0000000372	-.0000000625
PCB_67	-.0000000020	-.0000000047	-.0000000047	0.0000000029	-.0000000280
PCB_68	-.0000000212	-.0000000564	-.0000000678	0.0000000127	-.0000001194
PCB_72	-.0000000233	-.0000000590	-.0000000663	0.0000000200	-.0000002586
PCB_73	0.0000000011	0.0000000036	0.0000000044	-.0000000018	0.0000000321
PCB_77	0.0000000057	0.0000000170	0.0000000231	0.0000000007	-.0000000436
PCB_78	0.0000000001	0.0000000002	0.0000000003	-.0000000000	-.0000000024
PCB_79	-.0000000010	-.0000000035	-.0000000056	-.0000000014	0.0000000373
PCB_80	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_81	0.0000000007	0.0000000020	0.0000000026	-.0000000001	-.0000000038
PCB_82	-.0000000140	-.0000000455	-.0000000674	-.0000000041	0.0000003092
PCB_83	-.0000000157	-.0000000356	-.0000000362	0.0000000194	-.0000002157
PCB_84	-.0000000390	-.0000000812	-.0000000656	0.0000000567	-.0000004528
PCB_89	0.0000000054	0.0000000157	0.0000000207	-.0000000010	-.0000000146
PCB_92	-.0000000640	-.0000001553	-.0000001671	0.0000000709	-.0000008483
PCB_94	-.0000000086	-.0000000221	-.0000000257	0.0000000069	-.0000000418
PCB_95	0.0000000274	0.0000002029	0.0000004336	0.0000001527	-.0000030607
PCB_96	-.0000000041	-.0000000089	-.0000000077	0.0000000060	-.0000000785
PCB_99	-.0000001871	-.0000005544	-.0000007399	0.0000000093	-.0000000232
PCB_103	-.0000000103	-.0000000256	-.0000000283	0.0000000101	-.0000001209
PCB_104	-.0000000005	-.0000000013	-.0000000015	0.0000000004	-.0000000029
PCB_105	-.0000001467	-.0000004715	-.0000006911	-.0000000658	0.0000027481
PCB_106	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_109	-.0000000449	-.0000001334	-.0000001820	0.0000000052	0.0000002164
PCB_111	-.0000000014	-.0000000038	-.0000000046	0.0000000011	-.0000000201
PCB_112	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_114	-.0000000164	-.0000000533	-.0000000786	-.0000000068	0.0000003087
PCB_118	-.0000002557	-.0000007670	-.0000010325	-.0000000174	0.0000011728
PCB_120	-.0000000037	-.0000000096	-.0000000111	0.0000000034	-.0000000663
PCB_121	-.0000000005	-.0000000014	-.0000000016	0.0000000004	-.0000000067
PCB_122	-.0000000010	-.0000000039	-.0000000065	-.0000000017	0.0000000507
PCB_123	-.0000000091	-.0000000305	-.0000000457	-.0000000026	0.0000001439
PCB_126	0.0000000012	0.0000000032	0.0000000036	-.0000000004	0.0000000055
PCB_127	0.0000000001	0.0000000001	-.0000000002	-.0000000004	0.0000000056
PCB_130	-.0000000115	-.0000000449	-.0000000768	-.0000000161	0.0000004065
PCB_131	-.0000000019	-.0000000089	-.0000000165	-.0000000052	0.0000001160
PCB_132	0.0000000871	0.0000002457	0.0000003087	-.0000000840	0.0000004749
PCB_133	0.0000000010	0.0000000017	0.0000000001	-.0000000014	-.0000000203

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_63	-.0000008102	-.0000001915	-.0000021898	-.0000000017	-.0000001272
PCB_64	-.0000083977	-.0000063231	-.0000375875	-.0000001801	0.0000026695
PCB_66	-.0000061685	-.0000004764	-.0000180571	0.0000000088	-.0000035474
PCB_67	-.0000003054	-.0000002646	-.0000018737	-.0000000047	0.0000000410
PCB_68	-.0000010583	-.0000007362	-.0000083621	-.0000000197	-.0000007672
PCB_72	-.0000013955	-.0000017619	-.0000146517	-.0000000517	-.0000005025
PCB_73	-.0000002213	0.0000002650	0.0000015555	0.0000000062	-.0000001304
PCB_77	-.0000003304	-.0000003435	-.0000008703	-.0000000090	0.0000005442
PCB_78	0.0000000125	-.0000000084	-.0000000333	-.0000000001	0.0000000107
PCB_79	0.0000001986	0.0000002582	0.0000012634	0.0000000097	-.0000001933
PCB_80	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_81	0.0000000276	-.0000000253	-.0000000546	-.0000000012	0.0000000419
PCB_82	-.0000005120	0.0000017799	0.0000083478	0.0000000897	-.0000009999
PCB_83	-.0000007930	-.0000020182	-.0000145830	-.0000000100	-.0000000150
PCB_84	-.0000031163	-.0000053584	-.0000402161	-.0000001358	-.0000014681
PCB_89	0.0000000691	-.0000001215	0.0000001593	-.0000000056	0.0000003166
PCB_92	-.0000091028	-.0000063841	-.0000466669	-.0000001292	0.0000003436
PCB_94	-.0000008408	-.0000004070	-.0000040306	-.0000000078	-.0000002126
PCB_95	0.0000036521	-.0000248181	-.0001574319	-.0000010460	0.0000004078
PCB_96	-.0000004327	-.0000006321	-.0000045359	-.0000000207	-.0000000207
PCB_99	0.0000209715	0.0000025175	-.0000185719	0.0000000820	-.0000138868
PCB_103	-.0000009192	-.0000008919	-.0000071023	-.0000000201	-.0000000584
PCB_104	-.0000000329	-.0000000218	-.0000002435	-.0000000010	-.0000000218
PCB_105	0.0000043975	0.0000186241	0.0000826633	0.0000007456	-.0000144850
PCB_106	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_109	-.0000008360	0.0000017510	0.0000021948	0.0000001023	-.0000021921
PCB_111	-.0000000782	-.0000001079	-.0000008423	-.0000000018	0.0000000033
PCB_112	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_114	-.0000004130	0.0000021166	0.0000100399	0.0000000866	-.0000013904
PCB_118	0.0000321374	0.0000107874	0.0000022753	0.0000001683	-.0000238285
PCB_120	-.0000002612	-.0000003631	-.0000027354	-.0000000103	0.0000000454
PCB_121	-.0000000240	-.0000000392	-.0000003248	-.0000000009	-.0000000061
PCB_122	0.0000001292	0.0000003351	0.0000017055	0.0000000140	-.0000001783
PCB_123	-.0000018977	0.0000011899	0.0000063867	0.0000000453	-.0000002693
PCB_126	-.0000003299	0.0000000480	0.0000006682	0.0000000034	0.0000001595
PCB_127	0.0000000221	0.0000000530	0.0000003419	0.0000000019	0.0000000086
PCB_130	-.0000012053	0.0000032132	0.0000185646	0.0000001406	-.0000008119
PCB_131	0.0000002452	0.0000008658	0.0000050105	0.0000000370	-.0000002955
PCB_132	0.0000293279	0.0000037140	0.0000220321	0.0000000302	-.0000046369
PCB_133	-.0000003443	0.0000000992	0.0000009892	0.0000000085	0.0000003358

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_63	-.0000000023	-.0000011971	-.0000017585	-.0000001577	-.0000001198
PCB_64	-.0000004437	-.0000058574	-.0000226503	-.0000057263	-.0000009424
PCB_66	-.0000000457	-.0000149440	-.0000194534	-.0000004720	-.0000014171
PCB_67	-.0000000199	-.0000004806	-.0000013138	-.0000002327	-.0000000630
PCB_68	-.0000000548	-.0000042269	-.0000064176	-.0000007625	-.0000004188
PCB_72	-.0000001443	-.0000051920	-.0000100626	-.0000017846	-.0000005701
PCB_73	0.0000000096	0.0000000328	0.0000004775	0.0000002144	0.0000000074
PCB_77	-.0000000239	0.0000008493	-.0000001173	-.0000003475	0.0000000512
PCB_78	-.0000000006	0.0000000131	-.0000000027	-.0000000136	0.0000000006
PCB_79	0.0000000181	-.0000000624	0.0000005438	0.0000002585	0.0000000073
PCB_80	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_81	-.0000000031	0.0000000904	0.0000000053	-.0000000336	0.0000000067
PCB_82	0.0000001932	-.0000007574	0.0000033688	0.0000021301	0.0000000275
PCB_83	-.0000001941	-.0000040129	-.0000109801	-.0000019131	-.0000005643
PCB_84	-.0000006355	-.0000124724	-.0000316808	-.0000047518	-.0000015990
PCB_89	-.0000000161	0.0000007889	0.0000003450	-.0000001541	0.0000000609
PCB_92	-.0000004389	-.0000142606	-.0000319563	-.0000059402	-.0000017524
PCB_94	-.0000000296	-.0000017813	-.0000032556	-.0000003497	-.0000001878
PCB_95	-.0000033050	-.0000270899	-.0001084590	-.0000268888	-.0000042763
PCB_96	-.0000000598	-.0000012084	-.0000030809	-.0000006147	-.0000001495
PCB_99	0.0000001613	-.0000277592	-.0000119218	0.0000020812	-.0000020894
PCB_103	-.0000000668	-.0000022772	-.0000049492	-.0000008782	-.0000002622
PCB_104	-.0000000022	-.0000001162	-.0000001944	-.0000000226	-.0000000113
PCB_105	0.0000016978	-.0000127532	0.0000342010	0.0000200688	-.0000000549
PCB_106	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_109	0.0000002327	-.0000057772	-.0000016429	0.0000018537	-.0000003933
PCB_111	-.0000000054	-.0000002655	-.0000005012	-.0000001172	-.0000000300
PCB_112	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_114	0.0000002207	-.0000011161	0.0000046641	0.0000023659	0.0000000260
PCB_118	0.0000005313	-.0000403017	-.0000118708	0.0000091588	-.0000023997
PCB_120	-.0000000208	-.0000007527	-.0000015790	-.0000004015	-.0000000838
PCB_121	-.0000000028	-.0000001101	-.0000002136	-.0000000432	-.0000000122
PCB_122	0.0000000278	0.0000000122	0.0000007514	0.0000003451	0.0000000184
PCB_123	0.0000001774	-.0000001450	0.0000038289	0.0000013694	0.0000000778
PCB_126	0.0000000142	0.0000003376	0.0000005313	0.0000000657	0.0000000326
PCB_127	0.0000000065	0.0000000859	0.0000002449	0.0000000493	0.0000000123
PCB_130	0.0000003861	0.0000012890	0.0000109764	0.0000034456	0.0000003086
PCB_131	0.0000000904	0.0000004546	0.0000029385	0.0000009119	0.0000000914
PCB_132	-.0000005597	0.0000078855	0.0000078820	0.0000006987	0.0000007622
PCB_133	0.0000000360	0.0000005350	0.0000010705	0.0000000122	0.0000000608

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_63	0.0000002024	-.0000010834	-.0000003546	-.0000000253	-.0000001578
PCB_64	0.0000031124	-.0000063788	-.0000013687	-.0000000366	-.0000005185
PCB_66	0.0000014166	-.0000118204	-.0000045069	-.0000003107	-.0000017963
PCB_67	0.0000001431	-.0000004449	-.0000001344	-.0000000069	-.0000000512
PCB_68	0.0000004911	-.0000034133	-.0000011850	-.0000000829	-.0000005198
PCB_72	0.0000008550	-.0000043025	-.0000013827	-.0000000878	-.0000005991
PCB_73	-.0000000854	0.0000000851	-.0000000197	0.0000000005	0.0000000209
PCB_77	0.0000000812	0.0000004949	0.0000002812	0.0000000251	0.0000001227
PCB_78	-.0000000023	0.0000000031	0.0000000055	0.0000000004	0.0000000013
PCB_79	-.0000000853	0.0000000185	-.0000000490	-.0000000056	-.0000000159
PCB_80	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_81	-.0000000044	0.0000000701	0.0000000326	0.0000000028	0.0000000142
PCB_82	-.0000002057	-.0000005992	-.0000005242	-.0000000576	-.0000002251
PCB_83	0.0000009045	-.0000036480	-.0000012115	-.0000000599	-.0000004134
PCB_84	0.0000027332	-.0000091005	-.0000035952	-.0000001629	-.0000010472
PCB_89	-.0000000291	0.0000006007	0.0000002561	0.0000000220	0.0000001185
PCB_92	0.0000035310	-.0000133741	-.0000039973	-.0000002343	-.0000016552
PCB_94	0.0000003086	-.0000014694	-.0000005131	-.0000000327	-.0000002066
PCB_95	0.0000067220	-.0000154970	-.0000053440	0.0000000604	-.0000005431
PCB_96	0.0000002829	-.0000009672	-.0000003070	-.0000000150	-.0000001141
PCB_99	-.0000014247	-.0000183045	-.0000082114	-.0000007575	-.0000042082
PCB_103	0.0000004508	-.0000020027	-.0000006114	-.0000000371	-.0000002624
PCB_104	0.0000000141	-.0000000859	-.0000000311	-.0000000020	-.0000000127
PCB_105	-.0000040803	-.0000071872	-.0000061554	-.0000006539	-.0000026767
PCB_106	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_109	-.0000000562	-.0000048438	-.0000019340	-.0000001760	-.0000009552
PCB_111	0.0000000448	-.0000002643	-.0000000693	-.0000000051	-.0000000371
PCB_112	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_114	-.0000003549	-.0000007931	-.0000006254	-.0000000717	-.0000002921
PCB_118	-.0000047328	-.0000216005	-.0000115553	-.0000010572	-.0000056075
PCB_120	0.0000001393	-.0000007292	-.0000001760	-.0000000124	-.0000000990
PCB_121	0.0000000162	-.0000000984	-.0000000287	-.0000000019	-.0000000137
PCB_122	-.0000000980	0.0000000555	-.0000000372	-.0000000054	-.0000000121
PCB_123	-.0000000600	-.0000005050	-.0000001901	-.0000000351	-.0000001581
PCB_126	0.0000000088	0.0000001590	0.0000000884	0.0000000056	0.0000000316
PCB_127	-.0000000228	0.0000000588	0.0000000236	0.0000000008	0.0000000054
PCB_130	-.0000007175	0.0000004140	-.0000000444	-.0000000498	-.0000001406
PCB_131	-.0000002568	0.0000003256	0.0000000252	-.0000000096	-.0000000113
PCB_132	-.0000056395	0.0000129809	0.0000026687	0.0000002625	0.0000018181
PCB_133	-.0000000716	0.0000001037	0.0000001724	0.0000000070	0.0000000224

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_63	0.0000003708	0.0000000305	0.0000003720	0.0000005551	0.0000019390
PCB_64	0.0000055326	0.0000005783	0.0000057042	0.0000077148	0.0000207471
PCB_66	0.0000024766	0.0000001411	0.0000028966	0.0000044883	0.0000189902
PCB_67	0.0000002592	0.0000000253	0.0000002759	0.0000003635	0.0000011123
PCB_68	0.0000008242	0.0000000429	0.0000011698	0.0000018067	0.0000063522
PCB_72	0.0000014282	0.0000000955	0.0000019930	0.0000029756	0.0000094548
PCB_73	-.0000001669	-.0000000171	-.0000002020	-.0000002362	-.0000004642
PCB_77	0.0000001907	0.0000000271	0.0000001098	0.0000001658	-.0000000286
PCB_78	-.0000000034	-.0000000009	0.0000000005	0.0000000082	0.0000000105
PCB_79	-.0000001590	-.0000000165	-.0000001695	-.0000002521	-.0000005203
PCB_80	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_81	-.0000000036	-.0000000003	-.0000000030	0.0000000025	-.0000000396
PCB_82	-.0000002389	0.0000000001	-.0000008078	-.0000015030	-.0000027120
PCB_83	0.0000015303	0.0000001303	0.0000019758	0.0000026522	0.0000084993
PCB_84	0.0000043594	0.0000004255	0.0000056336	0.0000068245	0.0000228207
PCB_89	-.0000000263	0.0000000023	-.0000000643	-.0000000766	-.0000005596
PCB_92	0.0000061137	0.0000005410	0.0000069920	0.0000099638	0.0000305139
PCB_94	0.0000005606	0.0000000480	0.0000006086	0.0000008362	0.0000029353
PCB_95	0.0000095589	0.0000006877	0.0000180561	0.0000254103	0.0000725483
PCB_96	0.0000004729	0.0000000405	0.0000006167	0.0000008552	0.0000025884
PCB_99	-.0000044587	-.0000008629	0.0000013719	0.0000024167	0.0000161618
PCB_103	0.0000008066	0.0000000624	0.0000009838	0.0000014486	0.0000045539
PCB_104	0.0000000246	0.0000000015	0.0000000330	0.0000000494	0.0000001758
PCB_105	-.0000072369	-.0000007279	-.0000094975	-.0000149559	-.0000260047
PCB_106	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_109	0.0000000934	-.0000000469	-.0000000695	0.0000001085	0.0000035846
PCB_111	0.0000000786	0.0000000039	0.0000001124	0.0000001890	0.0000005596
PCB_112	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_114	-.0000006108	-.0000000502	-.0000010310	-.0000016578	-.0000030618
PCB_118	-.0000096209	-.0000015995	-.0000031492	-.0000033070	0.0000107992
PCB_120	0.0000002535	0.0000000132	0.0000003535	0.0000006000	0.0000017249
PCB_121	0.0000000282	0.0000000013	0.0000000419	0.0000000688	0.0000002133
PCB_122	-.0000001600	-.0000000151	-.0000002190	-.0000003273	-.0000006990
PCB_123	0.0000000008	0.0000000136	-.0000005147	-.0000007142	-.0000015122
PCB_126	0.0000000433	0.0000000092	-.0000000515	-.0000000671	-.0000003060
PCB_127	-.0000000315	-.0000000032	-.0000000478	-.0000000585	-.0000001776
PCB_130	-.0000011098	-.0000000883	-.0000020260	-.0000028437	-.0000069977
PCB_131	-.0000004315	-.0000000382	-.0000006067	-.0000008836	-.0000022239
PCB_132	-.0000108568	-.0000012984	-.0000070178	-.0000088128	-.0000237481
PCB_133	-.0000000404	-.0000000115	-.0000001452	-.0000000010	-.0000002661

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_63	0.0000004652	0.0000023745	0.0000007824	0.0000002297	-.0000003037
PCB_64	0.0000060729	0.0000277170	0.0000111976	0.0000034773	-.0000069340
PCB_66	0.0000041595	0.0000206062	0.0000065760	0.0000017377	0.0000012998
PCB_67	0.0000003027	0.0000013538	0.0000005566	0.0000001717	-.0000001952
PCB_68	0.0000014461	0.0000080713	0.0000025476	0.0000007745	-.0000010012
PCB_72	0.0000022959	0.0000124685	0.0000042153	0.0000013255	-.0000022168
PCB_73	-.0000001583	-.0000009460	-.0000003645	-.0000001361	0.0000005474
PCB_77	0.0000000817	0.0000000883	0.0000001740	0.0000000829	-.0000004935
PCB_78	0.0000000001	0.0000000304	0.0000000036	0.0000000042	-.0000000342
PCB_79	-.0000001701	-.0000008454	-.0000003243	-.0000001118	0.0000004174
PCB_80	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_81	-.0000000050	-.0000000359	-.0000000068	0.0000000016	-.0000000385
PCB_82	-.0000007870	-.0000052249	-.0000016872	-.0000006523	0.0000029052
PCB_83	0.0000021103	0.0000099548	0.0000041696	0.0000013690	-.0000009442
PCB_84	0.0000061897	0.0000255959	0.0000115408	0.0000032857	0.0000011456
PCB_89	-.0000000909	-.0000006863	-.0000001527	-.0000000308	-.0000001112
PCB_92	0.0000078186	0.0000392821	0.0000143977	0.0000045169	-.0000072888
PCB_94	0.0000007385	0.0000034214	0.0000012683	0.0000003648	-.0000001949
PCB_95	0.0000197987	0.0000914574	0.0000379744	0.0000116703	-.0000093846
PCB_96	0.0000006864	0.0000033288	0.0000012669	0.0000003867	-.0000005080
PCB_99	0.0000011104	0.0000287318	0.0000044068	0.0000016665	-.0000028410
PCB_103	0.0000011340	0.0000058209	0.0000020619	0.0000006543	-.0000010565
PCB_104	0.0000000425	0.0000002135	0.0000000710	0.0000000199	-.0000000140
PCB_105	-.0000090435	-.0000457040	-.0000184612	-.0000068218	0.0000267596
PCB_106	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_109	0.0000003271	0.0000031557	0.0000001876	0.0000000102	0.0000011455
PCB_111	0.0000001261	0.0000008050	0.0000002428	0.0000000865	-.0000002520
PCB_112	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_114	-.0000009959	-.0000051361	-.0000020723	-.0000007763	0.0000027156
PCB_118	-.0000016805	0.0000136932	-.0000034824	-.0000015441	0.0000115554
PCB_120	0.0000004053	0.0000025076	0.0000007552	0.0000002643	-.0000008206
PCB_121	0.0000000488	0.0000002909	0.0000000912	0.0000000310	-.0000000715
PCB_122	-.0000002146	-.0000011734	-.0000004284	-.0000001465	0.0000005170
PCB_123	-.0000004470	-.0000021328	-.0000011097	-.0000004139	0.0000004810
PCB_126	-.0000000562	-.0000003930	-.0000001280	-.0000000379	-.0000000675
PCB_127	-.0000000497	-.0000002192	-.0000000970	-.0000000277	0.0000000033
PCB_130	-.0000020890	-.0000097908	-.0000041231	-.0000013358	0.0000023647
PCB_131	-.0000006528	-.0000031049	-.0000012257	-.0000003914	0.0000008418
PCB_132	-.0000076003	-.0000344248	-.0000124029	-.0000034217	0.0000125506
PCB_133	-.0000001247	-.0000000198	-.0000002617	-.0000000212	-.0000007850

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_63	-.0000000074	-.0000000346	0.0000003356	-.0000005277	0.0000001356
PCB_64	-.0000025230	-.0000108826	0.0000044321	-.0000086952	0.0000014076
PCB_66	0.0000009650	0.0000066806	0.0000025965	-.0000041119	0.0000012397
PCB_67	-.0000000826	-.0000002742	0.0000002203	-.0000003444	0.0000000781
PCB_68	-.0000000504	0.0000004614	0.0000009725	-.0000008717	0.0000003731
PCB_72	-.0000004515	-.0000009823	0.0000015985	-.0000017228	0.0000005495
PCB_73	0.0000001531	0.0000007426	-.0000001241	-.0000002062	-.0000000259
PCB_77	-.0000001688	-.0000010453	0.0000001443	-.0000007441	0.0000000229
PCB_78	-.0000000022	-.0000000202	0.0000000064	-.0000000146	0.0000000007
PCB_79	0.0000001174	0.0000005944	-.0000001393	0.0000003301	-.0000000333
PCB_80	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_81	-.0000000106	-.0000000612	0.0000000029	-.0000000478	-.0000000021
PCB_82	0.0000007770	0.0000031520	-.0000006562	0.0000016856	-.0000000645
PCB_83	-.0000005237	-.0000008320	0.0000017032	-.0000021640	0.0000005881
PCB_84	-.0000015900	-.0000004411	0.0000036248	-.0000045391	0.0000013539
PCB_89	-.0000000684	-.0000004251	-.0000000250	-.0000003323	-.0000000270
PCB_92	-.0000019298	-.0000068537	0.0000058474	-.0000089287	0.0000020185
PCB_94	-.0000000537	0.0000000601	0.0000004846	-.0000006971	0.0000001965
PCB_95	-.0000081966	-.0000115738	0.0000117616	-.0000217688	0.0000032851
PCB_96	-.0000002033	-.0000005085	0.0000004501	-.0000006300	0.0000001501
PCB_99	0.0000012683	0.0000153095	-.0000005079	0.0000263489	-.0000001326
PCB_103	-.0000002197	-.0000006496	0.0000008392	-.0000011755	0.0000002935
PCB_104	-.0000000013	0.0000000202	0.0000000246	-.0000000320	0.0000000100
PCB_105	0.0000083956	0.0000388523	-.0000079668	0.0000226485	-.0000013972
PCB_106	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_109	0.0000011827	0.0000049022	0.0000003038	0.0000013361	0.0000003208
PCB_111	-.0000000286	-.0000001383	0.0000001123	-.0000001203	0.0000000351
PCB_112	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_114	0.0000008879	0.0000036460	-.0000008506	0.0000022483	-.0000001407
PCB_118	0.0000065005	0.0000439689	-.0000047168	0.0000363895	-.0000008288
PCB_120	-.0000001014	-.0000004994	0.0000003411	-.0000004418	0.0000001048
PCB_121	-.0000000085	-.0000000274	0.0000000393	-.0000000456	0.0000000129
PCB_122	0.0000001565	0.0000006862	-.0000001606	0.0000002980	-.0000000337
PCB_123	0.0000004514	0.0000007322	-.0000002971	0.0000002818	-.0000000214
PCB_126	0.0000000049	-.0000002362	-.0000000043	-.0000002193	-.0000000009
PCB_127	0.0000000208	0.0000000296	-.0000000269	0.0000000321	-.0000000085
PCB_130	0.0000012443	0.0000033420	-.0000012843	0.0000022356	-.0000002901
PCB_131	0.0000003301	0.0000011183	-.0000004352	0.0000009371	-.0000001142
PCB_132	0.0000024558	0.0000215976	-.0000057658	0.0000116675	-.0000022147
PCB_133	0.0000000692	-.0000004512	0.0000000937	-.0000005381	0.0000000182

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_136	PCB 136	-.0000000030	0.0000000008	0.0000000007
PCB_137	PCB 137	0.0000000559	-.0000000018	0.0000000006
PCB_141	PCB 141	-.0000000091	0.0000000048	0.0000000055
PCB_142	PCB 142	-.0000000001	0.0000000000	0.0000000000
PCB_144	PCB 144	0.0000000101	0.0000000010	0.0000000017
PCB_145	PCB 145	0.0000000002	-.0000000000	0.0000000000
PCB_146	PCB 146	0.0000000269	0.0000000033	0.0000000052
PCB_148	PCB 148	0.0000000003	-.0000000000	-.0000000000
PCB_150	PCB 150	0.0000000002	-.0000000000	-.0000000000
PCB_152	PCB 152	0.0000000002	-.0000000000	-.0000000000
PCB_154	PCB 154	0.0000000043	-.0000000002	0.0000000000
PCB_155	PCB 155	-.0000000001	0.0000000000	0.0000000000
PCB_158	PCB 158	0.0000000642	-.0000000018	0.0000000013
PCB_159	PCB 159	0.0000000005	0.0000000000	0.0000000000
PCB_160	PCB 160	-.0000000001	0.0000000000	0.0000000000
PCB_161	PCB 161	-.0000000001	0.0000000000	0.0000000000
PCB_162	PCB 162	-.0000000012	0.0000000002	0.0000000001
PCB_164	PCB 164	0.0000000223	0.0000000011	0.0000000024
PCB_165	PCB 165	-.0000000005	-.0000000000	-.0000000000
PCB_167	PCB 167	0.0000000261	-.0000000005	0.0000000008
PCB_169	PCB 169	-.0000000003	0.0000000000	0.0000000000
PCB_170	PCB 170	0.0000000069	0.0000000044	0.0000000056
PCB_172	PCB 172	-.0000000073	0.0000000018	0.0000000017
PCB_174	PCB 174	-.0000000593	0.0000000087	0.0000000071
PCB_175	PCB 175	-.0000000021	0.0000000005	0.0000000004
PCB_176	PCB 176	-.0000000071	0.0000000013	0.0000000011
PCB_177	PCB 177	-.0000000329	0.0000000058	0.0000000051
PCB_178	PCB 178	-.0000000234	0.0000000032	0.0000000025
PCB_179	PCB 179	-.0000000339	0.0000000046	0.0000000036
PCB_181	PCB 181	0.0000000018	-.0000000000	0.0000000001
PCB_182	PCB 182	0.0000000000	0.0000000000	0.0000000000
PCB_184	PCB 184	-.0000000001	0.0000000000	0.0000000000
PCB_186	PCB 186	-.0000000001	0.0000000000	0.0000000000
PCB_187	PCB 187	-.0000002041	0.0000000335	0.0000000282
PCB_188	PCB 188	-.0000000001	0.0000000000	0.0000000000
PCB_189	PCB 189	0.0000000025	0.0000000001	0.0000000002
PCB_190	PCB 190	-.0000000102	0.0000000013	0.0000000011
PCB_191	PCB 191	-.0000000003	0.0000000003	0.0000000003
PCB_192	PCB 192	-.0000000001	0.0000000000	0.0000000000
PCB_194	PCB 194	-.0000000112	0.0000000021	0.0000000019

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_136	-.0000000481	0.0000000002	-.0000000020	-.0000000009	-.0000000605
PCB_137	0.0000001062	0.0000000036	0.0000000382	0.0000000089	0.0000004892
PCB_141	-.0000018359	0.0000000017	-.0000002025	-.0000000223	-.0000001453
PCB_142	-.0000000031	-.0000000000	-.0000000004	-.0000000000	-.0000000012
PCB_144	-.0000001428	0.0000000017	-.0000000002	0.0000000007	0.0000000413
PCB_145	0.0000000009	0.0000000000	0.0000000002	0.0000000000	0.0000000014
PCB_146	-.0000008458	0.0000000047	-.0000000569	-.0000000039	0.0000000773
PCB_148	0.0000000066	0.0000000000	0.0000000010	0.0000000001	0.0000000012
PCB_150	0.0000000053	0.0000000000	0.0000000007	0.0000000001	0.0000000014
PCB_152	0.0000000053	0.0000000000	0.0000000007	0.0000000001	0.0000000018
PCB_154	0.0000000725	0.0000000003	0.0000000113	0.0000000015	0.0000000224
PCB_155	-.0000000016	-.0000000000	-.0000000002	-.0000000000	-.0000000007
PCB_158	-.0000001769	0.0000000039	0.0000000076	0.0000000058	0.0000005061
PCB_159	0.0000000041	0.0000000001	0.0000000010	0.0000000001	0.0000000042
PCB_160	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_161	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_162	-.0000000534	-.0000000001	-.0000000051	-.0000000008	-.0000000198
PCB_164	-.0000002540	0.0000000027	-.0000000065	0.0000000011	0.0000001245
PCB_165	-.0000000003	-.0000000001	-.0000000006	-.0000000001	-.0000000068
PCB_167	-.0000001610	0.0000000017	-.0000000096	0.0000000013	0.0000002121
PCB_169	-.0000000064	0.0000000000	-.0000000007	-.0000000001	-.0000000024
PCB_170	-.0000013930	0.0000000035	-.0000001297	-.0000000128	0.0000000022
PCB_172	-.0000003806	0.0000000007	-.0000000358	-.0000000043	-.0000000862
PCB_174	-.0000017346	0.0000000011	-.0000001785	-.0000000237	-.0000005924
PCB_175	-.0000000892	0.0000000001	-.0000000084	-.0000000011	-.0000000246
PCB_176	-.0000002439	0.0000000003	-.0000000232	-.0000000031	-.0000000786
PCB_177	-.0000011347	0.0000000014	-.0000001109	-.0000000145	-.0000003619
PCB_178	-.0000006173	0.0000000003	-.0000000648	-.0000000088	-.0000002292
PCB_179	-.0000008613	0.0000000004	-.0000000892	-.0000000122	-.0000003279
PCB_181	-.0000000020	0.0000000001	0.0000000007	0.0000000002	0.0000000143
PCB_182	-.0000000084	0.0000000000	-.0000000007	-.0000000001	-.0000000001
PCB_184	-.0000000023	0.0000000000	-.0000000002	-.0000000000	-.0000000006
PCB_186	-.0000000016	0.0000000000	-.0000000002	-.0000000000	-.0000000005
PCB_187	-.0000059777	0.0000000075	-.0000005891	-.0000000782	-.0000021114
PCB_188	-.0000000032	0.0000000000	-.0000000003	-.0000000000	-.0000000010
PCB_189	-.0000000247	0.0000000003	-.0000000008	0.0000000001	0.0000000160
PCB_190	-.0000003388	-.0000000001	-.0000000366	-.0000000048	-.0000001084
PCB_191	-.0000000677	0.0000000002	-.0000000059	-.0000000006	-.0000000083
PCB_192	-.0000000022	-.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_194	-.0000004623	0.0000000005	-.0000000467	-.0000000058	-.0000001269

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_136	-.0000000025	-.0000000031	0.0000000021	0.0000000007	0.0000000036
PCB_137	0.0000000175	-.0000000021	0.0000000046	-.0000000019	0.0000000226
PCB_141	-.0000000422	-.0000001819	0.0000000650	0.0000000049	-.0000000103
PCB_142	-.0000000001	-.0000000003	0.0000000001	0.0000000000	-.0000000001
PCB_144	0.0000000005	-.0000000128	0.0000000058	0.0000000010	0.0000000117
PCB_145	0.0000000001	0.0000000001	0.0000000000	-.0000000000	0.0000000001
PCB_146	-.0000000104	-.0000000827	0.0000000270	0.0000000032	0.0000000219
PCB_148	0.0000000002	0.0000000007	-.0000000003	-.0000000000	0.0000000003
PCB_150	0.0000000001	0.0000000005	-.0000000002	-.0000000000	0.0000000002
PCB_152	0.0000000002	0.0000000005	-.0000000002	-.0000000000	0.0000000000
PCB_154	0.0000000025	0.0000000073	-.0000000034	-.0000000002	0.0000000038
PCB_155	-.0000000001	-.0000000001	0.0000000001	0.0000000000	-.0000000000
PCB_158	0.0000000118	-.0000000301	0.0000000088	-.0000000019	0.0000000268
PCB_159	0.0000000003	0.0000000003	0.0000000002	0.0000000000	0.0000000004
PCB_160	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_161	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_162	-.0000000014	-.0000000044	-.0000000000	0.0000000002	-.0000000006
PCB_164	0.0000000007	-.0000000262	0.0000000111	0.0000000010	0.0000000182
PCB_165	-.0000000003	0.0000000002	-.0000000006	-.0000000000	-.0000000002
PCB_167	0.0000000024	-.0000000223	0.0000000091	-.0000000005	0.0000000101
PCB_169	-.0000000002	-.0000000006	0.0000000002	0.0000000000	-.0000000001
PCB_170	-.0000000243	-.0000001362	0.0000000511	0.0000000044	0.0000000050
PCB_172	-.0000000086	-.0000000346	0.0000000131	0.0000000018	-.0000000007
PCB_174	-.0000000467	-.0000001541	0.0000000590	0.0000000087	-.0000000171
PCB_175	-.0000000021	-.0000000080	0.0000000030	0.0000000005	-.0000000002
PCB_176	-.0000000061	-.0000000215	0.0000000080	0.0000000013	-.0000000012
PCB_177	-.0000000291	-.0000001006	0.0000000381	0.0000000059	-.0000000058
PCB_178	-.0000000174	-.0000000550	0.0000000214	0.0000000032	-.0000000079
PCB_179	-.0000000242	-.0000000764	0.0000000303	0.0000000046	-.0000000110
PCB_181	0.0000000004	-.0000000006	0.0000000003	-.0000000000	0.0000000009
PCB_182	-.0000000001	-.0000000008	0.0000000004	0.0000000000	0.0000000001
PCB_184	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_186	-.0000000000	-.0000000001	0.0000000001	0.0000000000	-.0000000000
PCB_187	-.0000001599	-.0000005305	0.0000002186	0.0000000336	-.0000000436
PCB_188	-.0000000001	-.0000000003	0.0000000001	0.0000000000	-.0000000000
PCB_189	0.0000000002	-.0000000026	0.0000000010	0.0000000001	0.0000000017
PCB_190	-.0000000089	-.0000000295	0.0000000083	0.0000000013	-.0000000034
PCB_191	-.0000000013	-.0000000062	0.0000000022	0.0000000003	0.0000000004
PCB_192	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_194	-.0000000115	-.0000000414	0.0000000148	0.0000000021	-.0000000020

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_136	0.0000000403	-.0000000556	-.0000000844	0.0000000895	0.0000000009
PCB_137	-.0000002507	-.0000015282	-.0000004896	-.0000003102	-.0000000031
PCB_141	-.0000007674	-.0000065233	-.0000032593	-.0000006655	-.0000000009
PCB_142	-.0000000005	-.0000000071	-.0000000041	-.0000000002	0.0000000000
PCB_144	-.0000000601	-.0000010330	-.0000004387	0.0000000117	0.0000000002
PCB_145	-.0000000001	-.0000000021	-.0000000004	-.0000000001	-.0000000000
PCB_146	-.0000004165	-.0000041531	-.0000020129	-.0000002473	0.0000000000
PCB_148	0.0000000021	0.0000000150	0.0000000069	0.0000000032	0.0000000000
PCB_150	0.0000000014	0.0000000148	0.0000000061	0.0000000014	0.0000000000
PCB_152	0.0000000015	0.0000000170	0.0000000084	0.0000000008	-.0000000000
PCB_154	0.0000000190	0.0000001158	0.0000000653	0.0000000296	0.0000000000
PCB_155	-.0000000003	-.0000000032	-.0000000020	-.0000000001	0.0000000000
PCB_158	-.0000004310	-.0000028062	-.0000011185	-.0000004615	-.0000000040
PCB_159	0.0000000014	-.0000000050	0.0000000003	0.0000000020	0.0000000000
PCB_160	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_161	-.0000000004	-.0000000050	-.0000000029	-.0000000001	0.0000000000
PCB_162	-.0000000164	-.0000001232	-.0000000728	-.0000000074	0.0000000000
PCB_164	-.0000001653	-.0000018850	-.0000008229	-.0000000822	-.0000000003
PCB_165	0.0000000007	0.0000000237	0.0000000047	0.0000000015	0.0000000000
PCB_167	-.0000002227	-.0000015285	-.0000006429	-.0000002411	-.0000000018
PCB_169	-.0000000009	-.0000000159	-.0000000087	0.0000000000	0.0000000000
PCB_170	-.0000005999	-.0000057070	-.0000026505	-.0000004672	-.0000000008
PCB_172	-.0000000969	-.0000012515	-.0000006223	-.0000000358	0.0000000007
PCB_174	-.0000003110	-.0000047082	-.0000024782	-.0000000403	0.0000000043
PCB_175	-.0000000193	-.0000002772	-.0000001406	-.0000000034	0.0000000002
PCB_176	-.0000000446	-.0000007030	-.0000003656	0.0000000000	0.0000000006
PCB_177	-.0000002154	-.0000033023	-.0000017219	-.0000000139	0.0000000028
PCB_178	-.0000000979	-.0000015427	-.0000008523	-.0000000058	0.0000000017
PCB_179	-.0000001219	-.0000021211	-.0000011684	0.0000000120	0.0000000026
PCB_181	-.0000000095	-.0000000727	-.0000000275	-.0000000097	-.0000000001
PCB_182	-.0000000031	-.0000000346	-.0000000164	-.0000000020	0.0000000000
PCB_184	-.0000000004	-.0000000068	-.0000000036	-.0000000001	0.0000000000
PCB_186	-.0000000003	-.0000000040	-.0000000022	-.0000000002	0.0000000000
PCB_187	-.0000008971	-.0000164029	-.0000087858	0.0000001735	0.0000000184
PCB_188	-.0000000006	-.0000000083	-.0000000046	-.0000000002	0.0000000000
PCB_189	-.0000000204	-.0000002001	-.0000000833	-.0000000142	-.0000000001
PCB_190	-.0000000867	-.0000009695	-.0000004856	-.0000000387	0.0000000004
PCB_191	-.0000000225	-.0000002607	-.0000001237	-.0000000110	0.0000000001
PCB_192	-.0000000004	-.0000000051	-.0000000029	-.0000000001	0.0000000000
PCB_194	-.0000001135	-.0000014495	-.0000007293	-.0000000396	0.0000000008

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_136	0.0000000030	0.0000001074	0.0000001776	0.0000003102	0.0000001251
PCB_137	-.0000000069	-.0000006950	-.0000029470	-.0000010971	-.0000014937
PCB_141	0.0000000197	-.0000016325	-.0000085983	-.0000021949	-.0000044572
PCB_142	0.0000000001	-.0000000012	-.0000000082	-.0000000010	-.0000000037
PCB_144	0.0000000040	-.0000002522	-.0000014986	-.0000001131	-.0000006034
PCB_145	-.0000000000	-.0000000008	-.0000000044	-.0000000004	-.0000000019
PCB_146	0.0000000133	-.0000011536	-.0000060787	-.0000014181	-.0000027008
PCB_148	-.0000000001	0.0000000040	0.0000000188	0.0000000068	0.0000000120
PCB_150	-.0000000001	0.0000000042	0.0000000207	0.0000000045	0.0000000101
PCB_152	-.0000000001	0.0000000037	0.0000000211	0.0000000038	0.0000000099
PCB_154	-.0000000007	0.0000000279	0.0000001291	0.0000000640	0.0000000902
PCB_155	0.0000000000	-.0000000005	-.0000000034	-.0000000006	-.0000000016
PCB_158	-.0000000066	-.0000010143	-.0000045625	-.0000015296	-.0000024275
PCB_159	0.0000000001	-.0000000016	-.0000000142	0.0000000031	-.0000000018
PCB_160	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_161	0.0000000000	-.0000000009	-.0000000058	-.0000000007	-.0000000026
PCB_162	0.0000000006	-.0000000302	-.0000001506	-.0000000362	-.0000000733
PCB_164	0.0000000044	-.0000005038	-.0000027629	-.0000004622	-.0000012396
PCB_165	-.0000000001	0.0000000076	0.0000000429	0.0000000022	0.0000000185
PCB_167	-.0000000019	-.0000005154	-.0000023863	-.0000008017	-.0000012694
PCB_169	0.0000000001	-.0000000026	-.0000000187	-.0000000011	-.0000000077
PCB_170	0.0000000179	-.0000015381	-.0000080144	-.0000017918	-.0000038638
PCB_172	0.0000000072	-.0000002870	-.0000016677	-.0000002466	-.0000007206
PCB_174	0.0000000346	-.0000009041	-.0000057980	-.0000005505	-.0000024542
PCB_175	0.0000000018	-.0000000594	-.0000003607	-.0000000422	-.0000001512
PCB_176	0.0000000051	-.0000001397	-.0000008882	-.0000000792	-.0000003645
PCB_177	0.0000000232	-.0000006492	-.0000041414	-.0000003936	-.0000017277
PCB_178	0.0000000126	-.0000002781	-.0000018584	-.0000001763	-.0000007680
PCB_179	0.0000000182	-.0000003686	-.0000025382	-.0000001768	-.0000010262
PCB_181	-.0000000001	-.0000000261	-.0000001220	-.0000000362	-.0000000604
PCB_182	0.0000000001	-.0000000087	-.0000000481	-.0000000090	-.0000000221
PCB_184	0.0000000001	-.0000000014	-.0000000089	-.0000000011	-.0000000037
PCB_186	0.0000000000	-.0000000008	-.0000000050	-.0000000008	-.0000000022
PCB_187	0.0000001328	-.0000030207	-.0000203756	-.0000015541	-.0000080369
PCB_188	0.0000000001	-.0000000016	-.0000000102	-.0000000013	-.0000000043
PCB_189	0.0000000003	-.0000000599	-.0000003047	-.0000000663	-.0000001413
PCB_190	0.0000000052	-.0000002131	-.0000012061	-.0000001743	-.0000005662
PCB_191	0.0000000012	-.0000000648	-.0000003589	-.0000000606	-.0000001602
PCB_192	0.0000000000	-.0000000009	-.0000000059	-.0000000008	-.0000000026
PCB_194	0.0000000083	-.0000003135	-.0000018567	-.0000002522	-.0000008229

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_136	0.0000000025	0.0000000007	-.0000000286	0.0000000214	0.0000000041
PCB_137	-.0000000287	-.0000000019	0.0000000765	-.0000000427	-.0000000230
PCB_141	-.0000000947	0.0000000049	-.0000002467	-.0000000920	-.0000000387
PCB_142	-.0000000001	0.0000000000	-.0000000004	-.0000000000	-.0000000000
PCB_144	-.0000000144	0.0000000010	-.0000000434	0.0000000146	-.0000000062
PCB_145	-.0000000000	-.0000000000	-.0000000003	0.0000000000	-.0000000000
PCB_146	-.0000000585	0.0000000032	0.0000002163	0.0000000034	-.0000000231
PCB_148	0.0000000003	-.0000000000	0.0000000044	0.0000000008	0.0000000002
PCB_150	0.0000000003	-.0000000000	0.0000000032	0.0000000004	0.0000000001
PCB_152	0.0000000003	-.0000000000	0.0000000021	0.0000000001	0.0000000001
PCB_154	0.0000000021	-.0000000002	0.0000000292	0.0000000076	0.0000000010
PCB_155	-.0000000000	0.0000000000	0.0000000001	-.0000000000	-.0000000000
PCB_158	-.0000000465	-.0000000019	0.0000000652	-.0000000630	-.0000000304
PCB_159	-.0000000001	0.0000000000	-.0000000018	0.0000000006	-.0000000001
PCB_160	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_161	-.0000000001	0.0000000000	-.0000000003	-.0000000000	-.0000000000
PCB_162	-.0000000013	0.0000000002	0.0000000301	-.0000000008	-.0000000001
PCB_164	-.0000000273	0.0000000010	-.0000000451	0.0000000063	-.0000000129
PCB_165	0.0000000005	-.0000000000	0.0000000097	0.0000000004	0.0000000004
PCB_167	-.0000000253	-.0000000005	-.0000000259	-.0000000327	-.0000000154
PCB_169	-.0000000002	0.0000000000	-.0000000011	0.0000000001	-.0000000000
PCB_170	-.0000000854	0.0000000044	-.0000002285	-.0000000569	-.0000000390
PCB_172	-.0000000172	0.0000000018	-.0000000389	0.0000000016	-.0000000057
PCB_174	-.0000000612	0.0000000087	-.0000002378	0.0000000174	-.0000000144
PCB_175	-.0000000037	0.0000000005	-.0000000082	0.0000000012	-.0000000011
PCB_176	-.0000000090	0.0000000013	-.0000000198	0.0000000046	-.0000000022
PCB_177	-.0000000427	0.0000000059	-.0000001220	0.0000000198	-.0000000102
PCB_178	-.0000000193	0.0000000032	-.0000000459	0.0000000082	-.0000000033
PCB_179	-.0000000262	0.0000000046	-.0000000801	0.0000000143	-.0000000042
PCB_181	-.0000000012	-.0000000000	-.0000000007	-.0000000010	-.0000000008
PCB_182	-.0000000005	0.0000000000	-.0000000014	-.0000000001	-.0000000002
PCB_184	-.0000000001	0.0000000000	-.0000000002	0.0000000000	-.0000000000
PCB_186	-.0000000001	0.0000000000	-.0000000001	-.0000000000	-.0000000000
PCB_187	-.0000002075	0.0000000336	-.0000006163	0.0000001577	-.0000000401
PCB_188	-.0000000001	0.0000000000	-.0000000002	0.0000000000	-.0000000000
PCB_189	-.0000000031	0.0000000001	-.0000000058	-.0000000007	-.0000000016
PCB_190	-.0000000133	0.0000000013	-.0000000509	-.0000000048	-.0000000041
PCB_191	-.0000000037	0.0000000003	-.0000000079	-.0000000003	-.0000000014
PCB_192	-.0000000001	0.0000000000	-.0000000002	-.0000000000	-.0000000000
PCB_194	-.0000000198	0.0000000021	-.0000000715	0.0000000011	-.0000000060

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_136	0.0000000019	0.0000004271	0.0000001417	0.0000001364	0.0000000742
PCB_137	-.0000000065	-.0000023528	-.0000002574	-.0000012536	-.0000003066
PCB_141	-.0000000058	-.0000048081	-.0000009368	-.0000022735	-.0000002868
PCB_142	0.0000000000	-.0000000024	-.0000000009	-.0000000010	0.0000000004
PCB_144	0.0000000006	-.0000006718	-.0000000767	-.0000004074	-.0000000002
PCB_145	-.0000000000	-.0000000032	-.0000000000	-.0000000020	-.0000000003
PCB_146	-.0000000009	-.0000027971	-.0000003066	-.0000017068	-.0000001659
PCB_148	0.0000000000	0.0000000178	0.0000000076	0.0000000040	0.0000000007
PCB_150	0.0000000000	0.0000000155	0.0000000063	0.0000000043	0.0000000000
PCB_152	-.0000000000	0.0000000110	0.0000000046	0.0000000040	-.0000000001
PCB_154	0.0000000003	0.0000001161	0.0000000595	0.0000000160	0.0000000032
PCB_155	0.0000000000	-.0000000005	-.0000000002	-.0000000003	0.0000000002
PCB_158	-.0000000089	-.0000033469	-.0000003265	-.0000017802	-.0000004185
PCB_159	0.0000000000	-.0000000051	-.0000000013	-.0000000043	0.0000000010
PCB_160	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_161	0.0000000000	-.0000000016	-.0000000007	-.0000000007	0.0000000003
PCB_162	0.0000000000	-.0000000368	0.0000000271	-.0000000387	-.0000000028
PCB_164	-.0000000008	-.0000014395	-.0000001783	-.0000008256	-.0000000764
PCB_165	0.0000000000	0.0000000360	0.0000000106	0.0000000136	0.0000000004
PCB_167	-.0000000041	-.0000017205	-.0000002715	-.0000008596	-.0000001952
PCB_169	0.0000000000	-.0000000050	-.0000000018	-.0000000023	0.0000000011
PCB_170	-.0000000041	-.0000045269	-.0000008700	-.0000021855	-.0000002172
PCB_172	0.0000000008	-.0000006953	-.0000001521	-.0000003558	0.0000000189
PCB_174	0.0000000063	-.0000019378	-.0000005332	-.0000009435	0.0000002228
PCB_175	0.0000000003	-.0000001328	-.0000000287	-.0000000705	0.0000000085
PCB_176	0.0000000010	-.0000002839	-.0000000600	-.0000001561	0.0000000321
PCB_177	0.0000000044	-.0000013640	-.0000003206	-.0000007269	0.0000001405
PCB_178	0.0000000026	-.0000004937	-.0000001458	-.0000002592	0.0000000915
PCB_179	0.0000000040	-.0000006308	-.0000001931	-.0000003307	0.0000001458
PCB_181	-.0000000002	-.0000000862	-.0000000119	-.0000000455	-.0000000093
PCB_182	-.0000000000	-.0000000241	-.0000000046	-.0000000123	-.0000000006
PCB_184	0.0000000000	-.0000000030	-.0000000008	-.0000000016	0.0000000003
PCB_186	0.0000000000	-.0000000018	-.0000000004	-.0000000009	0.0000000001
PCB_187	0.0000000301	-.0000055097	-.0000016932	-.0000030182	0.0000010157
PCB_188	0.0000000000	-.0000000029	-.0000000009	-.0000000015	0.0000000004
PCB_189	-.0000000002	-.0000001824	-.0000000294	-.0000000960	-.0000000129
PCB_190	0.0000000003	-.0000005546	-.0000001210	-.0000002487	0.0000000105
PCB_191	0.0000000000	-.0000001716	-.0000000324	-.0000000881	-.0000000021
PCB_192	0.0000000000	-.0000000017	-.0000000006	-.0000000007	0.0000000003
PCB_194	0.0000000010	-.0000007756	-.0000001872	-.0000003763	0.0000000264

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_136	0.0000005247	-.0000000025	0.0000000007	0.0000001194	0.0000000169
PCB_137	-.0000117391	-.0000001864	-.0000000019	-.0000001707	-.0000001660
PCB_141	-.0000221915	-.0000005886	0.0000000049	0.0000002898	-.0000003986
PCB_142	-.0000000161	-.0000000006	0.0000000000	0.0000000011	-.0000000003
PCB_144	-.0000046209	-.0000001052	0.0000000010	0.0000001173	-.0000000659
PCB_145	-.0000000204	-.0000000003	-.0000000000	0.0000000003	-.0000000004
PCB_146	-.0000201888	-.0000004339	0.0000000032	0.0000000572	-.0000002134
PCB_148	0.0000000027	0.0000000009	-.0000000000	-.0000000019	0.0000000017
PCB_150	0.0000000208	0.0000000010	-.0000000000	-.0000000019	0.0000000015
PCB_152	0.0000000250	0.0000000013	-.0000000000	-.0000000014	0.0000000009
PCB_154	-.0000000671	0.0000000057	-.0000000002	-.0000000129	0.0000000119
PCB_155	-.0000000077	-.0000000003	0.0000000000	0.0000000004	-.0000000001
PCB_158	-.0000166267	-.0000003061	-.0000000019	-.0000001745	-.0000002312
PCB_159	-.0000000548	-.0000000009	0.0000000000	0.0000000032	-.0000000011
PCB_160	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_161	-.0000000111	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_162	-.0000007391	-.0000000128	0.0000000002	-.0000000005	-.0000000019
PCB_164	-.0000086476	-.0000001933	0.0000000010	0.0000001087	-.0000001218
PCB_165	0.0000000942	0.0000000021	-.0000000000	-.0000000077	0.0000000045
PCB_167	-.0000074855	-.0000001571	-.0000000005	-.0000000687	-.0000001208
PCB_169	-.0000000382	-.0000000013	0.0000000000	0.0000000028	-.0000000008
PCB_170	-.0000219136	-.0000005324	0.0000000044	0.0000003256	-.0000003893
PCB_172	-.0000043326	-.0000001144	0.0000000018	0.0000001310	-.0000000708
PCB_174	-.0000131598	-.0000004046	0.0000000087	0.0000006842	-.0000002422
PCB_175	-.0000009316	-.0000000252	0.0000000005	0.0000000339	-.0000000147
PCB_176	-.0000022729	-.0000000630	0.0000000013	0.0000000983	-.0000000352
PCB_177	-.0000101330	-.0000002931	0.0000000059	0.0000004499	-.0000001645
PCB_178	-.0000042994	-.0000001330	0.0000000032	0.0000002287	-.0000000705
PCB_179	-.0000058065	-.0000001815	0.0000000046	0.0000003503	-.0000000996
PCB_181	-.0000004167	-.0000000080	-.0000000000	-.0000000025	-.0000000063
PCB_182	-.0000001330	-.0000000033	0.0000000000	0.0000000028	-.0000000023
PCB_184	-.0000000231	-.0000000006	0.0000000000	0.0000000009	-.0000000004
PCB_186	-.0000000122	-.0000000003	0.0000000000	0.0000000005	-.0000000002
PCB_187	-.0000474689	-.0000014473	0.0000000336	0.0000025040	-.0000007764
PCB_188	-.0000000246	-.0000000007	0.0000000000	0.0000000012	-.0000000004
PCB_189	-.0000009183	-.0000000204	0.0000000001	0.0000000048	-.0000000141
PCB_190	-.0000027668	-.0000000820	0.0000000013	0.0000001020	-.0000000526
PCB_191	-.0000009811	-.0000000244	0.0000000003	0.0000000215	-.0000000158
PCB_192	-.0000000117	-.0000000004	0.0000000000	0.0000000007	-.0000000002
PCB_194	-.0000043756	-.0000001277	0.0000000021	0.0000001593	-.0000000782

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_136	0.0000000160	0.0000000563	0.0000000170	0.0000005396	0.0000000879
PCB_137	-.0000001096	0.0000000019	-.0000000707	-.0000026492	-.0000003753
PCB_141	-.0000002158	0.0000004450	-.0000004165	-.0000044900	-.0000038835
PCB_142	-.0000000001	0.0000000010	-.0000000005	-.0000000010	-.0000000056
PCB_144	-.0000000406	0.0000001427	-.0000000582	-.0000004658	-.0000008119
PCB_145	-.0000000002	0.0000000003	-.0000000000	-.0000000035	0.0000000006
PCB_146	-.0000001280	0.0000003664	-.0000001780	-.0000024171	-.0000023898
PCB_148	0.0000000009	-.0000000009	0.0000000023	0.0000000181	0.0000000151
PCB_150	0.0000000008	-.0000000017	0.0000000021	0.0000000129	0.0000000204
PCB_152	0.0000000006	-.0000000018	0.0000000015	0.0000000074	0.0000000180
PCB_154	0.0000000048	-.0000000057	0.0000000174	0.0000001234	0.0000001041
PCB_155	-.0000000000	0.0000000004	-.0000000002	0.0000000000	-.0000000019
PCB_158	-.0000001506	0.0000000297	-.0000001291	-.0000036506	-.0000009118
PCB_159	-.0000000006	0.0000000030	-.0000000003	-.0000000023	-.0000000043
PCB_160	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_161	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_162	0.0000000001	0.0000000076	-.0000000021	-.0000000278	-.0000000522
PCB_164	-.0000000763	0.0000001844	-.0000000972	-.0000012365	-.0000011777
PCB_165	0.0000000024	-.0000000048	0.0000000035	0.0000000341	0.0000000237
PCB_167	-.0000000786	0.0000000326	-.0000000845	-.0000018297	-.0000006451
PCB_169	-.0000000003	0.0000000026	-.0000000012	-.0000000012	-.0000000135
PCB_170	-.0000002200	0.0000004947	-.0000003926	-.0000040601	-.0000040189
PCB_172	-.0000000361	0.0000001593	-.0000000849	-.0000004746	-.0000010240
PCB_174	-.0000001059	0.0000006855	-.0000003389	-.0000009095	-.0000041011
PCB_175	-.0000000071	0.0000000384	-.0000000185	-.0000000769	-.0000002321
PCB_176	-.0000000156	0.0000001043	-.0000000465	-.0000001280	-.0000005962
PCB_177	-.0000000748	0.0000004763	-.0000002202	-.0000006476	-.0000027767
PCB_178	-.0000000262	0.0000002339	-.0000001034	-.0000001488	-.0000012799
PCB_179	-.0000000357	0.0000003412	-.0000001462	-.0000001247	-.0000018131
PCB_181	-.0000000042	0.0000000029	-.0000000038	-.0000000900	-.0000000320
PCB_182	-.0000000012	0.0000000037	-.0000000022	-.0000000203	-.0000000237
PCB_184	-.0000000002	0.0000000010	-.0000000004	-.0000000017	-.0000000050
PCB_186	-.0000000001	0.0000000005	-.0000000003	-.0000000012	-.0000000030
PCB_187	-.0000003232	0.0000026346	-.0000010985	-.0000014995	-.0000142233
PCB_188	-.0000000002	0.0000000012	-.0000000005	-.0000000014	-.0000000061
PCB_189	-.0000000093	0.0000000159	-.0000000120	-.0000001662	-.0000001378
PCB_190	-.0000000273	0.0000001076	-.0000000748	-.0000003815	-.0000008777
PCB_191	-.0000000088	0.0000000291	-.0000000173	-.0000001331	-.0000002051
PCB_192	-.0000000001	0.0000000007	-.0000000004	-.0000000007	-.0000000040
PCB_194	-.0000000404	0.0000001797	-.0000001028	-.0000005046	-.0000012349

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_136	0.0000000286	0.0000000278	0.0000001001	-.0000000033	0.0000000557
PCB_137	-.0000001182	-.0000003304	-.0000007848	0.0000000831	-.0000001415
PCB_141	-.0000002429	-.0000013271	-.0000019776	0.0000001395	0.0000000130
PCB_142	-.0000000001	-.0000000016	-.0000000017	0.0000000001	0.0000000005
PCB_144	-.0000000313	-.0000002573	-.0000003595	-.0000000030	0.0000000352
PCB_145	-.0000000001	-.0000000007	-.0000000015	0.0000000003	-.0000000001
PCB_146	-.0000001585	-.0000007031	-.0000010889	0.0000000442	0.0000000628
PCB_148	0.0000000009	0.0000000061	0.0000000087	-.0000000009	0.0000000005
PCB_150	0.0000000008	0.0000000063	0.0000000083	-.0000000000	-.0000000000
PCB_152	0.0000000006	0.0000000047	0.0000000056	0.0000000001	-.0000000004
PCB_154	0.0000000063	0.0000000416	0.0000000555	-.0000000086	0.0000000023
PCB_155	-.0000000000	-.0000000005	-.0000000004	0.0000000001	0.0000000002
PCB_158	-.0000001616	-.0000005182	-.0000011135	0.0000000939	-.0000001692
PCB_159	-.0000000002	-.0000000036	-.0000000055	0.0000000008	0.0000000008
PCB_160	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_161	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_162	-.0000000018	-.0000000047	-.0000000051	-.0000000043	0.0000000055
PCB_164	-.0000000701	-.0000004103	-.0000006376	0.0000000213	0.0000000164
PCB_165	0.0000000014	0.0000000142	0.0000000219	-.0000000021	0.0000000003
PCB_167	-.0000000866	-.0000003076	-.0000005989	0.0000000554	-.0000000779
PCB_169	-.0000000003	-.0000000038	-.0000000040	0.0000000002	0.0000000012
PCB_170	-.0000002296	-.0000013440	-.0000019914	0.0000000836	0.0000000288
PCB_172	-.0000000376	-.0000002940	-.0000003715	0.0000000050	0.0000000520
PCB_174	-.0000001047	-.0000011274	-.0000012677	0.0000000063	0.0000002880
PCB_175	-.0000000072	-.0000000646	-.0000000775	0.0000000002	0.0000000146
PCB_176	-.0000000153	-.0000001617	-.0000001837	-.0000000010	0.0000000442
PCB_177	-.0000000739	-.0000007580	-.0000008650	0.0000000012	0.0000001982
PCB_178	-.0000000294	-.0000003395	-.0000003567	0.0000000069	0.0000001105
PCB_179	-.0000000367	-.0000004859	-.0000005026	0.0000000077	0.0000001638
PCB_181	-.0000000043	-.0000000161	-.0000000316	0.0000000026	-.0000000036
PCB_182	-.0000000012	-.0000000080	-.0000000114	0.0000000006	0.0000000007
PCB_184	-.0000000002	-.0000000016	-.0000000019	0.0000000001	0.0000000004
PCB_186	-.0000000001	-.0000000009	-.0000000011	0.0000000001	0.0000000002
PCB_187	-.0000003306	-.0000037991	-.0000040708	0.0000000462	0.0000011975
PCB_188	-.0000000002	-.0000000018	-.0000000020	0.0000000002	0.0000000006
PCB_189	-.0000000092	-.0000000469	-.0000000756	0.0000000019	-.0000000020
PCB_190	-.0000000275	-.0000002359	-.0000002890	-.0000000101	0.0000000337
PCB_191	-.0000000089	-.0000000613	-.0000000833	0.0000000009	0.0000000069
PCB_192	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_194	-.0000000410	-.0000003443	-.0000004223	-.0000000004	0.0000000604

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_136	0.0000000014	-.0000000191	0.0000000007	0.0000000041	-.0000000978
PCB_137	-.0000000035	0.0000001023	-.0000000019	-.0000000120	0.0000008099
PCB_141	-.0000000006	0.0000001096	0.0000000049	0.0000000114	0.0000004230
PCB_142	0.0000000000	-.0000000001	0.0000000000	0.0000000001	-.0000000013
PCB_144	-.0000000003	0.0000000053	0.0000000010	0.0000000024	0.0000001210
PCB_145	-.0000000000	0.0000000002	-.0000000000	-.0000000000	0.0000000021
PCB_146	0.0000000061	0.0000000259	0.0000000032	0.0000000091	0.0000000981
PCB_148	0.0000000001	-.0000000007	-.0000000000	-.0000000000	-.0000000028
PCB_150	0.0000000001	-.0000000003	-.0000000000	-.0000000000	-.0000000016
PCB_152	0.0000000000	-.0000000000	-.0000000000	-.0000000000	0.0000000010
PCB_154	0.0000000005	-.0000000042	-.0000000002	-.0000000004	0.0000000023
PCB_155	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000009
PCB_158	-.0000000035	0.0000001345	-.0000000019	-.0000000132	0.0000010248
PCB_159	-.0000000000	0.0000000001	0.0000000000	0.0000000000	0.0000000037
PCB_160	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_161	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_162	0.0000000006	-.0000000021	0.0000000002	0.0000000009	-.0000000175
PCB_164	-.0000000003	0.0000000294	0.0000000010	0.0000000012	0.0000002840
PCB_165	0.0000000002	-.0000000017	-.0000000000	0.0000000001	-.0000000163
PCB_167	-.0000000019	0.0000000652	-.0000000005	-.0000000058	0.0000004404
PCB_169	0.0000000000	-.0000000002	0.0000000000	0.0000000001	-.0000000026
PCB_170	-.0000000033	0.0000000930	0.0000000044	0.0000000092	0.0000005602
PCB_172	0.0000000006	-.0000000028	0.0000000018	0.0000000061	-.0000000497
PCB_174	0.0000000035	-.0000000499	0.0000000087	0.0000000324	-.0000005364
PCB_175	0.0000000002	-.0000000020	0.0000000005	0.0000000016	-.0000000202
PCB_176	0.0000000007	-.0000000083	0.0000000013	0.0000000048	-.0000000751
PCB_177	0.0000000031	-.0000000349	0.0000000059	0.0000000216	-.0000003435
PCB_178	0.0000000023	-.0000000251	0.0000000032	0.0000000125	-.0000002726
PCB_179	0.0000000030	-.0000000377	0.0000000046	0.0000000182	-.0000003815
PCB_181	-.0000000001	0.0000000032	-.0000000000	-.0000000003	0.0000000255
PCB_182	-.0000000000	0.0000000004	0.0000000000	0.0000000001	0.0000000021
PCB_184	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000007
PCB_186	0.0000000000	-.0000000000	0.0000000000	0.0000000000	-.0000000004
PCB_187	0.0000000223	-.0000002717	0.0000000336	0.0000001274	-.0000026487
PCB_188	0.0000000000	-.0000000001	0.0000000000	0.0000000001	-.0000000014
PCB_189	-.0000000002	0.0000000044	0.0000000001	-.0000000002	0.0000000380
PCB_190	-.0000000001	-.0000000009	0.0000000013	0.0000000044	-.0000000253
PCB_191	0.0000000000	0.0000000013	0.0000000003	0.0000000008	0.0000000077
PCB_192	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000010
PCB_194	0.0000000005	-.0000000041	0.0000000021	0.0000000070	-.0000000681

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_136	0.0000002833	0.0000005020	0.0000000281	0.0000005763	0.0000000387
PCB_137	-.0000010286	-.0000028214	-.0000000607	-.0000027800	-.0000001855
PCB_141	-.0000017869	-.0000048271	0.0000001347	-.0000064829	-.0000006316
PCB_142	-.0000000009	-.0000000024	0.0000000005	-.0000000046	-.0000000006
PCB_144	-.0000003185	-.0000009745	0.0000000306	-.0000009483	-.0000000999
PCB_145	-.0000000009	-.0000000026	-.0000000000	-.0000000037	-.0000000001
PCB_146	-.0000013861	-.0000048239	0.0000000775	-.0000034567	-.0000004020
PCB_148	0.0000000061	0.0000000011	-.0000000005	0.0000000298	0.0000000022
PCB_150	0.0000000077	0.0000000085	-.0000000006	0.0000000272	0.0000000024
PCB_152	0.0000000054	0.0000000110	-.0000000006	0.0000000174	0.0000000022
PCB_154	0.0000000367	-.0000000169	-.0000000056	0.0000002053	0.0000000165
PCB_155	-.0000000001	-.0000000010	0.0000000002	-.0000000010	-.0000000002
PCB_158	-.0000013180	-.0000038356	-.0000000625	-.0000039165	-.0000002855
PCB_159	-.0000000034	-.0000000081	0.0000000005	-.0000000090	-.0000000007
PCB_160	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_161	-.0000000007	-.0000000017	0.0000000003	-.0000000032	-.0000000005
PCB_162	-.0000000170	-.0000001251	0.0000000037	-.0000000376	-.0000000059
PCB_164	-.0000006209	-.0000019246	0.0000000299	-.0000018532	-.0000001825
PCB_165	0.0000000134	0.0000000092	-.0000000010	0.0000000601	0.0000000035
PCB_167	-.0000006852	-.0000018716	-.0000000214	-.0000020748	-.0000001674
PCB_169	-.0000000021	-.0000000056	0.0000000011	-.0000000101	-.0000000014
PCB_170	-.0000019382	-.0000049439	0.0000001251	-.0000063568	-.0000006024
PCB_172	-.0000003382	-.0000009305	0.0000000528	-.0000010872	-.0000001263
PCB_174	-.0000009115	-.0000024272	0.0000002625	-.0000034725	-.0000004475
PCB_175	-.0000000659	-.0000001889	0.0000000134	-.0000002177	-.0000000269
PCB_176	-.0000001417	-.0000004238	0.0000000382	-.0000004954	-.0000000650
PCB_177	-.0000006573	-.0000019392	0.0000001745	-.0000023376	-.0000003082
PCB_178	-.0000002423	-.0000007479	0.0000000953	-.0000009424	-.0000001389
PCB_179	-.0000003104	-.0000009283	0.0000001394	-.0000012856	-.0000001890
PCB_181	-.0000000366	-.0000001016	-.0000000011	-.0000001045	-.0000000082
PCB_182	-.0000000103	-.0000000281	0.0000000010	-.0000000343	-.0000000035
PCB_184	-.0000000014	-.0000000041	0.0000000004	-.0000000050	-.0000000006
PCB_186	-.0000000008	-.0000000020	0.0000000002	-.0000000031	-.0000000004
PCB_187	-.0000029599	-.0000089893	0.0000010024	-.0000103724	-.0000015392
PCB_188	-.0000000014	-.0000000042	0.0000000005	-.0000000053	-.0000000007
PCB_189	-.0000000834	-.0000002309	0.0000000013	-.0000002373	-.0000000222
PCB_190	-.0000002464	-.0000005902	0.0000000383	-.0000008954	-.0000000980
PCB_191	-.0000000804	-.0000002198	0.0000000083	-.0000002517	-.0000000268
PCB_192	-.0000000007	-.0000000019	0.0000000003	-.0000000032	-.0000000005
PCB_194	-.0000003598	-.0000009517	0.0000000614	-.0000012319	-.0000001456

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_136	0.0000019202	0.0000000439	-.0000014197	0.0000000792	0.0000000007
PCB_137	-.0000130437	-.0000002925	0.0000011567	-.0000003942	-.0000000103
PCB_141	-.0000137235	-.0000005422	-.0000038325	-.0000009607	-.0000000364
PCB_142	0.0000000064	-.0000000003	-.0000000155	-.0000000007	-.0000000000
PCB_144	-.0000037125	-.0000000956	-.0000015918	-.0000001524	-.0000000073
PCB_145	-.0000000210	-.0000000005	-.0000000069	-.0000000006	-.0000000000
PCB_146	-.0000141726	-.0000003735	-.0000025658	-.0000005158	-.0000000231
PCB_148	-.0000000019	0.0000000016	0.0000000147	0.0000000045	0.0000000001
PCB_150	0.0000000226	0.0000000016	0.0000000162	0.0000000042	0.0000000001
PCB_152	0.0000000208	0.0000000012	0.0000000112	0.0000000029	0.0000000001
PCB_154	-.0000002992	0.0000000085	0.0000001294	0.0000000304	0.0000000007
PCB_155	0.0000000056	-.0000000000	-.0000000064	-.0000000001	-.0000000000
PCB_158	-.0000171391	-.0000004032	0.0000016358	-.0000005528	-.0000000166
PCB_159	-.0000000513	-.0000000012	-.0000000584	-.0000000019	-.0000000001
PCB_160	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_161	0.0000000048	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_162	-.0000002304	-.0000000047	-.0000000202	-.0000000004	-.0000000003
PCB_164	-.0000073701	-.0000001904	-.0000016802	-.0000002881	-.0000000123
PCB_165	0.0000001078	0.0000000044	0.0000001004	0.0000000096	0.0000000003
PCB_167	-.0000078126	-.0000002033	0.0000006191	-.0000003055	-.0000000095
PCB_169	0.0000000089	-.0000000006	-.0000000384	-.0000000016	-.0000000001
PCB_170	-.0000158426	-.0000005372	-.0000044981	-.0000009514	-.0000000358
PCB_172	-.0000019723	-.0000000877	-.0000018599	-.0000001681	-.0000000077
PCB_174	-.0000016585	-.0000002404	-.0000091028	-.0000005471	-.0000000279
PCB_175	-.0000003318	-.0000000172	-.0000004750	-.0000000339	-.0000000017
PCB_176	-.0000005174	-.0000000375	-.0000013614	-.0000000773	-.0000000041
PCB_177	-.0000023302	-.0000001770	-.0000061518	-.0000003697	-.0000000195
PCB_178	0.0000002924	-.0000000632	-.0000032621	-.0000001490	-.0000000084
PCB_179	0.0000007563	-.0000000822	-.0000049208	-.0000002043	-.0000000118
PCB_181	-.0000004484	-.0000000108	0.0000000081	-.0000000156	-.0000000005
PCB_182	-.0000000830	-.0000000030	-.0000000424	-.0000000053	-.0000000002
PCB_184	-.0000000040	-.0000000004	-.0000000150	-.0000000008	-.0000000000
PCB_186	-.0000000008	-.0000000002	-.0000000075	-.0000000005	-.0000000000
PCB_187	-.0000030959	-.0000007561	-.0000360047	-.0000017042	-.0000000964
PCB_188	0.0000000013	-.0000000004	-.0000000183	-.0000000008	-.0000000000
PCB_189	-.0000009038	-.0000000231	-.0000000776	-.0000000365	-.0000000014
PCB_190	-.0000012103	-.0000000628	-.0000010578	-.0000001339	-.0000000060
PCB_191	-.0000006204	-.0000000214	-.0000002968	-.0000000385	-.0000000017
PCB_192	0.0000000038	-.0000000002	-.0000000104	-.0000000005	-.0000000000
PCB_194	-.0000018634	-.0000000946	-.0000020204	-.0000001925	-.0000000090

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_136	-.0000015733	0.0000000007	-.0000001227	0.0000000079	0.0000000007
PCB_137	0.0000080955	-.0000000019	0.0000008453	-.0000000427	-.0000000019
PCB_141	0.0000047839	0.0000000049	-.0000008682	-.0000001166	0.0000000049
PCB_142	-.0000000133	0.0000000000	-.0000000037	-.0000000001	0.0000000000
PCB_144	0.0000004242	0.0000000010	-.0000001429	-.0000000182	0.0000000010
PCB_145	0.0000000156	-.0000000000	0.0000000016	-.0000000001	-.0000000000
PCB_146	0.0000014182	0.0000000032	-.0000001451	-.0000000312	0.0000000032
PCB_148	-.0000000298	-.0000000000	0.0000000083	0.0000000009	-.0000000000
PCB_150	-.0000000116	-.0000000000	0.0000000089	0.0000000007	-.0000000000
PCB_152	0.0000000083	-.0000000000	0.0000000078	0.0000000004	-.0000000000
PCB_154	-.0000000739	-.0000000002	0.0000000822	0.0000000061	-.0000000002
PCB_155	-.0000000083	0.0000000000	-.0000000015	-.0000000000	0.0000000000
PCB_158	0.0000102248	-.0000000019	0.0000009893	-.0000000580	-.0000000019
PCB_159	0.0000000134	0.0000000000	-.0000000015	-.0000000004	0.0000000000
PCB_160	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_161	-.0000000096	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_162	-.0000001575	0.0000000002	0.0000000088	0.0000000016	0.0000000002
PCB_164	0.0000020964	0.0000000010	-.0000000415	-.0000000311	0.0000000010
PCB_165	-.0000001095	-.0000000000	0.0000000077	0.0000000021	-.0000000000
PCB_167	0.0000046383	-.0000000005	0.0000003037	-.0000000334	-.0000000005
PCB_169	-.0000000303	0.0000000000	-.0000000084	-.0000000002	0.0000000000
PCB_170	0.0000048798	0.0000000044	-.0000008120	-.0000001201	0.0000000044
PCB_172	-.0000007462	0.0000000018	-.0000003944	-.0000000203	0.0000000018
PCB_174	-.0000065856	0.0000000087	-.0000020936	-.0000000745	0.0000000087
PCB_175	-.0000002747	0.0000000005	-.0000000990	-.0000000041	0.0000000005
PCB_176	-.0000009686	0.0000000013	-.0000002812	-.0000000096	0.0000000013
PCB_177	-.0000043258	0.0000000059	-.0000013232	-.0000000461	0.0000000059
PCB_178	-.0000029410	0.0000000032	-.0000007355	-.0000000186	0.0000000032
PCB_179	-.0000043140	0.0000000046	-.0000010736	-.0000000278	0.0000000046
PCB_181	0.0000002461	-.0000000000	0.0000000186	-.0000000017	-.0000000000
PCB_182	0.0000000141	0.0000000000	-.0000000063	-.0000000007	0.0000000000
PCB_184	-.0000000083	0.0000000000	-.0000000027	-.0000000001	0.0000000000
PCB_186	-.0000000046	0.0000000000	-.0000000016	-.0000000001	0.0000000000
PCB_187	-.0000302101	0.0000000336	-.0000078184	-.0000002088	0.0000000336
PCB_188	-.0000000140	0.0000000000	-.0000000037	-.0000000001	0.0000000000
PCB_189	0.0000003307	0.0000000001	0.0000000009	-.0000000040	0.0000000001
PCB_190	-.0000004974	0.0000000013	-.0000003303	-.0000000180	0.0000000013
PCB_191	0.0000000161	0.0000000003	-.0000000580	-.0000000046	0.0000000003
PCB_192	-.0000000095	0.0000000000	-.0000000026	-.0000000001	0.0000000000
PCB_194	-.0000009848	0.0000000021	-.0000005015	-.0000000242	0.0000000021

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_136	-.0000001827	-.0000023393	0.0000000224	0.0000000029	-.0000000171
PCB_137	0.0000009709	0.0000043656	-.0000001421	-.0000000170	0.0000001392
PCB_141	0.0000005382	-.0000025036	-.0000003566	-.0000000438	0.0000001425
PCB_142	-.0000000016	-.0000000209	-.0000000003	-.0000000000	-.0000000001
PCB_144	0.0000000934	-.0000020731	-.0000000543	-.0000000079	0.0000000178
PCB_145	0.0000000019	-.0000000021	-.0000000004	-.0000000000	0.0000000003
PCB_146	0.0000002910	-.0000033873	-.0000000911	-.0000000178	0.0000000539
PCB_148	-.0000000025	-.0000000057	0.0000000026	0.0000000003	-.0000000007
PCB_150	-.0000000013	0.0000000105	0.0000000021	0.0000000002	-.0000000003
PCB_152	0.0000000006	0.0000000252	0.0000000011	0.0000000001	0.0000000001
PCB_154	0.0000000018	-.0000000225	0.0000000175	0.0000000018	-.0000000033
PCB_155	-.0000000010	-.0000000092	-.0000000000	-.0000000000	-.0000000001
PCB_158	0.0000012088	0.0000054651	-.0000001967	-.0000000235	0.0000001821
PCB_159	0.0000000027	-.0000000678	-.0000000011	-.0000000001	0.0000000005
PCB_160	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_161	-.0000000011	-.0000000147	-.0000000002	-.0000000000	-.0000000001
PCB_162	-.0000000187	0.0000000057	0.0000000058	0.0000000004	-.0000000013
PCB_164	0.0000003013	-.0000018159	-.0000000980	-.0000000134	0.0000000509
PCB_165	-.0000000127	0.0000000578	0.0000000062	0.0000000007	-.0000000025
PCB_167	0.0000005502	0.0000021201	-.0000001115	-.0000000132	0.0000000836
PCB_169	-.0000000034	-.0000000529	-.0000000006	-.0000000001	-.0000000002
PCB_170	0.0000006200	-.0000033186	-.0000003575	-.0000000458	0.0000001343
PCB_172	-.0000000632	-.0000024199	-.0000000552	-.0000000081	0.0000000023
PCB_174	-.0000007045	-.0000125075	-.0000001930	-.0000000284	-.0000000416
PCB_175	-.0000000264	-.0000006444	-.0000000108	-.0000000017	-.0000000010
PCB_176	-.0000000994	-.0000018790	-.0000000242	-.0000000039	-.0000000061
PCB_177	-.0000004435	-.0000086457	-.0000001189	-.0000000184	-.0000000264
PCB_178	-.0000003232	-.0000046233	-.0000000441	-.0000000073	-.0000000246
PCB_179	-.0000004757	-.0000068723	-.0000000659	-.0000000106	-.0000000361
PCB_181	0.0000000303	0.0000000808	-.0000000057	-.0000000007	0.0000000044
PCB_182	0.0000000021	-.0000000442	-.0000000019	-.0000000003	0.0000000006
PCB_184	-.0000000009	-.0000000193	-.0000000003	-.0000000000	-.0000000000
PCB_186	-.0000000005	-.0000000091	-.0000000002	-.0000000000	-.0000000000
PCB_187	-.0000031587	-.0000525167	-.0000005070	-.0000000845	-.0000002548
PCB_188	-.0000000015	-.0000000246	-.0000000003	-.0000000000	-.0000000001
PCB_189	0.0000000445	-.0000000409	-.0000000125	-.0000000017	0.0000000066
PCB_190	-.0000000513	-.0000013382	-.0000000496	-.0000000069	0.0000000016
PCB_191	0.0000000071	-.0000003544	-.0000000131	-.0000000018	0.0000000029
PCB_192	-.0000000011	-.0000000144	-.0000000002	-.0000000000	-.0000000001
PCB_194	-.0000000916	-.0000027774	-.0000000667	-.0000000095	-.0000000002

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_136	-.0000001085	0.0000000067	-.0000000032	-.0000002185	-.0000000616
PCB_137	0.0000006523	0.0000000373	0.0000000275	0.0000015669	0.0000004002
PCB_141	0.0000002391	0.0000000597	0.0000000363	0.0000013526	0.0000004386
PCB_142	-.0000000010	0.0000000001	0.0000000000	-.0000000013	-.0000000002
PCB_144	0.0000001233	0.0000000301	0.0000000086	0.0000003172	0.0000000796
PCB_145	0.0000000012	0.0000000001	0.0000000000	0.0000000029	0.0000000007
PCB_146	0.0000005122	0.0000000946	0.0000000389	0.0000013137	0.0000003068
PCB_148	0.0000000018	0.0000000003	0.0000000000	-.0000000003	-.0000000011
PCB_150	0.0000000006	0.0000000000	-.0000000000	-.0000000008	-.0000000009
PCB_152	0.0000000005	-.0000000001	-.0000000000	-.0000000006	-.0000000005
PCB_154	0.0000000290	0.0000000033	0.0000000006	0.0000000280	-.0000000010
PCB_155	-.0000000006	0.0000000000	0.0000000000	-.0000000009	-.0000000002
PCB_158	0.0000007705	0.0000000457	0.0000000370	0.0000020072	0.0000005306
PCB_159	0.0000000032	0.0000000008	0.0000000001	0.0000000063	0.0000000012
PCB_160	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_161	-.0000000007	0.0000000001	0.0000000000	-.0000000010	-.0000000002
PCB_162	0.0000000002	0.0000000017	0.0000000013	0.0000000042	0.0000000002
PCB_164	0.0000002736	0.0000000452	0.0000000168	0.0000007327	0.0000001876
PCB_165	-.0000000040	-.0000000006	-.0000000001	-.0000000140	-.0000000047
PCB_167	0.0000003359	0.0000000206	0.0000000163	0.0000009229	0.0000002501
PCB_169	-.0000000019	0.0000000002	0.0000000000	-.0000000026	-.0000000005
PCB_170	0.0000004048	0.0000000800	0.0000000388	0.0000014659	0.0000004446
PCB_172	0.0000000023	0.0000000222	0.0000000064	0.0000000960	0.0000000332
PCB_174	-.0000003366	0.0000000742	0.0000000135	-.0000003497	-.0000000421
PCB_175	-.0000000057	0.0000000052	0.0000000013	0.0000000062	0.0000000032
PCB_176	-.0000000338	0.0000000132	0.0000000028	-.0000000270	-.0000000029
PCB_177	-.0000001607	0.0000000593	0.0000000121	-.0000001122	-.0000000072
PCB_178	-.0000001496	0.0000000252	0.0000000037	-.0000002086	-.0000000431
PCB_179	-.0000002292	0.0000000360	0.0000000044	-.0000003384	-.0000000710
PCB_181	0.0000000206	0.0000000016	0.0000000009	0.0000000520	0.0000000135
PCB_182	0.0000000019	0.0000000006	0.0000000002	0.0000000075	0.0000000022
PCB_184	-.0000000003	0.0000000001	0.0000000000	-.0000000001	0.0000000000
PCB_186	-.0000000003	0.0000000001	0.0000000000	-.0000000003	-.0000000000
PCB_187	-.0000012080	0.0000003217	0.0000000472	-.0000015962	-.0000003442
PCB_188	-.0000000007	0.0000000001	0.0000000000	-.0000000008	-.0000000002
PCB_189	0.0000000350	0.0000000042	0.0000000019	0.0000000910	0.0000000241
PCB_190	-.0000000338	0.0000000100	0.0000000039	0.0000000177	0.0000000214
PCB_191	0.0000000121	0.0000000046	0.0000000017	0.0000000462	0.0000000138
PCB_192	-.0000000006	0.0000000001	0.0000000000	-.0000000009	-.0000000002
PCB_194	-.0000000279	0.0000000219	0.0000000061	0.0000000587	0.0000000301

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_136	-.0000000678	0.0000000169	0.0000002400	-.0000004759	-.0000001526
PCB_137	0.0000000688	0.0000000895	-.0000004759	0.0000027194	0.0000021692
PCB_141	0.0000061638	0.0000000742	-.0000001526	0.0000021692	0.0000067254
PCB_142	0.0000000086	0.0000000001	0.0000000011	-.0000000026	0.0000000070
PCB_144	-.0000003896	0.0000000444	0.0000000357	0.0000004725	0.0000012324
PCB_145	-.0000000009	0.0000000001	-.0000000001	0.0000000044	0.0000000034
PCB_146	-.0000000035	0.0000003380	-.0000000275	0.0000021456	0.0000045606
PCB_148	-.0000000469	0.0000000028	0.0000000032	-.0000000010	-.0000000185
PCB_150	-.0000000209	0.0000000018	0.0000000028	-.0000000021	-.0000000204
PCB_152	-.0000000102	0.0000000004	0.0000000010	-.0000000005	-.0000000186
PCB_154	-.0000004726	0.0000000208	0.0000000173	0.0000000407	-.0000001253
PCB_155	0.0000000044	0.0000000002	0.0000000007	-.0000000016	0.0000000026
PCB_158	0.0000009569	0.0000001209	-.0000005199	0.0000034394	0.0000033274
PCB_159	-.0000000197	0.0000000005	0.0000000010	0.0000000081	0.0000000138
PCB_160	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_161	0.0000000062	0.0000000000	0.0000000007	-.0000000019	0.0000000049
PCB_162	0.0000000328	0.0000000172	0.0000000229	0.0000000166	0.0000000936
PCB_164	-.0000001210	0.0000000852	-.0000000381	0.0000011487	0.0000021736
PCB_165	-.0000000331	0.0000000043	0.0000000040	-.0000000214	-.0000000434
PCB_167	0.0000008302	0.0000000389	-.0000002776	0.0000015606	0.0000017928
PCB_169	0.0000000143	0.0000000002	0.0000000026	-.0000000054	0.0000000161
PCB_170	0.0000035698	0.0000000701	-.0000002436	0.0000024295	0.0000064657
PCB_172	0.0000005842	0.0000000337	0.0000000630	0.0000001294	0.0000013780
PCB_174	0.0000032214	0.0000000761	0.0000005333	-.0000007796	0.0000049182
PCB_175	0.0000001218	0.0000000084	0.0000000236	0.0000000013	0.0000002997
PCB_176	0.0000003337	0.0000000223	0.0000000850	-.0000000732	0.0000007414
PCB_177	0.0000016939	0.0000000925	0.0000003723	-.0000003343	0.0000034584
PCB_178	0.0000011568	0.0000000467	0.0000002327	-.0000004229	0.0000015523
PCB_179	0.0000016062	0.0000000560	0.0000003533	-.0000006768	0.0000021496
PCB_181	0.0000000066	0.0000000029	-.0000000138	0.0000000874	0.0000000929
PCB_182	0.0000000188	0.0000000008	0.0000000002	0.0000000115	0.0000000389
PCB_184	0.0000000049	0.0000000002	0.0000000008	-.0000000005	0.0000000074
PCB_186	0.0000000041	0.0000000001	0.0000000004	-.0000000005	0.0000000041
PCB_187	0.0000085059	0.0000005486	0.0000023193	-.0000035969	0.0000172092
PCB_188	0.0000000074	0.0000000003	0.0000000012	-.0000000018	0.0000000084
PCB_189	-.0000000060	0.0000000065	-.0000000200	0.0000001503	0.0000002421
PCB_190	0.0000006632	-.0000000014	0.0000000348	0.0000000269	0.0000010150
PCB_191	0.0000000934	0.0000000067	0.0000000023	0.0000000730	0.0000002931
PCB_192	0.0000000057	0.0000000001	0.0000000007	-.0000000017	0.0000000049
PCB_194	0.0000007831	0.0000000221	0.0000000755	0.0000000562	0.0000015504

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_136	0.0000000011	0.0000000357	-.0000000001	-.0000000275	0.0000000032
PCB_137	-.0000000026	0.0000004725	0.0000000044	0.0000021456	-.0000000010
PCB_141	0.0000000070	0.0000012324	0.0000000034	0.0000045606	-.0000000185
PCB_142	0.0000000000	0.0000000014	-.0000000000	0.0000000046	-.0000000000
PCB_144	0.0000000014	0.0000003675	0.0000000011	0.0000011962	-.0000000000
PCB_145	-.0000000000	0.0000000011	0.0000000000	0.0000000032	0.0000000000
PCB_146	0.0000000046	0.0000011962	0.0000000032	0.0000053216	0.0000000082
PCB_148	-.0000000000	-.0000000000	0.0000000000	0.0000000082	0.0000000003
PCB_150	-.0000000000	-.0000000027	0.0000000000	-.0000000020	0.0000000002
PCB_152	-.0000000000	-.0000000033	0.0000000000	-.0000000090	0.0000000001
PCB_154	-.0000000003	0.0000000113	0.0000000001	0.0000000801	0.0000000022
PCB_155	0.0000000000	0.0000000005	-.0000000000	0.0000000024	0.0000000000
PCB_158	-.0000000025	0.0000007032	0.0000000058	0.0000030053	-.0000000020
PCB_159	0.0000000000	0.0000000056	0.0000000000	0.0000000165	0.0000000000
PCB_160	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_161	0.0000000000	0.0000000010	-.0000000000	0.0000000032	-.0000000000
PCB_162	0.0000000002	0.0000000340	0.0000000000	0.0000001685	0.0000000010
PCB_164	0.0000000015	0.0000005742	0.0000000022	0.0000020741	-.0000000003
PCB_165	-.0000000000	-.0000000082	-.0000000001	-.0000000048	0.0000000004
PCB_167	-.0000000007	0.0000003332	0.0000000024	0.0000014156	-.0000000037
PCB_169	0.0000000000	0.0000000037	-.0000000000	0.0000000115	-.0000000000
PCB_170	0.0000000063	0.0000013588	0.0000000039	0.0000047228	-.0000000170
PCB_172	0.0000000026	0.0000003309	0.0000000002	0.0000011476	-.0000000022
PCB_174	0.0000000123	0.0000011684	-.0000000009	0.0000037111	-.0000000106
PCB_175	0.0000000006	0.0000000752	0.0000000000	0.0000002567	-.0000000004
PCB_176	0.0000000018	0.0000001918	-.0000000000	0.0000006426	-.0000000007
PCB_177	0.0000000083	0.0000008679	-.0000000002	0.0000028961	-.0000000044
PCB_178	0.0000000045	0.0000003751	-.0000000006	0.0000013000	-.0000000019
PCB_179	0.0000000065	0.0000005305	-.0000000008	0.0000017561	-.0000000029
PCB_181	-.0000000000	0.0000000206	0.0000000001	0.0000000837	-.0000000001
PCB_182	0.0000000000	0.0000000088	0.0000000000	0.0000000311	-.0000000001
PCB_184	0.0000000000	0.0000000018	0.0000000000	0.0000000064	-.0000000000
PCB_186	0.0000000000	0.0000000009	-.0000000000	0.0000000031	-.0000000000
PCB_187	0.0000000475	0.0000043843	-.0000000046	0.0000150403	-.0000000178
PCB_188	0.0000000000	0.0000000019	-.0000000000	0.0000000072	-.0000000000
PCB_189	0.0000000001	0.0000000583	0.0000000002	0.0000002125	-.0000000003
PCB_190	0.0000000019	0.0000002231	-.0000000000	0.0000006485	-.0000000034
PCB_191	0.0000000004	0.0000000702	0.0000000001	0.0000002429	-.0000000005
PCB_192	0.0000000000	0.0000000010	-.0000000000	0.0000000035	-.0000000000
PCB_194	0.0000000030	0.0000003588	0.0000000001	0.0000011663	-.0000000036

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_136	0.0000000028	0.0000000010	0.0000000173	0.0000000007	-.0000005199
PCB_137	-.0000000021	-.0000000005	0.0000000407	-.0000000016	0.0000034394
PCB_141	-.0000000204	-.0000000186	-.0000001253	0.0000000026	0.0000033274
PCB_142	-.0000000000	-.0000000000	-.0000000003	0.0000000000	-.0000000025
PCB_144	-.0000000027	-.0000000033	0.0000000113	0.0000000005	0.0000007032
PCB_145	0.0000000000	0.0000000000	0.0000000001	-.0000000000	0.0000000058
PCB_146	-.0000000020	-.0000000090	0.0000000801	0.0000000024	0.0000030053
PCB_148	0.0000000002	0.0000000001	0.0000000022	0.0000000000	-.0000000020
PCB_150	0.0000000002	0.0000000001	0.0000000016	-.0000000000	-.0000000034
PCB_152	0.0000000001	0.0000000001	0.0000000008	-.0000000000	-.0000000019
PCB_154	0.0000000016	0.0000000008	0.0000000187	-.0000000001	0.0000000465
PCB_155	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000017
PCB_158	-.0000000034	-.0000000019	0.0000000465	-.0000000017	0.0000045085
PCB_159	-.0000000000	-.0000000000	0.0000000003	0.0000000000	0.0000000100
PCB_160	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_161	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000019
PCB_162	0.0000000005	0.0000000001	0.0000000071	0.0000000002	0.0000000398
PCB_164	-.0000000037	-.0000000047	0.0000000199	0.0000000005	0.0000016183
PCB_165	0.0000000003	0.0000000002	0.0000000025	0.0000000000	-.0000000281
PCB_167	-.0000000039	-.0000000028	-.0000000019	-.0000000007	0.0000020505
PCB_169	-.0000000001	-.0000000001	-.0000000005	0.0000000000	-.0000000050
PCB_170	-.0000000221	-.0000000188	-.0000000974	0.0000000020	0.0000035319
PCB_172	-.0000000044	-.0000000048	-.0000000190	0.0000000011	0.0000002791
PCB_174	-.0000000182	-.0000000199	-.0000001148	0.0000000056	-.0000004715
PCB_175	-.0000000009	-.0000000011	-.0000000039	0.0000000003	0.0000000294
PCB_176	-.0000000022	-.0000000027	-.0000000097	0.0000000008	-.0000000157
PCB_177	-.0000000107	-.0000000130	-.0000000531	0.0000000038	-.0000000649
PCB_178	-.0000000047	-.0000000062	-.0000000321	0.0000000022	-.0000003663
PCB_179	-.0000000068	-.0000000087	-.0000000479	0.0000000032	-.0000006152
PCB_181	-.0000000002	-.0000000001	0.0000000008	-.0000000000	0.0000001135
PCB_182	-.0000000001	-.0000000001	-.0000000004	0.0000000000	0.0000000175
PCB_184	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000000
PCB_186	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000003
PCB_187	-.0000000525	-.0000000697	-.0000002931	0.0000000227	-.0000028368
PCB_188	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000015
PCB_189	-.0000000006	-.0000000006	0.0000000004	-.0000000000	0.0000002039
PCB_190	-.0000000046	-.0000000041	-.0000000267	0.0000000007	0.0000001435
PCB_191	-.0000000009	-.0000000009	-.0000000029	0.0000000002	0.0000001156
PCB_192	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000016
PCB_194	-.0000000058	-.0000000060	-.0000000304	0.0000000013	0.0000002179

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_136	0.0000000010	0.0000000007	0.0000000007	0.0000000229	-.0000000381
PCB_137	0.0000000081	-.0000000019	-.0000000019	0.0000000166	0.0000011487
PCB_141	0.0000000138	0.0000000049	0.0000000049	0.0000000936	0.0000021736
PCB_142	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000015
PCB_144	0.0000000056	0.0000000010	0.0000000010	0.0000000340	0.0000005742
PCB_145	0.0000000000	-.0000000000	-.0000000000	0.0000000000	0.0000000022
PCB_146	0.0000000165	0.0000000032	0.0000000032	0.0000001685	0.0000020741
PCB_148	0.0000000000	-.0000000000	-.0000000000	0.0000000010	-.0000000003
PCB_150	-.0000000000	-.0000000000	-.0000000000	0.0000000005	-.0000000037
PCB_152	-.0000000000	-.0000000000	-.0000000000	0.0000000001	-.0000000047
PCB_154	0.0000000003	-.0000000002	-.0000000002	0.0000000071	0.0000000199
PCB_155	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000005
PCB_158	0.0000000100	-.0000000019	-.0000000019	0.0000000398	0.0000016183
PCB_159	0.0000000001	0.0000000000	0.0000000000	0.0000000002	0.0000000085
PCB_160	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_161	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000010
PCB_162	0.0000000002	0.0000000002	0.0000000002	0.0000000125	0.0000000492
PCB_164	0.0000000085	0.0000000010	0.0000000010	0.0000000492	0.0000009955
PCB_165	-.0000000002	-.0000000000	-.0000000000	0.0000000013	-.0000000136
PCB_167	0.0000000046	-.0000000005	-.0000000005	0.0000000051	0.0000007671
PCB_169	0.0000000001	0.0000000000	0.0000000000	0.0000000005	0.0000000041
PCB_170	0.0000000172	0.0000000044	0.0000000044	0.0000000924	0.0000023133
PCB_172	0.0000000043	0.0000000018	0.0000000018	0.0000000372	0.0000004741
PCB_174	0.0000000146	0.0000000087	0.0000000087	0.0000001486	0.0000014443
PCB_175	0.0000000010	0.0000000005	0.0000000005	0.0000000095	0.0000001022
PCB_176	0.0000000025	0.0000000013	0.0000000013	0.0000000272	0.0000002457
PCB_177	0.0000000112	0.0000000059	0.0000000059	0.0000001159	0.0000011199
PCB_178	0.0000000048	0.0000000032	0.0000000032	0.0000000601	0.0000004394
PCB_179	0.0000000069	0.0000000046	0.0000000046	0.0000000845	0.0000005996
PCB_181	0.0000000003	-.0000000000	-.0000000000	0.0000000007	0.0000000447
PCB_182	0.0000000001	0.0000000000	0.0000000000	0.0000000008	0.0000000142
PCB_184	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000023
PCB_186	0.0000000000	0.0000000000	0.0000000000	0.0000000001	0.0000000011
PCB_187	0.0000000597	0.0000000336	0.0000000336	0.0000006241	0.0000053372
PCB_188	0.0000000000	0.0000000000	0.0000000000	0.0000000003	0.0000000024
PCB_189	0.0000000008	0.0000000001	0.0000000001	0.0000000031	0.0000001072
PCB_190	0.0000000021	0.0000000013	0.0000000013	0.0000000215	0.0000003040
PCB_191	0.0000000009	0.0000000003	0.0000000003	0.0000000067	0.0000001087
PCB_192	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000011
PCB_194	0.0000000043	0.0000000021	0.0000000021	0.0000000362	0.0000004999

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_136	0.0000000040	-.0000002776	0.0000000026	-.0000002436	0.0000000630
PCB_137	-.0000000214	0.0000015606	-.0000000054	0.0000024295	0.0000001294
PCB_141	-.0000000434	0.0000017928	0.0000000161	0.0000064657	0.0000013780
PCB_142	-.0000000000	-.0000000007	0.0000000000	0.0000000063	0.0000000026
PCB_144	-.0000000082	0.0000003332	0.0000000037	0.0000013588	0.0000003309
PCB_145	-.0000000001	0.0000000024	-.0000000000	0.0000000039	0.0000000002
PCB_146	-.0000000048	0.0000014156	0.0000000115	0.0000047228	0.0000011476
PCB_148	0.0000000004	-.0000000037	-.0000000000	-.0000000170	-.0000000022
PCB_150	0.0000000003	-.0000000039	-.0000000001	-.0000000221	-.0000000044
PCB_152	0.0000000002	-.0000000028	-.0000000001	-.0000000188	-.0000000048
PCB_154	0.0000000025	-.0000000019	-.0000000005	-.0000000974	-.0000000190
PCB_155	0.0000000000	-.0000000007	0.0000000000	0.0000000020	0.0000000011
PCB_158	-.0000000281	0.0000020505	-.0000000050	0.0000035319	0.0000002791
PCB_159	-.0000000002	0.0000000046	0.0000000001	0.0000000172	0.0000000043
PCB_160	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_161	-.0000000000	-.0000000005	0.0000000000	0.0000000044	0.0000000018
PCB_162	0.0000000013	0.0000000051	0.0000000005	0.0000000924	0.0000000372
PCB_164	-.0000000136	0.0000007671	0.0000000041	0.0000023133	0.0000004741
PCB_165	0.0000000011	-.0000000155	-.0000000001	-.0000000490	-.0000000066
PCB_167	-.0000000155	0.0000009861	-.0000000015	0.0000018470	0.0000001785
PCB_169	-.0000000001	-.0000000015	0.0000000001	0.0000000152	0.0000000061
PCB_170	-.0000000490	0.0000018470	0.0000000152	0.0000066445	0.0000014083
PCB_172	-.0000000066	0.0000001785	0.0000000061	0.0000014083	0.0000004152
PCB_174	-.0000000216	0.0000000020	0.0000000288	0.0000048596	0.0000017031
PCB_175	-.0000000012	0.0000000236	0.0000000015	0.0000003050	0.0000000978
PCB_176	-.0000000025	0.0000000157	0.0000000043	0.0000007468	0.0000002607
PCB_177	-.0000000125	0.0000000969	0.0000000195	0.0000034516	0.0000011893
PCB_178	-.0000000031	-.0000001024	0.0000000104	0.0000014864	0.0000005876
PCB_179	-.0000000053	-.0000001935	0.0000000151	0.0000020685	0.0000008360
PCB_181	-.0000000008	0.0000000532	-.0000000001	0.0000001007	0.0000000105
PCB_182	-.0000000003	0.0000000092	0.0000000001	0.0000000395	0.0000000096
PCB_184	-.0000000000	0.0000000003	0.0000000000	0.0000000071	0.0000000025
PCB_186	-.0000000000	0.0000000000	0.0000000000	0.0000000039	0.0000000014
PCB_187	-.0000000428	-.0000005546	0.0000001107	0.0000169659	0.0000064453
PCB_188	-.0000000000	-.0000000003	0.0000000001	0.0000000079	0.0000000031
PCB_189	-.0000000018	0.0000000995	0.0000000003	0.0000002626	0.0000000456
PCB_190	-.0000000068	0.0000001093	0.0000000044	0.0000010361	0.0000002939
PCB_191	-.0000000017	0.0000000622	0.0000000010	0.0000003054	0.0000000780
PCB_192	-.0000000000	-.0000000005	0.0000000000	0.0000000045	0.0000000018
PCB_194	-.0000000083	0.0000001687	0.0000000070	0.0000015680	0.0000004660

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_136	0.0000005333	0.0000000236	0.0000000850	0.0000003723	0.0000002327
PCB_137	-.0000007796	0.0000000013	-.0000000732	-.0000003343	-.0000004229
PCB_141	0.0000049182	0.0000002997	0.0000007414	0.0000034584	0.0000015523
PCB_142	0.0000000123	0.0000000006	0.0000000018	0.0000000083	0.0000000045
PCB_144	0.0000011684	0.0000000752	0.0000001918	0.0000008679	0.0000003751
PCB_145	-.0000000009	0.0000000000	-.0000000000	-.0000000002	-.0000000006
PCB_146	0.0000037111	0.0000002567	0.0000006426	0.0000028961	0.0000013000
PCB_148	-.0000000106	-.0000000004	-.0000000007	-.0000000044	-.0000000019
PCB_150	-.0000000182	-.0000000009	-.0000000022	-.0000000107	-.0000000047
PCB_152	-.0000000199	-.0000000011	-.0000000027	-.0000000130	-.0000000062
PCB_154	-.0000001148	-.0000000039	-.0000000097	-.0000000531	-.0000000321
PCB_155	0.0000000056	0.0000000003	0.0000000008	0.0000000038	0.0000000022
PCB_158	-.0000004715	0.0000000294	-.0000000157	-.0000000649	-.0000003663
PCB_159	0.0000000146	0.0000000010	0.0000000025	0.0000000112	0.0000000048
PCB_160	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_161	0.0000000087	0.0000000005	0.0000000013	0.0000000059	0.0000000032
PCB_162	0.0000001486	0.0000000095	0.0000000272	0.0000001159	0.0000000601
PCB_164	0.0000014443	0.0000001022	0.0000002457	0.0000011199	0.0000004394
PCB_165	-.0000000216	-.0000000012	-.0000000025	-.0000000125	-.0000000031
PCB_167	0.0000000020	0.0000000236	0.0000000157	0.0000000969	-.0000001024
PCB_169	0.0000000288	0.0000000015	0.0000000043	0.0000000195	0.0000000104
PCB_170	0.0000048596	0.0000003050	0.0000007468	0.0000034516	0.0000014864
PCB_172	0.0000017031	0.0000000978	0.0000002607	0.0000011893	0.0000005876
PCB_174	0.0000076792	0.0000004158	0.0000011481	0.0000052380	0.0000027205
PCB_175	0.0000004158	0.0000000235	0.0000000637	0.0000002895	0.0000001461
PCB_176	0.0000011481	0.0000000637	0.0000001755	0.0000007959	0.0000004098
PCB_177	0.0000052380	0.0000002895	0.0000007959	0.0000036216	0.0000018629
PCB_178	0.0000027205	0.0000001461	0.0000004098	0.0000018629	0.0000009950
PCB_179	0.0000039169	0.0000002088	0.0000005884	0.0000026728	0.0000014307
PCB_181	0.0000000019	0.0000000015	0.0000000016	0.0000000078	-.0000000048
PCB_182	0.0000000354	0.0000000022	0.0000000055	0.0000000252	0.0000000116
PCB_184	0.0000000110	0.0000000006	0.0000000017	0.0000000076	0.0000000040
PCB_186	0.0000000061	0.0000000003	0.0000000009	0.0000000042	0.0000000022
PCB_187	0.0000291946	0.0000015899	0.0000044210	0.0000201176	0.0000105922
PCB_188	0.0000000141	0.0000000008	0.0000000021	0.0000000097	0.0000000052
PCB_189	0.0000001175	0.0000000091	0.0000000200	0.0000000928	0.0000000299
PCB_190	0.0000012459	0.0000000690	0.0000001840	0.0000008441	0.0000004120
PCB_191	0.0000002957	0.0000000178	0.0000000459	0.0000002098	0.0000000976
PCB_192	0.0000000087	0.0000000005	0.0000000013	0.0000000058	0.0000000032
PCB_194	0.0000019582	0.0000001100	0.0000002943	0.0000013493	0.0000006685

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_136	0.0000003533	-.0000000138	0.0000000002	0.0000000008	0.0000000004
PCB_137	-.0000006768	0.0000000874	0.0000000115	-.0000000005	-.0000000005
PCB_141	0.0000021496	0.0000000929	0.0000000389	0.0000000074	0.0000000041
PCB_142	0.0000000065	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_144	0.0000005305	0.0000000206	0.0000000088	0.0000000018	0.0000000009
PCB_145	-.0000000008	0.0000000001	0.0000000000	0.0000000000	-.0000000000
PCB_146	0.0000017561	0.0000000837	0.0000000311	0.0000000064	0.0000000031
PCB_148	-.0000000029	-.0000000001	-.0000000001	-.0000000000	-.0000000000
PCB_150	-.0000000068	-.0000000002	-.0000000001	-.0000000000	-.0000000000
PCB_152	-.0000000087	-.0000000001	-.0000000001	-.0000000000	-.0000000000
PCB_154	-.0000000479	0.0000000008	-.0000000004	-.0000000001	-.0000000001
PCB_155	0.0000000032	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_158	-.0000006152	0.0000001135	0.0000000175	-.0000000000	-.0000000003
PCB_159	0.0000000069	0.0000000003	0.0000000001	0.0000000000	0.0000000000
PCB_160	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_161	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_162	0.0000000845	0.0000000007	0.0000000008	0.0000000002	0.0000000001
PCB_164	0.0000005996	0.0000000447	0.0000000142	0.0000000023	0.0000000011
PCB_165	-.0000000053	-.0000000008	-.0000000003	-.0000000000	-.0000000000
PCB_167	-.0000001935	0.0000000532	0.0000000092	0.0000000003	0.0000000000
PCB_169	0.0000000151	-.0000000001	0.0000000001	0.0000000000	0.0000000000
PCB_170	0.0000020685	0.0000001007	0.0000000395	0.0000000071	0.0000000039
PCB_172	0.0000008360	0.0000000105	0.0000000096	0.0000000025	0.0000000014
PCB_174	0.0000039169	0.0000000019	0.0000000354	0.0000000110	0.0000000061
PCB_175	0.0000002088	0.0000000015	0.0000000022	0.0000000006	0.0000000003
PCB_176	0.0000005884	0.0000000016	0.0000000055	0.0000000017	0.0000000009
PCB_177	0.0000026728	0.0000000078	0.0000000252	0.0000000076	0.0000000042
PCB_178	0.0000014307	-.0000000048	0.0000000116	0.0000000040	0.0000000022
PCB_179	0.0000020637	-.0000000092	0.0000000163	0.0000000057	0.0000000032
PCB_181	-.0000000092	0.0000000030	0.0000000005	0.0000000000	0.0000000000
PCB_182	0.0000000163	0.0000000005	0.0000000003	0.0000000001	0.0000000000
PCB_184	0.0000000057	0.0000000000	0.0000000001	0.0000000000	0.0000000000
PCB_186	0.0000000032	0.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_187	0.0000152062	-.0000000162	0.0000001303	0.0000000428	0.0000000234
PCB_188	0.0000000074	-.0000000000	0.0000000001	0.0000000000	0.0000000000
PCB_189	0.0000000387	0.0000000056	0.0000000015	0.0000000002	0.0000000001
PCB_190	0.0000005922	0.0000000058	0.0000000066	0.0000000017	0.0000000010
PCB_191	0.0000001377	0.0000000036	0.0000000020	0.0000000004	0.0000000002
PCB_192	0.0000000046	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_194	0.0000009547	0.0000000095	0.0000000105	0.0000000028	0.0000000015

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_136	0.0000023193	0.0000000012	-.0000000200	0.0000000348	0.0000000023
PCB_137	-.0000035969	-.0000000018	0.0000001503	0.0000000269	0.0000000730
PCB_141	0.0000172092	0.0000000084	0.0000002421	0.0000010150	0.0000002931
PCB_142	0.0000000475	0.0000000000	0.0000000001	0.0000000019	0.0000000004
PCB_144	0.0000043843	0.0000000019	0.0000000583	0.0000002231	0.0000000702
PCB_145	-.0000000046	-.0000000000	0.0000000002	-.0000000000	0.0000000001
PCB_146	0.0000150403	0.0000000072	0.0000002125	0.0000006485	0.0000002429
PCB_148	-.0000000178	-.0000000000	-.0000000003	-.0000000034	-.0000000005
PCB_150	-.0000000525	-.0000000000	-.0000000006	-.0000000046	-.0000000009
PCB_152	-.0000000697	-.0000000000	-.0000000006	-.0000000041	-.0000000009
PCB_154	-.0000002931	-.0000000002	0.0000000004	-.0000000267	-.0000000029
PCB_155	0.0000000227	0.0000000000	-.0000000000	0.0000000007	0.0000000002
PCB_158	-.0000028368	-.0000000015	0.0000002039	0.0000001435	0.0000001156
PCB_159	0.0000000597	0.0000000000	0.0000000008	0.0000000021	0.0000000009
PCB_160	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_161	0.0000000336	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_162	0.0000006241	0.0000000003	0.0000000031	0.0000000215	0.0000000067
PCB_164	0.0000053372	0.0000000024	0.0000001072	0.0000003040	0.0000001087
PCB_165	-.0000000428	-.0000000000	-.0000000018	-.0000000068	-.0000000017
PCB_167	-.0000005546	-.0000000003	0.0000000995	0.0000001093	0.0000000622
PCB_169	0.0000001107	0.0000000001	0.0000000003	0.0000000044	0.0000000010
PCB_170	0.0000169659	0.0000000079	0.0000002626	0.0000010361	0.0000003054
PCB_172	0.0000064453	0.0000000031	0.0000000456	0.0000002939	0.0000000780
PCB_174	0.0000291946	0.0000000141	0.0000001175	0.0000012459	0.0000002957
PCB_175	0.0000015899	0.0000000008	0.0000000091	0.0000000690	0.0000000178
PCB_176	0.0000044210	0.0000000021	0.0000000200	0.0000001840	0.0000000459
PCB_177	0.0000201176	0.0000000097	0.0000000928	0.0000008441	0.0000002098
PCB_178	0.0000105922	0.0000000052	0.0000000299	0.0000004120	0.0000000976
PCB_179	0.0000152062	0.0000000074	0.0000000387	0.0000005922	0.0000001377
PCB_181	-.0000000162	-.0000000000	0.0000000056	0.0000000058	0.0000000036
PCB_182	0.0000001303	0.0000000001	0.0000000015	0.0000000066	0.0000000020
PCB_184	0.0000000428	0.0000000000	0.0000000002	0.0000000017	0.0000000004
PCB_186	0.0000000234	0.0000000000	0.0000000001	0.0000000010	0.0000000002
PCB_187	0.0001139410	0.0000000552	0.0000003997	0.0000044656	0.0000010938
PCB_188	0.0000000552	0.0000000000	0.0000000002	0.0000000021	0.0000000005
PCB_189	0.0000003997	0.0000000002	0.0000000127	0.0000000309	0.0000000113
PCB_190	0.0000044656	0.0000000021	0.0000000309	0.0000002367	0.0000000556
PCB_191	0.0000010938	0.0000000005	0.0000000113	0.0000000556	0.0000000157
PCB_192	0.0000000335	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_194	0.0000073045	0.0000000034	0.0000000484	0.0000003449	0.0000000868

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_136	0.0000000007	0.0000000755	0.0000000592	0.0000000791	0.0000000482
PCB_137	-.0000000017	0.0000000562	-.0000000276	-.0000000794	-.0000000906
PCB_141	0.0000000049	0.0000015504	0.0000007472	0.0000009742	0.0000003469
PCB_142	0.0000000000	0.0000000030	0.0000000016	0.0000000022	0.0000000010
PCB_144	0.0000000010	0.0000003588	0.0000001836	0.0000002302	0.0000000832
PCB_145	-.0000000000	0.0000000001	-.0000000000	-.0000000001	-.0000000001
PCB_146	0.0000000035	0.0000011663	0.0000005952	0.0000007368	0.0000002765
PCB_148	-.0000000000	-.0000000036	-.0000000014	-.0000000022	-.0000000006
PCB_150	-.0000000000	-.0000000058	-.0000000026	-.0000000037	-.0000000012
PCB_152	-.0000000000	-.0000000060	-.0000000029	-.0000000039	-.0000000014
PCB_154	-.0000000002	-.0000000304	-.0000000130	-.0000000216	-.0000000082
PCB_155	0.0000000000	0.0000000013	0.0000000007	0.0000000010	0.0000000005
PCB_158	-.0000000016	0.0000002179	0.0000000394	-.0000000042	-.0000000777
PCB_159	0.0000000000	0.0000000043	0.0000000023	0.0000000028	0.0000000011
PCB_160	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_161	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_162	0.0000000002	0.0000000362	0.0000000216	0.0000000273	0.0000000124
PCB_164	0.0000000011	0.0000004999	0.0000002434	0.0000002970	0.0000000971
PCB_165	-.0000000000	-.0000000083	-.0000000035	-.0000000047	-.0000000010
PCB_167	-.0000000005	0.0000001687	0.0000000476	0.0000000408	-.0000000201
PCB_169	0.0000000000	0.0000000070	0.0000000038	0.0000000052	0.0000000023
PCB_170	0.0000000045	0.0000015680	0.0000007581	0.0000009794	0.0000003365
PCB_172	0.0000000018	0.0000004660	0.0000002443	0.0000003223	0.0000001297
PCB_174	0.0000000087	0.0000019582	0.0000010543	0.0000014158	0.0000005995
PCB_175	0.0000000005	0.0000001100	0.0000000587	0.0000000777	0.0000000321
PCB_176	0.0000000013	0.0000002943	0.0000001595	0.0000002121	0.0000000898
PCB_177	0.0000000058	0.0000013493	0.0000007274	0.0000009685	0.0000004087
PCB_178	0.0000000032	0.0000006685	0.0000003672	0.0000004945	0.0000002171
PCB_179	0.0000000046	0.0000009547	0.0000005265	0.0000007103	0.0000003127
PCB_181	-.0000000000	0.0000000095	0.0000000030	0.0000000026	-.0000000009
PCB_182	0.0000000000	0.0000000105	0.0000000053	0.0000000069	0.0000000026
PCB_184	0.0000000000	0.0000000028	0.0000000015	0.0000000020	0.0000000009
PCB_186	0.0000000000	0.0000000015	0.0000000008	0.0000000011	0.0000000005
PCB_187	0.0000000335	0.0000073045	0.0000039893	0.0000053394	0.0000023146
PCB_188	0.0000000000	0.0000000034	0.0000000019	0.0000000025	0.0000000011
PCB_189	0.0000000001	0.0000000484	0.0000000219	0.0000000263	0.0000000069
PCB_190	0.0000000013	0.0000003449	0.0000001780	0.0000002379	0.0000000927
PCB_191	0.0000000003	0.0000000868	0.0000000442	0.0000000575	0.0000000217
PCB_192	0.0000000000	0.0000000021	0.0000000011	0.0000000016	0.0000000007
PCB_194	0.0000000021	0.0000005344	0.0000002788	0.0000003701	0.0000001484

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_136	0.0000000759	0.0000001787	0.0000000007	0.0000000078	0.0000000809
PCB_137	-.0000001631	-.0000002080	-.0000000016	-.0000000050	-.0000001844
PCB_141	0.0000005177	0.0000017789	0.0000000048	0.0000000979	0.0000006910
PCB_142	0.0000000015	0.0000000043	0.0000000000	0.0000000002	0.0000000019
PCB_144	0.0000001151	0.0000004395	0.0000000010	0.0000000241	0.0000001477
PCB_145	-.0000000002	-.0000000002	-.0000000000	-.0000000000	-.0000000003
PCB_146	0.0000003808	0.0000014260	0.0000000035	0.0000000798	0.0000004893
PCB_148	-.0000000012	-.0000000032	-.0000000000	-.0000000002	-.0000000019
PCB_150	-.0000000019	-.0000000063	-.0000000000	-.0000000003	-.0000000028
PCB_152	-.0000000022	-.0000000072	-.0000000000	-.0000000004	-.0000000030
PCB_154	-.0000000154	-.0000000350	-.0000000002	-.0000000017	-.0000000226
PCB_155	0.0000000007	0.0000000020	0.0000000000	0.0000000001	0.0000000009
PCB_158	-.0000001508	-.0000000900	-.0000000016	0.0000000031	-.0000001680
PCB_159	0.0000000015	0.0000000058	0.0000000000	0.0000000003	0.0000000019
PCB_160	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_161	0.0000000011	0.0000000031	0.0000000000	0.0000000002	0.0000000014
PCB_162	0.0000000169	0.0000000530	0.0000000002	0.0000000029	0.0000000185
PCB_164	0.0000001298	0.0000005582	0.0000000012	0.0000000318	0.0000001717
PCB_165	-.0000000016	-.0000000076	-.0000000000	-.0000000004	-.0000000027
PCB_167	-.0000000417	0.0000000379	-.0000000004	0.0000000055	-.0000000343
PCB_169	0.0000000035	0.0000000101	0.0000000000	0.0000000005	0.0000000044
PCB_170	0.0000004854	0.0000017858	0.0000000044	0.0000000994	0.0000006546
PCB_172	0.0000001922	0.0000006155	0.0000000018	0.0000000326	0.0000002470
PCB_174	0.0000009068	0.0000027266	0.0000000085	0.0000001409	0.0000011509
PCB_175	0.0000000478	0.0000001495	0.0000000004	0.0000000078	0.0000000608
PCB_176	0.0000001343	0.0000004105	0.0000000013	0.0000000213	0.0000001692
PCB_177	0.0000006133	0.0000018729	0.0000000057	0.0000000973	0.0000007758
PCB_178	0.0000003301	0.0000009644	0.0000000031	0.0000000493	0.0000004151
PCB_179	0.0000004759	0.0000013853	0.0000000045	0.0000000707	0.0000005971
PCB_181	-.0000000023	0.0000000031	-.0000000000	0.0000000004	-.0000000020
PCB_182	0.0000000038	0.0000000130	0.0000000000	0.0000000007	0.0000000049
PCB_184	0.0000000013	0.0000000039	0.0000000000	0.0000000002	0.0000000017
PCB_186	0.0000000007	0.0000000022	0.0000000000	0.0000000001	0.0000000009
PCB_187	0.0000034984	0.0000104324	0.0000000329	0.0000005363	0.0000044197
PCB_188	0.0000000017	0.0000000050	0.0000000000	0.0000000003	0.0000000022
PCB_189	0.0000000085	0.0000000470	0.0000000001	0.0000000028	0.0000000127
PCB_190	0.0000001378	0.0000004416	0.0000000013	0.0000000235	0.0000001779
PCB_191	0.0000000315	0.0000001082	0.0000000003	0.0000000059	0.0000000410
PCB_192	0.0000000011	0.0000000030	0.0000000000	0.0000000002	0.0000000014
PCB_194	0.0000002214	0.0000007030	0.0000000021	0.0000000371	0.0000002855

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_136	0.0000000108	0.0000000330	0.0000000443	0.0000000026	-.0000001122
PCB_137	-.0000000236	-.0000000885	-.0000001449	-.0000000268	0.0000006845
PCB_141	0.0000000919	0.0000002352	0.0000002671	-.0000000720	0.0000005606
PCB_142	0.0000000003	0.0000000007	0.0000000010	-.0000000001	-.0000000008
PCB_144	0.0000000195	0.0000000492	0.0000000547	-.0000000115	0.0000000951
PCB_145	-.0000000000	-.0000000001	-.0000000002	-.0000000000	0.0000000014
PCB_146	0.0000000644	0.0000001588	0.0000001696	-.0000000495	0.0000002411
PCB_148	-.0000000003	-.0000000007	-.0000000010	0.0000000002	-.0000000028
PCB_150	-.0000000004	-.0000000010	-.0000000013	0.0000000002	-.0000000017
PCB_152	-.0000000004	-.0000000011	-.0000000014	0.0000000002	-.0000000000
PCB_154	-.0000000030	-.0000000090	-.0000000127	0.0000000012	-.0000000059
PCB_155	0.0000000001	0.0000000003	0.0000000005	-.0000000000	-.0000000006
PCB_158	-.0000000209	-.0000000894	-.0000001590	-.0000000406	0.0000008905
PCB_159	0.0000000003	0.0000000007	0.0000000008	-.0000000001	0.0000000019
PCB_160	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_161	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_162	0.0000000025	0.0000000064	0.0000000072	-.0000000011	-.0000000090
PCB_164	0.0000000229	0.0000000523	0.0000000492	-.0000000224	0.0000002515
PCB_165	-.0000000004	-.0000000009	-.0000000010	0.0000000004	-.0000000109
PCB_167	-.0000000041	-.0000000249	-.0000000513	-.0000000213	0.0000004058
PCB_169	0.0000000006	0.0000000017	0.0000000022	-.0000000001	-.0000000018
PCB_170	0.0000000868	0.0000002191	0.0000002465	-.0000000661	0.0000006005
PCB_172	0.0000000325	0.0000000888	0.0000001105	-.0000000129	-.0000000069
PCB_174	0.0000001512	0.0000004256	0.0000005465	-.0000000432	-.0000003196
PCB_175	0.0000000080	0.0000000221	0.0000000278	-.0000000027	-.0000000097
PCB_176	0.0000000222	0.0000000621	0.0000000790	-.0000000066	-.0000000453
PCB_177	0.0000001019	0.0000002848	0.0000003623	-.0000000309	-.0000001997
PCB_178	0.0000000545	0.0000001548	0.0000002005	-.0000000136	-.0000001743
PCB_179	0.0000000784	0.0000002233	0.0000002901	-.0000000183	-.0000002550
PCB_181	-.0000000002	-.0000000014	-.0000000029	-.0000000011	0.0000000220
PCB_182	0.0000000007	0.0000000017	0.0000000020	-.0000000004	0.0000000024
PCB_184	0.0000000002	0.0000000006	0.0000000008	-.0000000001	-.0000000004
PCB_186	0.0000000001	0.0000000003	0.0000000004	-.0000000000	-.0000000002
PCB_187	0.0000005791	0.0000016395	0.0000021135	-.0000001490	-.0000017032
PCB_188	0.0000000003	0.0000000008	0.0000000011	-.0000000001	-.0000000008
PCB_189	0.0000000017	0.0000000033	0.0000000022	-.0000000025	0.0000000349
PCB_190	0.0000000235	0.0000000642	0.0000000802	-.0000000094	0.0000000046
PCB_191	0.0000000054	0.0000000143	0.0000000171	-.0000000028	0.0000000125
PCB_192	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_194	0.0000000375	0.0000001032	0.0000001293	-.0000000144	-.0000000162

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_136	0.0000001008	-.0000009761	-.0000038734	0.0000000054	0.0000012860
PCB_137	-.0000010633	0.0000055383	0.0000299983	0.0000002033	-.0000019507
PCB_141	0.0000070145	0.0000047498	0.0000453196	0.0000001672	0.0000033537
PCB_142	0.0000000072	-.0000000053	0.0000000103	-.0000000003	0.0000000143
PCB_144	-.0000003133	0.0000007736	0.0000091175	0.0000000449	0.0000015659
PCB_145	-.0000000054	0.0000000094	0.0000000521	0.0000000005	-.0000000010
PCB_146	-.0000012766	0.0000036906	0.0000360910	0.0000001408	0.0000049560
PCB_148	-.0000000515	-.0000000094	-.0000000846	0.0000000005	0.0000000186
PCB_150	-.0000000299	-.0000000059	-.0000000977	0.0000000007	-.0000000007
PCB_152	-.0000000175	-.0000000004	-.0000000873	0.0000000004	-.0000000145
PCB_154	-.0000004611	0.0000000161	-.0000001893	0.0000000098	0.0000001092
PCB_155	0.0000000033	-.0000000034	-.0000000014	-.0000000001	0.0000000074
PCB_158	0.0000009623	0.0000070975	0.0000402731	0.0000002963	-.0000019615
PCB_159	-.0000000564	0.0000000133	0.0000001445	0.0000000007	0.0000000259
PCB_160	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_161	0.0000000052	-.0000000039	0.0000000067	-.0000000002	0.0000000101
PCB_162	0.0000001741	0.0000000033	0.0000003406	0.0000000028	0.0000002628
PCB_164	-.0000002035	0.0000021423	0.0000185297	0.0000001051	0.0000016907
PCB_165	-.0000000070	-.0000000513	-.0000003690	-.0000000015	0.0000000107
PCB_167	0.0000006165	0.0000032690	0.0000198046	0.0000001243	-.0000009138
PCB_169	0.0000000121	-.0000000119	0.0000000290	-.0000000006	0.0000000352
PCB_170	0.0000040894	0.0000048643	0.0000458497	0.0000001467	0.0000037333
PCB_172	0.0000005747	0.0000001365	0.0000068353	-.0000000051	0.0000019571
PCB_174	0.0000035882	-.0000019826	0.0000149018	-.0000001103	0.0000091407
PCB_175	0.0000001257	-.0000000305	0.0000012795	-.0000000028	0.0000005067
PCB_176	0.0000003652	-.0000002380	0.0000025639	-.0000000119	0.0000014530
PCB_177	0.0000018196	-.0000010457	0.0000122382	-.0000000526	0.0000065118
PCB_178	0.0000009858	-.0000010126	0.0000033868	-.0000000512	0.0000034335
PCB_179	0.0000013951	-.0000015911	0.0000039788	-.0000000767	0.0000049721
PCB_181	-.0000000200	0.0000001769	0.0000010811	0.0000000069	-.0000000315
PCB_182	0.0000000137	0.0000000221	0.0000002575	0.0000000007	0.0000000357
PCB_184	0.0000000013	-.0000000016	0.0000000287	-.0000000001	0.0000000136
PCB_186	0.0000000036	-.0000000012	0.0000000130	-.0000000001	0.0000000070
PCB_187	0.0000052591	-.0000094955	0.0000478219	-.0000004885	0.0000375491
PCB_188	0.0000000035	-.0000000043	0.0000000230	-.0000000003	0.0000000175
PCB_189	0.0000000038	0.0000002878	0.0000022088	0.0000000111	0.0000000874
PCB_190	0.0000013246	0.0000000048	0.0000042222	-.0000000066	0.0000012370
PCB_191	0.0000001207	0.0000001245	0.0000017975	0.0000000034	0.0000003175
PCB_192	0.0000000048	-.0000000037	0.0000000081	-.0000000002	0.0000000102
PCB_194	0.0000010813	-.0000000000	0.0000070113	-.0000000092	0.0000021685

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_136	-.0000000815	0.0000015189	-.0000021777	-.0000010628	0.0000000342
PCB_137	0.0000006405	0.0000011447	0.0000177512	0.0000057972	0.0000004992
PCB_141	0.0000004180	0.0000200427	0.0000344887	0.0000042273	0.0000020719
PCB_142	-.0000000007	0.0000000379	0.0000000215	-.0000000074	0.0000000030
PCB_144	0.0000001382	0.0000049610	0.0000076343	0.0000008227	0.0000004988
PCB_145	0.0000000012	0.0000000040	0.0000000263	0.0000000104	0.0000000008
PCB_146	0.0000005776	0.0000165957	0.0000299608	0.0000030648	0.0000017949
PCB_148	0.0000000015	-.0000000241	-.0000000469	-.0000000118	-.0000000025
PCB_150	0.0000000006	-.0000000558	-.0000000852	-.0000000088	-.0000000058
PCB_152	0.0000000003	-.0000000690	-.0000000925	-.0000000011	-.0000000062
PCB_154	0.0000000258	-.0000002045	-.0000000883	0.0000000313	-.0000000155
PCB_155	-.0000000004	0.0000000169	0.0000000061	-.0000000049	0.0000000013
PCB_158	0.0000008125	0.0000036047	0.0000245935	0.0000073679	0.0000007991
PCB_159	0.0000000026	0.0000000632	0.0000001017	0.0000000161	0.0000000063
PCB_160	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_161	-.0000000005	0.0000000267	0.0000000149	-.0000000054	0.0000000021
PCB_162	0.0000000081	0.0000005608	0.0000004783	-.0000000585	0.0000000567
PCB_164	0.0000003030	0.0000070519	0.0000140372	0.0000021969	0.0000007701
PCB_165	-.0000000036	-.0000000864	-.0000002032	-.0000000651	-.0000000103
PCB_167	0.0000003536	0.0000023397	0.0000124968	0.0000034003	0.0000004197
PCB_169	-.0000000014	0.0000000904	0.0000000546	-.0000000158	0.0000000073
PCB_170	0.0000005134	0.0000199892	0.0000355824	0.0000046916	0.0000021452
PCB_172	0.0000000284	0.0000060338	0.0000068429	-.0000000302	0.0000005635
PCB_174	-.0000002066	0.0000251490	0.0000199991	-.0000028533	0.0000021508
PCB_175	0.0000000008	0.0000014351	0.0000014186	-.0000000751	0.0000001296
PCB_176	-.0000000149	0.0000038561	0.0000032631	-.0000003749	0.0000003369
PCB_177	-.0000000729	0.0000176347	0.0000152373	-.0000016455	0.0000015324
PCB_178	-.0000001034	0.0000087093	0.0000058866	-.0000014308	0.0000007239
PCB_179	-.0000001643	0.0000124144	0.0000077698	-.0000021644	0.0000010210
PCB_181	0.0000000208	0.0000001390	0.0000006893	0.0000001869	0.0000000243
PCB_182	0.0000000026	0.0000001385	0.0000002093	0.0000000196	0.0000000139
PCB_184	-.0000000001	0.0000000366	0.0000000321	-.0000000033	0.0000000032
PCB_186	-.0000000002	0.0000000199	0.0000000157	-.0000000022	0.0000000017
PCB_187	-.0000008045	0.0000954790	0.0000722374	-.0000133056	0.0000080443
PCB_188	-.0000000005	0.0000000452	0.0000000326	-.0000000068	0.0000000038
PCB_189	0.0000000367	0.0000006476	0.0000016255	0.0000003050	0.0000000784
PCB_190	-.0000000052	0.0000042837	0.0000045054	-.0000000709	0.0000003947
PCB_191	0.0000000171	0.0000011284	0.0000015892	0.0000001068	0.0000001121
PCB_192	-.0000000005	0.0000000269	0.0000000162	-.0000000051	0.0000000022
PCB_194	0.0000000067	0.0000068346	0.0000073417	-.0000001564	0.0000006214

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_136	0.0000001547	0.0000006033	0.0000004773	0.0000000498	0.0000002257
PCB_137	-.0000013576	0.0000005175	-.0000002060	-.0000000985	-.0000003367
PCB_141	-.0000032055	0.0000154552	0.0000056111	0.0000003601	0.0000022567
PCB_142	-.0000000022	0.0000000291	0.0000000125	0.0000000010	0.0000000055
PCB_144	-.0000003986	0.0000031855	0.0000013873	0.0000000864	0.0000005008
PCB_145	-.0000000017	0.0000000003	-.0000000003	-.0000000001	-.0000000004
PCB_146	-.0000020807	0.0000104510	0.0000048337	0.0000002800	0.0000015920
PCB_148	0.0000000072	-.0000000462	-.0000000063	-.0000000007	-.0000000060
PCB_150	0.0000000057	-.0000000609	-.0000000169	-.0000000013	-.0000000086
PCB_152	0.0000000048	-.0000000571	-.0000000205	-.0000000015	-.0000000091
PCB_154	0.0000000569	-.0000004016	-.0000000741	-.0000000091	-.0000000621
PCB_155	-.0000000010	0.0000000123	0.0000000058	0.0000000005	0.0000000025
PCB_158	-.0000020686	0.0000021302	0.0000003039	-.0000000861	-.0000001999
PCB_159	-.0000000002	0.0000000343	0.0000000164	0.0000000011	0.0000000065
PCB_160	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_161	-.0000000015	0.0000000206	0.0000000088	0.0000000007	0.0000000039
PCB_162	-.0000000759	0.0000003384	0.0000001934	0.0000000126	0.0000000584
PCB_164	-.0000008862	0.0000044810	0.0000018525	0.0000000994	0.0000006270
PCB_165	0.0000000114	-.0000000885	-.0000000175	-.0000000012	-.0000000111
PCB_167	-.0000010048	0.0000016755	0.0000003273	-.0000000229	0.0000000229
PCB_169	-.0000000043	0.0000000674	0.0000000293	0.0000000024	0.0000000128
PCB_170	-.0000027917	0.0000152201	0.0000056464	0.0000003511	0.0000021852
PCB_172	-.0000004794	0.0000044073	0.0000018676	0.0000001353	0.0000007509
PCB_174	-.0000014865	0.0000187088	0.0000080361	0.0000006277	0.0000033965
PCB_175	-.0000000980	0.0000010366	0.0000004507	0.0000000335	0.0000001826
PCB_176	-.0000002310	0.0000027740	0.0000012290	0.0000000938	0.0000005030
PCB_177	-.0000010686	0.0000127335	0.0000055849	0.0000004268	0.0000023040
PCB_178	-.0000004672	0.0000063730	0.0000028444	0.0000002266	0.0000012016
PCB_179	-.0000006098	0.0000091082	0.0000040640	0.0000003267	0.0000017291
PCB_181	-.0000000486	0.0000000865	0.0000000215	-.0000000011	0.0000000013
PCB_182	-.0000000155	0.0000001004	0.0000000401	0.0000000027	0.0000000158
PCB_184	-.0000000024	0.0000000264	0.0000000117	0.0000000009	0.0000000049
PCB_186	-.0000000015	0.0000000151	0.0000000064	0.0000000005	0.0000000027
PCB_187	-.0000046658	0.0000686501	0.0000307782	0.0000024146	0.0000128673
PCB_188	-.0000000027	0.0000000330	0.0000000147	0.0000000012	0.0000000063
PCB_189	-.0000001026	0.0000004392	0.0000001621	0.0000000071	0.0000000516
PCB_190	-.0000003693	0.0000033481	0.0000013290	0.0000000978	0.0000005493
PCB_191	-.0000001106	0.0000008183	0.0000003357	0.0000000226	0.0000001301
PCB_192	-.0000000016	0.0000000205	0.0000000088	0.0000000007	0.0000000039
PCB_194	-.0000005192	0.0000050812	0.0000021082	0.0000001554	0.0000008663

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_136	0.0000004525	0.0000000476	0.0000003600	0.0000005964	0.0000008903
PCB_137	-.0000020966	-.0000001948	-.0000034364	-.0000047087	-.0000112341
PCB_141	-.0000052953	-.0000004291	-.0000067004	-.0000091445	-.0000314491
PCB_142	-.0000000030	-.0000000001	-.0000000038	-.0000000040	-.0000000288
PCB_144	-.0000004205	-.0000000024	-.0000011590	-.0000015850	-.0000061177
PCB_145	-.0000000016	-.0000000001	-.0000000056	-.0000000082	-.0000000186
PCB_146	-.0000026927	-.0000002173	-.0000049200	-.0000055306	-.0000212281
PCB_148	0.0000000202	0.0000000013	0.0000000133	0.0000000303	0.0000000872
PCB_150	0.0000000141	0.0000000005	0.0000000135	0.0000000280	0.0000001002
PCB_152	0.0000000113	0.0000000004	0.0000000119	0.0000000202	0.0000000885
PCB_154	0.0000001638	0.0000000134	0.0000000714	0.0000001606	0.0000005172
PCB_155	-.0000000012	-.0000000001	-.0000000013	-.0000000004	-.0000000094
PCB_158	-.0000032227	-.0000003020	-.0000048756	-.0000067336	-.0000170624
PCB_159	0.0000000048	0.0000000014	-.0000000131	-.0000000181	-.0000000684
PCB_160	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_161	-.0000000021	-.0000000001	-.0000000027	-.0000000028	-.0000000202
PCB_162	-.0000000570	-.0000000093	-.0000001121	-.0000000648	-.0000004046
PCB_164	-.0000011801	-.0000000672	-.0000023294	-.0000031359	-.0000107217
PCB_165	0.0000000205	-.0000000004	0.0000000411	0.0000000817	0.0000002256
PCB_167	-.0000017207	-.0000001519	-.0000023857	-.0000033718	-.0000089786
PCB_169	-.0000000050	-.0000000000	-.0000000087	-.0000000098	-.0000000687
PCB_170	-.0000043588	-.0000003003	-.0000063836	-.0000089088	-.0000309639
PCB_172	-.0000006383	-.0000000295	-.0000010965	-.0000013817	-.0000063266
PCB_174	-.0000018543	-.0000000479	-.0000031447	-.0000038449	-.0000218843
PCB_175	-.0000001187	-.0000000041	-.0000002220	-.0000002690	-.0000013611
PCB_176	-.0000002514	-.0000000056	-.0000005065	-.0000005840	-.0000033188
PCB_177	-.0000012534	-.0000000326	-.0000023543	-.0000027832	-.0000154901
PCB_178	-.0000005266	-.0000000149	-.0000009212	-.0000009314	-.0000066195
PCB_179	-.0000006342	-.0000000065	-.0000012079	-.0000012283	-.0000091688
PCB_181	-.0000000768	-.0000000062	-.0000001255	-.0000001760	-.0000004733
PCB_182	-.0000000224	-.0000000014	-.0000000366	-.0000000486	-.0000001825
PCB_184	-.0000000028	-.0000000001	-.0000000054	-.0000000058	-.0000000318
PCB_186	-.0000000020	-.0000000001	-.0000000029	-.0000000033	-.0000000177
PCB_187	-.0000050053	-.0000000138	-.0000104072	-.0000110596	-.0000747745
PCB_188	-.0000000033	-.0000000001	-.0000000055	-.0000000054	-.0000000352
PCB_189	-.0000001563	-.0000000099	-.0000002680	-.0000003782	-.0000012131
PCB_190	-.0000005474	-.0000000279	-.0000007553	-.0000010865	-.0000047927
PCB_191	-.0000001543	-.0000000083	-.0000002608	-.0000003469	-.0000013879
PCB_192	-.0000000022	-.0000000001	-.0000000028	-.0000000029	-.0000000205
PCB_194	-.0000007367	-.0000000317	-.0000011612	-.0000015435	-.0000071619

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_136	0.0000003028	0.0000008458	0.0000007509	0.0000003903	-.0000010922
PCB_137	-.0000034060	-.0000154664	-.0000069503	-.0000023034	0.0000038800
PCB_141	-.0000079204	-.0000388973	-.0000139175	-.0000039290	0.0000026895
PCB_142	-.0000000053	-.0000000317	-.0000000086	-.0000000017	-.0000000083
PCB_144	-.0000014013	-.0000074487	-.0000025570	-.0000006840	-.0000004667
PCB_145	-.0000000055	-.0000000314	-.0000000114	-.0000000036	0.0000000096
PCB_146	-.0000054198	-.0000241754	-.0000102428	-.0000026750	-.0000039098
PCB_148	0.0000000184	0.0000001195	0.0000000298	0.0000000128	-.0000000621
PCB_150	0.0000000193	0.0000001197	0.0000000328	0.0000000126	-.0000000306
PCB_152	0.0000000182	0.0000000937	0.0000000282	0.0000000085	0.0000000001
PCB_154	0.0000001018	0.0000006868	0.0000001541	0.0000000708	-.0000003904
PCB_155	-.0000000018	-.0000000093	-.0000000027	-.0000000002	-.0000000066
PCB_158	-.0000050990	-.0000231284	-.0000098389	-.0000030789	0.0000048863
PCB_159	-.0000000134	-.0000000963	-.0000000306	-.0000000098	0.0000000021
PCB_160	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_161	-.0000000037	-.0000000220	-.0000000060	-.0000000011	-.0000000060
PCB_162	-.0000001115	-.0000004265	-.0000002153	-.0000000262	-.0000003558
PCB_164	-.0000026898	-.0000133024	-.0000049482	-.0000013838	0.0000000901
PCB_165	0.0000000481	0.0000003430	0.0000000932	0.0000000362	-.0000001339
PCB_167	-.0000025832	-.0000117701	-.0000048603	-.0000015453	0.0000025092
PCB_169	-.0000000124	-.0000000764	-.0000000201	-.0000000039	-.0000000203
PCB_170	-.0000074864	-.0000380490	-.0000135846	-.0000039745	0.0000021811
PCB_172	-.0000013602	-.0000072239	-.0000024165	-.0000006194	-.0000009630
PCB_174	-.0000042628	-.0000244440	-.0000071578	-.0000016008	-.0000051416
PCB_175	-.0000002819	-.0000015332	-.0000004949	-.0000001184	-.0000002957
PCB_176	-.0000006600	-.0000036992	-.0000011414	-.0000002497	-.0000009311
PCB_177	-.0000031060	-.0000172637	-.0000053012	-.0000011767	-.0000040107
PCB_178	-.0000012469	-.0000071116	-.0000020858	-.0000003968	-.0000024237
PCB_179	-.0000016693	-.0000099347	-.0000027778	-.0000005103	-.0000033941
PCB_181	-.0000001336	-.0000006242	-.0000002585	-.0000000824	0.0000001165
PCB_182	-.0000000430	-.0000002225	-.0000000781	-.0000000218	-.0000000007
PCB_184	-.0000000065	-.0000000363	-.0000000117	-.0000000027	-.0000000079
PCB_186	-.0000000036	-.0000000204	-.0000000063	-.0000000015	-.0000000036
PCB_187	-.0000140924	-.0000801959	-.0000239088	-.0000048604	-.0000263577
PCB_188	-.0000000069	-.0000000388	-.0000000120	-.0000000025	-.0000000117
PCB_189	-.0000003082	-.0000014910	-.0000005708	-.0000001716	0.0000001029
PCB_190	-.0000010134	-.0000055255	-.0000016932	-.0000004369	-.0000003596
PCB_191	-.0000003157	-.0000016314	-.0000005676	-.0000001545	-.0000000938
PCB_192	-.0000000039	-.0000000221	-.0000000062	-.0000000012	-.0000000065
PCB_194	-.0000015163	-.0000081422	-.0000025898	-.0000006554	-.0000009575

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_136	-.0000002946	-.0000017736	0.0000006464	-.0000020399	0.0000001653
PCB_137	0.0000022125	0.0000065162	-.0000023497	0.0000045436	-.0000005395
PCB_141	0.0000010830	-.0000001367	-.0000046228	0.0000045375	-.0000018074
PCB_142	-.0000000033	-.0000000207	-.0000000018	-.0000000122	-.0000000017
PCB_144	0.0000001032	-.0000018717	-.0000005865	-.0000003779	-.0000002417
PCB_145	0.0000000043	0.0000000116	-.0000000026	0.0000000021	-.0000000002
PCB_146	0.0000010375	-.0000048558	-.0000021719	-.0000022101	-.0000009290
PCB_148	0.0000000020	-.0000000351	0.0000000256	-.0000000607	0.0000000090
PCB_150	0.0000000054	0.0000000088	0.0000000225	-.0000000419	0.0000000086
PCB_152	0.0000000070	0.0000000348	0.0000000140	-.0000000186	0.0000000066
PCB_154	0.0000000412	-.0000002170	0.0000001698	-.0000003368	0.0000000667
PCB_155	-.0000000015	-.0000000101	0.0000000002	-.0000000087	-.0000000005
PCB_158	0.0000027869	0.0000080075	-.0000032038	0.0000066688	-.0000008154
PCB_159	0.0000000034	-.0000000277	-.0000000044	-.0000000380	-.0000000010
PCB_160	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_161	-.0000000024	-.0000000147	-.0000000013	-.0000000086	-.0000000012
PCB_162	0.0000000260	-.0000002430	0.0000000210	-.0000002667	-.0000000041
PCB_164	0.0000005783	-.0000010944	-.0000012850	0.0000005498	-.0000004604
PCB_165	-.0000000122	-.0000000637	0.0000000473	-.0000000687	0.0000000130
PCB_167	0.0000011542	0.0000034244	-.0000017400	0.0000035076	-.0000004950
PCB_169	-.0000000078	-.0000000523	-.0000000037	-.0000000295	-.0000000036
PCB_170	0.0000009815	-.0000018720	-.0000045528	0.0000038567	-.0000017251
PCB_172	-.0000001910	-.0000026701	-.0000006352	-.0000008802	-.0000003312
PCB_174	-.0000017503	-.0000135395	-.0000016604	-.0000059091	-.0000011605
PCB_175	-.0000000656	-.0000007203	-.0000001128	-.0000003061	-.0000000681
PCB_176	-.0000002233	-.0000021041	-.0000002159	-.0000010462	-.0000001595
PCB_177	-.0000010513	-.0000095134	-.0000010841	-.0000044098	-.0000007680
PCB_178	-.0000006719	-.0000051144	-.0000003250	-.0000029476	-.0000003365
PCB_179	-.0000010101	-.0000074247	-.0000003997	-.0000043665	-.0000004567
PCB_181	0.0000000631	0.0000001538	-.0000000861	0.0000001505	-.0000000233
PCB_182	0.0000000034	-.0000000316	-.0000000227	-.0000000017	-.0000000093
PCB_184	-.0000000016	-.0000000180	-.0000000022	-.0000000123	-.0000000015
PCB_186	-.0000000010	-.0000000089	-.0000000015	-.0000000052	-.0000000010
PCB_187	-.0000071611	-.0000576525	-.0000039190	-.0000315294	-.0000037007
PCB_188	-.0000000029	-.0000000244	-.0000000019	-.0000000168	-.0000000018
PCB_189	0.0000000753	-.0000000001	-.0000001833	0.0000002338	-.0000000615
PCB_190	-.0000002147	-.0000017691	-.0000005635	0.0000001275	-.0000002808
PCB_191	-.0000000005	-.0000003830	-.0000001634	-.0000000246	-.0000000722
PCB_192	-.0000000023	-.0000000150	-.0000000013	-.0000000085	-.0000000012
PCB_194	-.0000003181	-.0000031300	-.0000007388	-.0000006524	-.0000003930

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_195	PCB 195	-.0000000064	0.0000000011	0.0000000010
PCB_196	PCB 196	-.0000000103	0.0000000016	0.0000000013
PCB_201	PCB 201	-.0000000052	0.0000000007	0.0000000005
PCB_202	PCB 202	-.0000000086	0.0000000011	0.0000000008
PCB_203	PCB 203	-.0000000177	0.0000000031	0.0000000026
PCB_204	PCB 204	-.0000000001	0.0000000000	0.0000000000
PCB_205	PCB 205	-.0000000009	0.0000000002	0.0000000001
PCB_206	PCB 206	-.0000000106	0.0000000014	0.0000000010
PCB_207	PCB 207	-.0000000014	0.0000000002	0.0000000001
PCB_208	PCB 208	-.0000000043	0.0000000005	0.0000000004
PCB_209	PCB 209	-.0000000061	0.0000000007	0.0000000005
PCB_12_13	PCB 12/13	0.0000000002	-.0000000000	-.0000000000
PCB_107_124	PCB 107/124	0.0000000149	-.0000000006	0.0000000000
PCB_110_115	PCB 110/115	-.0000003071	0.0000000043	-.0000000054
PCB_128_166	PCB 128/166	0.0000001021	-.0000000039	0.0000000006
PCB_129_138_163	PCB 129/138/163	0.0000005180	0.0000000072	0.0000000334
PCB_134_143	PCB 134/143	0.0000000068	-.0000000002	0.0000000001
PCB_135_151	PCB 135/151	-.0000000199	0.0000000104	0.0000000104
PCB_139_140	PCB 139/140	0.0000000181	-.0000000005	0.0000000003
PCB_147_149	PCB 147/149	-.0000000882	0.0000000269	0.0000000271
PCB_153_168	PCB 153/168	0.0000002311	0.0000000153	0.0000000302
PCB_156_157	PCB 156/157	0.0000001355	-.0000000052	0.0000000006
PCB_171_173	PCB 171/173	-.0000000039	0.0000000021	0.0000000023
PCB_18_30	PCB 18/30	0.0000000218	-.0000000014	-.0000000010
PCB_180_193	PCB 180/193	-.0000001478	0.0000000203	0.0000000169
PCB_183_185	PCB 183/185	-.0000000530	0.0000000088	0.0000000077
PCB_197_200	PCB 197/200	-.0000000055	0.0000000007	0.0000000006
PCB_198_199	PCB 198/199	-.0000000267	0.0000000039	0.0000000032
PCB_20_28	PCB 20/28	0.0000000493	-.0000000018	-.0000000007
PCB_21_33	PCB 21/33	0.0000000073	-.0000000001	0.0000000002
PCB_26_29	PCB 26/29	-.0000000162	-.0000000026	-.0000000041
PCB_40_41_71	PCB 40/41/71	-.0000000344	-.0000000027	-.0000000054
PCB_44_47_65	PCB 44/47/65	-.0000000083	-.0000000201	-.0000000256
PCB_45_51	PCB 45/51	-.0000000081	-.0000000037	-.0000000053
PCB_49_69	PCB 49/69	-.0000000924	-.0000000220	-.0000000312
PCB_50_53	PCB 50/53	-.0000000402	-.0000000058	-.0000000093
PCB_59_62_75	PCB 59/62/75	-.0000000200	-.0000000011	-.0000000023
PCB_61_70_74_76	PCB 61/70/74/76	0.0000000752	-.0000000062	-.0000000040
PCB_85_117_116	PCB 85/117/116	0.0000000428	-.0000000024	-.0000000008
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.0000000625	-.0000000153	-.0000000143

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_195	-.0000002327	0.0000000003	-.0000000228	-.0000000029	-.0000000716
PCB_196	-.0000003247	0.0000000002	-.0000000331	-.0000000043	-.0000001056
PCB_201	-.0000001347	0.0000000001	-.0000000141	-.0000000019	-.0000000500
PCB_202	-.0000002126	0.0000000000	-.0000000232	-.0000000031	-.0000000783
PCB_203	-.0000005711	0.0000000007	-.0000000560	-.0000000073	-.0000001853
PCB_204	-.0000000020	0.0000000000	-.0000000002	-.0000000000	-.0000000007
PCB_205	-.0000000306	0.0000000000	-.0000000030	-.0000000004	-.0000000097
PCB_206	-.0000002673	0.0000000001	-.0000000293	-.0000000039	-.0000000945
PCB_207	-.0000000359	0.0000000000	-.0000000039	-.0000000005	-.0000000126
PCB_208	-.0000000977	0.0000000000	-.0000000109	-.0000000015	-.0000000369
PCB_209	-.0000001204	-.0000000000	-.0000000136	-.0000000019	-.0000000502
PCB_12_13	0.0000000226	0.0000000000	0.0000000027	0.0000000003	0.0000000023
PCB_107_124	0.0000000270	0.0000000008	0.0000000088	0.0000000021	0.0000001434
PCB_110_115	-.0000072525	-.0000000367	-.0000010877	-.0000001508	-.0000030896
PCB_128_166	-.0000001627	0.0000000056	0.0000000129	0.0000000100	0.0000009561
PCB_129_138_163	-.0000052226	0.0000000498	-.0000003165	0.0000000138	0.0000042094
PCB_134_143	0.0000000039	0.0000000003	0.0000000023	0.0000000006	0.0000000399
PCB_135_151	-.0000007801	0.0000000069	-.0000000113	-.0000000034	-.0000004745
PCB_139_140	0.0000001091	0.0000000013	0.0000000224	0.0000000039	0.0000001388
PCB_147_149	-.0000056605	0.0000000107	-.0000005398	-.0000000655	-.0000013811
PCB_153_168	-.0000054433	0.0000000306	-.0000004328	-.0000000236	0.0000012347
PCB_156_157	0.0000005354	0.0000000081	0.0000001107	0.0000000234	0.0000012112
PCB_171_173	-.0000005154	0.0000000011	-.0000000460	-.0000000052	-.0000000742
PCB_18_30	0.0000013388	0.0000000025	0.0000001718	0.0000000210	0.0000002124
PCB_180_193	-.0000052204	0.0000000005	-.0000005702	-.0000000724	-.0000014326
PCB_183_185	-.0000018673	0.0000000015	-.0000001866	-.0000000243	-.0000005952
PCB_197_200	-.0000001403	0.0000000000	-.0000000147	-.0000000020	-.0000000531
PCB_198_199	-.0000007947	0.0000000005	-.0000000840	-.0000000110	-.0000002520
PCB_20_28	0.0000023860	0.0000000059	0.0000003322	0.0000000404	0.0000004446
PCB_21_33	0.0000002717	0.0000000010	0.0000000399	0.0000000050	0.0000000642
PCB_26_29	0.0000017159	-.0000000018	0.0000001865	0.0000000190	-.0000001036
PCB_40_41_71	0.0000020386	-.0000000031	0.0000002176	0.0000000208	-.0000002418
PCB_44_47_65	0.0000078248	-.0000000104	0.0000008275	0.0000000882	0.0000004168
PCB_45_51	0.0000021556	-.0000000013	0.0000002457	0.0000000264	0.0000000849
PCB_49_69	0.0000088913	-.0000000181	0.0000008876	0.0000000890	-.0000005115
PCB_50_53	0.0000032750	-.0000000055	0.0000003388	0.0000000332	-.0000002599
PCB_59_62_75	0.0000007053	-.0000000024	0.0000000655	0.0000000047	-.0000002287
PCB_61_70_74_76	0.0000002121	0.0000000017	0.0000000050	0.0000000081	0.0000012275
PCB_85_117_116	0.0000000076	0.0000000015	0.0000000127	0.0000000044	0.0000004498
PCB_86_87_97_108_119_125	-.0000004983	-.0000000099	-.0000001624	-.0000000142	0.0000012646

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_195	-.0000000059	-.0000000205	0.0000000074	0.0000000011	-.0000000010
PCB_196	-.0000000085	-.0000000287	0.0000000105	0.0000000016	-.0000000028
PCB_201	-.0000000038	-.0000000120	0.0000000047	0.0000000007	-.0000000017
PCB_202	-.0000000061	-.0000000192	0.0000000079	0.0000000011	-.0000000034
PCB_203	-.0000000147	-.0000000507	0.0000000203	0.0000000031	-.0000000032
PCB_204	-.0000000001	-.0000000002	0.0000000001	0.0000000000	-.0000000000
PCB_205	-.0000000008	-.0000000027	0.0000000010	0.0000000002	-.0000000001
PCB_206	-.0000000077	-.0000000244	0.0000000105	0.0000000014	-.0000000043
PCB_207	-.0000000010	-.0000000033	0.0000000014	0.0000000002	-.0000000006
PCB_208	-.0000000029	-.0000000089	0.0000000040	0.0000000005	-.0000000018
PCB_209	-.0000000037	-.0000000109	0.0000000051	0.0000000007	-.0000000027
PCB_12_13	0.0000000006	0.0000000023	-.0000000007	-.0000000000	0.0000000003
PCB_107_124	0.0000000046	-.0000000016	0.0000000030	-.0000000006	0.0000000054
PCB_110_115	-.0000002633	-.0000006419	0.0000000461	0.0000000052	-.0000002388
PCB_128_166	0.0000000219	-.0000000482	0.0000000283	-.0000000039	0.0000000271
PCB_129_138_163	0.0000000141	-.0000006603	0.0000003569	0.0000000067	0.0000002403
PCB_134_143	0.0000000009	-.0000000006	-.0000000002	-.0000000002	0.0000000046
PCB_135_151	-.0000000155	-.0000000514	0.0000000294	0.0000000101	0.0000000450
PCB_139_140	0.0000000069	0.0000000081	-.0000000019	-.0000000005	0.0000000108
PCB_147_149	-.0000001364	-.0000005105	0.0000001853	0.0000000267	0.0000000245
PCB_153_168	-.0000000619	-.0000005613	0.0000002139	0.0000000149	0.0000001593
PCB_156_157	0.0000000455	0.0000000193	0.0000000106	-.0000000054	0.0000000593
PCB_171_173	-.0000000103	-.0000000474	0.0000000162	0.0000000021	0.0000000013
PCB_18_30	0.0000000366	0.0000001317	-.0000000311	-.0000000015	0.0000000307
PCB_180_193	-.0000001369	-.0000004766	0.0000001648	0.0000000206	-.0000000663
PCB_183_185	-.0000000480	-.0000001644	0.0000000550	0.0000000088	-.0000000124
PCB_197_200	-.0000000039	-.0000000124	0.0000000048	0.0000000007	-.0000000019
PCB_198_199	-.0000000215	-.0000000724	0.0000000298	0.0000000039	-.0000000092
PCB_20_28	0.0000000715	0.0000002367	-.0000000577	-.0000000021	0.0000000634
PCB_21_33	0.0000000087	0.0000000268	-.0000000051	-.0000000001	0.0000000094
PCB_26_29	0.0000000339	0.0000001792	-.0000000608	-.0000000027	0.0000000103
PCB_40_41_71	0.0000000369	0.0000002137	-.0000000757	-.0000000028	-.0000000022
PCB_44_47_65	0.0000001681	0.0000007661	-.0000002583	-.0000000202	-.0000000044
PCB_45_51	0.0000000496	0.0000002155	-.0000000644	-.0000000037	0.0000000051
PCB_49_69	0.0000001641	0.0000009116	-.0000003608	-.0000000220	-.0000000291
PCB_50_53	0.0000000598	0.0000003399	-.0000001196	-.0000000060	0.0000000066
PCB_59_62_75	0.0000000074	0.0000000795	-.0000000366	-.0000000011	0.0000000014
PCB_61_70_74_76	0.0000000261	-.0000000389	0.0000000757	-.0000000060	-.0000000165
PCB_85_117_116	0.0000000114	-.0000000170	0.0000000111	-.0000000024	0.0000000022
PCB_86_87_97_108_119_125	-.0000000024	-.0000001291	0.0000000532	-.0000000147	-.0000001107

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_195	-.0000000486	-.0000007005	-.0000003566	-.0000000073	0.0000000005
PCB_196	-.0000000651	-.0000009163	-.0000004725	-.0000000142	0.0000000007
PCB_201	-.0000000210	-.0000003384	-.0000001843	-.0000000009	0.0000000004
PCB_202	-.0000000332	-.0000005146	-.0000002860	-.0000000061	0.0000000006
PCB_203	-.0000001004	-.0000016594	-.0000008582	0.0000000007	0.0000000015
PCB_204	-.0000000003	-.0000000047	-.0000000027	-.0000000001	0.0000000000
PCB_205	-.0000000062	-.0000000912	-.0000000467	-.0000000007	0.0000000001
PCB_206	-.0000000433	-.0000006651	-.0000003642	-.0000000114	0.0000000007
PCB_207	-.0000000060	-.0000000892	-.0000000488	-.0000000018	0.0000000001
PCB_208	-.0000000135	-.0000002278	-.0000001273	-.0000000024	0.0000000003
PCB_209	-.0000000119	-.0000002544	-.0000001457	0.0000000012	0.0000000004
PCB_12_13	0.0000000102	0.0000000748	0.0000000390	0.0000000097	0.0000000000
PCB_107_124	-.0000000674	-.0000004089	-.0000001176	-.0000000930	-.0000000009
PCB_110_115	-.0000026739	-.0000130847	-.0000082516	-.0000026249	-.0000000070
PCB_128_166	-.0000006843	-.0000038025	-.0000014638	-.0000009000	-.0000000072
PCB_129_138_163	-.0000046091	-.0000388689	-.0000170564	-.0000045395	-.0000000246
PCB_134_143	-.0000000280	-.0000002159	-.0000000973	-.0000000196	-.0000000003
PCB_135_151	0.0000002135	-.0000030813	-.0000015886	0.0000007852	0.0000000083
PCB_139_140	-.0000000296	-.0000002653	-.0000000537	-.0000000241	-.0000000006
PCB_147_149	-.0000014517	-.0000194392	-.0000098603	-.0000003372	0.0000000107
PCB_153_168	-.0000032647	-.0000305338	-.0000139853	-.0000024594	-.0000000094
PCB_156_157	-.0000004733	-.0000028905	-.0000007613	-.0000006348	-.0000000074
PCB_171_173	-.0000001683	-.0000018713	-.0000009053	-.0000000883	0.0000000004
PCB_18_30	0.0000006089	0.0000036318	0.0000019858	0.0000006441	0.0000000019
PCB_180_193	-.0000013786	-.0000147944	-.0000076136	-.0000008307	0.0000000062
PCB_183_185	-.0000004064	-.0000053823	-.0000028029	-.0000000953	0.0000000039
PCB_197_200	-.0000000212	-.0000003493	-.0000001896	0.0000000000	0.0000000004
PCB_198_199	-.0000001507	-.0000021615	-.0000011432	-.0000000450	0.0000000018
PCB_20_28	0.0000011009	0.0000062342	0.0000034922	0.0000012161	0.0000000038
PCB_21_33	0.0000001266	0.0000005924	0.0000003594	0.0000001483	0.0000000005
PCB_26_29	0.0000009069	0.0000065287	0.0000032324	0.0000009150	0.0000000032
PCB_40_41_71	0.0000011411	0.0000086800	0.0000040972	0.0000011166	0.0000000048
PCB_44_47_65	0.0000034401	0.0000301244	0.0000146336	0.0000027866	0.0000000058
PCB_45_51	0.0000010613	0.0000080948	0.0000040652	0.0000009555	0.0000000030
PCB_49_69	0.0000041740	0.0000366490	0.0000173990	0.0000036525	0.0000000097
PCB_50_53	0.0000017200	0.0000131342	0.0000063503	0.0000016678	0.0000000058
PCB_59_62_75	0.0000004348	0.0000032871	0.0000014673	0.0000004841	0.0000000021
PCB_61_70_74_76	-.0000004679	-.0000015068	-.0000001439	-.0000010988	-.0000000086
PCB_85_117_116	-.0000002720	-.0000008960	-.0000003398	-.0000004379	-.0000000033
PCB_86_87_97_108_119_125	-.0000013060	-.0000006922	-.0000004105	-.0000025402	-.0000000175

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_195	0.0000000046	-.0000001446	-.0000008894	-.0000000944	-.0000003779
PCB_196	0.0000000062	-.0000001878	-.0000011522	-.0000001304	-.0000004941
PCB_201	0.0000000028	-.0000000618	-.0000004099	-.0000000366	-.0000001689
PCB_202	0.0000000043	-.0000000901	-.0000006107	-.0000000606	-.0000002586
PCB_203	0.0000000121	-.0000003247	-.0000020922	-.0000001829	-.0000008565
PCB_204	0.0000000000	-.0000000008	-.0000000056	-.0000000006	-.0000000024
PCB_205	0.0000000006	-.0000000189	-.0000001163	-.0000000126	-.0000000487
PCB_206	0.0000000054	-.0000001222	-.0000008072	-.0000000933	-.0000003415
PCB_207	0.0000000007	-.0000000164	-.0000001078	-.0000000128	-.0000000463
PCB_208	0.0000000020	-.0000000390	-.0000002706	-.0000000267	-.0000001121
PCB_209	0.0000000027	-.0000000399	-.0000002965	-.0000000210	-.0000001152
PCB_12_13	-.0000000002	0.0000000190	0.0000000962	0.0000000301	0.0000000533
PCB_107_124	-.0000000022	-.0000001633	-.0000007196	-.0000002270	-.0000004166
PCB_110_115	0.0000000196	-.0000025597	-.0000111398	-.0000055067	-.0000096120
PCB_128_166	-.0000000143	-.0000015365	-.0000065695	-.0000027001	-.0000036996
PCB_129_138_163	0.0000000327	-.0000115979	-.0000586683	-.0000159967	-.0000293656
PCB_134_143	-.0000000008	-.0000000425	-.0000002610	-.0000000364	-.0000001630
PCB_135_151	0.0000000403	-.0000002236	-.0000036997	0.0000013846	-.0000005413
PCB_139_140	-.0000000019	-.0000001253	-.0000005760	-.0000001408	-.0000002489
PCB_147_149	0.0000001068	-.0000039550	-.0000245502	-.0000027793	-.0000108462
PCB_153_168	0.0000000624	-.0000084886	-.0000440957	-.0000105866	-.0000210510
PCB_156_157	-.0000000200	-.0000012885	-.0000055768	-.0000019351	-.0000030007
PCB_171_173	0.0000000086	-.0000004691	-.0000025700	-.0000004634	-.0000011535
PCB_18_30	-.0000000061	0.0000009837	0.0000045432	0.0000018080	0.0000027729
PCB_180_193	0.0000000816	-.0000033088	-.0000187255	-.0000033793	-.0000088512
PCB_183_185	0.0000000350	-.0000011348	-.0000068248	-.0000008782	-.0000029299
PCB_197_200	0.0000000029	-.0000000635	-.0000004221	-.0000000347	-.0000001732
PCB_198_199	0.0000000155	-.0000004164	-.0000026626	-.0000003014	-.0000011576
PCB_20_28	-.0000000083	0.0000016482	0.0000075212	0.0000033257	0.0000048375
PCB_21_33	-.0000000004	0.0000001638	0.0000006798	0.0000003923	0.0000004899
PCB_26_29	-.0000000111	0.0000018281	0.0000089678	0.0000028392	0.0000048760
PCB_40_41_71	-.0000000119	0.0000023599	0.0000118187	0.0000033028	0.0000064485
PCB_44_47_65	-.0000000822	0.0000075486	0.0000398858	0.0000093483	0.0000204982
PCB_45_51	-.0000000154	0.0000020479	0.0000104968	0.0000029449	0.0000057525
PCB_49_69	-.0000000913	0.0000092353	0.0000491747	0.0000111321	0.0000255806
PCB_50_53	-.0000000248	0.0000036803	0.0000182713	0.0000053706	0.0000096493
PCB_59_62_75	-.0000000049	0.0000010487	0.0000049945	0.0000015749	0.0000025703
PCB_61_70_74_76	-.0000000228	-.0000007619	-.0000028884	-.0000016974	-.0000026540
PCB_85_117_116	-.0000000090	-.0000005051	-.0000018377	-.0000011375	-.0000012251
PCB_86_87_97_108_119_125	-.0000000575	-.0000012349	-.0000017901	-.0000051410	-.0000039558

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_195	-.0000000093	0.0000000011	-.0000000304	0.0000000029	-.0000000025
PCB_196	-.0000000122	0.0000000016	-.0000000426	0.0000000020	-.0000000032
PCB_201	-.0000000043	0.0000000007	-.0000000133	0.0000000017	-.0000000008
PCB_202	-.0000000065	0.0000000011	-.0000000265	0.0000000014	-.0000000012
PCB_203	-.0000000217	0.0000000031	-.0000000843	0.0000000112	-.0000000054
PCB_204	-.0000000001	0.0000000000	-.0000000003	0.0000000000	-.0000000000
PCB_205	-.0000000012	0.0000000002	-.0000000037	0.0000000005	-.0000000003
PCB_206	-.0000000087	0.0000000014	-.0000000409	0.0000000013	-.0000000019
PCB_207	-.0000000012	0.0000000002	-.0000000053	0.0000000001	-.0000000003
PCB_208	-.0000000029	0.0000000005	-.0000000162	0.0000000006	-.0000000005
PCB_209	-.0000000032	0.0000000007	-.0000000217	0.0000000012	-.0000000004
PCB_12_13	0.0000000011	-.0000000000	0.0000000010	0.0000000015	0.0000000004
PCB_107_124	-.0000000078	-.0000000006	-.0000000493	-.0000000166	-.0000000069
PCB_110_115	-.0000001641	0.0000000052	0.0000002189	-.0000005988	-.0000000224
PCB_128_166	-.0000000685	-.0000000039	0.0000000430	-.0000001455	-.0000000513
PCB_129_138_163	-.0000006129	0.0000000067	-.0000015518	-.0000004869	-.0000003402
PCB_134_143	-.0000000028	-.0000000002	-.0000000148	-.0000000000	-.0000000013
PCB_135_151	-.0000000275	0.0000000101	-.0000001121	0.0000002154	0.0000000076
PCB_139_140	-.0000000049	-.0000000005	0.0000000194	0.0000000025	-.0000000043
PCB_147_149	-.0000002559	0.0000000267	-.0000008613	0.0000000963	-.0000000721
PCB_153_168	-.0000004594	0.0000000149	-.0000007558	-.0000001613	-.0000002120
PCB_156_157	-.0000000571	-.0000000054	-.0000001954	-.0000000889	-.0000000505
PCB_171_173	-.0000000263	0.0000000021	-.0000000236	-.0000000043	-.0000000100
PCB_18_30	0.0000000521	-.0000000015	-.0000001229	0.0000001198	0.0000000203
PCB_180_193	-.0000002045	0.0000000206	-.0000006405	-.0000001052	-.0000000654
PCB_183_185	-.0000000705	0.0000000088	-.0000000969	0.0000000151	-.0000000178
PCB_197_200	-.0000000044	0.0000000007	-.0000000153	0.0000000018	-.0000000008
PCB_198_199	-.0000000285	0.0000000039	-.0000001328	0.0000000027	-.0000000073
PCB_20_28	0.0000000911	-.0000000021	-.0000000676	0.0000002280	0.0000000341
PCB_21_33	0.0000000085	-.0000000001	-.0000000431	0.0000000295	0.0000000028
PCB_26_29	0.0000000974	-.0000000027	0.0000000201	0.0000001424	0.0000000455
PCB_40_41_71	0.0000001315	-.0000000028	0.0000004170	0.0000001738	0.0000000646
PCB_44_47_65	0.0000004380	-.0000000202	0.0000013641	0.0000003615	0.0000001836
PCB_45_51	0.0000001168	-.0000000037	0.0000002094	0.0000001364	0.0000000481
PCB_49_69	0.0000005385	-.0000000220	0.0000022099	0.0000005092	0.0000002491
PCB_50_53	0.0000001971	-.0000000060	0.0000001705	0.0000002487	0.0000000934
PCB_59_62_75	0.0000000536	-.0000000011	0.0000001002	0.0000000787	0.0000000307
PCB_61_70_74_76	-.0000000458	-.0000000060	-.0000011920	-.0000002616	-.0000000583
PCB_85_117_116	-.0000000179	-.0000000024	0.0000001874	-.0000000834	-.0000000182
PCB_86_87_97_108_119_125	-.0000000376	-.0000000147	0.0000003167	-.0000005932	-.0000000606

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_195	0.0000000008	-.0000003287	-.0000000776	-.0000001667	0.0000000237
PCB_196	0.0000000010	-.0000004260	-.0000001098	-.0000002056	0.0000000337
PCB_201	0.0000000006	-.0000001155	-.0000000354	-.0000000577	0.0000000204
PCB_202	0.0000000008	-.0000001713	-.0000000613	-.0000000792	0.0000000313
PCB_203	0.0000000024	-.0000006939	-.0000001949	-.0000003523	0.0000000806
PCB_204	0.0000000000	-.0000000015	-.0000000006	-.0000000007	0.0000000003
PCB_205	0.0000000001	-.0000000419	-.0000000105	-.0000000213	0.0000000034
PCB_206	0.0000000010	-.0000002521	-.0000000984	-.0000001097	0.0000000377
PCB_207	0.0000000001	-.0000000344	-.0000000127	-.0000000151	0.0000000047
PCB_208	0.0000000004	-.0000000747	-.0000000354	-.0000000299	0.0000000163
PCB_209	0.0000000006	-.0000000644	-.0000000453	-.0000000198	0.0000000251
PCB_12_13	0.0000000001	0.0000000558	0.0000000098	0.0000000264	0.0000000047
PCB_107_124	-.0000000021	-.0000006772	-.0000000806	-.0000003234	-.0000000821
PCB_110_115	-.0000000327	-.0000075793	-.0000004248	-.0000026383	-.0000011281
PCB_128_166	-.0000000168	-.0000054200	-.0000006822	-.0000027152	-.0000007303
PCB_129_138_163	-.0000000640	-.0000372641	-.0000065440	-.0000189550	-.0000032485
PCB_134_143	-.0000000005	-.0000001671	0.0000000131	-.0000001107	-.0000000272
PCB_135_151	0.0000000189	0.0000008518	0.0000002501	-.0000001755	0.0000006318
PCB_139_140	-.0000000010	-.0000004175	-.0000000131	-.0000002684	-.0000000566
PCB_147_149	0.0000000153	-.0000094761	-.0000018860	-.0000051188	0.0000003400
PCB_153_168	-.0000000263	-.0000249005	-.0000046413	-.0000129022	-.0000017060
PCB_156_157	-.0000000151	-.0000050338	-.0000006724	-.0000025474	-.0000006626
PCB_171_173	0.0000000002	-.0000012000	-.0000002032	-.0000006291	-.0000000169
PCB_18_30	0.0000000077	0.0000028493	0.0000003420	0.0000013227	0.0000003213
PCB_180_193	0.0000000037	-.0000085052	-.0000019985	-.0000038613	0.0000000940
PCB_183_185	0.0000000055	-.0000024392	-.0000005043	-.0000012891	0.0000001582
PCB_197_200	0.0000000006	-.0000001191	-.0000000375	-.0000000581	0.0000000220
PCB_198_199	0.0000000025	-.0000009460	-.0000002847	-.0000004381	0.0000000909
PCB_20_28	0.0000000148	0.0000050039	0.0000008688	0.0000021375	0.0000006014
PCB_21_33	0.0000000019	0.0000004769	0.0000000611	0.0000002022	0.0000000748
PCB_26_29	0.0000000111	0.0000055135	0.0000008147	0.0000027011	0.0000005069
PCB_40_41_71	0.0000000150	0.0000076577	0.0000012792	0.0000036024	0.0000006487
PCB_44_47_65	0.0000000270	0.0000226460	0.0000041715	0.0000108399	0.0000013460
PCB_45_51	0.0000000110	0.0000061981	0.0000009831	0.0000030098	0.0000005246
PCB_49_69	0.0000000400	0.0000290883	0.0000049724	0.0000139240	0.0000017962
PCB_50_53	0.0000000200	0.0000111230	0.0000017435	0.0000054481	0.0000009282
PCB_59_62_75	0.0000000064	0.0000033566	0.0000006377	0.0000015650	0.0000002766
PCB_61_70_74_76	-.0000000223	-.0000052725	-.0000013507	-.0000016736	-.0000006530
PCB_85_117_116	-.0000000083	-.0000018145	-.0000000135	-.0000009741	-.0000003359
PCB_86_87_97_108_119_125	-.0000000473	-.0000065353	-.0000005033	-.0000023785	-.0000016310

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_195	-.0000021440	-.0000000619	0.0000000011	0.0000000893	-.0000000364
PCB_196	-.0000026828	-.0000000795	0.0000000016	0.0000001201	-.0000000484
PCB_201	-.0000009259	-.0000000289	0.0000000007	0.0000000519	-.0000000163
PCB_202	-.0000012757	-.0000000430	0.0000000011	0.0000000810	-.0000000252
PCB_203	-.0000048348	-.0000001457	0.0000000031	0.0000002409	-.0000000861
PCB_204	-.0000000116	-.0000000004	0.0000000000	0.0000000008	-.0000000002
PCB_205	-.0000002783	-.0000000081	0.0000000002	0.0000000116	-.0000000047
PCB_206	-.0000016059	-.0000000555	0.0000000014	0.0000001009	-.0000000346
PCB_207	-.0000002181	-.0000000074	0.0000000002	0.0000000133	-.0000000046
PCB_208	-.0000004929	-.0000000186	0.0000000005	0.0000000387	-.0000000118
PCB_209	-.0000004545	-.0000000199	0.0000000007	0.0000000511	-.0000000133
PCB_12_13	0.0000002542	0.0000000067	-.0000000000	-.0000000007	0.0000000041
PCB_107_124	-.0000026046	-.0000000439	-.0000000006	0.0000000009	-.0000000566
PCB_110_115	-.0000205017	-.0000008915	0.0000000052	-.0000005116	-.0000002932
PCB_128_166	-.0000241986	-.0000004200	-.0000000039	-.0000003452	-.0000003929
PCB_129_138_163	-.0001751025	-.0000039211	0.0000000067	0.0000005732	-.0000029972
PCB_134_143	-.0000009110	-.0000000224	-.0000000002	0.0000000032	-.0000000108
PCB_135_151	-.0000102258	-.0000003098	0.0000000101	0.0000009914	-.0000000638
PCB_139_140	-.0000026086	-.0000000392	-.0000000005	-.0000000296	-.0000000283
PCB_147_149	-.0000608226	-.0000017586	0.0000000267	0.0000021583	-.0000009667
PCB_153_168	-.0001238026	-.0000030024	0.0000000149	0.0000006163	-.0000018963
PCB_156_157	-.0000204964	-.0000003441	-.0000000054	-.0000002399	-.0000003725
PCB_171_173	-.0000073273	-.0000001764	0.0000000021	0.0000001438	-.0000001099
PCB_18_30	0.0000134624	0.0000003206	-.0000000015	0.0000000994	0.0000001935
PCB_180_193	-.0000442758	-.0000012734	0.0000000206	0.0000014469	-.0000008354
PCB_183_185	-.0000174424	-.0000004813	0.0000000088	0.0000006039	-.0000002603
PCB_197_200	-.0000009373	-.0000000297	0.0000000007	0.0000000552	-.0000000170
PCB_198_199	-.0000057904	-.0000001842	0.0000000039	0.0000003098	-.0000001172
PCB_20_28	0.0000188998	0.0000005251	-.0000000021	0.0000002770	0.0000003135
PCB_21_33	0.0000018903	0.0000000491	-.0000000001	0.0000000611	0.0000000243
PCB_26_29	0.0000268128	0.0000006150	-.0000000027	-.0000000363	0.0000004272
PCB_40_41_71	0.0000325257	0.0000007971	-.0000000028	-.0000002355	0.0000006100
PCB_44_47_65	0.0001034624	0.0000027324	-.0000000202	-.0000014465	0.0000018529
PCB_45_51	0.0000282340	0.0000007366	-.0000000037	-.0000001446	0.0000004633
PCB_49_69	0.0001328049	0.0000033481	-.0000000220	-.0000023341	0.0000025558
PCB_50_53	0.0000538542	0.0000012413	-.0000000060	-.0000002165	0.0000008817
PCB_59_62_75	0.0000148788	0.0000003175	-.0000000011	-.0000000507	0.0000002798
PCB_61_70_74_76	-.0000048778	-.0000000914	-.0000000060	0.0000002503	-.0000005394
PCB_85_117_116	-.0000100683	-.0000001201	-.0000000024	-.0000002164	-.0000001360
PCB_86_87_97_108_119_125	-.0000149098	-.0000000523	-.0000000147	-.0000013417	-.0000004227

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_195	-.0000000178	0.0000000965	-.0000000490	-.0000001801	-.0000006120
PCB_196	-.0000000227	0.0000001266	-.0000000668	-.0000002341	-.0000008113
PCB_201	-.0000000063	0.0000000521	-.0000000239	-.0000000379	-.0000002928
PCB_202	-.0000000092	0.0000000780	-.0000000369	-.0000000605	-.0000004266
PCB_203	-.0000000397	0.0000002510	-.0000001174	-.0000003116	-.0000014701
PCB_204	-.0000000001	0.0000000007	-.0000000003	-.0000000005	-.0000000039
PCB_205	-.0000000023	0.0000000128	-.0000000064	-.0000000219	-.0000000809
PCB_206	-.0000000137	0.0000001002	-.0000000499	-.0000001106	-.0000005691
PCB_207	-.0000000018	0.0000000131	-.0000000066	-.0000000160	-.0000000751
PCB_208	-.0000000042	0.0000000368	-.0000000177	-.0000000227	-.0000001998
PCB_209	-.0000000041	0.0000000468	-.0000000216	0.0000000032	-.0000002443
PCB_12_13	0.0000000022	-.0000000031	0.0000000043	0.0000000556	0.0000000372
PCB_107_124	-.0000000338	-.0000000007	-.0000000284	-.0000007801	-.0000000625
PCB_110_115	-.0000000996	-.0000006223	-.0000008102	-.0000083977	-.0000061685
PCB_128_166	-.0000002387	-.0000000651	-.0000001915	-.0000063231	-.0000004764
PCB_129_138_163	-.0000018116	0.0000023374	-.0000021898	-.0000375875	-.0000180571
PCB_134_143	-.0000000082	-.0000000002	-.0000000017	-.0000001801	0.0000000088
PCB_135_151	-.0000000199	0.0000009496	-.0000001272	0.0000026695	-.0000035474
PCB_139_140	-.0000000225	0.0000000098	-.0000000023	-.0000004437	-.0000000457
PCB_147_149	-.0000005063	0.0000023944	-.0000011971	-.0000058574	-.0000149440
PCB_153_168	-.0000012110	0.0000022712	-.0000017585	-.0000226503	-.0000194534
PCB_156_157	-.0000002515	-.0000000365	-.0000001577	-.0000057263	-.0000004720
PCB_171_173	-.0000000591	0.0000002041	-.0000001198	-.0000009424	-.0000014171
PCB_18_30	0.0000000929	-.0000000292	0.0000002024	0.0000031124	0.0000014166
PCB_180_193	-.0000004042	0.0000016070	-.0000010834	-.0000063788	-.0000118204
PCB_183_185	-.0000001228	0.0000007048	-.0000003546	-.0000013687	-.0000045069
PCB_197_200	-.0000000066	0.0000000546	-.0000000253	-.0000000366	-.0000003107
PCB_198_199	-.0000000509	0.0000003047	-.0000001578	-.0000005185	-.0000017963
PCB_20_28	0.0000001585	0.0000000450	0.0000003708	0.0000055326	0.0000024766
PCB_21_33	0.0000000105	0.0000000306	0.0000000305	0.0000005783	0.0000001411
PCB_26_29	0.0000002296	-.0000002714	0.0000003720	0.0000057042	0.0000028966
PCB_40_41_71	0.0000003455	-.0000004086	0.0000005551	0.0000077148	0.0000044883
PCB_44_47_65	0.0000010508	-.0000021052	0.0000019390	0.0000207471	0.0000189902
PCB_45_51	0.0000002635	-.0000003656	0.0000004652	0.0000060729	0.0000041595
PCB_49_69	0.0000013880	-.0000026227	0.0000023745	0.0000277170	0.0000206062
PCB_50_53	0.0000004844	-.0000006788	0.0000007824	0.0000111976	0.0000065760
PCB_59_62_75	0.0000001542	-.0000001854	0.0000002297	0.0000034773	0.0000017377
PCB_61_70_74_76	-.0000002691	-.0000002314	-.0000003037	-.0000069340	0.0000012998
PCB_85_117_116	-.0000000658	-.0000001364	-.0000000074	-.0000025230	0.0000009650
PCB_86_87_97_108_119_125	-.0000001581	-.0000014182	-.0000000346	-.0000108826	0.0000066806

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_195	-.0000000175	-.0000001668	-.0000001960	-.0000000020	0.0000000370
PCB_196	-.0000000230	-.0000002215	-.0000002573	-.0000000013	0.0000000495
PCB_201	-.0000000067	-.0000000784	-.0000000834	0.0000000010	0.0000000240
PCB_202	-.0000000100	-.0000001185	-.0000001256	0.0000000055	0.0000000362
PCB_203	-.0000000384	-.0000004042	-.0000004585	0.0000000016	0.0000001034
PCB_204	-.0000000001	-.0000000011	-.0000000012	0.0000000001	0.0000000003
PCB_205	-.0000000023	-.0000000217	-.0000000253	-.0000000003	0.0000000050
PCB_206	-.0000000151	-.0000001605	-.0000001752	0.0000000087	0.0000000439
PCB_207	-.0000000020	-.0000000212	-.0000000233	0.0000000011	0.0000000057
PCB_208	-.0000000047	-.0000000564	-.0000000590	0.0000000036	0.0000000170
PCB_209	-.0000000047	-.0000000678	-.0000000663	0.0000000044	0.0000000231
PCB_12_13	0.0000000029	0.0000000127	0.0000000200	-.0000000018	0.0000000007
PCB_107_124	-.0000000280	-.0000001194	-.0000002586	0.0000000321	-.0000000436
PCB_110_115	-.0000003054	-.0000010583	-.0000013955	-.0000002213	-.0000003304
PCB_128_166	-.0000002646	-.0000007362	-.0000017619	0.0000002650	-.0000003435
PCB_129_138_163	-.0000018737	-.0000083621	-.0000146517	0.0000015555	-.0000008703
PCB_134_143	-.0000000047	-.0000000197	-.0000000517	0.0000000062	-.0000000090
PCB_135_151	0.0000000410	-.0000007672	-.0000005025	-.0000001304	0.0000005442
PCB_139_140	-.0000000199	-.0000000548	-.0000001443	0.0000000096	-.0000000239
PCB_147_149	-.0000004806	-.0000042269	-.0000051920	0.0000000328	0.0000008493
PCB_153_168	-.0000013138	-.0000064176	-.0000100626	0.0000004775	-.0000001173
PCB_156_157	-.0000002327	-.0000007625	-.0000017846	0.0000002144	-.0000003475
PCB_171_173	-.0000000630	-.0000004188	-.0000005701	0.0000000074	0.0000000512
PCB_18_30	0.0000001431	0.0000004911	0.0000008550	-.0000000854	0.0000000812
PCB_180_193	-.0000004449	-.0000034133	-.0000043025	0.0000000851	0.0000004949
PCB_183_185	-.0000001344	-.0000011850	-.0000013827	-.0000000197	0.0000002812
PCB_197_200	-.0000000069	-.0000000829	-.0000000878	0.0000000005	0.0000000251
PCB_198_199	-.0000000512	-.0000005198	-.0000005991	0.0000000209	0.0000001227
PCB_20_28	0.0000002592	0.0000008242	0.0000014282	-.0000001669	0.0000001907
PCB_21_33	0.0000000253	0.0000000429	0.0000000955	-.0000000171	0.0000000271
PCB_26_29	0.0000002759	0.0000011698	0.0000019930	-.0000002020	0.0000001098
PCB_40_41_71	0.0000003635	0.0000018067	0.0000029756	-.0000002362	0.0000001658
PCB_44_47_65	0.0000011123	0.0000063522	0.0000094548	-.0000004642	-.0000000286
PCB_45_51	0.0000003027	0.0000014461	0.0000022959	-.0000001583	0.0000000817
PCB_49_69	0.0000013538	0.0000080713	0.0000124685	-.0000009460	0.0000000883
PCB_50_53	0.0000005566	0.0000025476	0.0000042153	-.0000003645	0.0000001740
PCB_59_62_75	0.0000001717	0.0000007745	0.0000013255	-.0000001361	0.0000000829
PCB_61_70_74_76	-.0000001952	-.0000010012	-.0000022168	0.0000005474	-.0000004935
PCB_85_117_116	-.0000000826	-.0000000504	-.0000004515	0.0000001531	-.0000001688
PCB_86_87_97_108_119_125	-.0000002742	0.0000004614	-.0000009823	0.0000007426	-.0000010453

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_195	0.0000000004	-.0000000054	0.0000000011	0.0000000041	-.0000000538
PCB_196	0.0000000005	-.0000000075	0.0000000016	0.0000000057	-.0000000830
PCB_201	0.0000000004	-.0000000052	0.0000000007	0.0000000027	-.0000000558
PCB_202	0.0000000006	-.0000000073	0.0000000011	0.0000000042	-.0000000898
PCB_203	0.0000000013	-.0000000185	0.0000000031	0.0000000111	-.0000001812
PCB_204	0.0000000000	-.0000000001	0.0000000000	0.0000000000	-.0000000009
PCB_205	0.0000000001	-.0000000008	0.0000000002	0.0000000006	-.0000000084
PCB_206	0.0000000006	-.0000000081	0.0000000014	0.0000000051	-.0000001096
PCB_207	0.0000000001	-.0000000010	0.0000000002	0.0000000007	-.0000000140
PCB_208	0.0000000002	-.0000000035	0.0000000005	0.0000000020	-.0000000455
PCB_209	0.0000000003	-.0000000056	0.0000000007	0.0000000026	-.0000000674
PCB_12_13	-.0000000000	-.0000000014	-.0000000000	-.0000000001	-.0000000041
PCB_107_124	-.0000000024	0.0000000373	-.0000000006	-.0000000038	0.0000003092
PCB_110_115	0.0000000125	0.0000001986	0.0000000052	0.0000000276	-.0000005120
PCB_128_166	-.0000000084	0.0000002582	-.0000000039	-.0000000253	0.0000017799
PCB_129_138_163	-.0000000333	0.0000012634	0.0000000067	-.0000000546	0.0000083478
PCB_134_143	-.0000000001	0.0000000097	-.0000000002	-.0000000012	0.0000000897
PCB_135_151	0.0000000107	-.0000001933	0.0000000101	0.0000000419	-.0000009999
PCB_139_140	-.0000000006	0.0000000181	-.0000000005	-.0000000031	0.0000001932
PCB_147_149	0.0000000131	-.0000000624	0.0000000267	0.0000000904	-.0000007574
PCB_153_168	-.0000000027	0.0000005438	0.0000000149	0.0000000053	0.0000033688
PCB_156_157	-.0000000136	0.0000002585	-.0000000054	-.0000000336	0.0000021301
PCB_171_173	0.0000000006	0.0000000073	0.0000000021	0.0000000067	0.0000000275
PCB_18_30	-.0000000023	-.0000000853	-.0000000015	-.0000000044	-.0000002057
PCB_180_193	0.0000000031	0.0000000185	0.0000000206	0.0000000701	-.0000005992
PCB_183_185	0.0000000055	-.0000000490	0.0000000088	0.0000000326	-.0000005242
PCB_197_200	0.0000000004	-.0000000056	0.0000000007	0.0000000028	-.0000000576
PCB_198_199	0.0000000013	-.0000000159	0.0000000039	0.0000000142	-.0000002251
PCB_20_28	-.0000000034	-.0000001590	-.0000000021	-.0000000036	-.0000002389
PCB_21_33	-.0000000009	-.0000000165	-.0000000001	-.0000000003	0.0000000001
PCB_26_29	0.0000000005	-.0000001695	-.0000000027	-.0000000030	-.0000008078
PCB_40_41_71	0.0000000082	-.0000002521	-.0000000028	0.0000000025	-.0000015030
PCB_44_47_65	0.0000000105	-.0000005203	-.0000000202	-.0000000396	-.0000027120
PCB_45_51	0.0000000001	-.0000001701	-.0000000037	-.0000000050	-.0000007870
PCB_49_69	0.0000000304	-.0000008454	-.0000000220	-.0000000359	-.0000052249
PCB_50_53	0.0000000036	-.0000003243	-.0000000060	-.0000000068	-.0000016872
PCB_59_62_75	0.0000000042	-.0000001118	-.0000000011	0.0000000016	-.0000006523
PCB_61_70_74_76	-.0000000342	0.0000004174	-.0000000060	-.0000000385	0.0000029052
PCB_85_117_116	-.0000000022	0.0000001174	-.0000000024	-.0000000106	0.0000007770
PCB_86_87_97_108_119_125	-.0000000202	0.0000005944	-.0000000147	-.0000000612	0.0000031520

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_195	-.0000001595	-.0000004380	0.0000000341	-.0000005496	-.0000000684
PCB_196	-.0000002061	-.0000005377	0.0000000467	-.0000007323	-.0000000904
PCB_201	-.0000000574	-.0000001621	0.0000000210	-.0000002226	-.0000000314
PCB_202	-.0000000764	-.0000002068	0.0000000327	-.0000003336	-.0000000471
PCB_203	-.0000003483	-.0000009511	0.0000000916	-.0000012288	-.0000001617
PCB_204	-.0000000007	-.0000000018	0.0000000003	-.0000000031	-.0000000004
PCB_205	-.0000000212	-.0000000585	0.0000000045	-.0000000707	-.0000000090
PCB_206	-.0000001190	-.0000002932	0.0000000412	-.0000004765	-.0000000650
PCB_207	-.0000000157	-.0000000390	0.0000000054	-.0000000640	-.0000000086
PCB_208	-.0000000356	-.0000000812	0.0000000157	-.0000001553	-.0000000221
PCB_209	-.0000000362	-.0000000656	0.0000000207	-.0000001671	-.0000000257
PCB_12_13	0.0000000194	0.0000000567	-.0000000010	0.0000000709	0.0000000069
PCB_107_124	-.0000002157	-.0000004528	-.0000000146	-.0000008483	-.0000000418
PCB_110_115	-.0000007930	-.0000031163	0.0000000691	-.0000091028	-.0000008408
PCB_128_166	-.0000020182	-.0000053584	-.0000001215	-.0000063841	-.0000004070
PCB_129_138_163	-.0000145830	-.0000402161	0.0000001593	-.0000466669	-.0000040306
PCB_134_143	-.0000000100	-.0000001358	-.0000000056	-.0000001292	-.0000000078
PCB_135_151	-.0000000150	-.0000014681	0.0000003166	0.0000003436	-.0000002126
PCB_139_140	-.0000001941	-.0000006355	-.0000000161	-.0000004389	-.0000000296
PCB_147_149	-.0000040129	-.0000124724	0.0000007889	-.0000142606	-.0000017813
PCB_153_168	-.0000109801	-.0000316808	0.0000003450	-.0000319563	-.0000032556
PCB_156_157	-.0000019131	-.0000047518	-.0000001541	-.0000059402	-.0000003497
PCB_171_173	-.0000005643	-.0000015990	0.0000000609	-.0000017524	-.0000001878
PCB_18_30	0.0000009045	0.0000027332	-.0000000291	0.0000035310	0.0000003086
PCB_180_193	-.0000036480	-.0000091005	0.0000006007	-.0000133741	-.0000014694
PCB_183_185	-.0000012115	-.0000035952	0.0000002561	-.0000039973	-.0000005131
PCB_197_200	-.0000000599	-.0000001629	0.0000000220	-.0000002343	-.0000000327
PCB_198_199	-.0000004134	-.0000010472	0.0000001185	-.0000016552	-.0000002066
PCB_20_28	0.0000015303	0.0000043594	-.0000000263	0.0000061137	0.0000005606
PCB_21_33	0.0000001303	0.0000004255	0.0000000023	0.0000005410	0.0000000480
PCB_26_29	0.0000019758	0.0000056336	-.0000000643	0.0000069920	0.0000006086
PCB_40_41_71	0.0000026522	0.0000068245	-.0000000766	0.0000099638	0.0000008362
PCB_44_47_65	0.0000084993	0.0000228207	-.0000005596	0.0000305139	0.0000029353
PCB_45_51	0.0000021103	0.0000061897	-.0000000909	0.0000078186	0.0000007385
PCB_49_69	0.0000099548	0.0000255959	-.0000006863	0.0000392821	0.0000034214
PCB_50_53	0.0000041696	0.0000115408	-.0000001527	0.0000143977	0.0000012683
PCB_59_62_75	0.0000013690	0.0000032857	-.0000000308	0.0000045169	0.0000003648
PCB_61_70_74_76	-.0000009442	0.0000011456	-.0000001112	-.0000072888	-.0000001949
PCB_85_117_116	-.0000005237	-.0000015900	-.0000000684	-.0000019298	-.0000000537
PCB_86_87_97_108_119_125	-.0000008320	-.0000004411	-.0000004251	-.0000068537	0.0000000601

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_195	-.0000007111	-.0000000415	-.0000011665	-.0000000863	-.0000000043
PCB_196	-.0000006795	-.0000000523	-.0000015699	-.0000001140	-.0000000056
PCB_201	0.0000000451	-.0000000146	-.0000007230	-.0000000352	-.0000000019
PCB_202	0.0000002634	-.0000000207	-.0000011394	-.0000000533	-.0000000028
PCB_203	-.0000010209	-.0000000902	-.0000032850	-.0000001980	-.0000000102
PCB_204	0.0000000032	-.0000000002	-.0000000109	-.0000000005	-.0000000000
PCB_205	-.0000000880	-.0000000053	-.0000001545	-.0000000112	-.0000000006
PCB_206	0.0000002323	-.0000000303	-.0000014362	-.0000000771	-.0000000039
PCB_207	0.0000000274	-.0000000041	-.0000001871	-.0000000103	-.0000000005
PCB_208	0.0000002029	-.0000000089	-.0000005544	-.0000000256	-.0000000013
PCB_209	0.0000004336	-.0000000077	-.0000007399	-.0000000283	-.0000000015
PCB_12_13	0.0000001527	0.0000000060	0.0000000093	0.0000000101	0.0000000004
PCB_107_124	-.0000030607	-.0000000785	-.0000000232	-.0000001209	-.0000000029
PCB_110_115	0.0000036521	-.0000004327	0.0000209715	-.0000009192	-.0000000329
PCB_128_166	-.0000248181	-.0000006321	0.0000025175	-.0000008919	-.0000000218
PCB_129_138_163	-.0001574319	-.0000045359	-.0000185719	-.0000071023	-.0000002435
PCB_134_143	-.0000010460	-.0000000207	0.0000000820	-.0000000201	-.0000000010
PCB_135_151	0.0000004078	-.0000000207	-.0000138868	-.0000000584	-.0000000218
PCB_139_140	-.0000033050	-.0000000598	0.0000001613	-.0000000668	-.0000000022
PCB_147_149	-.0000270899	-.0000012084	-.0000277592	-.0000022772	-.0000001162
PCB_153_168	-.0001084590	-.0000030809	-.0000119218	-.0000049492	-.0000001944
PCB_156_157	-.0000268888	-.0000006147	0.0000020812	-.0000008782	-.0000000226
PCB_171_173	-.0000042763	-.0000001495	-.0000020894	-.0000002622	-.0000000113
PCB_18_30	0.0000067220	0.0000002829	-.0000014247	0.0000004508	0.0000000141
PCB_180_193	-.0000154970	-.0000009672	-.0000183045	-.0000020027	-.0000000859
PCB_183_185	-.0000053440	-.0000003070	-.0000082114	-.0000006114	-.0000000311
PCB_197_200	0.0000000604	-.0000000150	-.0000007575	-.0000000371	-.0000000020
PCB_198_199	-.0000005431	-.0000001141	-.0000042082	-.0000002624	-.0000000127
PCB_20_28	0.0000095589	0.0000004729	-.0000044587	0.0000008066	0.0000000246
PCB_21_33	0.0000006877	0.0000000405	-.0000008629	0.0000000624	0.0000000015
PCB_26_29	0.0000180561	0.0000006167	0.0000013719	0.0000009838	0.0000000330
PCB_40_41_71	0.0000254103	0.0000008552	0.0000024167	0.0000014486	0.0000000494
PCB_44_47_65	0.0000725483	0.0000025884	0.0000161618	0.0000045539	0.0000001758
PCB_45_51	0.0000197987	0.0000006864	0.0000011104	0.0000011340	0.0000000425
PCB_49_69	0.0000914574	0.0000033288	0.0000287318	0.0000058209	0.0000002135
PCB_50_53	0.0000379744	0.0000012669	0.0000044068	0.0000020619	0.0000000710
PCB_59_62_75	0.0000116703	0.0000003867	0.0000016665	0.0000006543	0.0000000199
PCB_61_70_74_76	-.0000093846	-.0000005080	-.0000028410	-.0000010565	-.0000000140
PCB_85_117_116	-.0000081966	-.0000002033	0.0000012683	-.0000002197	-.0000000013
PCB_86_87_97_108_119_125	-.0000115738	-.0000005085	0.0000153095	-.0000006496	0.0000000202

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_195	-.0000007356	0.0000000011	-.0000002688	-.0000000109	0.0000000011
PCB_196	-.0000010524	0.0000000016	-.0000003779	-.0000000150	0.0000000016
PCB_201	-.0000006226	0.0000000007	-.0000001657	-.0000000047	0.0000000007
PCB_202	-.0000009593	0.0000000011	-.0000002628	-.0000000075	0.0000000011
PCB_203	-.0000022920	0.0000000031	-.0000007309	-.0000000259	0.0000000031
PCB_204	-.0000000092	0.0000000000	-.0000000025	-.0000000001	0.0000000000
PCB_205	-.0000001065	0.0000000002	-.0000000364	-.0000000014	0.0000000002
PCB_206	-.0000011454	0.0000000014	-.0000003455	-.0000000108	0.0000000014
PCB_207	-.0000001467	0.0000000002	-.0000000449	-.0000000014	0.0000000002
PCB_208	-.0000004715	0.0000000005	-.0000001334	-.0000000038	0.0000000005
PCB_209	-.0000006911	0.0000000007	-.0000001820	-.0000000046	0.0000000007
PCB_12_13	-.0000000658	-.0000000000	0.0000000052	0.0000000011	-.0000000000
PCB_107_124	0.0000027481	-.0000000006	0.0000002164	-.0000000201	-.0000000006
PCB_110_115	0.0000043975	0.0000000052	-.0000008360	-.0000000782	0.0000000052
PCB_128_166	0.0000186241	-.0000000039	0.0000017510	-.0000001079	-.0000000039
PCB_129_138_163	0.0000826633	0.0000000067	0.0000021948	-.0000008423	0.0000000067
PCB_134_143	0.0000007456	-.0000000002	0.0000001023	-.0000000018	-.0000000002
PCB_135_151	-.0000144850	0.0000000101	-.0000021921	0.0000000033	0.0000000101
PCB_139_140	0.0000016978	-.0000000005	0.0000002327	-.0000000054	-.0000000005
PCB_147_149	-.0000127532	0.0000000267	-.0000057772	-.0000002655	0.0000000267
PCB_153_168	0.0000342010	0.0000000149	-.0000016429	-.0000005012	0.0000000149
PCB_156_157	0.0000200688	-.0000000054	0.0000018537	-.0000001172	-.0000000054
PCB_171_173	-.0000000549	0.0000000021	-.0000003933	-.0000000300	0.0000000021
PCB_18_30	-.0000040803	-.0000000015	-.0000000562	0.0000000448	-.0000000015
PCB_180_193	-.0000071872	0.0000000206	-.0000048438	-.0000002643	0.0000000206
PCB_183_185	-.0000061554	0.0000000088	-.0000019340	-.0000000693	0.0000000088
PCB_197_200	-.0000006539	0.0000000007	-.0000001760	-.0000000051	0.0000000007
PCB_198_199	-.0000026767	0.0000000039	-.0000009552	-.0000000371	0.0000000039
PCB_20_28	-.0000072369	-.0000000021	0.0000000934	0.0000000786	-.0000000021
PCB_21_33	-.0000007279	-.0000000001	-.0000000469	0.0000000039	-.0000000001
PCB_26_29	-.0000094975	-.0000000027	-.0000000695	0.0000001124	-.0000000027
PCB_40_41_71	-.0000149559	-.0000000028	0.0000001085	0.0000001890	-.0000000028
PCB_44_47_65	-.0000260047	-.0000000202	0.0000035846	0.0000005596	-.0000000202
PCB_45_51	-.0000090435	-.0000000037	0.0000003271	0.0000001261	-.0000000037
PCB_49_69	-.0000457040	-.0000000220	0.0000031557	0.0000008050	-.0000000220
PCB_50_53	-.0000184612	-.0000000060	0.0000001876	0.0000002428	-.0000000060
PCB_59_62_75	-.0000068218	-.0000000011	0.0000000102	0.0000000865	-.0000000011
PCB_61_70_74_76	0.0000267596	-.0000000060	0.0000011455	-.0000002520	-.0000000060
PCB_85_117_116	0.0000083956	-.0000000024	0.0000011827	-.0000000286	-.0000000024
PCB_86_87_97_108_119_125	0.0000388523	-.0000000147	0.0000049022	-.0000001383	-.0000000147

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_195	-.0000000727	-.0000016287	-.0000000289	-.0000000043	-.0000000035
PCB_196	-.0000001092	-.0000021420	-.0000000394	-.0000000058	-.0000000056
PCB_201	-.0000000682	-.0000010113	-.0000000114	-.0000000018	-.0000000051
PCB_202	-.0000001082	-.0000015696	-.0000000187	-.0000000027	-.0000000074
PCB_203	-.0000002335	-.0000046437	-.0000000674	-.0000000102	-.0000000150
PCB_204	-.0000000010	-.0000000149	-.0000000002	-.0000000000	-.0000000001
PCB_205	-.0000000105	-.0000002203	-.0000000036	-.0000000006	-.0000000006
PCB_206	-.0000001274	-.0000019835	-.0000000277	-.0000000040	-.0000000085
PCB_207	-.0000000164	-.0000002557	-.0000000037	-.0000000005	-.0000000010
PCB_208	-.0000000533	-.0000007670	-.0000000096	-.0000000014	-.0000000039
PCB_209	-.0000000786	-.0000010325	-.0000000111	-.0000000016	-.0000000065
PCB_12_13	-.0000000068	-.0000000174	0.0000000034	0.0000000004	-.0000000017
PCB_107_124	0.0000003087	0.0000011728	-.0000000663	-.0000000067	0.0000000507
PCB_110_115	-.0000004130	0.0000321374	-.0000002612	-.0000000240	0.0000001292
PCB_128_166	0.0000021166	0.0000107874	-.0000003631	-.0000000392	0.0000003351
PCB_129_138_163	0.0000100399	0.0000022753	-.0000027354	-.0000003248	0.0000017055
PCB_134_143	0.0000000866	0.0000001683	-.0000000103	-.0000000009	0.0000000140
PCB_135_151	-.0000013904	-.0000238285	0.0000000454	-.0000000061	-.0000001783
PCB_139_140	0.0000002207	0.0000005313	-.0000000208	-.0000000028	0.0000000278
PCB_147_149	-.0000011161	-.0000403017	-.0000007527	-.0000001101	0.0000000122
PCB_153_168	0.0000046641	-.0000118708	-.0000015790	-.0000002136	0.0000007514
PCB_156_157	0.0000023659	0.0000091588	-.0000004015	-.0000000432	0.0000003451
PCB_171_173	0.0000000260	-.0000023997	-.0000000838	-.0000000122	0.0000000184
PCB_18_30	-.0000003549	-.0000047328	0.0000001393	0.0000000162	-.0000000980
PCB_180_193	-.0000007931	-.0000216005	-.0000007292	-.0000000984	0.0000000555
PCB_183_185	-.0000006254	-.0000115553	-.0000001760	-.0000000287	-.0000000372
PCB_197_200	-.0000000717	-.0000010572	-.0000000124	-.0000000019	-.0000000054
PCB_198_199	-.0000002921	-.0000056075	-.0000000990	-.0000000137	-.0000000121
PCB_20_28	-.0000006108	-.0000096209	0.0000002535	0.0000000282	-.0000001600
PCB_21_33	-.0000000502	-.0000015995	0.0000000132	0.0000000013	-.0000000151
PCB_26_29	-.0000010310	-.0000031492	0.0000003535	0.0000000419	-.0000002190
PCB_40_41_71	-.0000016578	-.0000033070	0.0000006000	0.0000000688	-.0000003273
PCB_44_47_65	-.0000030618	0.0000107992	0.0000017249	0.0000002133	-.0000006990
PCB_45_51	-.0000009959	-.0000016805	0.0000004053	0.0000000488	-.0000002146
PCB_49_69	-.0000051361	0.0000136932	0.0000025076	0.0000002909	-.0000011734
PCB_50_53	-.0000020723	-.0000034824	0.0000007552	0.0000000912	-.0000004284
PCB_59_62_75	-.0000007763	-.0000015441	0.0000002643	0.0000000310	-.0000001465
PCB_61_70_74_76	0.0000027156	0.0000115554	-.0000008206	-.0000000715	0.0000005170
PCB_85_117_116	0.0000008879	0.0000065005	-.0000001014	-.0000000085	0.0000001565
PCB_86_87_97_108_119_125	0.0000036460	0.0000439689	-.0000004994	-.0000000274	0.0000006862

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_195	-.0000000245	0.0000000119	0.0000000028	-.0000000021	0.0000000054
PCB_196	-.0000000473	0.0000000142	0.0000000032	-.0000000312	0.0000000016
PCB_201	-.0000000326	0.0000000055	0.0000000008	-.0000000451	-.0000000087
PCB_202	-.0000000589	0.0000000074	0.0000000008	-.0000000811	-.0000000156
PCB_203	-.0000000895	0.0000000303	0.0000000055	-.0000000776	-.0000000077
PCB_204	-.0000000006	0.0000000001	0.0000000000	-.0000000008	-.0000000002
PCB_205	-.0000000034	0.0000000016	0.0000000004	-.0000000011	0.0000000004
PCB_206	-.0000000691	0.0000000095	0.0000000010	-.0000000899	-.0000000159
PCB_207	-.0000000091	0.0000000012	0.0000000001	-.0000000115	-.0000000019
PCB_208	-.0000000305	0.0000000032	0.0000000001	-.0000000449	-.0000000089
PCB_209	-.0000000457	0.0000000036	-.0000000002	-.0000000768	-.0000000165
PCB_12_13	-.0000000026	-.0000000004	-.0000000004	-.0000000161	-.0000000052
PCB_107_124	0.0000001439	0.0000000055	0.0000000056	0.0000004065	0.0000001160
PCB_110_115	-.0000018977	-.0000003299	0.0000000221	-.0000012053	0.0000002452
PCB_128_166	0.0000011899	0.0000000480	0.0000000530	0.0000032132	0.0000008658
PCB_129_138_163	0.0000063867	0.0000006682	0.0000003419	0.0000185646	0.0000050105
PCB_134_143	0.0000000453	0.0000000034	0.0000000019	0.0000001406	0.0000000370
PCB_135_151	-.0000002693	0.0000001595	0.0000000086	-.0000008119	-.0000002955
PCB_139_140	0.0000001774	0.0000000142	0.0000000065	0.0000003861	0.0000000904
PCB_147_149	-.0000001450	0.0000003376	0.0000000859	0.0000012890	0.0000004546
PCB_153_168	0.0000038289	0.0000005313	0.0000002449	0.0000109764	0.0000029385
PCB_156_157	0.0000013694	0.0000000657	0.0000000493	0.0000034456	0.0000009119
PCB_171_173	0.0000000778	0.0000000326	0.0000000123	0.0000003086	0.0000000914
PCB_18_30	-.0000000600	0.0000000088	-.0000000228	-.0000007175	-.0000002568
PCB_180_193	-.0000005050	0.0000001590	0.0000000588	0.0000004140	0.0000003256
PCB_183_185	-.0000001901	0.0000000884	0.0000000236	-.0000000444	0.0000000252
PCB_197_200	-.0000000351	0.0000000056	0.0000000008	-.0000000498	-.0000000096
PCB_198_199	-.0000001581	0.0000000316	0.0000000054	-.0000001406	-.0000000113
PCB_20_28	0.0000000008	0.0000000433	-.0000000315	-.0000011098	-.0000004315
PCB_21_33	0.0000000136	0.0000000092	-.0000000032	-.0000000883	-.0000000382
PCB_26_29	-.0000005147	-.0000000515	-.0000000478	-.0000020260	-.0000006067
PCB_40_41_71	-.0000007142	-.0000000671	-.0000000585	-.0000028437	-.0000008836
PCB_44_47_65	-.0000015122	-.0000003060	-.0000001776	-.0000069977	-.0000022239
PCB_45_51	-.0000004470	-.0000000562	-.0000000497	-.0000020890	-.0000006528
PCB_49_69	-.0000021328	-.0000003930	-.0000002192	-.0000097908	-.0000031049
PCB_50_53	-.0000011097	-.0000001280	-.0000000970	-.0000041231	-.0000012257
PCB_59_62_75	-.0000004139	-.0000000379	-.0000000277	-.0000013358	-.0000003914
PCB_61_70_74_76	0.0000004810	-.0000000675	0.0000000033	0.0000023647	0.0000008418
PCB_85_117_116	0.0000004514	0.0000000049	0.0000000208	0.0000012443	0.0000003301
PCB_86_87_97_108_119_125	0.0000007322	-.0000002362	0.0000000296	0.0000033420	0.0000011183

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_195	0.0000003367	0.0000000147	0.0000000592	-.0000000276	0.0000007472
PCB_196	0.0000005648	0.0000000143	0.0000000791	-.0000000794	0.0000009742
PCB_201	0.0000002537	0.0000000079	0.0000000482	-.0000000906	0.0000003469
PCB_202	0.0000004938	0.0000000086	0.0000000759	-.0000001631	0.0000005177
PCB_203	0.0000008599	0.0000000361	0.0000001787	-.0000002080	0.0000017789
PCB_204	0.0000000049	0.0000000001	0.0000000007	-.0000000016	0.0000000048
PCB_205	0.0000000416	0.0000000022	0.0000000078	-.0000000050	0.0000000979
PCB_206	0.0000006362	0.0000000079	0.0000000809	-.0000001844	0.0000006910
PCB_207	0.0000000871	0.0000000010	0.0000000108	-.0000000236	0.0000000919
PCB_208	0.0000002457	0.0000000017	0.0000000330	-.0000000885	0.0000002352
PCB_209	0.0000003087	0.0000000001	0.0000000443	-.0000001449	0.0000002671
PCB_12_13	-.0000000840	-.0000000014	0.0000000026	-.0000000268	-.0000000720
PCB_107_124	0.0000004749	-.0000000203	-.0000001122	0.0000006845	0.0000005606
PCB_110_115	0.0000293279	-.0000003443	0.0000001008	-.0000010633	0.0000070145
PCB_128_166	0.0000037140	0.0000000992	-.0000009761	0.0000055383	0.0000047498
PCB_129_138_163	0.0000220321	0.0000009892	-.0000038734	0.0000299983	0.0000453196
PCB_134_143	0.0000000302	0.0000000085	0.0000000054	0.0000002033	0.0000001672
PCB_135_151	-.0000046369	0.0000003358	0.0000012860	-.0000019507	0.0000033537
PCB_139_140	-.0000005597	0.0000000360	-.0000000815	0.0000006405	0.0000004180
PCB_147_149	0.0000078855	0.0000005350	0.0000015189	0.0000011447	0.0000200427
PCB_153_168	0.0000078820	0.0000010705	-.0000021777	0.0000177512	0.0000344887
PCB_156_157	0.0000006987	0.0000000122	-.0000010628	0.0000057972	0.0000042273
PCB_171_173	0.0000007622	0.0000000608	0.0000000342	0.0000004992	0.0000020719
PCB_18_30	-.0000056395	-.0000000716	0.0000001547	-.0000013576	-.0000032055
PCB_180_193	0.0000129809	0.0000001037	0.0000006033	0.0000005175	0.0000154552
PCB_183_185	0.0000026687	0.0000001724	0.0000004773	-.0000002060	0.0000056111
PCB_197_200	0.0000002625	0.0000000070	0.0000000498	-.0000000985	0.0000003601
PCB_198_199	0.0000018181	0.0000000224	0.0000002257	-.0000003367	0.0000022567
PCB_20_28	-.0000108568	-.0000000404	0.0000004525	-.0000020966	-.0000052953
PCB_21_33	-.0000012984	-.0000000115	0.0000000476	-.0000001948	-.0000004291
PCB_26_29	-.0000070178	-.0000001452	0.0000003600	-.0000034364	-.0000067004
PCB_40_41_71	-.0000088128	-.0000000010	0.0000005964	-.0000047087	-.0000091445
PCB_44_47_65	-.0000237481	-.0000002661	0.0000008903	-.0000112341	-.0000314491
PCB_45_51	-.0000076003	-.0000001247	0.0000003028	-.0000034060	-.0000079204
PCB_49_69	-.0000344248	-.0000000198	0.0000008458	-.0000154664	-.0000388973
PCB_50_53	-.0000124029	-.0000002617	0.0000007509	-.0000069503	-.0000139175
PCB_59_62_75	-.0000034217	-.0000000212	0.0000003903	-.0000023034	-.0000039290
PCB_61_70_74_76	0.0000125506	-.0000007850	-.0000010922	0.0000038800	0.0000026895
PCB_85_117_116	0.0000024558	0.0000000692	-.0000002946	0.0000022125	0.0000010830
PCB_86_87_97_108_119_125	0.0000215976	-.0000004512	-.0000017736	0.0000065162	-.0000001367

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_195	0.0000000016	0.0000001836	-.0000000000	0.0000005952	-.0000000014
PCB_196	0.0000000022	0.0000002302	-.0000000001	0.0000007368	-.0000000022
PCB_201	0.0000000010	0.0000000832	-.0000000001	0.0000002765	-.0000000006
PCB_202	0.0000000015	0.0000001151	-.0000000002	0.0000003808	-.0000000012
PCB_203	0.0000000043	0.0000004395	-.0000000002	0.0000014260	-.0000000032
PCB_204	0.0000000000	0.0000000010	-.0000000000	0.0000000035	-.0000000000
PCB_205	0.0000000002	0.0000000241	-.0000000000	0.0000000798	-.0000000002
PCB_206	0.0000000019	0.0000001477	-.0000000003	0.0000004893	-.0000000019
PCB_207	0.0000000003	0.0000000195	-.0000000000	0.0000000644	-.0000000003
PCB_208	0.0000000007	0.0000000492	-.0000000001	0.0000001588	-.0000000007
PCB_209	0.0000000010	0.0000000547	-.0000000002	0.0000001696	-.0000000010
PCB_12_13	-.0000000001	-.0000000115	-.0000000000	-.0000000495	0.0000000002
PCB_107_124	-.0000000008	0.0000000951	0.0000000014	0.0000002411	-.0000000028
PCB_110_115	0.0000000072	-.0000003133	-.0000000054	-.0000012766	-.0000000515
PCB_128_166	-.0000000053	0.0000007736	0.0000000094	0.0000036906	-.0000000094
PCB_129_138_163	0.0000000103	0.0000091175	0.0000000521	0.0000360910	-.0000000846
PCB_134_143	-.0000000003	0.0000000449	0.0000000005	0.0000001408	0.0000000005
PCB_135_151	0.0000000143	0.0000015659	-.0000000010	0.0000049560	0.0000000186
PCB_139_140	-.0000000007	0.0000001382	0.0000000012	0.0000005776	0.0000000015
PCB_147_149	0.0000000379	0.0000049610	0.0000000040	0.0000165957	-.0000000241
PCB_153_168	0.0000000215	0.0000076343	0.0000000263	0.0000299608	-.0000000469
PCB_156_157	-.0000000074	0.0000008227	0.0000000104	0.0000030648	-.0000000118
PCB_171_173	0.0000000030	0.0000004988	0.0000000008	0.0000017949	-.0000000025
PCB_18_30	-.0000000022	-.0000003986	-.0000000017	-.0000020807	0.0000000072
PCB_180_193	0.0000000291	0.0000031855	0.0000000003	0.0000104510	-.0000000462
PCB_183_185	0.0000000125	0.0000013873	-.0000000003	0.0000048337	-.0000000063
PCB_197_200	0.0000000010	0.0000000864	-.0000000001	0.0000002800	-.0000000007
PCB_198_199	0.0000000055	0.0000005008	-.0000000004	0.0000015920	-.0000000060
PCB_20_28	-.0000000030	-.0000004205	-.0000000016	-.0000026927	0.0000000202
PCB_21_33	-.0000000001	-.0000000024	-.0000000001	-.0000002173	0.0000000013
PCB_26_29	-.0000000038	-.0000011590	-.0000000056	-.0000049200	0.0000000133
PCB_40_41_71	-.0000000040	-.0000015850	-.0000000082	-.0000055306	0.0000000303
PCB_44_47_65	-.0000000288	-.0000061177	-.0000000186	-.0000212281	0.0000000872
PCB_45_51	-.0000000053	-.0000014013	-.0000000055	-.0000054198	0.0000000184
PCB_49_69	-.0000000317	-.0000074487	-.0000000314	-.0000241754	0.0000001195
PCB_50_53	-.0000000086	-.0000025570	-.0000000114	-.0000102428	0.0000000298
PCB_59_62_75	-.0000000017	-.0000006840	-.0000000036	-.0000026750	0.0000000128
PCB_61_70_74_76	-.0000000083	-.0000004667	0.0000000096	-.0000039098	-.0000000621
PCB_85_117_116	-.0000000033	0.0000001032	0.0000000043	0.0000010375	0.0000000020
PCB_86_87_97_108_119_125	-.0000000207	-.0000018717	0.0000000116	-.0000048558	-.0000000351

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_195	-.0000000026	-.0000000029	-.0000000130	0.0000000007	0.0000000394
PCB_196	-.0000000037	-.0000000039	-.0000000216	0.0000000010	-.0000000042
PCB_201	-.0000000012	-.0000000014	-.0000000082	0.0000000005	-.0000000777
PCB_202	-.0000000019	-.0000000022	-.0000000154	0.0000000007	-.0000001508
PCB_203	-.0000000063	-.0000000072	-.0000000350	0.0000000020	-.0000000900
PCB_204	-.0000000000	-.0000000000	-.0000000002	0.0000000000	-.0000000016
PCB_205	-.0000000003	-.0000000004	-.0000000017	0.0000000001	0.0000000031
PCB_206	-.0000000028	-.0000000030	-.0000000226	0.0000000009	-.0000001680
PCB_207	-.0000000004	-.0000000004	-.0000000030	0.0000000001	-.0000000209
PCB_208	-.0000000010	-.0000000011	-.0000000090	0.0000000003	-.0000000894
PCB_209	-.0000000013	-.0000000014	-.0000000127	0.0000000005	-.0000001590
PCB_12_13	0.0000000002	0.0000000002	0.0000000012	-.0000000000	-.0000000406
PCB_107_124	-.0000000017	-.0000000000	-.0000000059	-.0000000006	0.0000008905
PCB_110_115	-.0000000299	-.0000000175	-.0000004611	0.0000000033	0.0000009623
PCB_128_166	-.0000000059	-.0000000004	0.0000000161	-.0000000034	0.0000070975
PCB_129_138_163	-.0000000977	-.0000000873	-.0000001893	-.0000000014	0.0000402731
PCB_134_143	0.0000000007	0.0000000004	0.0000000098	-.0000000001	0.0000002963
PCB_135_151	-.0000000007	-.0000000145	0.0000001092	0.0000000074	-.0000019615
PCB_139_140	0.0000000006	0.0000000003	0.0000000258	-.0000000004	0.0000008125
PCB_147_149	-.0000000558	-.0000000690	-.0000002045	0.0000000169	0.0000036047
PCB_153_168	-.0000000852	-.0000000925	-.0000000883	0.0000000061	0.0000245935
PCB_156_157	-.0000000088	-.0000000011	0.0000000313	-.0000000049	0.0000073679
PCB_171_173	-.0000000058	-.0000000062	-.0000000155	0.0000000013	0.0000007991
PCB_18_30	0.0000000057	0.0000000048	0.0000000569	-.0000000010	-.0000020686
PCB_180_193	-.0000000609	-.0000000571	-.0000004016	0.0000000123	0.0000021302
PCB_183_185	-.0000000169	-.0000000205	-.0000000741	0.0000000058	0.0000003039
PCB_197_200	-.0000000013	-.0000000015	-.0000000091	0.0000000005	-.0000000861
PCB_198_199	-.0000000086	-.0000000091	-.0000000621	0.0000000025	-.0000001999
PCB_20_28	0.0000000141	0.0000000113	0.0000001638	-.0000000012	-.0000032227
PCB_21_33	0.0000000005	0.0000000004	0.0000000134	-.0000000001	-.0000003020
PCB_26_29	0.0000000135	0.0000000119	0.0000000714	-.0000000013	-.0000048756
PCB_40_41_71	0.0000000280	0.0000000202	0.0000001606	-.0000000004	-.0000067336
PCB_44_47_65	0.0000001002	0.0000000885	0.0000005172	-.0000000094	-.0000170624
PCB_45_51	0.0000000193	0.0000000182	0.0000001018	-.0000000018	-.0000050990
PCB_49_69	0.0000001197	0.0000000937	0.0000006868	-.0000000093	-.0000231284
PCB_50_53	0.0000000328	0.0000000282	0.0000001541	-.0000000027	-.0000098389
PCB_59_62_75	0.0000000126	0.0000000085	0.0000000708	-.0000000002	-.0000030789
PCB_61_70_74_76	-.0000000306	0.0000000001	-.0000003904	-.0000000066	0.0000048863
PCB_85_117_116	0.0000000054	0.0000000070	0.0000000412	-.0000000015	0.0000027869
PCB_86_87_97_108_119_125	0.0000000088	0.0000000348	-.0000002170	-.0000000101	0.0000080075

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_195	0.0000000023	0.0000000011	0.0000000011	0.0000000216	0.0000002434
PCB_196	0.0000000028	0.0000000016	0.0000000016	0.0000000273	0.0000002970
PCB_201	0.0000000011	0.0000000007	0.0000000007	0.0000000124	0.0000000971
PCB_202	0.0000000015	0.0000000011	0.0000000011	0.0000000169	0.0000001298
PCB_203	0.0000000058	0.0000000031	0.0000000031	0.0000000530	0.0000005582
PCB_204	0.0000000000	0.0000000000	0.0000000000	0.0000000002	0.0000000012
PCB_205	0.0000000003	0.0000000002	0.0000000002	0.0000000029	0.0000000318
PCB_206	0.0000000019	0.0000000014	0.0000000014	0.0000000185	0.0000001717
PCB_207	0.0000000003	0.0000000002	0.0000000002	0.0000000025	0.0000000229
PCB_208	0.0000000007	0.0000000005	0.0000000005	0.0000000064	0.0000000523
PCB_209	0.0000000008	0.0000000007	0.0000000007	0.0000000072	0.0000000492
PCB_12_13	-.0000000001	-.0000000000	-.0000000000	-.0000000011	-.0000000224
PCB_107_124	0.0000000019	-.0000000006	-.0000000006	-.0000000090	0.0000002515
PCB_110_115	-.0000000564	0.0000000052	0.0000000052	0.0000001741	-.0000002035
PCB_128_166	0.0000000133	-.0000000039	-.0000000039	0.0000000033	0.0000021423
PCB_129_138_163	0.0000001445	0.0000000067	0.0000000067	0.0000003406	0.0000185297
PCB_134_143	0.0000000007	-.0000000002	-.0000000002	0.0000000028	0.0000001051
PCB_135_151	0.0000000259	0.0000000101	0.0000000101	0.0000002628	0.0000016907
PCB_139_140	0.0000000026	-.0000000005	-.0000000005	0.0000000081	0.0000003030
PCB_147_149	0.0000000632	0.0000000267	0.0000000267	0.0000005608	0.0000070519
PCB_153_168	0.0000001017	0.0000000149	0.0000000149	0.0000004783	0.0000140372
PCB_156_157	0.0000000161	-.0000000054	-.0000000054	-.0000000585	0.0000021969
PCB_171_173	0.0000000063	0.0000000021	0.0000000021	0.0000000567	0.0000007701
PCB_18_30	-.0000000002	-.0000000015	-.0000000015	-.0000000759	-.0000008862
PCB_180_193	0.0000000343	0.0000000206	0.0000000206	0.0000003384	0.0000044810
PCB_183_185	0.0000000164	0.0000000088	0.0000000088	0.0000001934	0.0000018525
PCB_197_200	0.0000000011	0.0000000007	0.0000000007	0.0000000126	0.0000000994
PCB_198_199	0.0000000065	0.0000000039	0.0000000039	0.0000000584	0.0000006270
PCB_20_28	0.0000000048	-.0000000021	-.0000000021	-.0000000570	-.0000011801
PCB_21_33	0.0000000014	-.0000000001	-.0000000001	-.0000000093	-.0000000672
PCB_26_29	-.0000000131	-.0000000027	-.0000000027	-.0000001121	-.0000023294
PCB_40_41_71	-.0000000181	-.0000000028	-.0000000028	-.0000000648	-.0000031359
PCB_44_47_65	-.0000000684	-.0000000202	-.0000000202	-.0000004046	-.0000107217
PCB_45_51	-.0000000134	-.0000000037	-.0000000037	-.0000001115	-.0000026898
PCB_49_69	-.0000000963	-.0000000220	-.0000000220	-.0000004265	-.0000133024
PCB_50_53	-.0000000306	-.0000000060	-.0000000060	-.0000002153	-.0000049482
PCB_59_62_75	-.0000000098	-.0000000011	-.0000000011	-.0000000262	-.0000013838
PCB_61_70_74_76	0.0000000021	-.0000000060	-.0000000060	-.0000003558	0.0000000901
PCB_85_117_116	0.0000000034	-.0000000024	-.0000000024	0.0000000260	0.0000005783
PCB_86_87_97_108_119_125	-.0000000277	-.0000000147	-.0000000147	-.0000002430	-.0000010944

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_195	-.0000000035	0.0000000476	0.0000000038	0.0000007581	0.0000002443
PCB_196	-.0000000047	0.0000000408	0.0000000052	0.0000009794	0.0000003223
PCB_201	-.0000000010	-.0000000201	0.0000000023	0.0000003365	0.0000001297
PCB_202	-.0000000016	-.0000000417	0.0000000035	0.0000004854	0.0000001922
PCB_203	-.0000000076	0.0000000379	0.0000000101	0.0000017858	0.0000006155
PCB_204	-.0000000000	-.0000000004	0.0000000000	0.0000000044	0.0000000018
PCB_205	-.0000000004	0.0000000055	0.0000000005	0.0000000994	0.0000000326
PCB_206	-.0000000027	-.0000000343	0.0000000044	0.0000006546	0.0000002470
PCB_207	-.0000000004	-.0000000041	0.0000000006	0.0000000868	0.0000000325
PCB_208	-.0000000009	-.0000000249	0.0000000017	0.0000002191	0.0000000888
PCB_209	-.0000000010	-.0000000513	0.0000000022	0.0000002465	0.0000001105
PCB_12_13	0.0000000004	-.0000000213	-.0000000001	-.0000000661	-.0000000129
PCB_107_124	-.0000000109	0.0000004058	-.0000000018	0.0000006005	-.0000000069
PCB_110_115	-.0000000070	0.0000006165	0.0000000121	0.0000040894	0.0000005747
PCB_128_166	-.0000000513	0.0000032690	-.0000000119	0.0000048643	0.0000001365
PCB_129_138_163	-.0000003690	0.0000198046	0.0000000290	0.0000458497	0.0000068353
PCB_134_143	-.0000000015	0.0000001243	-.0000000006	0.0000001467	-.0000000051
PCB_135_151	0.0000000107	-.0000009138	0.0000000352	0.0000037333	0.0000019571
PCB_139_140	-.0000000036	0.0000003536	-.0000000014	0.0000005134	0.0000000284
PCB_147_149	-.0000000864	0.0000023397	0.0000000904	0.0000199892	0.0000060338
PCB_153_168	-.0000002032	0.0000124968	0.0000000546	0.0000355824	0.0000068429
PCB_156_157	-.0000000651	0.0000034003	-.0000000158	0.0000046916	-.0000000302
PCB_171_173	-.0000000103	0.0000004197	0.0000000073	0.0000021452	0.0000005635
PCB_18_30	0.0000000114	-.0000010048	-.0000000043	-.0000027917	-.0000004794
PCB_180_193	-.0000000885	0.0000016755	0.0000000674	0.0000152201	0.0000044073
PCB_183_185	-.0000000175	0.0000003273	0.0000000293	0.0000056464	0.0000018676
PCB_197_200	-.0000000012	-.0000000229	0.0000000024	0.0000003511	0.0000001353
PCB_198_199	-.0000000111	0.0000000229	0.0000000128	0.0000021852	0.0000007509
PCB_20_28	0.0000000205	-.0000017207	-.0000000050	-.0000043588	-.0000006383
PCB_21_33	-.0000000004	-.0000001519	-.0000000000	-.0000003003	-.0000000295
PCB_26_29	0.0000000411	-.0000023857	-.0000000087	-.0000063836	-.0000010965
PCB_40_41_71	0.0000000817	-.0000033718	-.0000000098	-.0000089088	-.0000013817
PCB_44_47_65	0.0000002256	-.0000089786	-.0000000687	-.0000309639	-.0000063266
PCB_45_51	0.0000000481	-.0000025832	-.0000000124	-.0000074864	-.0000013602
PCB_49_69	0.0000003430	-.0000117701	-.0000000764	-.0000380490	-.0000072239
PCB_50_53	0.0000000932	-.0000048603	-.0000000201	-.0000135846	-.0000024165
PCB_59_62_75	0.0000000362	-.0000015453	-.0000000039	-.0000039745	-.0000006194
PCB_61_70_74_76	-.0000001339	0.0000025092	-.0000000203	0.0000021811	-.0000009630
PCB_85_117_116	-.0000000122	0.0000011542	-.0000000078	0.0000009815	-.0000001910
PCB_86_87_97_108_119_125	-.0000000637	0.0000034244	-.0000000523	-.0000018720	-.0000026701

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_195	0.0000010543	0.0000000587	0.0000001595	0.0000007274	0.0000003672
PCB_196	0.0000014158	0.0000000777	0.0000002121	0.0000009685	0.0000004945
PCB_201	0.0000005995	0.0000000321	0.0000000898	0.0000004087	0.0000002171
PCB_202	0.0000009068	0.0000000478	0.0000001343	0.0000006133	0.0000003301
PCB_203	0.0000027266	0.0000001495	0.0000004105	0.0000018729	0.0000009644
PCB_204	0.0000000085	0.0000000004	0.0000000013	0.0000000057	0.0000000031
PCB_205	0.0000001409	0.0000000078	0.0000000213	0.0000000973	0.0000000493
PCB_206	0.0000011509	0.0000000608	0.0000001692	0.0000007758	0.0000004151
PCB_207	0.0000001512	0.0000000080	0.0000000222	0.0000001019	0.0000000545
PCB_208	0.0000004256	0.0000000221	0.0000000621	0.0000002848	0.0000001548
PCB_209	0.0000005465	0.0000000278	0.0000000790	0.0000003623	0.0000002005
PCB_12_13	-.0000000432	-.0000000027	-.0000000066	-.0000000309	-.0000000136
PCB_107_124	-.0000003196	-.0000000097	-.0000000453	-.0000001997	-.0000001743
PCB_110_115	0.0000035882	0.0000001257	0.0000003652	0.0000018196	0.0000009858
PCB_128_166	-.0000019826	-.0000000305	-.0000002380	-.0000010457	-.0000010126
PCB_129_138_163	0.0000149018	0.0000012795	0.0000025639	0.0000122382	0.0000033868
PCB_134_143	-.0000001103	-.0000000028	-.0000000119	-.0000000526	-.0000000512
PCB_135_151	0.0000091407	0.0000005067	0.0000014530	0.0000065118	0.0000034335
PCB_139_140	-.0000002066	0.0000000008	-.0000000149	-.0000000729	-.0000001034
PCB_147_149	0.0000251490	0.0000014351	0.0000038561	0.0000176347	0.0000087093
PCB_153_168	0.0000199991	0.0000014186	0.0000032631	0.0000152373	0.0000058866
PCB_156_157	-.0000028533	-.0000000751	-.0000003749	-.0000016455	-.0000014308
PCB_171_173	0.0000021508	0.0000001296	0.0000003369	0.0000015324	0.0000007239
PCB_18_30	-.0000014865	-.0000000980	-.0000002310	-.0000010686	-.0000004672
PCB_180_193	0.0000187088	0.0000010366	0.0000027740	0.0000127335	0.0000063730
PCB_183_185	0.0000080361	0.0000004507	0.0000012290	0.0000055849	0.0000028444
PCB_197_200	0.0000006277	0.0000000335	0.0000000938	0.0000004268	0.0000002266
PCB_198_199	0.0000033965	0.0000001826	0.0000005030	0.0000023040	0.0000012016
PCB_20_28	-.0000018543	-.0000001187	-.0000002514	-.0000012534	-.0000005266
PCB_21_33	-.0000000479	-.0000000041	-.0000000056	-.0000000326	-.0000000149
PCB_26_29	-.0000031447	-.0000002220	-.0000005065	-.0000023543	-.0000009212
PCB_40_41_71	-.0000038449	-.0000002690	-.0000005840	-.0000027832	-.0000009314
PCB_44_47_65	-.0000218843	-.0000013611	-.0000033188	-.0000154901	-.0000066195
PCB_45_51	-.0000042628	-.0000002819	-.0000006600	-.0000031060	-.0000012469
PCB_49_69	-.0000244440	-.0000015332	-.0000036992	-.0000172637	-.0000071116
PCB_50_53	-.0000071578	-.0000004949	-.0000011414	-.0000053012	-.0000020858
PCB_59_62_75	-.0000016008	-.0000001184	-.0000002497	-.0000011767	-.0000003968
PCB_61_70_74_76	-.0000051416	-.0000002957	-.0000009311	-.0000040107	-.0000024237
PCB_85_117_116	-.0000017503	-.0000000656	-.0000002233	-.0000010513	-.0000006719
PCB_86_87_97_108_119_125	-.0000135395	-.0000007203	-.0000021041	-.0000095134	-.0000051144

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_195	0.0000005265	0.0000000030	0.0000000053	0.0000000015	0.0000000008
PCB_196	0.0000007103	0.0000000026	0.0000000069	0.0000000020	0.0000000011
PCB_201	0.0000003127	-.0000000009	0.0000000026	0.0000000009	0.0000000005
PCB_202	0.0000004759	-.0000000023	0.0000000038	0.0000000013	0.0000000007
PCB_203	0.0000013853	0.0000000031	0.0000000130	0.0000000039	0.0000000022
PCB_204	0.0000000045	-.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_205	0.0000000707	0.0000000004	0.0000000007	0.0000000002	0.0000000001
PCB_206	0.0000005971	-.0000000020	0.0000000049	0.0000000017	0.0000000009
PCB_207	0.0000000784	-.0000000002	0.0000000007	0.0000000002	0.0000000001
PCB_208	0.0000002233	-.0000000014	0.0000000017	0.0000000006	0.0000000003
PCB_209	0.0000002901	-.0000000029	0.0000000020	0.0000000008	0.0000000004
PCB_12_13	-.0000000183	-.0000000011	-.0000000004	-.0000000001	-.0000000000
PCB_107_124	-.0000002550	0.0000000220	0.0000000024	-.0000000004	-.0000000002
PCB_110_115	0.0000013951	-.0000000200	0.0000000137	0.0000000013	0.0000000036
PCB_128_166	-.0000015911	0.0000001769	0.0000000221	-.0000000016	-.0000000012
PCB_129_138_163	0.0000039788	0.0000010811	0.0000002575	0.0000000287	0.0000000130
PCB_134_143	-.0000000767	0.0000000069	0.0000000007	-.0000000001	-.0000000001
PCB_135_151	0.0000049721	-.0000000315	0.0000000357	0.0000000136	0.0000000070
PCB_139_140	-.0000001643	0.0000000208	0.0000000026	-.0000000001	-.0000000002
PCB_147_149	0.0000124144	0.0000001390	0.0000001385	0.0000000366	0.0000000199
PCB_153_168	0.0000077698	0.0000006893	0.0000002093	0.0000000321	0.0000000157
PCB_156_157	-.0000021644	0.0000001869	0.0000000196	-.0000000033	-.0000000022
PCB_171_173	0.0000010210	0.0000000243	0.0000000139	0.0000000032	0.0000000017
PCB_18_30	-.0000006098	-.0000000486	-.0000000155	-.0000000024	-.0000000015
PCB_180_193	0.0000091082	0.0000000865	0.0000001004	0.0000000264	0.0000000151
PCB_183_185	0.0000040640	0.0000000215	0.0000000401	0.0000000117	0.0000000064
PCB_197_200	0.0000003267	-.0000000011	0.0000000027	0.0000000009	0.0000000005
PCB_198_199	0.0000017291	0.0000000013	0.0000000158	0.0000000049	0.0000000027
PCB_20_28	-.0000006342	-.0000000768	-.0000000224	-.0000000028	-.0000000020
PCB_21_33	-.0000000065	-.0000000062	-.0000000014	-.0000000001	-.0000000001
PCB_26_29	-.0000012079	-.0000001255	-.0000000366	-.0000000054	-.0000000029
PCB_40_41_71	-.0000012283	-.0000001760	-.0000000486	-.0000000058	-.0000000033
PCB_44_47_65	-.0000091688	-.0000004733	-.0000001825	-.0000000318	-.0000000177
PCB_45_51	-.0000016693	-.0000001336	-.0000000430	-.0000000065	-.0000000036
PCB_49_69	-.0000099347	-.0000006242	-.0000002225	-.0000000363	-.0000000204
PCB_50_53	-.0000027778	-.0000002585	-.0000000781	-.0000000117	-.0000000063
PCB_59_62_75	-.0000005103	-.0000000824	-.0000000218	-.0000000027	-.0000000015
PCB_61_70_74_76	-.0000033941	0.0000001165	-.0000000007	-.0000000079	-.0000000036
PCB_85_117_116	-.0000010101	0.0000000631	0.0000000034	-.0000000016	-.0000000010
PCB_86_87_97_108_119_125	-.0000074247	0.0000001538	-.0000000316	-.0000000180	-.0000000089

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_195	0.0000039893	0.0000000019	0.0000000219	0.0000001780	0.0000000442
PCB_196	0.0000053394	0.0000000025	0.0000000263	0.0000002379	0.0000000575
PCB_201	0.0000023146	0.0000000011	0.0000000069	0.0000000927	0.0000000217
PCB_202	0.0000034984	0.0000000017	0.0000000085	0.0000001378	0.0000000315
PCB_203	0.0000104324	0.0000000050	0.0000000470	0.0000004416	0.0000001082
PCB_204	0.0000000329	0.0000000000	0.0000000001	0.0000000013	0.0000000003
PCB_205	0.0000005363	0.0000000003	0.0000000028	0.0000000235	0.0000000059
PCB_206	0.0000044197	0.0000000022	0.0000000127	0.0000001779	0.0000000410
PCB_207	0.0000005791	0.0000000003	0.0000000017	0.0000000235	0.0000000054
PCB_208	0.0000016395	0.0000000008	0.0000000033	0.0000000642	0.0000000143
PCB_209	0.0000021135	0.0000000011	0.0000000022	0.0000000802	0.0000000171
PCB_12_13	-.0000001490	-.0000000001	-.0000000025	-.0000000094	-.0000000028
PCB_107_124	-.0000017032	-.0000000008	0.0000000349	0.0000000046	0.0000000125
PCB_110_115	0.0000052591	0.0000000035	0.0000000038	0.0000013246	0.0000001207
PCB_128_166	-.0000094955	-.0000000043	0.0000002878	0.0000000048	0.0000001245
PCB_129_138_163	0.0000478219	0.0000000230	0.0000022088	0.0000042222	0.0000017975
PCB_134_143	-.0000004885	-.0000000003	0.0000000111	-.0000000066	0.0000000034
PCB_135_151	0.0000375491	0.0000000175	0.0000000874	0.0000012370	0.0000003175
PCB_139_140	-.0000008045	-.0000000005	0.0000000367	-.0000000052	0.0000000171
PCB_147_149	0.0000954790	0.0000000452	0.0000006476	0.0000042837	0.0000011284
PCB_153_168	0.0000722374	0.0000000326	0.0000016255	0.0000045054	0.0000015892
PCB_156_157	-.0000133056	-.0000000068	0.0000003050	-.0000000709	0.0000001068
PCB_171_173	0.0000080443	0.0000000038	0.0000000784	0.0000003947	0.0000001121
PCB_18_30	-.0000046658	-.0000000027	-.0000001026	-.0000003693	-.0000001106
PCB_180_193	0.0000686501	0.0000000330	0.0000004392	0.0000033481	0.0000008183
PCB_183_185	0.0000307782	0.0000000147	0.0000001621	0.0000013290	0.0000003357
PCB_197_200	0.0000024146	0.0000000012	0.0000000071	0.0000000978	0.0000000226
PCB_198_199	0.0000128673	0.0000000063	0.0000000516	0.0000005493	0.0000001301
PCB_20_28	-.0000050053	-.0000000033	-.0000001563	-.0000005474	-.0000001543
PCB_21_33	-.0000000138	-.0000000001	-.0000000099	-.0000000279	-.0000000083
PCB_26_29	-.0000104072	-.0000000055	-.0000002680	-.0000007553	-.0000002608
PCB_40_41_71	-.0000110596	-.0000000054	-.0000003782	-.0000010865	-.0000003469
PCB_44_47_65	-.0000747745	-.0000000352	-.0000012131	-.0000047927	-.0000013879
PCB_45_51	-.0000140924	-.0000000069	-.0000003082	-.0000010134	-.0000003157
PCB_49_69	-.0000801959	-.0000000388	-.0000014910	-.0000055255	-.0000016314
PCB_50_53	-.0000239088	-.0000000120	-.0000005708	-.0000016932	-.0000005676
PCB_59_62_75	-.0000048604	-.0000000025	-.0000001716	-.0000004369	-.0000001545
PCB_61_70_74_76	-.0000263577	-.0000000117	0.0000001029	-.0000003596	-.0000000938
PCB_85_117_116	-.0000071611	-.0000000029	0.0000000753	-.0000002147	-.0000000005
PCB_86_87_97_108_119_125	-.0000576525	-.0000000244	-.0000000001	-.0000017691	-.0000003830

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_195	0.0000000011	0.0000002788	0.0000001482	0.0000001971	0.0000000811
PCB_196	0.0000000016	0.0000003701	0.0000001971	0.0000002637	0.0000001094
PCB_201	0.0000000007	0.0000001484	0.0000000811	0.0000001094	0.0000000476
PCB_202	0.0000000011	0.0000002214	0.0000001211	0.0000001643	0.0000000723
PCB_203	0.0000000030	0.0000007030	0.0000003776	0.0000005045	0.0000002124
PCB_204	0.0000000000	0.0000000021	0.0000000011	0.0000000015	0.0000000007
PCB_205	0.0000000002	0.0000000371	0.0000000198	0.0000000263	0.0000000109
PCB_206	0.0000000014	0.0000002855	0.0000001544	0.0000002098	0.0000000912
PCB_207	0.0000000002	0.0000000375	0.0000000203	0.0000000276	0.0000000120
PCB_208	0.0000000005	0.0000001032	0.0000000563	0.0000000770	0.0000000340
PCB_209	0.0000000007	0.0000001293	0.0000000712	0.0000000981	0.0000000441
PCB_12_13	-.0000000000	-.0000000144	-.0000000067	-.0000000087	-.0000000030
PCB_107_124	-.0000000006	-.0000000162	-.0000000268	-.0000000434	-.0000000357
PCB_110_115	0.0000000048	0.0000010813	0.0000004551	0.0000007107	0.0000002336
PCB_128_166	-.0000000037	-.0000000000	-.0000001311	-.0000002449	-.0000002169
PCB_129_138_163	0.0000000081	0.0000070113	0.0000029478	0.0000034705	0.0000007790
PCB_134_143	-.0000000002	-.0000000092	-.0000000088	-.0000000175	-.0000000115
PCB_135_151	0.0000000102	0.0000021685	0.0000012529	0.0000016378	0.0000007404
PCB_139_140	-.0000000005	0.0000000067	-.0000000070	-.0000000238	-.0000000229
PCB_147_149	0.0000000269	0.0000068346	0.0000035984	0.0000047232	0.0000019147
PCB_153_168	0.0000000162	0.0000073417	0.0000034161	0.0000042225	0.0000013147
PCB_156_157	-.0000000051	-.0000001564	-.0000002289	-.0000003894	-.0000003010
PCB_171_173	0.0000000022	0.0000006214	0.0000003197	0.0000004158	0.0000001599
PCB_18_30	-.0000000016	-.0000005192	-.0000002350	-.0000003078	-.0000001015
PCB_180_193	0.0000000205	0.0000050812	0.0000026364	0.0000035331	0.0000014177
PCB_183_185	0.0000000088	0.0000021082	0.0000011289	0.0000014987	0.0000006241
PCB_197_200	0.0000000007	0.0000001554	0.0000000849	0.0000001146	0.0000000497
PCB_198_199	0.0000000039	0.0000008663	0.0000004638	0.0000006251	0.0000002650
PCB_20_28	-.0000000022	-.0000007367	-.0000002978	-.0000004023	-.0000001171
PCB_21_33	-.0000000001	-.0000000317	-.0000000089	-.0000000134	-.0000000026
PCB_26_29	-.0000000028	-.0000011612	-.0000005261	-.0000006625	-.0000002040
PCB_40_41_71	-.0000000029	-.0000015435	-.0000006674	-.0000008399	-.0000002206
PCB_44_47_65	-.0000000205	-.0000071619	-.0000034140	-.0000044065	-.0000014961
PCB_45_51	-.0000000039	-.0000015163	-.0000006953	-.0000008818	-.0000002791
PCB_49_69	-.0000000221	-.0000081422	-.0000038325	-.0000049329	-.0000016220
PCB_50_53	-.0000000062	-.0000025898	-.0000011877	-.0000015002	-.0000004669
PCB_59_62_75	-.0000000012	-.0000006554	-.0000002823	-.0000003568	-.0000000937
PCB_61_70_74_76	-.0000000065	-.0000009575	-.0000006899	-.0000008781	-.0000004907
PCB_85_117_116	-.0000000023	-.0000003181	-.0000002020	-.0000002943	-.0000001511
PCB_86_87_97_108_119_125	-.0000000150	-.0000031300	-.0000018514	-.0000024301	-.0000011143

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_195	0.0000001211	0.0000003776	0.0000000011	0.0000000198	0.0000001544
PCB_196	0.0000001643	0.0000005045	0.0000000015	0.0000000263	0.0000002098
PCB_201	0.0000000723	0.0000002124	0.0000000007	0.0000000109	0.0000000912
PCB_202	0.0000001111	0.0000003197	0.0000000010	0.0000000163	0.0000001404
PCB_203	0.0000003197	0.0000009749	0.0000000030	0.0000000505	0.0000004070
PCB_204	0.0000000010	0.0000000030	0.0000000000	0.0000000002	0.0000000013
PCB_205	0.0000000163	0.0000000505	0.0000000002	0.0000000026	0.0000000208
PCB_206	0.0000001404	0.0000004070	0.0000000013	0.0000000208	0.0000001791
PCB_207	0.0000000184	0.0000000534	0.0000000002	0.0000000027	0.0000000235
PCB_208	0.0000000527	0.0000001499	0.0000000005	0.0000000076	0.0000000671
PCB_209	0.0000000686	0.0000001917	0.0000000007	0.0000000096	0.0000000874
PCB_12_13	-.0000000045	-.0000000156	-.0000000000	-.0000000009	-.0000000060
PCB_107_124	-.0000000573	-.0000001075	-.0000000006	-.0000000044	-.0000000670
PCB_110_115	0.0000004044	0.0000008183	0.0000000037	0.0000000512	0.0000004593
PCB_128_166	-.0000003597	-.0000006085	-.0000000035	-.0000000209	-.0000004085
PCB_129_138_163	0.0000009944	0.0000061040	0.0000000083	0.0000003772	0.0000016211
PCB_134_143	-.0000000192	-.0000000355	-.0000000002	-.0000000015	-.0000000258
PCB_135_151	0.0000010912	0.0000033235	0.0000000102	0.0000001690	0.0000013334
PCB_139_140	-.0000000434	-.0000000502	-.0000000004	-.0000000012	-.0000000521
PCB_147_149	0.0000028450	0.0000090797	0.0000000265	0.0000004784	0.0000036222
PCB_153_168	0.0000017996	0.0000077673	0.0000000161	0.0000004502	0.0000025384
PCB_156_157	-.0000004962	-.0000008892	-.0000000049	-.0000000348	-.0000005698
PCB_171_173	0.0000002320	0.0000007846	0.0000000021	0.0000000424	0.0000002992
PCB_18_30	-.0000001522	-.0000005074	-.0000000014	-.0000000300	-.0000001972
PCB_180_193	0.0000021370	0.0000066395	0.0000000200	0.0000003501	0.0000027571
PCB_183_185	0.0000009293	0.0000028797	0.0000000087	0.0000001510	0.0000011777
PCB_197_200	0.0000000756	0.0000002221	0.0000000007	0.0000000114	0.0000000954
PCB_198_199	0.0000004043	0.0000012036	0.0000000038	0.0000000620	0.0000005155
PCB_20_28	-.0000001916	-.0000006139	-.0000000018	-.0000000379	-.0000002736
PCB_21_33	-.0000000058	-.0000000086	-.0000000001	-.0000000010	-.0000000084
PCB_26_29	-.0000002929	-.0000011573	-.0000000026	-.0000000677	-.0000003995
PCB_40_41_71	-.0000003146	-.0000014107	-.0000000028	-.0000000840	-.0000004558
PCB_44_47_65	-.0000021891	-.0000079679	-.0000000200	-.0000004443	-.0000029425
PCB_45_51	-.0000004058	-.0000015562	-.0000000037	-.0000000895	-.0000005497
PCB_49_69	-.0000023932	-.0000088310	-.0000000218	-.0000004914	-.0000032072
PCB_50_53	-.0000006662	-.0000026476	-.0000000060	-.0000001534	-.0000009125
PCB_59_62_75	-.0000001317	-.0000006055	-.0000000012	-.0000000362	-.0000002007
PCB_61_70_74_76	-.0000006749	-.0000019529	-.0000000063	-.0000001006	-.0000007700
PCB_85_117_116	-.0000002371	-.0000006094	-.0000000023	-.0000000286	-.0000003033
PCB_86_87_97_108_119_125	-.0000016155	-.0000050345	-.0000000151	-.0000002558	-.0000020232

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_195	0.0000000203	0.0000000563	0.0000000712	-.0000000067	-.0000000268
PCB_196	0.0000000276	0.0000000770	0.0000000981	-.0000000087	-.0000000434
PCB_201	0.0000000120	0.0000000340	0.0000000441	-.0000000030	-.0000000357
PCB_202	0.0000000184	0.0000000527	0.0000000686	-.0000000045	-.0000000573
PCB_203	0.0000000534	0.0000001499	0.0000001917	-.0000000156	-.0000001075
PCB_204	0.0000000002	0.0000000005	0.0000000007	-.0000000000	-.0000000006
PCB_205	0.0000000027	0.0000000076	0.0000000096	-.0000000009	-.0000000044
PCB_206	0.0000000235	0.0000000671	0.0000000874	-.0000000060	-.0000000670
PCB_207	0.0000000031	0.0000000088	0.0000000114	-.0000000008	-.0000000084
PCB_208	0.0000000088	0.0000000253	0.0000000333	-.0000000020	-.0000000294
PCB_209	0.0000000114	0.0000000333	0.0000000443	-.0000000021	-.0000000457
PCB_12_13	-.0000000008	-.0000000020	-.0000000021	0.0000000008	-.0000000066
PCB_107_124	-.0000000084	-.0000000294	-.0000000457	-.0000000066	0.0000002350
PCB_110_115	0.0000000686	0.0000001618	0.0000001666	-.0000001003	0.0000004358
PCB_128_166	-.0000000519	-.0000001896	-.0000003074	-.0000000610	0.0000015320
PCB_129_138_163	0.0000002197	0.0000003640	0.0000000817	-.0000005062	0.0000076749
PCB_134_143	-.0000000032	-.0000000114	-.0000000185	-.0000000023	0.0000000672
PCB_135_151	0.0000001743	0.0000004963	0.0000006412	-.0000000197	-.0000008804
PCB_139_140	-.0000000067	-.0000000245	-.0000000396	-.0000000050	0.0000001501
PCB_147_149	0.0000004770	0.0000013031	0.0000016101	-.0000001886	-.0000001851
PCB_153_168	0.0000003356	0.0000007728	0.0000007420	-.0000003702	0.0000037427
PCB_156_157	-.0000000732	-.0000002521	-.0000003898	-.0000000519	0.0000016940
PCB_171_173	0.0000000395	0.0000001045	0.0000001250	-.0000000204	0.0000000718
PCB_18_30	-.0000000272	-.0000000614	-.0000000562	0.0000000399	-.0000003584
PCB_180_193	0.0000003634	0.0000010009	0.0000012572	-.0000001476	-.0000000249
PCB_183_185	0.0000001548	0.0000004291	0.0000005416	-.0000000517	-.0000002651
PCB_197_200	0.0000000125	0.0000000356	0.0000000462	-.0000000031	-.0000000372
PCB_198_199	0.0000000677	0.0000001911	0.0000002458	-.0000000201	-.0000001269
PCB_20_28	-.0000000377	-.0000000842	-.0000000748	0.0000000680	-.0000005939
PCB_21_33	-.0000000013	-.0000000016	0.0000000012	0.0000000064	-.0000000499
PCB_26_29	-.0000000542	-.0000001198	-.0000001043	0.0000000773	-.0000008883
PCB_40_41_71	-.0000000625	-.0000001299	-.0000000994	0.0000001016	-.0000014342
PCB_44_47_65	-.0000003924	-.0000009790	-.0000010745	0.0000003322	-.0000030483
PCB_45_51	-.0000000742	-.0000001719	-.0000001644	0.0000000895	-.0000009190
PCB_49_69	-.0000004313	-.0000010529	-.0000011101	0.0000004104	-.0000048613
PCB_50_53	-.0000001231	-.0000002796	-.0000002601	0.0000001560	-.0000017930
PCB_59_62_75	-.0000000270	-.0000000573	-.0000000473	0.0000000433	-.0000006258
PCB_61_70_74_76	-.0000000982	-.0000002938	-.0000004036	-.0000000334	0.0000021185
PCB_85_117_116	-.0000000387	-.0000001251	-.0000001861	-.0000000184	0.0000006359
PCB_86_87_97_108_119_125	-.0000002600	-.0000007681	-.0000010436	-.0000000362	0.0000026677

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_195	0.0000004551	-.0000001311	0.0000029478	-.0000000088	0.0000012529
PCB_196	0.0000007107	-.0000002449	0.0000034705	-.0000000175	0.0000016378
PCB_201	0.0000002336	-.0000002169	0.0000007790	-.0000000115	0.0000007404
PCB_202	0.0000004044	-.0000003597	0.0000009944	-.0000000192	0.0000010912
PCB_203	0.0000008183	-.0000006085	0.0000061040	-.0000000355	0.0000033235
PCB_204	0.0000000037	-.0000000035	0.0000000083	-.0000000002	0.0000000102
PCB_205	0.0000000512	-.0000000209	0.0000003772	-.0000000015	0.0000001690
PCB_206	0.0000004593	-.0000004085	0.0000016211	-.0000000258	0.0000013334
PCB_207	0.0000000686	-.0000000519	0.0000002197	-.0000000032	0.0000001743
PCB_208	0.0000001618	-.0000001896	0.0000003640	-.0000000114	0.0000004963
PCB_209	0.0000001666	-.0000003074	0.0000000817	-.0000000185	0.0000006412
PCB_12_13	-.0000001003	-.0000000610	-.0000005062	-.0000000023	-.0000000197
PCB_107_124	0.0000004358	0.0000015320	0.0000076749	0.0000000672	-.0000008804
PCB_110_115	0.0000614212	0.0000014510	0.0000055216	0.0000002420	-.0000057681
PCB_128_166	0.0000014510	0.0000119583	0.0000626867	0.0000004517	-.0000056505
PCB_129_138_163	0.0000055216	0.0000626867	0.0004368864	0.0000024601	0.0000018301
PCB_134_143	0.0000002420	0.0000004517	0.0000024601	0.0000000379	-.0000001141
PCB_135_151	-.0000057681	-.0000056505	0.0000018301	-.0000001141	0.0000157046
PCB_139_140	-.0000008166	0.0000012293	0.0000068802	0.0000000577	-.0000002075
PCB_147_149	0.0000111716	0.0000006848	0.0000969194	0.0000001216	0.0000305914
PCB_153_168	0.0000055234	0.0000344248	0.0002895549	0.0000012731	0.0000162450
PCB_156_157	-.0000011556	0.0000122984	0.0000638271	0.0000005065	-.0000063558
PCB_171_173	0.0000009359	0.0000008361	0.0000124127	0.0000000216	0.0000023781
PCB_18_30	-.0000076123	-.0000032835	-.0000220269	-.0000001154	0.0000002038
PCB_180_193	0.0000166017	0.0000007328	0.0000673497	-.0000001208	0.0000185980
PCB_183_185	0.0000035587	-.0000010557	0.0000216371	-.0000000737	0.0000097933
PCB_197_200	0.0000002570	-.0000002344	0.0000007663	-.0000000126	0.0000007701
PCB_198_199	0.0000016934	-.0000007842	0.0000072019	-.0000000485	0.0000038837
PCB_20_28	-.0000144204	-.0000054663	-.0000360012	-.0000001671	0.0000021631
PCB_21_33	-.0000017669	-.0000005442	-.0000028428	-.0000000155	0.0000004044
PCB_26_29	-.0000073523	-.0000075556	-.0000540191	-.0000002830	-.0000008350
PCB_40_41_71	-.0000110771	-.0000105231	-.0000747553	-.0000004298	0.0000001442
PCB_44_47_65	-.0000324275	-.0000239268	-.0002200414	-.0000009550	-.0000148358
PCB_45_51	-.0000105133	-.0000075347	-.0000595583	-.0000003352	-.0000018669
PCB_49_69	-.0000406762	-.0000345039	-.0002862614	-.0000015204	-.0000137839
PCB_50_53	-.0000130059	-.0000149648	-.0001112713	-.0000005472	-.0000028674
PCB_59_62_75	-.0000022762	-.0000049657	-.0000341457	-.0000001380	0.0000002282
PCB_61_70_74_76	0.0000093028	0.0000111906	0.0000434247	0.0000004128	-.0000145136
PCB_85_117_116	0.0000008539	0.0000050019	0.0000208129	0.0000002032	-.0000031843
PCB_86_87_97_108_119_125	0.0000198177	0.0000180813	0.0000435834	0.0000006376	-.0000268480

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_195	-.0000000070	0.0000035984	0.0000034161	-.0000002289	0.0000003197
PCB_196	-.0000000238	0.0000047232	0.0000042225	-.0000003894	0.0000004158
PCB_201	-.0000000229	0.0000019147	0.0000013147	-.0000003010	0.0000001599
PCB_202	-.0000000434	0.0000028450	0.0000017996	-.0000004962	0.0000002320
PCB_203	-.0000000502	0.0000090797	0.0000077673	-.0000008892	0.0000007846
PCB_204	-.0000000004	0.0000000265	0.0000000161	-.0000000049	0.0000000021
PCB_205	-.0000000012	0.0000004784	0.0000004502	-.0000000348	0.0000000424
PCB_206	-.0000000521	0.0000036222	0.0000025384	-.0000005698	0.0000002992
PCB_207	-.0000000067	0.0000004770	0.0000003356	-.0000000732	0.0000000395
PCB_208	-.0000000245	0.0000013031	0.0000007728	-.0000002521	0.0000001045
PCB_209	-.0000000396	0.0000016101	0.0000007420	-.0000003898	0.0000001250
PCB_12_13	-.0000000050	-.0000001886	-.0000003702	-.0000000519	-.0000000204
PCB_107_124	0.0000001501	-.0000001851	0.0000037427	0.0000016940	0.0000000718
PCB_110_115	-.0000008166	0.0000111716	0.0000055234	-.0000011556	0.0000009359
PCB_128_166	0.0000012293	0.0000006848	0.0000344248	0.0000122984	0.0000008361
PCB_129_138_163	0.0000068802	0.0000969194	0.0002895549	0.0000638271	0.0000124127
PCB_134_143	0.0000000577	0.0000001216	0.0000012731	0.0000005065	0.0000000216
PCB_135_151	-.0000002075	0.0000305914	0.0000162450	-.0000063558	0.0000023781
PCB_139_140	0.0000001703	0.0000003795	0.0000042345	0.0000013452	0.0000001175
PCB_147_149	0.0000003795	0.0000909221	0.0000983944	-.0000013766	0.0000081325
PCB_153_168	0.0000042345	0.0000983944	0.0002197583	0.0000344675	0.0000111111
PCB_156_157	0.0000013452	-.0000013766	0.0000344675	0.0000135324	0.0000006351
PCB_171_173	0.0000001175	0.0000081325	0.0000111111	0.0000006351	0.0000008093
PCB_18_30	-.0000002216	-.0000067451	-.0000149229	-.0000025464	-.0000008257
PCB_180_193	-.0000000918	0.0000638935	0.0000678271	-.0000013419	0.0000058764
PCB_183_185	-.0000000460	0.0000274375	0.0000258318	-.0000020481	0.0000024571
PCB_197_200	-.0000000251	0.0000019956	0.0000013450	-.0000003188	0.0000001664
PCB_198_199	-.0000000995	0.0000110764	0.0000089708	-.0000011840	0.0000009426
PCB_20_28	-.0000002716	-.0000088711	-.0000239327	-.0000043303	-.0000011152
PCB_21_33	-.0000000196	-.0000003619	-.0000017118	-.0000003633	-.0000000681
PCB_26_29	-.0000007067	-.0000155583	-.0000366645	-.0000068893	-.0000018717
PCB_40_41_71	-.0000009598	-.0000199685	-.0000496327	-.0000105277	-.0000023893
PCB_44_47_65	-.0000023237	-.0000927622	-.0001668842	-.0000229447	-.0000097112
PCB_45_51	-.0000007100	-.0000202623	-.0000425888	-.0000070659	-.0000022253
PCB_49_69	-.0000031799	-.0001067259	-.0002000265	-.0000339442	-.0000113716
PCB_50_53	-.0000014539	-.0000342468	-.0000773186	-.0000139785	-.0000040374
PCB_59_62_75	-.0000004606	-.0000081210	-.0000225233	-.0000048556	-.0000010754
PCB_61_70_74_76	0.0000005167	-.0000152771	0.0000068440	0.0000128779	-.0000009461
PCB_85_117_116	0.0000004846	-.0000033559	0.0000081988	0.0000048203	0.0000000255
PCB_86_87_97_108_119_125	0.0000009575	-.0000420157	-.0000073731	0.0000175265	-.0000027536

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_195	-.0000002350	0.0000026364	0.0000011289	0.0000000849	0.0000004638
PCB_196	-.0000003078	0.0000035331	0.0000014987	0.0000001146	0.0000006251
PCB_201	-.0000001015	0.0000014177	0.0000006241	0.0000000497	0.0000002650
PCB_202	-.0000001522	0.0000021370	0.0000009293	0.0000000756	0.0000004043
PCB_203	-.0000005074	0.0000066395	0.0000028797	0.0000002221	0.0000012036
PCB_204	-.0000000014	0.0000000200	0.0000000087	0.0000000007	0.0000000038
PCB_205	-.0000000300	0.0000003501	0.0000001510	0.0000000114	0.0000000620
PCB_206	-.0000001972	0.0000027571	0.0000011777	0.0000000954	0.0000005155
PCB_207	-.0000000272	0.0000003634	0.0000001548	0.0000000125	0.0000000677
PCB_208	-.0000000614	0.0000010009	0.0000004291	0.0000000356	0.0000001911
PCB_209	-.0000000562	0.0000012572	0.0000005416	0.0000000462	0.0000002458
PCB_12_13	0.0000000399	-.0000001476	-.0000000517	-.0000000031	-.0000000201
PCB_107_124	-.0000003584	-.0000000249	-.0000002651	-.0000000372	-.0000001269
PCB_110_115	-.0000076123	0.0000166017	0.0000035587	0.0000002570	0.0000016934
PCB_128_166	-.0000032835	0.0000007328	-.0000010557	-.0000002344	-.0000007842
PCB_129_138_163	-.0000220269	0.0000673497	0.0000216371	0.0000007663	0.0000072019
PCB_134_143	-.0000001154	-.0000001208	-.0000000737	-.0000000126	-.0000000485
PCB_135_151	0.0000002038	0.0000185980	0.0000097933	0.0000007701	0.0000038837
PCB_139_140	-.0000002216	-.0000000918	-.0000000460	-.0000000251	-.0000000995
PCB_147_149	-.0000067451	0.0000638935	0.0000274375	0.0000019956	0.0000110764
PCB_153_168	-.0000149229	0.0000678271	0.0000258318	0.0000013450	0.0000089708
PCB_156_157	-.0000025464	-.0000013419	-.0000020481	-.0000003188	-.0000011840
PCB_171_173	-.0000008257	0.0000058764	0.0000024571	0.0000001664	0.0000009426
PCB_18_30	0.0000023061	-.0000059655	-.0000019207	-.0000001029	-.0000007000
PCB_180_193	-.0000059655	0.0000497303	0.0000199351	0.0000014864	0.0000083499
PCB_183_185	-.0000019207	0.0000199351	0.0000087175	0.0000006514	0.0000035193
PCB_197_200	-.0000001029	0.0000014864	0.0000006514	0.0000000520	0.0000002774
PCB_198_199	-.0000007000	0.0000083499	0.0000035193	0.0000002774	0.0000015161
PCB_20_28	0.0000038451	-.0000089924	-.0000023716	-.0000001182	-.0000009540
PCB_21_33	0.0000004232	-.0000005592	-.0000001059	-.0000000019	-.0000000336
PCB_26_29	0.0000038627	-.0000120509	-.0000040694	-.0000002067	-.0000014731
PCB_40_41_71	0.0000048421	-.0000160094	-.0000047849	-.0000002285	-.0000018368
PCB_44_47_65	0.0000145391	-.0000704948	-.0000253075	-.0000015584	-.0000099595
PCB_45_51	0.0000042435	-.0000153037	-.0000052395	-.0000002868	-.0000019728
PCB_49_69	0.0000185440	-.0000818900	-.0000279037	-.0000016902	-.0000113131
PCB_50_53	0.0000075054	-.0000262826	-.0000090478	-.0000004775	-.0000033130
PCB_59_62_75	0.0000020475	-.0000068199	-.0000020677	-.0000000962	-.0000007728
PCB_61_70_74_76	-.0000022007	-.0000055881	-.0000064450	-.0000005008	-.0000018570
PCB_85_117_116	-.0000013804	-.0000023966	-.0000014225	-.0000001633	-.0000007388
PCB_86_87_97_108_119_125	-.0000049339	-.0000236277	-.0000142215	-.0000011711	-.0000055590

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_195	-.0000002978	-.0000000089	-.0000005261	-.0000006674	-.0000034140
PCB_196	-.0000004023	-.0000000134	-.0000006625	-.0000008399	-.0000044065
PCB_201	-.0000001171	-.0000000026	-.0000002040	-.0000002206	-.0000014961
PCB_202	-.0000001916	-.0000000058	-.0000002929	-.0000003146	-.0000021891
PCB_203	-.0000006139	-.0000000086	-.0000011573	-.0000014107	-.0000079679
PCB_204	-.0000000018	-.0000000001	-.0000000026	-.0000000028	-.0000000200
PCB_205	-.0000000379	-.0000000010	-.0000000677	-.0000000840	-.0000004443
PCB_206	-.0000002736	-.0000000084	-.0000003995	-.0000004558	-.0000029425
PCB_207	-.0000000377	-.0000000013	-.0000000542	-.0000000625	-.0000003924
PCB_208	-.0000000842	-.0000000016	-.0000001198	-.0000001299	-.0000009790
PCB_209	-.0000000748	0.0000000012	-.0000001043	-.0000000994	-.0000010745
PCB_12_13	0.0000000680	0.0000000064	0.0000000773	0.0000001016	0.0000003322
PCB_107_124	-.0000005939	-.0000000499	-.0000008883	-.0000014342	-.0000030483
PCB_110_115	-.0000144204	-.0000017669	-.0000073523	-.0000110771	-.0000324275
PCB_128_166	-.0000054663	-.0000005442	-.0000075556	-.0000105231	-.0000239268
PCB_129_138_163	-.0000360012	-.0000028428	-.0000540191	-.0000747553	-.0002200414
PCB_134_143	-.0000001671	-.0000000155	-.0000002830	-.0000004298	-.0000009550
PCB_135_151	0.0000021631	0.0000004044	-.0000008350	0.0000001442	-.0000148358
PCB_139_140	-.0000002716	-.0000000196	-.0000007067	-.0000009598	-.0000023237
PCB_147_149	-.0000088711	-.0000003619	-.0000155583	-.0000199685	-.0000927622
PCB_153_168	-.0000239327	-.0000017118	-.0000366645	-.0000496327	-.0001668842
PCB_156_157	-.0000043303	-.0000003633	-.0000068893	-.0000105277	-.0000229447
PCB_171_173	-.0000011152	-.0000000681	-.0000018717	-.0000023893	-.0000097112
PCB_18_30	0.0000038451	0.0000004232	0.0000038627	0.0000048421	0.0000145391
PCB_180_193	-.0000089924	-.0000005592	-.0000120509	-.0000160094	-.0000704948
PCB_183_185	-.0000023716	-.0000001059	-.0000040694	-.0000047849	-.0000253075
PCB_197_200	-.0000001182	-.0000000019	-.0000002067	-.0000002285	-.0000015584
PCB_198_199	-.0000009540	-.0000000336	-.0000014731	-.0000018368	-.0000099595
PCB_20_28	0.0000071282	0.0000007799	0.0000062429	0.0000081622	0.0000237944
PCB_21_33	0.0000007799	0.0000000969	0.0000005907	0.0000006919	0.0000018162
PCB_26_29	0.0000062429	0.0000005907	0.0000078364	0.0000103212	0.0000314317
PCB_40_41_71	0.0000081622	0.0000006919	0.0000103212	0.0000149493	0.0000443961
PCB_44_47_65	0.0000237944	0.0000018162	0.0000314317	0.0000443961	0.0001504611
PCB_45_51	0.0000070969	0.0000006323	0.0000086321	0.0000118651	0.0000377141
PCB_49_69	0.0000296921	0.0000022618	0.0000405547	0.0000584486	0.0001869103
PCB_50_53	0.0000120485	0.0000010735	0.0000157856	0.0000211721	0.0000658989
PCB_59_62_75	0.0000033960	0.0000002872	0.0000045680	0.0000063446	0.0000187195
PCB_61_70_74_76	-.0000053143	-.0000004572	-.0000049402	-.0000105111	-.0000147201
PCB_85_117_116	-.0000020384	-.0000002662	-.0000027469	-.0000033932	-.0000052368
PCB_86_87_97_108_119_125	-.0000098910	-.0000014197	-.0000067749	-.0000100460	0.0000011139

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_195	-.0000006953	-.0000038325	-.0000011877	-.0000002823	-.0000006899
PCB_196	-.0000008818	-.0000049329	-.0000015002	-.0000003568	-.0000008781
PCB_201	-.0000002791	-.0000016220	-.0000004669	-.0000000937	-.0000004907
PCB_202	-.0000004058	-.0000023932	-.0000006662	-.0000001317	-.0000006749
PCB_203	-.0000015562	-.0000088310	-.0000026476	-.0000006055	-.0000019529
PCB_204	-.0000000037	-.0000000218	-.0000000060	-.0000000012	-.0000000063
PCB_205	-.0000000895	-.0000004914	-.0000001534	-.0000000362	-.0000001006
PCB_206	-.0000005497	-.0000032072	-.0000009125	-.0000002007	-.0000007700
PCB_207	-.0000000742	-.0000004313	-.0000001231	-.0000000270	-.0000000982
PCB_208	-.0000001719	-.0000010529	-.0000002796	-.0000000573	-.0000002938
PCB_209	-.0000001644	-.0000011101	-.0000002601	-.0000000473	-.0000004036
PCB_12_13	0.0000000895	0.0000004104	0.0000001560	0.0000000433	-.0000000334
PCB_107_124	-.0000009190	-.0000048613	-.0000017930	-.0000006258	0.0000021185
PCB_110_115	-.0000105133	-.0000406762	-.0000130059	-.0000022762	0.0000093028
PCB_128_166	-.0000075347	-.0000345039	-.0000149648	-.0000049657	0.0000111906
PCB_129_138_163	-.0000595583	-.0002862614	-.0001112713	-.0000341457	0.0000434247
PCB_134_143	-.0000003352	-.0000015204	-.0000005472	-.0000001380	0.0000004128
PCB_135_151	-.0000018669	-.0000137839	-.0000028674	0.0000002282	-.0000145136
PCB_139_140	-.0000007100	-.0000031799	-.0000014539	-.0000004606	0.0000005167
PCB_147_149	-.0000202623	-.0001067259	-.0000342468	-.0000081210	-.0000152771
PCB_153_168	-.0000425888	-.0002000265	-.0000773186	-.0000225233	0.0000068440
PCB_156_157	-.0000070659	-.0000339442	-.0000139785	-.0000048556	0.0000128779
PCB_171_173	-.0000022253	-.0000113716	-.0000040374	-.0000010754	-.0000009461
PCB_18_30	0.0000042435	0.0000185440	0.0000075054	0.0000020475	-.0000022007
PCB_180_193	-.0000153037	-.0000818900	-.0000262826	-.0000068199	-.0000055881
PCB_183_185	-.0000052395	-.0000279037	-.0000090478	-.0000020677	-.0000064450
PCB_197_200	-.0000002868	-.0000016902	-.0000004775	-.0000000962	-.0000005008
PCB_198_199	-.0000019728	-.0000113131	-.0000033130	-.0000007728	-.0000018570
PCB_20_28	0.0000070969	0.0000296921	0.0000120485	0.0000033960	-.0000053143
PCB_21_33	0.0000006323	0.0000022618	0.0000010735	0.0000002872	-.0000004572
PCB_26_29	0.0000086321	0.0000405547	0.0000157856	0.0000045680	-.0000049402
PCB_40_41_71	0.0000118651	0.0000584486	0.0000211721	0.0000063446	-.0000105111
PCB_44_47_65	0.0000377141	0.0001869103	0.0000658989	0.0000187195	-.0000147201
PCB_45_51	0.0000101337	0.0000475354	0.0000175990	0.0000049249	-.0000049080
PCB_49_69	0.0000475354	0.0002449304	0.0000843066	0.0000244712	-.0000331694
PCB_50_53	0.0000175990	0.0000843066	0.0000322100	0.0000094025	-.0000095211
PCB_59_62_75	0.0000049249	0.0000244712	0.0000094025	0.0000029839	-.0000044139
PCB_61_70_74_76	-.0000049080	-.0000331694	-.0000095211	-.0000044139	0.0000306612
PCB_85_117_116	-.0000022695	-.0000099738	-.0000050338	-.0000016703	0.0000050079
PCB_86_87_97_108_119_125	-.0000045013	-.0000173248	-.0000103736	-.0000046039	0.0000352181

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_195	-.0000002020	-.0000018514	-.0000002929	-.0000006429	-.0000001779
PCB_196	-.0000002943	-.0000024301	-.0000003894	-.0000008602	-.0000002396
PCB_201	-.0000001511	-.0000011143	-.0000000863	-.0000005977	-.0000000783
PCB_202	-.0000002371	-.0000016155	-.0000001293	-.0000009156	-.0000001194
PCB_203	-.0000006094	-.0000050345	-.0000005983	-.0000022078	-.0000004126
PCB_204	-.0000000023	-.0000000151	-.0000000012	-.0000000090	-.0000000011
PCB_205	-.0000000286	-.0000002558	-.0000000373	-.0000000941	-.0000000234
PCB_206	-.0000003033	-.0000020232	-.0000002213	-.0000010445	-.0000001707
PCB_207	-.0000000387	-.0000002600	-.0000000299	-.0000001328	-.0000000226
PCB_208	-.0000001251	-.0000007681	-.0000000644	-.0000004305	-.0000000581
PCB_209	-.0000001861	-.0000010436	-.0000000578	-.0000006208	-.0000000677
PCB_12_13	-.0000000184	-.0000000362	0.0000000517	-.0000000694	0.0000000198
PCB_107_124	0.0000006359	0.0000026677	-.0000007188	0.0000018734	-.0000001481
PCB_110_115	0.0000008539	0.0000198177	-.0000065922	0.0000335247	-.0000029641
PCB_128_166	0.0000050019	0.0000180813	-.0000053836	0.0000115617	-.0000012559
PCB_129_138_163	0.0000208129	0.0000435834	-.0000364344	0.0000468100	-.0000113588
PCB_134_143	0.0000002032	0.0000006376	-.0000001054	0.0000004929	-.0000000128
PCB_135_151	-.0000031843	-.0000268480	0.0000018816	-.0000176006	-.0000001274
PCB_139_140	0.0000004846	0.0000009575	-.0000003772	0.0000006774	-.0000000664
PCB_147_149	-.0000033559	-.0000420157	-.0000079070	-.0000129223	-.0000044944
PCB_153_168	0.0000081988	-.0000073731	-.0000242871	0.0000246744	-.0000088810
PCB_156_157	0.0000048203	0.0000175265	-.0000053292	0.0000133505	-.0000011225
PCB_171_173	0.0000000255	-.0000027536	-.0000010942	-.0000005097	-.0000004954
PCB_18_30	-.0000013804	-.0000049339	0.0000025141	-.0000044834	0.0000009132
PCB_180_193	-.0000023966	-.0000236277	-.0000082229	-.0000031548	-.0000041226
PCB_183_185	-.0000014225	-.0000142215	-.0000020049	-.0000057576	-.0000012981
PCB_197_200	-.0000001633	-.0000011711	-.0000000923	-.0000006072	-.0000000826
PCB_198_199	-.0000007388	-.0000055590	-.0000008428	-.0000024657	-.0000005473
PCB_20_28	-.0000020384	-.0000098910	0.0000047427	-.0000107832	0.0000017433
PCB_21_33	-.0000002662	-.0000014197	0.0000004169	-.0000011405	0.0000001514
PCB_26_29	-.0000027469	-.0000067749	0.0000050972	-.0000066072	0.0000017409
PCB_40_41_71	-.0000033932	-.0000100460	0.0000075968	-.0000132837	0.0000025136
PCB_44_47_65	-.0000052368	0.0000011139	0.0000221164	-.0000270020	0.0000084365
PCB_45_51	-.0000022695	-.0000045013	0.0000057822	-.0000091898	0.0000021129
PCB_49_69	-.0000099738	-.0000173248	0.0000281703	-.0000346343	0.0000099661
PCB_50_53	-.0000050338	-.0000103736	0.0000105258	-.0000129603	0.0000036334
PCB_59_62_75	-.0000016703	-.0000046039	0.0000034572	-.0000044279	0.0000011037
PCB_61_70_74_76	0.0000050079	0.0000352181	-.0000067271	0.0000213587	-.0000012469
PCB_85_117_116	0.0000027023	0.0000107775	-.0000015092	0.0000032422	-.0000001694
PCB_86_87_97_108_119_125	0.0000107775	0.0000653719	-.0000066501	0.0000294074	-.0000005687

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_88_91	PCB 88/91	0.0000000071	-.0000000011	-.0000000014
PCB_90_101_113	PCB 90/101/113	-.0000000455	-.0000000089	-.0000000089
PCB_93_98_100_102	PCB 93/98/100/102	0.0000000136	-.0000000011	-.0000000009

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_88_91	0.0000011839	0.0000000005	0.0000001472	0.0000000154	-.0000000232
PCB_90_101_113	-.0000023374	-.0000000173	-.0000004269	-.0000000521	-.0000006571
PCB_93_98_100_102	0.0000006014	0.0000000007	0.0000000777	0.0000000091	0.0000001151

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_88_91	0.0000000257	0.0000001226	-.0000000427	-.0000000013	0.0000000245
PCB_90_101_113	-.0000000870	-.0000002079	-.0000000386	-.0000000086	-.0000000678
PCB_93_98_100_102	0.0000000166	0.0000000578	-.0000000170	-.0000000012	0.0000000126

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_88_91	0.0000006229	0.0000041033	0.0000019258	0.0000007163	0.0000000031
PCB_90_101_113	-.0000016504	-.0000065778	-.0000033744	-.0000018226	-.0000000141
PCB_93_98_100_102	0.0000002467	0.0000017614	0.0000008990	0.0000002464	0.0000000006

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_88_91	-.0000000051	0.0000012792	0.0000058113	0.0000021303	0.0000032659
PCB_90_101_113	-.0000000341	-.0000018892	-.0000066612	-.0000041277	-.0000060790
PCB_93_98_100_102	-.0000000046	0.0000004747	0.0000022823	0.0000007679	0.0000012679

Covariance Matrix

	PCB_34	PCB_35	PCB_36	PCB_37	PCB_38
PCB_88_91	0.0000000677	-.0000000013	0.0000002079	0.0000001363	0.0000000360
PCB_90_101_113	-.0000001057	-.0000000086	-.0000004320	-.0000003966	-.0000000453
PCB_93_98_100_102	0.0000000269	-.0000000012	0.0000000722	0.0000000444	0.0000000110

Covariance Matrix

	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
PCB_88_91	0.0000000097	0.0000042569	0.0000009742	0.0000017498	0.0000003755
PCB_90_101_113	-.0000000348	-.0000077144	-.0000013417	-.0000027059	-.0000013187
PCB_93_98_100_102	0.0000000026	0.0000014541	0.0000003630	0.0000005901	0.0000001059

Covariance Matrix

	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
PCB_88_91	0.0000144056	0.0000003586	-.0000000013	0.0000000243	0.0000003238
PCB_90_101_113	-.0000077950	-.0000004459	-.0000000086	-.0000011041	-.0000002534
PCB_93_98_100_102	0.0000049726	0.0000001480	-.0000000012	-.0000000122	0.0000001059

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
PCB_88_91	0.0000001825	-.0000001269	0.0000003356	0.0000044321	0.0000025965
PCB_90_101_113	-.0000002428	-.0000008903	-.0000005277	-.0000086952	-.0000041119
PCB_93_98_100_102	0.0000000595	-.0000000755	0.0000001356	0.0000014076	0.0000012397

Covariance Matrix

	PCB_67	PCB_68	PCB_72	PCB_73	PCB_77
PCB_88_91	0.0000002203	0.0000009725	0.0000015985	-.0000001241	0.0000001443
PCB_90_101_113	-.0000003444	-.0000008717	-.0000017228	-.0000002062	-.0000007441
PCB_93_98_100_102	0.0000000781	0.0000003731	0.0000005495	-.0000000259	0.0000000229

Covariance Matrix

	PCB_78	PCB_79	PCB_80	PCB_81	PCB_82
PCB_88_91	0.0000000064	-.0000001393	-.0000000013	0.0000000029	-.0000006562
PCB_90_101_113	-.0000000146	0.0000003301	-.0000000086	-.0000000478	0.0000016856
PCB_93_98_100_102	0.0000000007	-.0000000333	-.0000000012	-.0000000021	-.0000000645

Covariance Matrix

	PCB_83	PCB_84	PCB_89	PCB_92	PCB_94
PCB_88_91	0.0000017032	0.0000036248	-.0000000250	0.0000058474	0.0000004846
PCB_90_101_113	-.0000021640	-.0000045391	-.0000003323	-.0000089287	-.0000006971
PCB_93_98_100_102	0.0000005881	0.0000013539	-.0000000270	0.0000020185	0.0000001965

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
PCB_88_91	0.0000117616	0.0000004501	-.0000005079	0.0000008392	0.0000000246
PCB_90_101_113	-.0000217688	-.0000006300	0.0000263489	-.0000011755	-.0000000320
PCB_93_98_100_102	0.0000032851	0.0000001501	-.0000001326	0.0000002935	0.0000000100

Covariance Matrix

	PCB_105	PCB_106	PCB_109	PCB_111	PCB_112
PCB_88_91	-.0000079668	-.0000000013	0.0000003038	0.0000001123	-.0000000013
PCB_90_101_113	0.0000226485	-.0000000086	0.0000013361	-.0000001203	-.0000000086
PCB_93_98_100_102	-.0000013972	-.0000000012	0.0000003208	0.0000000351	-.0000000012

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_88_91	-.0000008506	-.0000047168	0.0000003411	0.0000000393	-.0000001606
PCB_90_101_113	0.0000022483	0.0000363895	-.0000004418	-.0000000456	0.0000002980
PCB_93_98_100_102	-.0000001407	-.0000008288	0.0000001048	0.0000000129	-.0000000337

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_88_91	-.0000002971	-.0000000043	-.0000000269	-.0000012843	-.0000004352
PCB_90_101_113	0.0000002818	-.0000002193	0.0000000321	0.0000022356	0.0000009371
PCB_93_98_100_102	-.0000000214	-.0000000009	-.0000000085	-.0000002901	-.0000001142

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_88_91	-.0000057658	0.0000000937	0.0000006464	-.0000023497	-.0000046228
PCB_90_101_113	0.0000116675	-.0000005381	-.0000020399	0.0000045436	0.0000045375
PCB_93_98_100_102	-.0000022147	0.0000000182	0.0000001653	-.0000005395	-.0000018074

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_88_91	-.0000000018	-.0000005865	-.0000000026	-.0000021719	0.0000000256
PCB_90_101_113	-.0000000122	-.0000003779	0.0000000021	-.0000022101	-.0000000607
PCB_93_98_100_102	-.0000000017	-.0000002417	-.0000000002	-.0000009290	0.0000000090

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_88_91	0.0000000225	0.0000000140	0.0000001698	0.0000000002	-.0000032038
PCB_90_101_113	-.0000000419	-.0000000186	-.0000003368	-.0000000087	0.0000066688
PCB_93_98_100_102	0.0000000086	0.0000000066	0.0000000667	-.0000000005	-.0000008154

Covariance Matrix

	PCB_159	PCB_160	PCB_161	PCB_162	PCB_164
PCB_88_91	-.0000000044	-.0000000013	-.0000000013	0.0000000210	-.0000012850
PCB_90_101_113	-.0000000380	-.0000000086	-.0000000086	-.0000002667	0.0000005498
PCB_93_98_100_102	-.0000000010	-.0000000012	-.0000000012	-.0000000041	-.0000004604

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_165	PCB_167	PCB_169	PCB_170	PCB_172
PCB_88_91	0.0000000473	-.0000017400	-.0000000037	-.0000045528	-.0000006352
PCB_90_101_113	-.0000000687	0.0000035076	-.0000000295	0.0000038567	-.0000008802
PCB_93_98_100_102	0.0000000130	-.0000004950	-.0000000036	-.0000017251	-.0000003312

Covariance Matrix

	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
PCB_88_91	-.0000016604	-.0000001128	-.0000002159	-.0000010841	-.0000003250
PCB_90_101_113	-.0000059091	-.0000003061	-.0000010462	-.0000044098	-.0000029476
PCB_93_98_100_102	-.0000011605	-.0000000681	-.0000001595	-.0000007680	-.0000003365

Covariance Matrix

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186
PCB_88_91	-.0000003997	-.0000000861	-.0000000227	-.0000000022	-.0000000015
PCB_90_101_113	-.0000043665	0.0000001505	-.0000000017	-.0000000123	-.0000000052
PCB_93_98_100_102	-.0000004567	-.0000000233	-.0000000093	-.0000000015	-.0000000010

Covariance Matrix

	PCB_187	PCB_188	PCB_189	PCB_190	PCB_191
PCB_88_91	-.0000039190	-.0000000019	-.0000001833	-.0000005635	-.0000001634
PCB_90_101_113	-.0000315294	-.0000000168	0.0000002338	0.0000001275	-.0000000246
PCB_93_98_100_102	-.0000037007	-.0000000018	-.0000000615	-.0000002808	-.0000000722

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
PCB_88_91	-.0000000013	-.0000007388	-.0000002929	-.0000003894	-.0000000863
PCB_90_101_113	-.0000000085	-.0000006524	-.0000006429	-.0000008602	-.0000005977
PCB_93_98_100_102	-.0000000012	-.0000003930	-.0000001779	-.0000002396	-.0000000783

Covariance Matrix

	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206
PCB_88_91	-.0000001293	-.0000005983	-.0000000012	-.0000000373	-.0000002213
PCB_90_101_113	-.0000009156	-.0000022078	-.0000000090	-.0000000941	-.0000010445
PCB_93_98_100_102	-.0000001194	-.0000004126	-.0000000011	-.0000000234	-.0000001707

Covariance Matrix

	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
PCB_88_91	-.0000000299	-.0000000644	-.0000000578	0.0000000517	-.0000007188
PCB_90_101_113	-.0000001328	-.0000004305	-.0000006208	-.0000000694	0.0000018734
PCB_93_98_100_102	-.0000000226	-.0000000581	-.0000000677	0.0000000198	-.0000001481

Covariance Matrix

	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
PCB_88_91	-.0000065922	-.0000053836	-.0000364344	-.0000001054	0.0000018816
PCB_90_101_113	0.0000335247	0.0000115617	0.0000468100	0.0000004929	-.0000176006
PCB_93_98_100_102	-.0000029641	-.0000012559	-.0000113588	-.0000000128	-.0000001274

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173
PCB_88_91	-.0000003772	-.0000079070	-.0000242871	-.0000053292	-.0000010942
PCB_90_101_113	0.0000006774	-.0000129223	0.0000246744	0.0000133505	-.0000005097
PCB_93_98_100_102	-.0000000664	-.0000044944	-.0000088810	-.0000011225	-.0000004954

Covariance Matrix

	PCB_18_30	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199
PCB_88_91	0.0000025141	-.0000082229	-.0000020049	-.0000000923	-.0000008428
PCB_90_101_113	-.0000044834	-.0000031548	-.0000057576	-.0000006072	-.0000024657
PCB_93_98_100_102	0.0000009132	-.0000041226	-.0000012981	-.0000000826	-.0000005473

Covariance Matrix

	PCB_20_28	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65
PCB_88_91	0.0000047427	0.0000004169	0.0000050972	0.0000075968	0.0000221164
PCB_90_101_113	-.0000107832	-.0000011405	-.0000066072	-.0000132837	-.0000270020
PCB_93_98_100_102	0.0000017433	0.0000001514	0.0000017409	0.0000025136	0.0000084365

Covariance Matrix

	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76
PCB_88_91	0.0000057822	0.0000281703	0.0000105258	0.0000034572	-.0000067271
PCB_90_101_113	-.0000091898	-.0000346343	-.0000129603	-.0000044279	0.0000213587
PCB_93_98_100_102	0.0000021129	0.0000099661	0.0000036334	0.0000011037	-.0000012469

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_85_ 117_116	PCB_86_87_ 97_108_ 119_125	PCB_88_91	PCB_90_ 101_113	PCB_93_98_ 100_102
PCB_88_91	-.0000015092	-.0000066501	0.0000047503	-.0000093222	0.0000015879
PCB_90_101_113	0.0000032422	0.0000294074	-.0000093222	0.0000466942	-.0000028054
PCB_93_98_100_102	-.0000001694	-.0000005687	0.0000015879	-.0000028054	0.0000006173

Total Variance 0.0020988661

White Sucker Carcass
Eigenvalues of the Covariance Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	0.00137016	0.00097427	0.6528	0.6528
2	0.00039589	0.00022976	0.1886	0.8414
3	0.00016613	0.00008093	0.0792	0.9206
4	0.00008520	0.00003450	0.0406	0.9612
5	0.00005070		0.0242	0.9853

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_1	PCB 1	0.000309	-.000910
PCB_2	PCB 2	0.000032	0.000140
PCB_3	PCB 3	0.000054	0.000110
PCB_4	PCB 4	-.013316	-.010900
PCB_5	PCB 5	0.000043	0.000042
PCB_6	PCB 6	-.001237	-.000714
PCB_7	PCB 7	-.000105	-.000142
PCB_8	PCB 8	0.001891	-.009884
PCB_9	PCB 9	-.000205	-.000369
PCB_10	PCB 10	-.001386	-.000715
PCB_11	PCB 11	0.000540	0.000468
PCB_14	PCB 14	0.000031	0.000138
PCB_15	PCB 15	0.000138	0.000108
PCB_16	PCB 16	-.007116	0.004626
PCB_17	PCB 17	-.061425	-.020525
PCB_19	PCB 19	-.028825	-.012844
PCB_22	PCB 22	-.006207	0.010593
PCB_23	PCB 23	-.000021	0.000122
PCB_24	PCB 24	0.000131	0.000543
PCB_25	PCB 25	-.016646	0.002602
PCB_27	PCB 27	-.086078	-.018033
PCB_31	PCB 31	-.021557	0.021637
PCB_32	PCB 32	-.043471	0.006516
PCB_34	PCB 34	-.000918	-.000105
PCB_35	PCB 35	0.000031	0.000138
PCB_36	PCB 36	-.002062	-.003208
PCB_37	PCB 37	-.000749	0.002500
PCB_38	PCB 38	-.000433	0.000232
PCB_39	PCB 39	-.000070	0.000266
PCB_42	PCB 42	-.050549	0.025737
PCB_43	PCB 43	-.008596	0.000382
PCB_46	PCB 46	-.025204	0.009491
PCB_48	PCB 48	-.003585	0.009959
PCB_52	PCB 52	-.244809	0.006087
PCB_54	PCB 54	-.005853	-.001622
PCB_55	PCB 55	0.000031	0.000138
PCB_56	PCB 56	0.002180	0.012640
PCB_57	PCB 57	-.004136	0.000216
PCB_58	PCB 58	-.002376	0.000495
PCB_60	PCB 60	0.004158	0.011004
PCB_63	PCB 63	-.003703	-.001596
PCB_64	PCB 64	-.048409	0.048454

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_1	0.003863	-.001140	0.000469
PCB_2	-.000074	-.000052	-.000032
PCB_3	0.000065	-.000062	0.000014
PCB_4	0.071177	-.018368	0.022516
PCB_5	0.000393	-.000196	0.000026
PCB_6	0.010899	-.003096	0.001711
PCB_7	0.001552	-.000474	0.000273
PCB_8	0.034055	-.024073	-.004530
PCB_9	0.002687	-.000944	0.000231
PCB_10	0.006307	-.000448	0.002844
PCB_11	-.000751	-.002602	-.001226
PCB_14	-.000085	-.000052	-.000042
PCB_15	0.002980	-.000203	0.001996
PCB_16	0.021842	-.010071	0.008956
PCB_17	0.096940	-.024693	-.004336
PCB_19	0.067523	-.020987	0.010797
PCB_22	0.023325	-.001499	0.019384
PCB_23	0.000026	-.000050	0.000007
PCB_24	-.000318	-.000219	-.000164
PCB_25	0.017117	-.011837	0.015178
PCB_27	0.068586	-.017950	0.031545
PCB_31	0.045793	-.029899	0.059775
PCB_32	0.070775	-.013315	0.018849
PCB_34	0.001182	-.000157	-.000103
PCB_35	-.000085	-.000052	-.000042
PCB_36	-.002177	0.030553	-.042984
PCB_37	0.005922	0.000161	0.004506
PCB_38	0.000031	0.000494	0.000148
PCB_39	0.000247	-.000052	0.000179
PCB_42	0.047517	0.004556	0.003990
PCB_43	0.004856	0.014854	-.028912
PCB_46	0.008955	-.007524	0.017872
PCB_48	0.006766	-.007138	0.007224
PCB_52	0.064519	-.124347	0.623071
PCB_54	0.005450	-.002782	0.002667
PCB_55	-.000085	-.000052	-.000042
PCB_56	0.002802	-.029056	0.013013
PCB_57	0.001833	0.008375	0.001936
PCB_58	-.000243	0.002407	-.002422
PCB_60	0.005649	-.010200	0.005175
PCB_63	0.007355	0.002065	-.005703
PCB_64	0.056398	0.017338	0.048669

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_66	PCB 66	-.034434	-.041712
PCB_67	PCB 67	-.002513	0.001081
PCB_68	PCB 68	-.012883	-.007704
PCB_72	PCB 72	-.020526	-.001413
PCB_73	PCB 73	0.001496	-.001659
PCB_77	PCB 77	-.000386	0.007176
PCB_78	PCB 78	-.000026	0.000121
PCB_79	PCB 79	0.001368	-.002957
PCB_80	PCB 80	0.000031	0.000138
PCB_81	PCB 81	0.000032	0.000585
PCB_82	PCB 82	0.008161	-.019427
PCB_83	PCB 83	-.019538	0.004894
PCB_84	PCB 84	-.053921	0.007041
PCB_89	PCB 89	0.000860	0.004309
PCB_92	PCB 92	-.066127	0.017956
PCB_94	PCB 94	-.006066	-.001689
PCB_95	PCB 95	-.186596	0.133809
PCB_96	PCB 96	-.005970	0.001943
PCB_99	PCB 99	-.033957	-.173811
PCB_103	PCB 103	-.009854	0.001096
PCB_104	PCB 104	-.000362	-.000180
PCB_105	PCB 105	0.079449	-.234719
PCB_106	PCB 106	0.000031	0.000138
PCB_109	PCB 109	-.002896	-.037509
PCB_111	PCB 111	-.001181	0.000094
PCB_112	PCB 112	0.000031	0.000138
PCB_114	PCB 114	0.009534	-.024341
PCB_118	PCB 118	-.012937	-.308562
PCB_120	PCB 120	-.003693	0.000927
PCB_121	PCB 121	-.000454	-.000013
PCB_122	PCB 122	0.001879	-.003237
PCB_123	PCB 123	0.005760	-.009423
PCB_126	PCB 126	0.000818	0.001360
PCB_127	PCB 127	0.000445	-.000188
PCB_130	PCB 130	0.019807	-.024281
PCB_131	PCB 131	0.005725	-.006980
PCB_132	PCB 132	0.042740	-.038794
PCB_133	PCB 133	0.001187	0.001928
PCB_136	PCB 136	-.003059	0.015883
PCB_137	PCB 137	0.032153	-.047156
PCB_141	PCB 141	0.067045	0.023043
PCB_142	PCB 142	0.000045	0.000195

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_66	0.048614	-.056983	-.111458
PCB_67	0.001948	-.001186	0.001050
PCB_68	0.007197	0.016038	-.021068
PCB_72	0.006467	0.027258	-.015782
PCB_73	0.001365	-.014122	-.009207
PCB_77	0.001692	-.001919	0.000793
PCB_78	-.000122	0.000547	-.000481
PCB_79	-.000962	-.003993	-.001025
PCB_80	-.000085	-.000052	-.000042
PCB_81	-.000464	-.000057	-.000598
PCB_82	0.015291	-.032702	0.009967
PCB_83	-.000032	-.021960	0.002228
PCB_84	-.005379	-.124645	0.056782
PCB_89	-.001868	-.004219	-.001143
PCB_92	0.065945	0.034732	-.007725
PCB_94	0.006017	-.003943	-.005405
PCB_95	-.228834	-.262424	-.042059
PCB_96	0.000909	0.000929	0.000472
PCB_99	-.150295	0.467622	0.081616
PCB_103	0.005475	0.007622	-.009150
PCB_104	0.000141	0.000026	-.000691
PCB_105	0.048898	-.182718	-.022395
PCB_106	-.000085	-.000052	-.000042
PCB_109	0.021620	0.018742	-.051619
PCB_111	0.000681	0.004278	-.001840
PCB_112	-.000085	-.000052	-.000042
PCB_114	0.015690	-.016347	0.004814
PCB_118	-.258262	0.358425	-.207363
PCB_120	0.001781	0.013393	-.006934
PCB_121	0.000122	0.001053	-.000814
PCB_122	0.000097	-.006161	-.002385
PCB_123	0.026660	0.006987	-.003388
PCB_126	0.003699	-.000896	-.000246
PCB_127	0.000142	0.000785	-.000942
PCB_130	0.032613	-.000487	-.006652
PCB_131	0.002952	-.001957	0.000806
PCB_132	-.310777	-.184290	-.176558
PCB_133	0.005248	0.013834	-.016504
PCB_136	-.004150	-.013958	-.014094
PCB_137	0.043643	0.018924	-.029192
PCB_141	-.041657	-.008066	0.008895
PCB_142	-.000118	-.000075	-.000059

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_144	PCB 144	0.013518	0.012410
PCB_145	PCB 145	0.000055	-.000063
PCB_146	PCB 146	0.050435	0.033361
PCB_148	PCB 148	-.000141	0.000092
PCB_150	PCB 150	-.000172	-.000094
PCB_152	PCB 152	-.000156	-.000220
PCB_154	PCB 154	-.000638	-.000227
PCB_155	PCB 155	0.000013	0.000098
PCB_158	PCB 158	0.045672	-.055711
PCB_159	PCB 159	0.000178	0.000213
PCB_160	PCB 160	0.000031	0.000138
PCB_161	PCB 161	0.000031	0.000138
PCB_162	PCB 162	0.000908	0.002180
PCB_164	PCB 164	0.025021	0.007256
PCB_165	PCB 165	-.000483	0.000184
PCB_167	PCB 167	0.022905	-.023707
PCB_169	PCB 169	0.000111	0.000462
PCB_170	PCB 170	0.066938	0.025387
PCB_172	PCB 172	0.012484	0.021846
PCB_174	PCB 174	0.038282	0.114376
PCB_175	PCB 175	0.002597	0.005846
PCB_176	PCB 176	0.006071	0.017261
PCB_177	PCB 177	0.028274	0.078003
PCB_178	PCB 178	0.011185	0.043598
PCB_179	PCB 179	0.015108	0.063619
PCB_181	PCB 181	0.001239	-.001148
PCB_182	PCB 182	0.000391	0.000318
PCB_184	PCB 184	0.000061	0.000163
PCB_186	PCB 186	0.000032	0.000087
PCB_187	PCB 187	0.131113	0.467802
PCB_188	PCB 188	0.000063	0.000221
PCB_189	PCB 189	0.002856	-.000323
PCB_190	PCB 190	0.008723	0.014700
PCB_191	PCB 191	0.002889	0.003067
PCB_192	PCB 192	0.000033	0.000137
PCB_194	PCB 194	0.013554	0.025297
PCB_195	PCB 195	0.006308	0.014866
PCB_196	PCB 196	0.007938	0.020090
PCB_201	PCB 201	0.002516	0.009473
PCB_202	PCB 202	0.003577	0.014385
PCB_203	PCB 203	0.014327	0.040841
PCB_204	PCB 204	0.000032	0.000136

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_144	0.011013	0.006363	0.002414
PCB_145	0.000113	-.000129	-.000080
PCB_146	0.041448	0.084728	-.095434
PCB_148	0.000585	0.000820	-.001189
PCB_150	0.000329	0.000290	-.001126
PCB_152	0.000164	-.000083	-.000812
PCB_154	0.006080	0.006684	-.006496
PCB_155	-.000059	-.000011	-.000114
PCB_158	0.037370	0.027861	-.028465
PCB_159	0.000618	-.000458	-.000136
PCB_160	-.000085	-.000052	-.000042
PCB_161	-.000085	-.000052	-.000042
PCB_162	-.001203	0.004975	-.010191
PCB_164	0.019532	0.013732	-.003221
PCB_165	-.000061	0.002176	-.001711
PCB_167	0.014416	0.009450	0.004775
PCB_169	-.000209	-.000161	-.000078
PCB_170	-.011260	0.005872	0.024983
PCB_172	-.004747	0.004026	-.003099
PCB_174	-.048754	-.012807	-.006631
PCB_175	-.001353	0.000758	-.001416
PCB_176	-.004843	0.000975	-.005834
PCB_177	-.023334	0.002210	-.016252
PCB_178	-.016883	-.002524	-.018389
PCB_179	-.024989	-.008738	-.024359
PCB_181	0.001341	0.000577	-.000061
PCB_182	-.000004	-.000034	-.000076
PCB_184	-.000032	-.000037	-.000115
PCB_186	-.000049	-.000026	-.000052
PCB_187	-.113562	-.001950	-.133910
PCB_188	-.000074	-.000044	-.000151
PCB_189	0.002087	0.002209	0.001782
PCB_190	-.012390	0.002178	0.011592
PCB_191	-.000263	0.001352	0.000325
PCB_192	-.000078	-.000035	-.000043
PCB_194	-.010060	0.002821	0.008106
PCB_195	-.004961	0.001290	0.000776
PCB_196	-.008570	0.000037	0.001077
PCB_201	-.003870	-.000917	-.002719
PCB_202	-.006886	-.003736	-.003928
PCB_203	-.011831	-.001523	-.001016
PCB_204	-.000066	-.000041	-.000042

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_205	PCB 205	0.000818	0.002025
PCB_206	PCB 206	0.004907	0.017826
PCB_207	PCB 207	0.000657	0.002318
PCB_208	PCB 208	0.001535	0.006847
PCB_209	PCB 209	0.001505	0.009228
PCB_12_13	PCB 12/13	-.000725	-.000017
PCB_107_124	PCB 107/124	0.008220	-.016206
PCB_110_115	PCB 110/115	0.042799	-.061851
PCB_128_166	PCB 128/166	0.067176	-.113548
PCB_129_138_163	PCB 129/138/163	0.537109	-.232946
PCB_134_143	PCB 134/143	0.002638	-.004328
PCB_135_151	PCB 135/151	0.023725	0.185602
PCB_139_140	PCB 139/140	0.007113	-.009262
PCB_147_149	PCB 147/149	0.180405	0.336164
PCB_153_168	PCB 153/168	0.384590	0.038108
PCB_156_157	PCB 156/157	0.065511	-.124178
PCB_171_173	PCB 171/173	0.020295	0.022950
PCB_18_30	PCB 18/30	-.032114	0.014360
PCB_180_193	PCB 180/193	0.132294	0.222234
PCB_183_185	PCB 183/185	0.047195	0.114673
PCB_197_200	PCB 197/200	0.002588	0.009919
PCB_198_199	PCB 198/199	0.017532	0.049404
PCB_20_28	PCB 20/28	-.051126	0.037853
PCB_21_33	PCB 21/33	-.004024	0.006065
PCB_26_29	PCB 26/29	-.072683	0.020224
PCB_40_41_71	PCB 40/41/71	-.099968	0.039835
PCB_44_47_65	PCB 44/47/65	-.321541	-.082605
PCB_45_51	PCB 45/51	-.083198	0.008701
PCB_49_69	PCB 49/69	-.407023	-.029002
PCB_50_53	PCB 50/53	-.150906	0.025697
PCB_59_62_75	PCB 59/62/75	-.044022	0.018543
PCB_61_70_74_76	PCB 61/70/74/76	0.038881	-.182265
PCB_85_117_116	PCB 85/117/116	0.019651	-.059416
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.021642	-.358391
PCB_88_91	PCB 88/91	-.048544	0.031671
PCB_90_101_113	PCB 90/101/113	0.053871	-.228322
PCB_93_98_100_102	PCB 93/98/100/102	-.017102	-.000578

PCB Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_205	-.000602	0.000270	0.000040
PCB_206	-.008173	-.004892	-.001864
PCB_207	-.001137	-.000658	-.000285
PCB_208	-.003286	-.002479	-.000772
PCB_209	-.004405	-.003814	-.000753
PCB_12_13	0.000630	-.000174	0.000304
PCB_107_124	0.004429	-.014674	0.004979
PCB_110_115	-.570423	0.103308	0.075501
PCB_128_166	0.051498	-.014117	-.063970
PCB_129_138_163	0.322899	-.066054	-.014780
PCB_134_143	0.002245	-.001530	0.000996
PCB_135_151	0.041200	0.035216	-.059820
PCB_139_140	0.017313	0.008574	-.005610
PCB_147_149	-.078912	0.044182	0.024859
PCB_153_168	0.191942	0.304614	0.148322
PCB_156_157	0.086610	-.028312	0.035024
PCB_171_173	-.003229	0.012230	-.009943
PCB_18_30	0.058008	-.016065	0.064290
PCB_180_193	-.167260	-.017089	0.031818
PCB_183_185	-.039045	0.030199	-.033055
PCB_197_200	-.004220	-.001109	-.002184
PCB_198_199	-.023368	-.014095	-.001053
PCB_20_28	0.115556	-.024643	0.038912
PCB_21_33	0.015059	-.006089	0.013589
PCB_26_29	0.030493	-.000755	0.070978
PCB_40_41_71	0.045582	0.043058	-.043347
PCB_44_47_65	0.158204	0.001912	-.192287
PCB_45_51	0.051726	-.015044	-.008402
PCB_49_69	0.191819	0.310884	-.140541
PCB_50_53	0.043017	-.003054	0.090118
PCB_59_62_75	0.000010	0.018498	0.013531
PCB_61_70_74_76	-.063287	-.387881	0.170204
PCB_85_117_116	0.014701	-.026036	-.112106
PCB_86_87_97_108_119_125	-.143224	-.276240	-.274913
PCB_88_91	0.042688	0.014836	-.055878
PCB_90_101_113	-.229768	0.141707	0.476611
PCB_93_98_100_102	0.023753	-.006137	-.025340

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
Cornell-Dubilier Site, WA #0-360

Obs	Location	Fish	PCB_1	PCB_2	PCB_3	PCB_4	PCB_5
1	6-C-3-Fillet	Carp	.000033910	.000000503	.000000981	.001256410	.000004301
2	7-C-6-Fillet	Carp	.000006904	.000007987	.000007987	.000136306	.000007987
3	1-P-2-Fillet	Pumpkinseed&BlueGill	.000034198	.000014074	.000017963	.000409877	.000014074
4	2-P-3-Fillet	Pumpkinseed&BlueGill	.000323894	.000003354	.000033540	.003398230	.000008655
5	3-P-3-Fillet	Pumpkinseed&BlueGill	.000112903	.000001010	.000013275	.001488834	.000006725
6	4-P-3-Fillet	Pumpkinseed&BlueGill	.000129032	.000001331	.000012419	.002459677	.000009839
7	5-P-2-Fillet	Pumpkinseed&BlueGill	.000153757	.000001861	.000013526	.003098266	.000011040
8	5-BG-3-Fillet	Pumpkinseed&BlueGill	.000157724	.000003496	.000015935	.002325203	.000006244
9	6-BG-2-Fillet	Pumpkinseed&BlueGill	.000162516	.000007339	.000012949	.002896461	.000007339
10	7-BG-2-Fillet	Pumpkinseed&BlueGill	.000116250	.000036500	.000036500	.000596875	.000036500
11	1-WS-5-Fillet	WhiteSucker	.000038211	.000019837	.000019837	.000571545	.000019837
12	2-WS-2-Fillet	WhiteSucker	.000110563	.000000325	.000002930	.001852113	.000008592
13	2-WS-6-Fillet	WhiteSucker	.000052500	.000000381	.000002639	.000770370	.000002324
14	3-WS-3-Fillet	WhiteSucker	.000166307	.000000475	.000005248	.003088553	.000010713
15	4-WS-5-Fillet	WhiteSucker	.000066245	.000001046	.000002481	.001383966	.000001046
16	5-WS-4-Fillet	WhiteSucker	.000083025	.000000602	.000003059	.002033951	.000005123
17	6-WS-2-Fillet	WhiteSucker	.000071353	.000000546	.000001846	.002037135	.000003236
18	7-WS-2-Fillet	WhiteSucker	.000037675	.000000392	.000000719	.002491228	.000000379

Obs	PCB_6	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
1	.000163462	.000012885	.000273077	.000042500	.000130769	.000003577	.000000503	.000011859
2	.000031720	.000007987	.000102038	.000013631	.000014522	.000184713	.000007987	.000026879
3	.000095679	.000026975	.000313580	.000028395	.000033457	.000623457	.000014074	.000119136
4	.000329204	.000073097	.001221239	.000099115	.000368142	.000054513	.000001699	.000306195
5	.000158809	.000038462	.000776675	.000052605	.000161787	.000021266	.000000548	.000189330
6	.000327419	.000064839	.001169355	.000090323	.000253226	.000040323	.000001331	.000195161
7	.000318497	.000061272	.000942197	.000083237	.000242197	.000034624	.000010127	.000230636
8	.000348780	.000048130	.000902439	.000073415	.000165041	.000040325	.000003496	.000313821
9	.000256881	.000039056	.000727392	.000063434	.000205767	.000075754	.000007339	.000211009
10	.000344375	.000039625	.001337500	.000067500	.000037000	.000507500	.000036500	.000388125
11	.000132520	.000020569	.000334146	.000032114	.000053415	.000530081	.000019837	.000064472
12	.000264085	.000040211	.001084507	.000072535	.000177465	.000068380	.000000209	.000046338
13	.000087593	.000016389	.000387037	.000022778	.000078148	.000008269	.000000381	.000038333
14	.000460043	.000062959	.001263499	.000110151	.000323974	.000098488	.000000092	.000123110
15	.000167932	.000023544	.000337975	.000034768	.000148101	.000097046	.000050211	.000038819
16	.000263272	.000032407	.000503086	.000054012	.000230864	.000106481	.000086111	.000067901
17	.000323607	.000040849	.000726790	.000084350	.000214854	.000165252	.000000546	.000034748
18	.000354386	.000045175	.000618421	.000083772	.000281140	.000193860	.000000379	.000070175

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
Cornell-Dubilier Site, WA #0-360

Obs	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23	PCB_24	PCB_25	PCB_27
1	.000679487	.002717949	.001801282	.000717949	.000003942	.000000503	.001506410	0.003981
2	.000163057	.000336306	.000152866	.000616561	.000007987	.000019490	.000335032	0.000378
3	.000305556	.000969136	.000271605	.001006173	.000014074	.000051975	.000938272	0.000202
4	.000359292	.004743363	.001734513	.001292035	.000004823	.000001699	.003053097	0.002673
5	.000166253	.002310174	.000766749	.000791563	.000002804	.000000548	.001312655	0.000928
6	.000297581	.003903226	.001346774	.001451613	.000006927	.000001331	.003153226	0.003000
7	.000393642	.004028902	.001838150	.001213873	.000005509	.000087283	.003028902	0.002555
8	.000558537	.003349593	.001455285	.001772358	.000007472	.000003496	.004170732	0.005398
9	.000703801	.005439056	.002149410	.002110092	.000007339	.000266055	.003853211	0.004902
10	.000407500	.001368750	.000181875	.001925000	.000036500	.000036500	.002962500	0.003219
11	.000731707	.001520325	.000703252	.000869919	.000019837	.000019837	.000548780	0.000677
12	.000647183	.003830986	.002246479	.000303521	.000000209	.000000209	.000689437	0.003289
13	.000220370	.001314815	.000897222	.000154630	.000000381	.000000381	.000323148	0.001278
14	.001166307	.005043197	.003315335	.001425486	.000008348	.000000092	.001123110	0.004201
15	.000565401	.004261603	.001848101	.000578059	.000004304	.000001046	.000945148	0.005021
16	.000981481	.005802469	.002839506	.001037037	.000006667	.000000275	.001552469	0.008117
17	.000824934	.006604775	.003766578	.000832891	.000005066	.000000546	.001111406	0.006525
18	.001228070	.008903509	.004517544	.001197368	.000011886	.000000379	.001714912	0.010789

Obs	PCB_31	PCB_32	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39	PCB_42
1	.002211538	.003006410	.000075000	.000000503	.000073718	.000029808	.000014679	.005211538
2	.001719745	.000624204	.000013885	.000007987	.000082548	.000007987	.000007987	.001643312
3	.002623457	.001401235	.000014074	.000014074	.000464815	.000014074	.000017346	.002981481
4	.004371681	.004070796	.000056814	.000001699	.000597345	.000025929	.000027168	.005336283
5	.002449132	.001990074	.000024541	.000000548	.000406948	.000009975	.000016824	.003374690
6	.004693548	.004024194	.000050968	.000001331	.000459677	.000030565	.000023468	.005419355
7	.004242775	.003919075	.000047399	.000010127	.000402890	.000017803	.000018092	.004994220
8	.005902439	.005048780	.000076423	.000003496	.000667480	.000034309	.000020569	.004682927
9	.004809961	.004901704	.000077720	.000007339	.000454784	.000039581	.000030275	.004941022
10	.005150000	.003081250	.000082500	.000036500	.000656250	.000036500	.000036500	.002693750
11	.001902439	.001780488	.000027886	.000019837	.000274797	.000019837	.000026098	.004544715
12	.000964789	.002112676	.000049366	.000000209	.000116901	.000007746	.000013592	.004049296
13	.000531481	.000857407	.000020463	.000002120	.000077870	.000004648	.000010278	.001907407
14	.003066955	.004157667	.000071274	.000000092	.000347732	.000000092	.000023002	.005302376
15	.001008439	.003227848	.000068776	.000001046	.000164979	.000028987	.000016034	.006455696
16	.003148148	.004351852	.000084877	.000000275	.000229630	.000027963	.000015833	.008456790
17	.002114058	.004827586	.000098143	.000008515	.000125995	.000020318	.000019708	.005517241
18	.003166667	.006666667	.000121491	.000000379	.000207018	.000025351	.000017763	.008684211

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
Cornell-Dubilier Site, WA #0-360

Obs	PCB_43	PCB_46	PCB_48	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57
1	.000367308	.001006410	.000717949	0.062115	.000333974	.000000503	.001570513	.000557051
2	.000166879	.000088535	.000332484	0.021146	.000026624	.000007987	.001169427	.000198726
3	.000260494	.000182716	.000623457	0.025864	.000031790	.000087037	.002925926	.000108025
4	.000001699	.000260177	.000670796	0.069292	.000310619	.000001699	.002902655	.000873451
5	.000000548	.000101489	.000439206	0.037469	.000137469	.000000548	.002421836	.000287841
6	.000001331	.000279839	.000370161	0.065161	.000241935	.000001331	.002830645	.000737097
7	.000010127	.000371098	.000528902	0.064740	.000346821	.000104624	.002427746	.000664740
8	.000384553	.000387805	.000616260	0.054309	.000247154	.000003496	.002463415	.000845528
9	.000356488	.000496723	.000684142	0.070773	.000338139	.000007339	.002634338	.000857143
10	.000502500	.000155625	.000570000	0.034750	.000036500	.000036500	.002075000	.000881250
11	.000369919	.001203252	.001333333	0.017317	.000072276	.000019837	.002837398	.000110569
12	.000235915	.000950704	.000753521	0.017958	.000277465	.000000209	.001943662	.000201408
13	.000110185	.000401852	.000469444	0.015833	.000103704	.000000381	.001712963	.000174074
14	.000331533	.001166307	.001144708	0.018575	.000245140	.000000092	.002624190	.000228942
15	.000535865	.001725738	.000755274	0.022911	.000259072	.000001046	.001670886	.000662447
16	.001459877	.002635802	.001188272	0.032099	.000413580	.000000275	.002638889	.000391975
17	.000464191	.001758621	.000870027	0.017666	.000442971	.000000546	.002315650	.000374005
18	.000000379	.003574561	.001350877	0.043860	.000671053	.000000379	.002048246	.000473684

Obs	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67	PCB_68	PCB_72
1	.000312179	.000839744	.000955128	0.006731	0.016987	.000388462	.001435897	.002224359
2	.000101146	.001095541	.000592357	0.003121	0.011580	.000169427	.000778344	.001128662
3	.000067901	.001740741	.000395679	0.005185	0.010123	.000308025	.000187037	.000320988
4	.000362832	.001097345	.000799115	0.007389	0.016372	.001061947	.001371681	.002070796
5	.000114888	.001111663	.000615385	0.004814	0.015186	.000444169	.000806452	.000868486
6	.000329839	.001201613	.000887097	0.007242	0.017984	.000862903	.001564516	.002169355
7	.000249133	.000959538	.000734104	0.006532	0.015434	.000843931	.001427746	.002138728
8	.000293496	.001016260	.000902439	0.006098	0.018293	.000926829	.001674797	.002439024
9	.000321101	.001137615	.000942333	0.006199	0.019004	.001132372	.001690695	.002450852
10	.000308750	.001275000	.001037500	0.003125	0.019938	.000968750	.001768750	.002462500
11	.000108943	.001878049	.000536585	0.007390	0.011463	.000152033	.000296748	.000416260
12	.000089437	.001105634	.000718310	0.004754	0.012958	.000126761	.000852113	.000639437
13	.000072315	.000824074	.000421296	0.003185	0.009352	.000068241	.000464815	.000316667
14	.000158747	.001630670	.000879050	0.008121	0.016307	.000223542	.000848812	.000873650
15	.000262869	.001029536	.000957806	0.007975	0.017595	.000209283	.001894515	.002261603
16	.000314815	.001222222	.001009259	0.010556	0.017593	.000398148	.001688272	.002203704
17	.000219894	.001249337	.000938992	0.007188	0.017401	.000244297	.001450928	.001567639
18	.000321053	.001149123	.000921053	0.010877	0.015526	.000311404	.001662281	.002368421

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Obs	PCB_77	PCB_78	PCB_79	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
1	.000103846	.000000503	.000491667	.000018782	.003974359	.004397436	0.012051	.000237179
2	.000212739	.000015287	.000863694	.000048025	.002152866	.001987261	0.004127	.000086497
3	.000753086	.000014074	.000212963	.000053395	.003333333	.000895062	0.005074	.000175309
4	.000499115	.000035664	.000578761	.000041327	.004008850	.001300885	0.006655	.000123009
5	.000359801	.000009901	.000563275	.000047643	.004168734	.001401985	0.004243	.000085856
6	.000458065	.000027742	.000352419	.000037742	.003266129	.001919355	0.005798	.000107258
7	.000406358	.000010127	.000332370	.000027399	.003040462	.001005780	0.005295	.000093642
8	.000547967	.000003496	.000336585	.000023659	.002788618	.001504065	0.005724	.000101626
9	.000448231	.000007339	.000952818	.000048755	.003813893	.001992136	0.007641	.000144168
10	.000662500	.000036500	.000456875	.000036500	.001662500	.001737500	0.003200	.000077500
11	.000665854	.000245528	.000772358	.000169106	.005308943	.002040650	0.012195	.000557724
12	.000237324	.000013169	.000250000	.000029789	.007746479	.002654930	0.014014	.000362676
13	.000135185	.000017130	.000463889	.000037870	.007537037	.002490741	0.012315	.000318519
14	.000399568	.000238661	.000730022	.000032613	.006436285	.003066955	0.011663	.000342333
15	.000314768	.000001046	.000645570	.000051899	.004725738	.003185654	0.011814	.000297468
16	.000429012	.000012778	.000288272	.000036420	.004969136	.004907407	0.016358	.000339506
17	.000297082	.000014218	.000474801	.000053581	.005941645	.002917772	0.012493	.000320955
18	.000379386	.000152632	.000280263	.000022281	.004473684	.003890351	0.015263	.000306579

Obs	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104	PCB_105	PCB_109
1	0.019295	.000415385	0.044936	.000392308	0.051346	.001096154	.000031923	0.013974	.005435897
2	0.014777	.000085223	0.022803	.000067771	0.052866	.000598726	.000008548	0.016688	.005299363
3	0.010864	.000074691	0.032160	.000118519	0.021975	.000404938	.000014074	0.009938	.002370370
4	0.018850	.000168142	0.040973	.000200000	0.038053	.001115044	.000032920	0.013982	.004548673
5	0.017643	.000121588	0.033251	.000098759	0.046402	.000821340	.000025806	0.024194	.005756824
6	0.019677	.000239516	0.039597	.000159677	0.037903	.001169355	.000038548	0.013629	.004282258
7	0.018613	.000156069	0.036763	.000168208	0.043121	.001063584	.000029884	0.016647	.005300578
8	0.020325	.000309756	0.036829	.000187805	0.045691	.001146341	.000036585	0.013821	.004764228
9	0.021756	.000301442	0.040236	.000273919	0.048755	.001305374	.000034862	0.014679	.004246396
10	0.021563	.000290625	0.023125	.000057563	0.058625	.000718750	.000036500	0.020563	.006168750
11	0.010894	.000326016	0.041220	.000364228	0.033171	.000522764	.000019837	0.013902	.002991870
12	0.012676	.000732394	0.035915	.000400000	0.049437	.000718310	.000028732	0.027535	.005309859
13	0.010463	.000362037	0.030741	.000218519	0.044259	.000356481	.000012963	0.030741	.005083333
14	0.014363	.000611231	0.026134	.000350972	0.040281	.000747300	.000015767	0.023218	.004946004
15	0.015570	.000696203	0.040084	.000620253	0.054008	.001206751	.000035401	0.014937	.005654008
16	0.016667	.001000000	0.044753	.000836420	0.042284	.001364198	.000036420	0.015895	.004845679
17	0.013183	.000809019	0.037401	.000503979	0.038992	.001005305	.000037931	0.021645	.004721485
18	0.016272	.000934211	0.047807	.000921053	0.038728	.001328947	.000043684	0.013026	.002894737

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Obs	PCB_111	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122	PCB_123	PCB_126
1	.000159615	.000916667	0.044231	.000679487	.000045641	.000295513	.000897436	.000109615
2	.000143949	.001129936	0.070191	.000610191	.000046115	.000272611	.001089172	.000168153
3	.000033951	.000478395	0.027593	.000143210	.000014074	.000443210	.000648148	.000147531
4	.000069912	.000803540	0.050973	.000438053	.000036283	.000536283	.001008850	.000161947
5	.000049876	.001516129	0.073449	.000227543	.000022184	.000709677	.001434243	.000292804
6	.000104032	.000783871	0.049274	.000425806	.000043226	.000488710	.001266129	.000191935
7	.000121965	.000924855	0.060694	.000436416	.000040000	.000491329	.000809249	.000112139
8	.000148780	.000761789	0.054146	.000494309	.000045122	.000502439	.000926829	.000093496
9	.000145478	.000752294	0.055046	.000501966	.000047969	.000504587	.000946265	.000084273
10	.000197500	.001137500	0.077500	.000693750	.000058875	.000693750	.001468750	.000070625
11	.000030081	.000790244	0.039024	.000174797	.000019837	.000478862	.001089431	.000630081
12	.000037958	.002049296	0.079577	.000137324	.000024577	.000718310	.002295775	.000538732
13	.000037222	.002101852	0.094444	.000115741	.000013056	.000751852	.002342593	.000406481
14	.000055832	.001781857	0.062203	.000245140	.000025378	.000524838	.003056156	.000174946
15	.000175105	.000886076	0.055696	.000616034	.000068354	.000349367	.001409283	.000242616
16	.000102469	.000966049	0.047531	.000379630	.000052160	.000481481	.000944444	.000209568
17	.000081698	.001403183	0.073740	.000315650	.000037401	.000559682	.002336870	.000192838
18	.000097368	.000750000	0.049123	.000393421	.000046491	.000370614	.001609649	.000169737

Obs	PCB_127	PCB_130	PCB_131	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
1	.000100641	.005000000	.000961538	0.016667	.001365385	.005314103	.005339744	0.007628
2	.000198726	.005605096	.000742675	0.013758	.001566879	.003031847	.007082803	0.011656
3	.000082716	.004549383	.000561728	0.017840	.001327160	.005913580	.003648148	0.014012
4	.000092920	.003707965	.000508850	0.013894	.001212389	.004115044	.005513274	0.008593
5	.000167246	.004962779	.000622829	0.016203	.001349876	.004764268	.007220844	0.011191
6	.000085484	.003870968	.000534677	0.014113	.001306452	.004637097	.004838710	0.007411
7	.000108671	.003213873	.000354335	0.011561	.001121387	.003034682	.004872832	0.007861
8	.000086992	.003691057	.000457724	0.012358	.001268293	.003861789	.003544715	0.006821
9	.000094364	.003211009	.000423329	0.010236	.001040629	.004036697	.003774574	0.006160
10	.000138750	.005606250	.000538125	0.013250	.001812500	.002656250	.005918750	0.010625
11	.000094309	.004317073	.000975610	0.021626	.001162602	.006089431	.004121951	0.010569
12	.000118310	.005394366	.001218310	0.007183	.001014085	.005063380	.006169014	0.008310
13	.000241667	.006287037	.001527778	0.020185	.000990741	.004750000	.006953704	0.011111
14	.000152268	.005215983	.001231102	0.014471	.001123110	.005712743	.006630670	0.009093
15	.000144304	.003810127	.000877637	0.016751	.001274262	.005907173	.004345992	0.006287
16	.000075309	.003796296	.000750000	0.015031	.001074074	.007037037	.004135802	0.005123
17	.000165517	.004721485	.001132626	0.017931	.001159151	.005729443	.005066313	0.008117
18	.000096491	.003543860	.000649123	0.012368	.000934211	.005438596	.003184211	0.004868

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Obs	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148	PCB_150	PCB_152	PCB_154
1	.000000503	.002006410	.000024551	0.011603	.000076282	.000089744	.000063205	.000788462
2	.000007987	.002433121	.000014522	0.015796	.000072611	.000055924	.000032229	.000801274
3	.000014074	.003148148	.000015802	0.018210	.000070370	.000054074	.000036296	.000672840
4	.000001699	.001734513	.000015221	0.012301	.000076637	.000062389	.000039823	.000753097
5	.000000548	.002878412	.000015112	0.015906	.000085608	.000064020	.000041687	.000940447
6	.000001331	.002048387	.000017177	0.012661	.000088710	.000071129	.000046371	.000838710
7	.000010127	.001612717	.000008382	0.000010	.000070520	.000047457	.000033642	.000699422
8	.000005130	.001780488	.000016911	0.010244	.000082927	.000057073	.000045935	.000837398
9	.000007339	.001638270	.000014941	0.007693	.000069201	.000063696	.000054128	.000699869
10	.000036500	.002100000	.000036500	0.013688	.000108750	.000037938	.000041688	.001100000
11	.000019837	.003585366	.000027480	0.013415	.000074472	.000069593	.000051789	.000652033
12	.000000209	.002654930	.000028944	0.009225	.000076761	.000078169	.000069507	.000711268
13	.000000381	.002888889	.000028426	0.011019	.000059815	.000067685	.000050648	.000594444
14	.000000092	.003164147	.000027754	0.011771	.000087257	.000085637	.000057559	.000781857
15	.000001046	.002257384	.000026920	0.010886	.000101266	.000111814	.000072574	.000789030
16	.000000275	.002265432	.000027469	0.008210	.000098765	.000106481	.000080864	.000728395
17	.000000546	.002411141	.000028382	0.010902	.000085146	.000088859	.000074801	.000737401
18	.000000379	.000428070	.000018509	0.007719	.000067544	.000075877	.000063158	.000596491

Obs	PCB_155	PCB_158	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165	PCB_167
1	.000002859	0.007885	.000096795	.000000503	.000346795	.002666667	.000080769	.003429487
2	.000007987	0.010369	.000215287	.000007987	.000620382	.003732484	.000074140	.004968153
3	.000014074	0.007654	.000021605	.000014074	.000274074	.007098765	.000040741	.002709877
4	.000002646	0.006673	.000033186	.000001699	.000137168	.003433628	.000069381	.002194690
5	.000002124	0.010422	.000030273	.000000548	.000315136	.005707196	.000035484	.003449132
6	.000004363	0.006952	.000012016	.000001331	.000160484	.004112903	.000076371	.002008065
7	.000003353	0.007110	.000004549	.008670520	.000169364	.003832370	.000010127	.002820809
8	.000003496	0.006350	.000102439	.000003496	.000299187	.003715447	.000087805	.002138211
9	.000007339	0.005754	.000007339	.000007339	.000142857	.002857143	.000063041	.001821756
10	.000036500	0.009188	.000036500	.000036500	.000285000	.004143750	.000111250	.002968750
11	.000019837	0.008211	.000385366	.000019837	.000582114	.005837398	.000025366	.002650407
12	.000002099	0.009648	.000008873	.000000209	.000219014	.004802817	.000020493	.003697183
13	.000002731	0.012037	.000013704	.000000381	.000491667	.006620370	.000015648	.004740741
14	.000002484	0.010011	.000128510	.000000092	.000411447	.005161987	.000000092	.003434125
15	.000004641	0.007468	.000010970	.000001046	.000159072	.003894515	.000092827	.002438819
16	.000004074	0.006790	.000010093	.000000275	.000250000	.003456790	.000000275	.001703704
17	.000003024	0.008939	.000007560	.000000546	.000137666	.004774536	.000041114	.002649867
18	.000002096	0.005570	.000006096	.000000379	.000237719	.002991228	.000052632	.001662281

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Obs	PCB_169	PCB_170	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
1	.000009231	0.006231	.000833333	0.002673	.000200000	.000535256	0.002397	.000929487	.001205128
2	.000049045	0.013376	.002471338	0.006089	.000426752	.000777070	0.005019	.002140127	.001987261
3	.000055309	0.008642	.002734568	0.016358	.000716049	.001462963	0.010000	.004641975	.006092593
4	.000010708	0.003407	.000606195	0.002965	.000166372	.000349558	0.002115	.000964602	.001106195
5	.000011390	0.005856	.000947891	0.004938	.000255583	.000593052	0.003424	.001406948	.001853598
6	.000011210	0.003234	.000616129	0.003919	.000194355	.000512903	0.002895	.001282258	.001677419
7	.000009017	0.006069	.000919075	0.003451	.000179191	.000297110	0.002434	.000953757	.001005780
8	.000014390	0.004821	.000003496	0.002862	.000156098	.000363415	0.002439	.001081301	.001300813
9	.000008532	0.003355	.000484928	0.002241	.000138925	.000327654	0.001769	.000753604	.001011796
10	.000036500	0.006500	.001081250	0.002988	.000270000	.000396875	0.003106	.001475000	.001281250
11	.000029106	0.009919	.002447154	0.011301	.000669919	.001869919	0.008618	.003926829	.005487805
12	.000005352	0.006225	.000929577	0.002796	.000243662	.000574648	0.002775	.000802817	.001098592
13	.000005000	0.007426	.001046296	0.003148	.000248148	.000589815	0.002667	.000662963	.000909259
14	.000008629	0.006134	.001072354	0.003639	.000300216	.000812095	0.003240	.001074514	.001641469
15	.000011772	0.004557	.000793249	0.002608	.000235443	.000683544	0.002468	.001092827	.001518987
16	.000005833	0.002420	.000456790	0.002667	.000202469	.000638889	0.002358	.000935185	.001546296
17	.000012467	0.005146	.000838196	0.003236	.000273210	.000750663	0.002865	.001045093	.001652520
18	.000009912	0.002917	.000064474	0.003061	.000204386	.000605263	0.002592	.000964912	.001500000

Obs	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187	PCB_188	PCB_189	PCB_190
1	.000189744	.000049231	.000007949	.000003833	0.006795	.000008782	.000303205	.000762821
2	.000307006	.000099745	.000014522	.000007987	0.021911	.000019236	.000529936	.001490446
3	.000148765	.000112346	.000017346	.000014074	0.085802	.000021173	.000423457	.000981481
4	.000125664	.000001699	.000006106	.000002239	0.011504	.000006956	.000184956	.000306195
5	.000203226	.000000548	.000008536	.000002978	0.018337	.000008213	.000317618	.000449132
6	.000117742	.000001331	.000007677	.000002460	0.015242	.000007976	.000208871	.000234677
7	.000182081	.000049711	.000007168	.000001728	0.011965	.000008382	.000231214	.000496532
8	.000135772	.000042846	.000007293	.000002211	0.011382	.000008943	.000193496	.000478049
9	.000110223	.000035518	.000007339	.000007339	0.004862	.000007339	.000130537	.000377457
10	.000176875	.000058188	.000036500	.000036500	0.011063	.000036500	.000286875	.000768750
11	.000177236	.000019837	.000019837	.000019837	0.038211	.000025366	.000380488	.001463415
12	.000211972	.000000209	.000007465	.000003711	0.005458	.000008521	.000298592	.000781690
13	.000226852	.000070926	.000007620	.000003694	0.004657	.000007417	.000375926	.000725926
14	.000185745	.000000092	.000007365	.000003056	0.011123	.000007549	.000347732	.000740821
15	.000139662	.000001046	.000007215	.000002924	0.009030	.000008059	.000254852	.000590717
16	.000096605	.000000275	.000005833	.000002836	0.005957	.000006512	.000159259	.000226235
17	.000155438	.000000546	.000006233	.000003607	0.007321	.000007507	.000264987	.000490716
18	.000101316	.000000379	.000005658	.000002732	0.006579	.000006360	.000172368	.000280263

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
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Obs	PCB_191	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202	PCB_203
1	.000228846	.000001141	.000955128	.000378846	.000492949	.000124359	.000186538	.000865385
2	.000485350	.000007987	.003936306	.001266242	.002038217	.000484076	.000784713	.003503185
3	.000532716	.000014074	.002407407	.001376543	.001722222	.001037037	.001376543	.003172840
4	.000155752	.000001699	.000474336	.000274336	.000282301	.000111504	.000150442	.000508850
5	.000258065	.000000548	.000704715	.000397022	.000389578	.000142184	.000180893	.000652605
6	.000150806	.000001331	.000490323	.000275806	.000280645	.000149194	.000189516	.000530645
7	.000226012	.000010127	.000641618	.000381503	.000360116	.000109249	.000169942	.000664740
8	.000178049	.000003496	.000647154	.000342276	.000381301	.000104065	.000183740	.000701626
9	.000126868	.000007339	.000349934	.000230668	.000238532	.000082045	.000129096	.000420708
10	.000227500	.000036500	.001131250	.000551250	.000731250	.000231875	.000335625	.001187500
11	.000498374	.000019837	.001886179	.001276423	.001829268	.000861789	.001154472	.003455285
12	.000249296	.000000209	.000459155	.000264789	.000342958	.000101408	.000127465	.000558451
13	.000306481	.000000381	.000675926	.000305556	.000374074	.000089630	.000103704	.000586111
14	.000278618	.000000092	.000745140	.000442765	.000557235	.000169546	.000163067	.000974082
15	.000202532	.000001046	.000573840	.000344726	.000489451	.000162447	.000168776	.000797468
16	.000133333	.000000275	.000250000	.000191358	.000222840	.000125000	.000121296	.000385802
17	.000238462	.000000546	.000657825	.000384615	.000461538	.000167374	.000156499	.000681698
18	.000000379	.005219298	.000392105	.000236404	.000271491	.000152632	.000162281	.000460526

Obs	PCB_204	PCB_205	PCB_206	PCB_207	PCB_208	PCB_209	PCB_12_13	PCB_107_124
1	.000001071	.000047692	.000367949	.000050641	.000119872	.000173718	.000032244	.001467949
2	.000007987	.000184713	.002382166	.000280255	.000741401	.001016561	.000015924	.001592357
3	.000014074	.000241358	.001944444	.000228395	.000660494	.001351852	.000028086	.001586420
4	.000001699	.000040885	.000207965	.000026726	.000053982	.000091150	.000083717	.002185841
5	.000000725	.000057568	.000226303	.000029529	.000049876	.000047891	.000047395	.003225806
6	.000001331	.000047097	.000226613	.000038065	.000068871	.000087903	.000067742	.002088710
7	.000010127	.000044393	.000240462	.000036358	.000068786	.000105780	.000070520	.002254335
8	.000003496	.000039106	.000229268	.000032033	.000069431	.000095122	.000124390	.002211382
9	.000007339	.000026081	.000158585	.000027654	.000057798	.000088073	.000099476	.001769332
10	.000036500	.000059500	.000456250	.000071250	.000154375	.000226250	.000116250	.002675000
11	.000019837	.000193496	.001487805	.000182114	.000562602	.000853659	.000039675	.001626016
12	.000000746	.000036197	.000210563	.000026831	.000056831	.000049366	.000027042	.002809859
13	.000000632	.000038333	.000220370	.000030093	.000051667	.000030556	.000015185	.003222222
14	.000000868	.000065983	.000247300	.000030346	.000056587	.000042225	.000039093	.002354212
15	.000001046	.000051477	.000217722	.000028861	.000056962	.000050633	.000038861	.001400844
16	.000000716	.000030864	.000123765	.000017840	.000033025	.000026235	.000055247	.001496914
17	.000001013	.000052520	.000200796	.000028117	.000050398	.000045889	.000055703	.002108753
18	.000000904	.000042632	.000314912	.000037851	.000110526	.000168860	.000075000	.001245614

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
Cornell-Dubilier Site, WA #0-360

Obs	PCB_110_ 115	PCB_128_ 166	PCB_129_ 138_163	PCB_134_ 143	PCB_135_ 151	PCB_139_ 140	PCB_147_ 149	PCB_153_ 168	PCB_156_ 157
1	0.066667	0.011538	0.07692	.003596154	0.015256	.001884615	0.041474	0.061026	0.008077
2	0.065223	0.014904	0.11516	.002484076	0.014140	.002089172	0.046115	0.092102	0.011236
3	0.059136	0.011667	0.10802	.003302469	0.036049	.001388889	0.091358	0.078395	0.004981
4	0.081062	0.010708	0.08097	.002725664	0.016460	.001610619	0.050265	0.053451	0.005894
5	0.078164	0.017643	0.11117	.003325062	0.023499	.002444169	0.065757	0.000022	0.010868
6	0.073226	0.010565	0.08226	.003580645	0.020806	.001645161	0.052581	0.055645	0.005911
7	0.076301	0.011734	0.08786	.002248555	0.015202	.001572254	0.043988	0.058382	0.007514
8	0.083740	0.009512	0.07984	.003113821	0.019350	.001544715	0.044878	0.052276	0.006276
9	0.099214	0.009214	0.06606	.002555701	0.012923	.001192661	0.031193	0.043381	0.005203
10	0.045500	0.013875	0.10125	.003637500	0.018188	.002056250	0.036063	0.075625	0.008750
11	0.077805	0.013008	0.09187	.002707317	0.023659	.001398374	0.059756	0.070081	0.006187
12	0.087324	0.015915	0.09296	.002830986	0.013380	.001922535	0.042465	0.058451	0.012535
13	0.088981	0.019352	0.11019	.002685185	0.012037	.002101852	0.044722	0.070833	0.015000
14	0.076350	0.013607	0.09546	.002624190	0.018575	.002181425	0.044600	0.067279	0.012095
15	0.090717	0.010844	0.07384	.002168776	0.016329	.001620253	0.040380	0.056540	0.007342
16	0.089815	0.009414	0.06512	.003046296	0.017778	.001336420	0.033333	0.043519	0.006080
17	0.083554	0.013926	0.07984	.002891247	0.015252	.001888594	0.036870	0.055438	0.009204
18	0.077193	0.008684	0.05877	.002701754	0.014693	.001078947	0.036798	0.042281	0.005219

Obs	PCB_171_ 173	PCB_18_30	PCB_180_ 193	PCB_183_ 185	PCB_197_ 200	PCB_198_ 199	PCB_20_28	PCB_21_33	PCB_26_ 29
1	.002032051	.003294872	0.010641	0.003417	.000145513	.001147436	.004455128	.000485256	0.006250
2	.004012739	.000816561	0.030318	0.008522	.000541401	.005261146	.003082803	.000259873	0.001157
3	.004851852	.001370370	0.021852	0.013148	.000709877	.004487654	.004827160	.000467284	0.002154
4	.001681416	.003141593	0.005416	0.003265	.000088496	.000660177	.007150442	.000502655	0.007416
5	.002803970	.001347395	0.009181	0.005211	.000144169	.000987593	.004416873	.000302730	0.002241
6	.001895161	.002645161	0.006766	0.004113	.000137097	.000758065	.008306452	.000487097	0.007105
7	.002248555	.002838150	0.010405	0.004029	.000104624	.000988439	.006878613	.000550289	0.007341
8	.001577236	.002544715	0.008618	0.003114	.000129268	.001227642	.009837398	.000718699	0.009919
9	.001293578	.003997379	0.005950	0.002503	.000086894	.000584535	.008283093	.000722149	0.010603
10	.002075000	.001037500	0.011813	0.004525	.000199375	.001893750	.008812500	.000743750	0.007813
11	.004365854	.001764228	0.024959	0.011870	.000829268	.003975610	.005008130	.000644715	0.001585
12	.002246479	.001563380	0.008169	0.003408	.000100704	.000584507	.003619718	.000250000	0.001183
13	.002537037	.000483333	0.009130	0.003713	.000086019	.000554630	.001500000	.000149074	0.000448
14	.002494600	.003088553	0.009687	0.004849	.000176026	.000883369	.008250540	.000830454	0.002484
15	.001953586	.001877637	0.008565	0.003992	.000178903	.000856540	.005274262	.000354008	0.003266
16	.001533951	.003487654	0.003858	0.003148	.000120062	.000304630	.007314815	.000592593	0.004938
17	.002368700	.002172414	0.008090	0.004748	.000162865	.000618037	.007294430	.000575597	0.003607
18	.001723684	.005087719	0.000177	0.003548	.000141228	.000425877	.008859649	.000820175	0.007193

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
Cornell-Dubilier Site, WA #0-360

Obs	PCB_40_41_71	PCB_44_47_65	PCB_45_51	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116	PCB_86_87_97_108_119_125
1	0.008269	0.036282	0.005231	0.043910	0.007949	.002903846	0.016474	0.013654	0.044615
2	0.001898	0.014268	0.000732	0.015287	0.000813	.001157962	0.012217	0.013758	0.036433
3	0.003562	0.011049	0.002309	0.011296	0.001179	.001259259	0.015988	0.007963	0.020864
4	0.006566	0.029912	0.005496	0.043009	0.004283	.003061947	0.024248	0.009735	0.037965
5	0.004069	0.020620	0.003176	0.022804	0.001645	.001066998	0.022605	0.013995	0.043921
6	0.006839	0.032661	0.004702	0.042258	0.004129	.003354839	0.022984	0.010000	0.035887
7	0.006243	0.030000	0.005052	0.042370	0.004225	.002895954	0.022948	0.011156	0.033931
8	0.007236	0.034553	0.003463	0.038130	0.005829	.003585366	0.023577	0.013659	0.039593
9	0.007182	0.035649	0.004509	0.046789	0.005963	.003184797	0.024377	0.012464	0.042202
10	0.004388	0.031250	0.001013	0.026563	0.002263	.002506250	0.022938	0.016625	0.034313
11	0.008211	0.021138	0.004179	0.016098	0.004057	.001691057	0.016260	0.010488	0.033740
12	0.007021	0.032465	0.005077	0.024789	0.004986	.000901408	0.020634	0.014085	0.054789
13	0.003833	0.017222	0.002148	0.011296	0.001991	.000396296	0.020926	0.012963	0.052222
14	0.007732	0.028726	0.005076	0.025270	0.005389	.001609071	0.019870	0.013067	0.041901
15	0.013291	0.041772	0.007426	0.046835	0.010127	.003573840	0.012743	0.012616	0.045570
16	0.013920	0.049074	0.009352	0.056173	0.014969	.005370370	0.020185	0.010710	0.041358
17	0.011008	0.038992	0.008170	0.036340	0.009231	.002421751	0.021830	0.012255	0.043501
18	0.016272	0.052193	0.012675	0.060526	0.018904	.005394737	0.018289	0.007500	0.038684

Obs	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
1	0.012628	0.062115	.002762821
2	0.007643	0.074395	.001439490
3	0.007963	0.043025	.001271605
4	0.010619	0.072478	.002389381
5	0.009653	0.084864	.002228288
6	0.010565	0.068306	.002774194
7	0.009595	0.073988	.002121387
8	0.009512	0.069024	.002821138
9	0.011022	0.077195	.002883355
10	0.006938	0.078750	.002531250
11	0.010894	0.053496	.002479675
12	0.010634	0.071127	.003500000
13	0.008583	0.073796	.002342593
14	0.012527	0.064687	.003336933
15	0.013586	0.065823	.003670886
16	0.014352	0.061728	.004351852
17	0.012281	0.058621	.003660477
18	0.013596	0.061404	.003916667

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Observations	8
Variables	157

Simple Statistics

	PCB_1	PCB_2	PCB_3	PCB_4	PCB_5	PCB_6
Mean	0.0001487843	0.0000086207	0.0000195134	0.0020841779	0.0000125520	0.0002724555
StD	0.0000817861	0.0000120676	0.0000097737	0.0011328721	0.0000100113	0.0000954442

Simple Statistics

	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11	PCB_14
Mean	0.0000489320	0.0009237970	0.0000697529	0.0001833268	0.0001747202	0.0000093893
StD	0.0000158825	0.0003280461	0.0000224563	0.0001119199	0.0002436775	0.0000119443

Simple Statistics

	PCB_15	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
Mean	0.0002441766	0.0003990200	0.0032640250	0.0012180452	0.0014453383	0.0000106810
StD	0.0000859793	0.0001661419	0.0015896340	0.0007333514	0.0004592416	0.0000109336

Simple Statistics

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32	PCB_34
Mean	0.0000561110	0.0028090743	0.0028595249	0.0042803740	0.0035546386	0.0000538048
StD	0.0000904489	0.0011296875	0.0017601391	0.0011920627	0.0013079901	0.0000250712

Simple Statistics

	PCB_35	PCB_37	PCB_38	PCB_39	PCB_42	PCB_43
Mean	0.0000093893	0.0005137736	0.0000260920	0.0000237803	0.0043029660	0.0001897174
StD	0.0000119443	0.0001091652	0.0000110240	0.0000070509	0.0011045995	0.0002095892

Simple Statistics

	PCB_46	PCB_48	PCB_52	PCB_54	PCB_55	PCB_56
Mean	0.0002794340	0.0005628655	0.0527948246	0.0002113035	0.0000303219	0.0025851951
StD	0.0001331378	0.0001111693	0.0176434711	0.0001280470	0.0000423753	0.0002942654

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Simple Statistics

	PCB_57	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
Mean	0.0006568844	0.0002559925	0.0011924717	0.0007892064	0.0058229954	0.0165415943
StD	0.0002968566	0.0001073264	0.0002424255	0.0002055355	0.0014086739	0.0030944255

Simple Statistics

	PCB_67	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
Mean	0.0008186157	0.0013114592	0.0018650912	0.0005168905	0.0000181054	0.0004732584
StD	0.0002916504	0.0005458275	0.0008121099	0.0001327411	0.0000131805	0.0002300200

Simple Statistics

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89	PCB_92
Mean	0.0000395524	0.0032603149	0.0014695960	0.0054537213	0.0001135459	0.0186613125
StD	0.0000104049	0.0008036692	0.0004011664	0.0013696792	0.0000327015	0.0034572242

Simple Statistics

	PCB_94	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
Mean	0.0002077287	0.0353668156	0.0001580562	0.0425657470	0.0009680908	0.0000311477
StD	0.0000897846	0.0058766359	0.0000669247	0.0106036900	0.0002970334	0.0000080317

Simple Statistics

	PCB_105	PCB_109	PCB_111	PCB_114	PCB_118	PCB_120
Mean	0.0159316362	0.0046797595	0.0001089368	0.0008947966	0.0560844030	0.0004201317
StD	0.0044922516	0.0011628772	0.0000555417	0.0003111920	0.0154481869	0.0001696469

Simple Statistics

	PCB_121	PCB_122	PCB_123	PCB_126	PCB_127	PCB_130
Mean	0.0000384665	0.0005462482	0.0010635578	0.0001443437	0.0001071428	0.0041016604
StD	0.0000143476	0.0000994009	0.0002964811	0.0000729884	0.0000303576	0.0008589036

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_131	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
Mean	0.0005001996	0.0136817521	0.0013048358	0.0041274259	0.0049164810	0.0090843660
StD	0.0000849498	0.0024549958	0.0002310204	0.0010207193	0.0012802403	0.0026540566

Simple Statistics

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148	PCB_150
Mean	0.0000095936	0.0021176169	0.0000175057	0.0113390756	0.0000815903	0.0000572219
StD	0.0000118426	0.0005844447	0.0000081497	0.0055944679	0.0000132705	0.0000105926

Simple Statistics

	PCB_152	PCB_154	PCB_155	PCB_158	PCB_159	PCB_161
Mean	0.0000424463	0.0008177228	0.0000092369	0.0075126076	0.0000309884	0.0010919385
StD	0.0000064079	0.0001457108	0.0000116842	0.0015546368	0.0000312758	0.0030622327

Simple Statistics

	PCB_162	PCB_164	PCB_165	PCB_167	PCB_169	PCB_170
Mean	0.0002229089	0.0043626504	0.0000617748	0.0025139112	0.0000196319	0.0052355856
StD	0.0000768311	0.0013749870	0.0000320691	0.0005596065	0.0000170680	0.0019026460

Simple Statistics

	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
Mean	0.0009241914	0.0049651569	0.0002595716	0.0005379412	0.0035228319	0.0015699307
StD	0.0008052839	0.0046742861	0.0001901727	0.0003868181	0.0026712431	0.0012653080

Simple Statistics

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
Mean	0.0019161804	0.0001500435	0.0000377732	0.0000122456	0.0000086912	0.0212698269
StD	0.0017149749	0.0000338134	0.0000381093	0.0000104266	0.0000119983	0.0263560609

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192	PCB_194
Mean	0.0000131852	0.0002471279	0.0005115341	0.0002319709	0.0000093893	0.0008558423
StD	0.0000105105	0.0000923445	0.0002475715	0.0001295791	0.0000119443	0.0006687494

Simple Statistics

	PCB_195	PCB_196	PCB_201	PCB_202	PCB_203	PCB_204
Mean	0.0004786758	0.0005482431	0.0002458940	0.0003394747	0.0009799392	0.0000094114
StD	0.0003761774	0.0004983415	0.0003229120	0.0004236152	0.0009159211	0.0000119258

Simple Statistics

	PCB_205	PCB_206	PCB_207	PCB_208	PCB_209	PCB_12_13
Mean	0.0000694985	0.0004612362	0.0000612511	0.0001479517	0.0002617528	0.0000796970
StD	0.0000702421	0.0006057425	0.0000690498	0.0002097631	0.0004435087	0.0000331128

Simple Statistics

	PCB_107_124	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
Mean	0.0022496032	0.0745426717	0.0118645946	0.0896782720	0.0030611772	0.0203096062
StD	0.0005121166	0.0161887533	0.0027535326	0.0156810341	0.0005015766	0.0071619272

Simple Statistics

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
Mean	0.0016818398	0.0520103286	0.0521472282	0.0069248853	0.0023033460	0.0023652830
StD	0.0003934599	0.0190619506	0.0241627136	0.0020171703	0.0011276353	0.0010274435

Simple Statistics

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28	PCB_21_33
Mean	0.0100000323	0.0049885570	0.0001999749	0.0014484819	0.0073140665	0.0005618316
StD	0.0052694344	0.0034056925	0.0002092074	0.0012957164	0.0019022982	0.0001552404

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51	PCB_49_69	PCB_50_53
Mean	0.0068238633	0.0057605639	0.0282117657	0.0037148082	0.0341523369	0.0036896120
StD	0.0031246354	0.0015033972	0.0083049998	0.0015210959	0.0125126610	0.0018165848

Simple Statistics

	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113
Mean	0.0026144261	0.0224581178	0.0119495097	0.0360843698	0.0094833631	0.0709538317
StD	0.0009515780	0.0026932190	0.0027892324	0.0071128626	0.0013970863	0.0125100832

Simple Statistics

	PCB_93_98_100_102
Mean	0.0023775747
StD	0.0005270826

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_1	PCB 1	0.0000000067	-.0000000003	0.0000000003
PCB_2	PCB 2	-.0000000003	0.0000000001	0.0000000001
PCB_3	PCB 3	0.0000000003	0.0000000001	0.0000000001
PCB_4	PCB 4	0.0000000718	-.0000000093	-.0000000022
PCB_5	PCB 5	-.0000000002	0.0000000001	0.0000000001
PCB_6	PCB 6	0.0000000045	0.0000000001	0.0000000003
PCB_7	PCB 7	0.0000000010	-.0000000001	0.0000000000
PCB_8	PCB 8	0.0000000152	0.0000000009	0.0000000018
PCB_9	PCB 9	0.0000000015	-.0000000001	0.0000000000
PCB_10	PCB 10	0.0000000077	-.0000000009	-.0000000001
PCB_11	PCB 11	-.0000000112	0.0000000023	0.0000000010
PCB_14	PCB 14	-.0000000003	0.0000000001	0.0000000001
PCB_15	PCB 15	0.0000000034	0.0000000005	0.0000000006
PCB_16	PCB 16	0.0000000028	0.0000000002	-.0000000001
PCB_17	PCB 17	0.0000000914	-.0000000113	-.0000000037
PCB_19	PCB 19	0.0000000377	-.0000000058	-.0000000025
PCB_22	PCB 22	0.0000000060	0.0000000023	0.0000000009
PCB_23	PCB 23	-.0000000003	0.0000000001	0.0000000001
PCB_24	PCB 24	-.0000000004	0.0000000000	-.0000000002
PCB_25	PCB 25	0.0000000467	-.0000000012	0.0000000004
PCB_27	PCB 27	0.0000000537	-.0000000005	-.0000000003
PCB_31	PCB 31	0.0000000367	0.0000000024	0.0000000026
PCB_32	PCB 32	0.0000000619	-.0000000044	-.0000000011
PCB_34	PCB 34	0.0000000008	0.0000000001	0.0000000001
PCB_35	PCB 35	-.0000000003	0.0000000001	0.0000000001
PCB_37	PCB 37	0.0000000029	0.0000000006	0.0000000007
PCB_38	PCB 38	0.0000000002	0.0000000000	0.0000000000
PCB_39	PCB 39	0.0000000002	0.0000000001	0.0000000000
PCB_42	PCB 42	0.0000000588	-.0000000094	-.0000000032
PCB_43	PCB 43	-.0000000054	0.0000000018	0.0000000006
PCB_46	PCB 46	0.0000000032	-.0000000006	-.0000000005
PCB_48	PCB 48	0.0000000031	0.0000000003	0.0000000004
PCB_52	PCB 52	0.0000010268	-.0000001174	-.0000000315
PCB_54	PCB 54	0.0000000069	-.0000000010	-.0000000004
PCB_55	PCB 55	-.0000000015	0.0000000001	-.0000000000
PCB_56	PCB 56	0.0000000047	-.0000000019	-.0000000006
PCB_57	PCB 57	0.0000000157	0.0000000004	0.0000000011
PCB_58	PCB 58	0.0000000062	0.0000000000	0.0000000004
PCB_60	PCB 60	-.0000000118	0.0000000013	0.0000000003
PCB_63	PCB 63	0.0000000066	0.0000000007	0.0000000006

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_1	0.0000000718	-.0000000002	0.0000000045	0.0000000010	0.0000000152
PCB_2	-.0000000093	0.0000000001	0.0000000001	-.0000000001	0.0000000009
PCB_3	-.0000000022	0.0000000001	0.0000000003	0.0000000000	0.0000000018
PCB_4	0.0000012834	-.0000000069	0.0000000578	0.0000000141	0.0000001187
PCB_5	-.0000000069	0.0000000001	0.0000000002	-.0000000000	0.0000000013
PCB_6	0.0000000578	0.0000000002	0.0000000091	0.0000000010	0.0000000267
PCB_7	0.0000000141	-.0000000000	0.0000000010	0.0000000003	0.0000000035
PCB_8	0.0000001187	0.0000000013	0.0000000267	0.0000000035	0.0000001076
PCB_9	0.0000000198	-.0000000000	0.0000000018	0.0000000003	0.0000000060
PCB_10	0.0000001177	-.0000000007	0.0000000048	0.0000000016	0.0000000148
PCB_11	-.0000002312	0.0000000017	-.0000000096	-.0000000024	-.0000000232
PCB_14	-.0000000083	0.0000000001	0.0000000001	-.0000000001	0.0000000008
PCB_15	0.0000000096	0.0000000005	0.0000000064	0.0000000004	0.0000000222
PCB_16	0.0000000675	-.0000000001	0.0000000061	-.0000000002	-.0000000008
PCB_17	0.0000017109	-.0000000091	0.0000000721	0.0000000160	0.0000001341
PCB_19	0.0000007949	-.0000000048	0.0000000304	0.0000000068	0.0000000320
PCB_22	0.0000000852	0.0000000014	0.0000000260	-.0000000002	0.0000000538
PCB_23	-.0000000082	0.0000000001	0.0000000002	-.0000000001	0.0000000011
PCB_24	0.0000000238	-.0000000001	-.0000000009	-.0000000004	-.0000000095
PCB_25	0.0000008063	-.0000000010	0.0000000918	0.0000000083	0.0000001932
PCB_27	0.0000009763	-.0000000014	0.0000001229	0.0000000067	0.0000002246
PCB_31	0.0000005184	0.0000000021	0.0000001008	0.0000000070	0.0000002328
PCB_32	0.0000011313	-.0000000037	0.0000000985	0.0000000111	0.0000001896
PCB_34	0.0000000089	0.0000000001	0.0000000019	0.0000000001	0.0000000050
PCB_35	-.0000000083	0.0000000001	0.0000000001	-.0000000001	0.0000000008
PCB_37	-.0000000143	0.0000000005	0.0000000058	0.0000000002	0.0000000175
PCB_38	0.0000000029	0.0000000000	0.0000000007	0.0000000000	0.0000000017
PCB_39	-.0000000001	0.0000000000	0.0000000003	0.0000000000	0.0000000014
PCB_42	0.0000011781	-.0000000070	0.0000000563	0.0000000141	0.0000001054
PCB_43	-.0000001127	0.0000000012	0.0000000021	-.0000000020	-.0000000041
PCB_46	0.0000001032	-.0000000006	0.0000000052	0.0000000005	-.0000000021
PCB_48	0.0000000154	0.0000000000	0.0000000000	-.0000000003	-.0000000081
PCB_52	0.0000192080	-.0000000861	0.0000010294	0.0000002120	0.0000022604
PCB_54	0.0000001422	-.0000000008	0.0000000060	0.0000000014	0.0000000089
PCB_55	-.0000000121	0.0000000001	-.0000000011	-.0000000001	-.0000000053
PCB_56	0.0000000923	-.0000000017	-.0000000092	0.0000000012	-.0000000357
PCB_57	0.0000001908	0.0000000005	0.0000000262	0.0000000026	0.0000000747
PCB_58	0.0000000777	0.0000000001	0.0000000092	0.0000000012	0.0000000277
PCB_60	-.0000002053	0.0000000008	-.0000000157	-.0000000023	-.0000000435
PCB_63	0.0000000770	0.0000000007	0.0000000167	0.0000000011	0.0000000517

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_1	0.0000000015	0.0000000077	-.0000000112	-.0000000003	0.0000000034
PCB_2	-.0000000001	-.0000000009	0.0000000023	0.0000000001	0.0000000005
PCB_3	0.0000000000	-.0000000001	0.0000000010	0.0000000001	0.0000000006
PCB_4	0.0000000198	0.0000001177	-.0000002312	-.0000000083	0.0000000096
PCB_5	-.0000000000	-.0000000007	0.0000000017	0.0000000001	0.0000000005
PCB_6	0.0000000018	0.0000000048	-.0000000096	0.0000000001	0.0000000064
PCB_7	0.0000000003	0.0000000016	-.0000000024	-.0000000001	0.0000000004
PCB_8	0.0000000060	0.0000000148	-.0000000232	0.0000000008	0.0000000222
PCB_9	0.0000000005	0.0000000020	-.0000000035	-.0000000001	0.0000000010
PCB_10	0.0000000020	0.0000000125	-.0000000218	-.0000000009	0.0000000006
PCB_11	-.0000000035	-.0000000218	0.0000000594	0.0000000022	-.0000000007
PCB_14	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000005
PCB_15	0.0000000010	0.0000000006	-.0000000007	0.0000000005	0.0000000074
PCB_16	0.0000000005	0.0000000010	-.0000000051	0.0000000002	0.0000000042
PCB_17	0.0000000241	0.0000001503	-.0000003017	-.0000000107	0.0000000072
PCB_19	0.0000000101	0.0000000658	-.0000001415	-.0000000052	-.0000000004
PCB_22	0.0000000025	-.0000000033	0.0000000005	0.0000000021	0.0000000220
PCB_23	-.0000000001	-.0000000008	0.0000000020	0.0000000001	0.0000000005
PCB_24	-.0000000004	-.0000000002	-.0000000006	0.0000000001	-.0000000016
PCB_25	0.0000000169	0.0000000530	-.0000001359	-.0000000009	0.0000000562
PCB_27	0.0000000188	0.0000000492	-.0000001820	-.0000000007	0.0000000835
PCB_31	0.0000000159	0.0000000266	-.0000000721	0.0000000025	0.0000000734
PCB_32	0.0000000205	0.0000000826	-.0000001992	-.0000000040	0.0000000501
PCB_34	0.0000000003	0.0000000004	-.0000000012	0.0000000001	0.0000000017
PCB_35	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000005
PCB_37	0.0000000006	-.0000000015	0.0000000057	0.0000000005	0.0000000078
PCB_38	0.0000000001	0.0000000001	-.0000000002	0.0000000000	0.0000000006
PCB_39	0.0000000000	-.0000000000	0.0000000004	0.0000000001	0.0000000004
PCB_42	0.0000000192	0.0000001101	-.0000002102	-.0000000088	-.0000000015
PCB_43	-.0000000018	-.0000000158	0.0000000279	0.0000000017	0.0000000078
PCB_46	0.0000000010	0.0000000059	-.0000000148	-.0000000004	0.0000000003
PCB_48	-.0000000003	-.0000000002	0.0000000067	0.0000000002	0.0000000024
PCB_52	0.0000003156	0.0000017141	-.0000032913	-.0000001062	0.0000001964
PCB_54	0.0000000020	0.0000000121	-.0000000257	-.0000000009	0.0000000003
PCB_55	-.0000000003	-.0000000017	0.0000000050	0.0000000002	-.0000000010
PCB_56	0.0000000002	0.0000000139	-.0000000042	-.0000000021	-.0000000153
PCB_57	0.0000000052	0.0000000149	-.0000000283	0.0000000004	0.0000000196
PCB_58	0.0000000021	0.0000000070	-.0000000112	0.0000000000	0.0000000061
PCB_60	-.0000000039	-.0000000173	0.0000000511	0.0000000010	-.0000000094
PCB_63	0.0000000028	0.0000000047	-.0000000149	0.0000000006	0.0000000134

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_1	0.0000000028	0.0000000914	0.0000000377	0.0000000060	-.0000000003
PCB_2	0.0000000002	-.0000000113	-.0000000058	0.0000000023	0.0000000001
PCB_3	-.0000000001	-.0000000037	-.0000000025	0.0000000009	0.0000000001
PCB_4	0.0000000675	0.0000017109	0.0000007949	0.0000000852	-.0000000082
PCB_5	-.0000000001	-.0000000091	-.0000000048	0.0000000014	0.0000000001
PCB_6	0.0000000061	0.0000000721	0.0000000304	0.0000000260	0.0000000002
PCB_7	-.0000000002	0.0000000160	0.0000000068	-.0000000002	-.0000000001
PCB_8	-.0000000008	0.0000001341	0.0000000320	0.0000000538	0.0000000011
PCB_9	0.0000000005	0.0000000241	0.0000000101	0.0000000025	-.0000000001
PCB_10	0.0000000010	0.0000001503	0.0000000658	-.0000000033	-.0000000008
PCB_11	-.0000000051	-.0000003017	-.0000001415	0.0000000005	0.0000000020
PCB_14	0.0000000002	-.0000000107	-.0000000052	0.0000000021	0.0000000001
PCB_15	0.0000000042	0.0000000072	-.0000000004	0.0000000220	0.0000000005
PCB_16	0.0000000276	0.0000001385	0.0000000671	0.0000000655	0.0000000001
PCB_17	0.0000001385	0.0000025269	0.0000011333	0.0000002566	-.0000000103
PCB_19	0.0000000671	0.0000011333	0.0000005378	0.0000000984	-.0000000053
PCB_22	0.0000000655	0.0000002566	0.0000000984	0.0000002109	0.0000000021
PCB_23	0.0000000001	-.0000000103	-.0000000053	0.0000000021	0.0000000001
PCB_24	0.0000000109	0.0000000657	0.0000000309	0.0000000217	-.0000000000
PCB_25	0.0000001449	0.0000012238	0.0000005556	0.0000004181	-.0000000003
PCB_27	0.0000002462	0.0000016428	0.0000007502	0.0000006986	0.0000000004
PCB_31	0.0000001376	0.0000007946	0.0000003498	0.0000004603	0.0000000032
PCB_32	0.0000001629	0.0000016759	0.0000007710	0.0000004236	-.0000000033
PCB_34	0.0000000031	0.0000000166	0.0000000066	0.0000000107	0.0000000001
PCB_35	0.0000000002	-.0000000107	-.0000000052	0.0000000021	0.0000000001
PCB_37	0.0000000057	-.0000000238	-.0000000149	0.0000000262	0.0000000006
PCB_38	0.0000000014	0.0000000071	0.0000000025	0.0000000049	0.0000000000
PCB_39	0.0000000005	0.0000000017	-.0000000001	0.0000000025	0.0000000001
PCB_42	0.0000000604	0.0000015942	0.0000007325	0.0000000932	-.0000000080
PCB_43	0.0000000214	-.0000001045	-.0000000481	0.0000000695	0.0000000016
PCB_46	0.0000000190	0.0000001643	0.0000000822	0.0000000373	-.0000000005
PCB_48	0.0000000120	0.0000000349	0.0000000181	0.0000000208	0.0000000002
PCB_52	0.0000013826	0.0000273287	0.0000122465	0.0000029173	-.0000001009
PCB_54	0.0000000099	0.0000001947	0.0000000929	0.0000000133	-.0000000009
PCB_55	-.0000000008	-.0000000243	-.0000000067	-.0000000056	0.0000000001
PCB_56	-.0000000056	0.0000001348	0.0000000564	-.0000000436	-.0000000018
PCB_57	0.0000000305	0.0000002880	0.0000001160	0.0000001072	0.0000000006
PCB_58	0.0000000093	0.0000001159	0.0000000453	0.0000000345	0.0000000001
PCB_60	-.0000000104	-.0000002550	-.0000001219	-.0000000248	0.0000000010
PCB_63	0.0000000192	0.0000001394	0.0000000495	0.0000000795	0.0000000008

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_1	-.0000000004	0.0000000467	0.0000000537	0.0000000367	0.0000000619
PCB_2	0.0000000000	-.0000000012	-.0000000005	0.0000000024	-.0000000044
PCB_3	-.0000000002	0.0000000004	-.0000000003	0.0000000026	-.0000000011
PCB_4	0.0000000238	0.0000008063	0.0000009763	0.0000005184	0.0000011313
PCB_5	-.0000000001	-.0000000010	-.0000000014	0.0000000021	-.0000000037
PCB_6	-.0000000009	0.0000000918	0.0000001229	0.0000001008	0.0000000985
PCB_7	-.0000000004	0.0000000083	0.0000000067	0.0000000070	0.0000000111
PCB_8	-.0000000095	0.0000001932	0.0000002246	0.0000002328	0.0000001896
PCB_9	-.0000000004	0.0000000169	0.0000000188	0.0000000159	0.0000000205
PCB_10	-.0000000002	0.0000000530	0.0000000492	0.0000000266	0.0000000826
PCB_11	-.0000000006	-.0000001359	-.0000001820	-.0000000721	-.0000001992
PCB_14	0.0000000001	-.0000000009	-.0000000007	0.0000000025	-.0000000040
PCB_15	-.0000000016	0.0000000562	0.0000000835	0.0000000734	0.0000000501
PCB_16	0.0000000109	0.0000001449	0.0000002462	0.0000001376	0.0000001629
PCB_17	0.0000000657	0.0000012238	0.0000016428	0.0000007946	0.0000016759
PCB_19	0.0000000309	0.0000005556	0.0000007502	0.0000003498	0.0000007710
PCB_22	0.0000000217	0.0000004181	0.0000006986	0.0000004603	0.0000004236
PCB_23	-.0000000000	-.0000000003	0.0000000004	0.0000000032	-.0000000033
PCB_24	0.0000000082	0.0000000300	0.0000000571	0.0000000127	0.0000000381
PCB_25	0.0000000300	0.0000012762	0.0000019204	0.0000012702	0.0000014437
PCB_27	0.0000000571	0.0000019204	0.0000030981	0.0000019293	0.0000021397
PCB_31	0.0000000127	0.0000012702	0.0000019293	0.0000014210	0.0000013408
PCB_32	0.0000000381	0.0000014437	0.0000021397	0.0000013408	0.0000017108
PCB_34	0.0000000007	0.0000000252	0.0000000400	0.0000000276	0.0000000260
PCB_35	0.0000000001	-.0000000009	-.0000000007	0.0000000025	-.0000000040
PCB_37	-.0000000032	0.0000000569	0.0000000954	0.0000000869	0.0000000475
PCB_38	0.0000000004	0.0000000104	0.0000000169	0.0000000116	0.0000000108
PCB_39	0.0000000002	0.0000000038	0.0000000059	0.0000000047	0.0000000032
PCB_42	0.0000000152	0.0000007980	0.0000009640	0.0000005677	0.0000011138
PCB_43	0.0000000063	0.0000000697	0.0000001698	0.0000001168	0.0000000372
PCB_46	0.0000000081	0.0000001169	0.0000001787	0.0000000949	0.0000001462
PCB_48	0.0000000047	0.0000000321	0.0000000610	0.0000000307	0.0000000365
PCB_52	0.0000005441	0.0000146126	0.0000186094	0.0000107341	0.0000193812
PCB_54	0.0000000043	0.0000000950	0.0000001216	0.0000000604	0.0000001320
PCB_55	0.0000000005	-.0000000174	-.0000000325	-.0000000153	-.0000000215
PCB_56	-.0000000002	-.0000000655	-.0000001370	-.0000001063	-.0000000187
PCB_57	0.0000000049	0.0000003088	0.0000004441	0.0000003207	0.0000003367
PCB_58	0.0000000013	0.0000001057	0.0000001446	0.0000001074	0.0000001188
PCB_60	-.0000000006	-.0000001801	-.0000002487	-.0000001428	-.0000002229
PCB_63	0.0000000036	0.0000001961	0.0000003000	0.0000002135	0.0000002012

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_1	0.0000000008	-.0000000003	0.0000000029	0.0000000002	0.0000000002
PCB_2	0.0000000001	0.0000000001	0.0000000006	0.0000000000	0.0000000001
PCB_3	0.0000000001	0.0000000001	0.0000000007	0.0000000000	0.0000000000
PCB_4	0.0000000089	-.0000000083	-.0000000143	0.0000000029	-.0000000001
PCB_5	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000000
PCB_6	0.0000000019	0.0000000001	0.0000000058	0.0000000007	0.0000000003
PCB_7	0.0000000001	-.0000000001	0.0000000002	0.0000000000	0.0000000000
PCB_8	0.0000000050	0.0000000008	0.0000000175	0.0000000017	0.0000000014
PCB_9	0.0000000003	-.0000000001	0.0000000006	0.0000000001	0.0000000000
PCB_10	0.0000000004	-.0000000009	-.0000000015	0.0000000001	-.0000000000
PCB_11	-.0000000012	0.0000000022	0.0000000057	-.0000000002	0.0000000004
PCB_14	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000001
PCB_15	0.0000000017	0.0000000005	0.0000000078	0.0000000006	0.0000000004
PCB_16	0.0000000031	0.0000000002	0.0000000057	0.0000000014	0.0000000005
PCB_17	0.0000000166	-.0000000107	-.0000000238	0.0000000071	0.0000000017
PCB_19	0.0000000066	-.0000000052	-.0000000149	0.0000000025	-.0000000001
PCB_22	0.0000000107	0.0000000021	0.0000000262	0.0000000049	0.0000000025
PCB_23	0.0000000001	0.0000000001	0.0000000006	0.0000000000	0.0000000001
PCB_24	0.0000000007	0.0000000001	-.0000000032	0.0000000004	0.0000000002
PCB_25	0.0000000252	-.0000000009	0.0000000569	0.0000000104	0.0000000038
PCB_27	0.0000000400	-.0000000007	0.0000000954	0.0000000169	0.0000000059
PCB_31	0.0000000276	0.0000000025	0.0000000869	0.0000000116	0.0000000047
PCB_32	0.0000000260	-.0000000040	0.0000000475	0.0000000108	0.0000000032
PCB_34	0.0000000006	0.0000000001	0.0000000018	0.0000000003	0.0000000001
PCB_35	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000001
PCB_37	0.0000000018	0.0000000005	0.0000000119	0.0000000007	0.0000000004
PCB_38	0.0000000003	0.0000000000	0.0000000007	0.0000000001	0.0000000001
PCB_39	0.0000000001	0.0000000001	0.0000000004	0.0000000001	0.0000000000
PCB_42	0.0000000076	-.0000000088	-.0000000136	0.0000000036	-.0000000005
PCB_43	0.0000000030	0.0000000017	0.0000000137	0.0000000014	0.0000000008
PCB_46	0.0000000018	-.0000000004	-.0000000003	0.0000000008	0.0000000001
PCB_48	0.0000000009	0.0000000002	0.0000000051	0.0000000004	0.0000000003
PCB_52	0.0000002004	-.0000001062	-.0000001511	0.0000000845	0.0000000209
PCB_54	0.0000000011	-.0000000009	-.0000000027	0.0000000004	-.0000000000
PCB_55	-.0000000004	0.0000000002	-.0000000015	-.0000000002	-.0000000001
PCB_56	-.0000000034	-.0000000021	-.0000000090	-.0000000007	-.0000000007
PCB_57	0.0000000069	0.0000000004	0.0000000183	0.0000000028	0.0000000015
PCB_58	0.0000000022	0.0000000000	0.0000000056	0.0000000009	0.0000000005
PCB_60	-.0000000030	0.0000000010	-.0000000018	-.0000000007	-.0000000001
PCB_63	0.0000000049	0.0000000006	0.0000000119	0.0000000020	0.0000000011

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_1	0.0000000588	-.0000000054	0.0000000032	0.0000000031	0.0000010268
PCB_2	-.0000000094	0.0000000018	-.0000000006	0.0000000003	-.0000001174
PCB_3	-.0000000032	0.0000000006	-.0000000005	0.0000000004	-.0000000315
PCB_4	0.0000011781	-.0000001127	0.0000001032	0.0000000154	0.0000192080
PCB_5	-.0000000070	0.0000000012	-.0000000006	0.0000000000	-.0000000861
PCB_6	0.0000000563	0.0000000021	0.0000000052	0.0000000000	0.0000010294
PCB_7	0.0000000141	-.0000000020	0.0000000005	-.0000000003	0.0000002120
PCB_8	0.0000001054	-.0000000041	-.0000000021	-.0000000081	0.0000022604
PCB_9	0.0000000192	-.0000000018	0.0000000010	-.0000000003	0.0000003156
PCB_10	0.0000001101	-.0000000158	0.0000000059	-.0000000002	0.0000017141
PCB_11	-.0000002102	0.0000000279	-.0000000148	0.0000000067	-.0000032913
PCB_14	-.0000000088	0.0000000017	-.0000000004	0.0000000002	-.0000001062
PCB_15	-.0000000015	0.0000000078	0.0000000003	0.0000000024	0.0000001964
PCB_16	0.0000000604	0.0000000214	0.0000000190	0.0000000120	0.0000013826
PCB_17	0.0000015942	-.0000001045	0.0000001643	0.0000000349	0.0000273287
PCB_19	0.0000007325	-.0000000481	0.0000000822	0.0000000181	0.0000122465
PCB_22	0.0000000932	0.0000000695	0.0000000373	0.0000000208	0.0000029173
PCB_23	-.0000000080	0.0000000016	-.0000000005	0.0000000002	-.0000001009
PCB_24	0.0000000152	0.0000000063	0.0000000081	0.0000000047	0.0000005441
PCB_25	0.0000007980	0.0000000697	0.0000001169	0.0000000321	0.0000146126
PCB_27	0.0000009640	0.0000001698	0.0000001787	0.0000000610	0.0000186094
PCB_31	0.0000005677	0.0000001168	0.0000000949	0.0000000307	0.0000107341
PCB_32	0.0000011138	0.0000000372	0.0000001462	0.0000000365	0.0000193812
PCB_34	0.0000000076	0.0000000030	0.0000000018	0.0000000009	0.0000002004
PCB_35	-.0000000088	0.0000000017	-.0000000004	0.0000000002	-.0000001062
PCB_37	-.0000000136	0.0000000137	-.0000000003	0.0000000051	-.0000001511
PCB_38	0.0000000036	0.0000000014	0.0000000008	0.0000000004	0.0000000845
PCB_39	-.0000000005	0.0000000008	0.0000000001	0.0000000003	0.0000000209
PCB_42	0.0000012201	-.0000001099	0.0000001023	-.0000000009	0.0000185728
PCB_43	-.0000001099	0.0000000439	0.0000000046	0.0000000118	-.0000012763
PCB_46	0.0000001023	0.0000000046	0.0000000177	0.0000000060	0.0000017741
PCB_48	-.0000000009	0.0000000118	0.0000000060	0.0000000124	0.0000001982
PCB_52	0.0000185728	-.0000012763	0.0000017741	0.0000001982	0.0003112921
PCB_54	0.0000001303	-.0000000106	0.0000000134	0.0000000021	0.0000021558
PCB_55	-.0000000132	0.0000000000	-.0000000002	0.0000000004	-.0000002256
PCB_56	0.0000001430	-.0000000282	0.0000000052	0.0000000041	0.0000013750
PCB_57	0.0000001750	0.0000000163	0.0000000216	0.0000000080	0.0000035618
PCB_58	0.0000000769	0.0000000022	0.0000000075	0.0000000020	0.0000014424
PCB_60	-.0000001619	0.0000000135	-.0000000142	0.0000000034	-.0000029297
PCB_63	0.0000000720	0.0000000171	0.0000000112	0.0000000012	0.0000017745

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_1	0.0000000069	-.0000000015	0.0000000047	0.0000000157	0.0000000062
PCB_2	-.0000000010	0.0000000001	-.0000000019	0.0000000004	0.0000000000
PCB_3	-.0000000004	-.0000000000	-.0000000006	0.0000000011	0.0000000004
PCB_4	0.0000001422	-.0000000121	0.0000000923	0.0000001908	0.0000000777
PCB_5	-.0000000008	0.0000000001	-.0000000017	0.0000000005	0.0000000001
PCB_6	0.0000000060	-.0000000011	-.0000000092	0.0000000262	0.0000000092
PCB_7	0.0000000014	-.0000000001	0.0000000012	0.0000000026	0.0000000012
PCB_8	0.0000000089	-.0000000053	-.0000000357	0.0000000747	0.0000000277
PCB_9	0.0000000020	-.0000000003	0.0000000002	0.0000000052	0.0000000021
PCB_10	0.0000000121	-.0000000017	0.0000000139	0.0000000149	0.0000000070
PCB_11	-.0000000257	0.0000000050	-.0000000042	-.0000000283	-.0000000112
PCB_14	-.0000000009	0.0000000002	-.0000000021	0.0000000004	0.0000000000
PCB_15	0.0000000003	-.0000000010	-.0000000153	0.0000000196	0.0000000061
PCB_16	0.0000000099	-.0000000008	-.0000000056	0.0000000305	0.0000000093
PCB_17	0.0000001947	-.0000000243	0.0000001348	0.0000002880	0.0000001159
PCB_19	0.0000000929	-.0000000067	0.0000000564	0.0000001160	0.0000000453
PCB_22	0.0000000133	-.0000000056	-.0000000436	0.0000001072	0.0000000345
PCB_23	-.0000000009	0.0000000001	-.0000000018	0.0000000006	0.0000000001
PCB_24	0.0000000043	0.0000000005	-.0000000002	0.0000000049	0.0000000013
PCB_25	0.0000000950	-.0000000174	-.0000000655	0.0000003088	0.0000001057
PCB_27	0.0000001216	-.0000000325	-.0000001370	0.0000004441	0.0000001446
PCB_31	0.0000000604	-.0000000153	-.0000001063	0.0000003207	0.0000001074
PCB_32	0.0000001320	-.0000000215	-.0000000187	0.0000003367	0.0000001188
PCB_34	0.0000000011	-.0000000004	-.0000000034	0.0000000069	0.0000000022
PCB_35	-.0000000009	0.0000000002	-.0000000021	0.0000000004	0.0000000000
PCB_37	-.0000000027	-.0000000015	-.0000000090	0.0000000183	0.0000000056
PCB_38	0.0000000004	-.0000000002	-.0000000007	0.0000000028	0.0000000009
PCB_39	-.0000000000	-.0000000001	-.0000000007	0.0000000015	0.0000000005
PCB_42	0.0000001303	-.0000000132	0.0000001430	0.0000001750	0.0000000769
PCB_43	-.0000000106	0.0000000000	-.0000000282	0.0000000163	0.0000000022
PCB_46	0.0000000134	-.0000000002	0.0000000052	0.0000000216	0.0000000075
PCB_48	0.0000000021	0.0000000004	0.0000000041	0.0000000080	0.0000000020
PCB_52	0.0000021558	-.0000002256	0.0000013750	0.0000035618	0.0000014424
PCB_54	0.0000000164	-.0000000009	0.0000000085	0.0000000205	0.0000000081
PCB_55	-.0000000009	0.0000000018	-.0000000007	-.0000000052	-.0000000021
PCB_56	0.0000000085	-.0000000007	0.0000000866	-.0000000239	-.0000000023
PCB_57	0.0000000205	-.0000000052	-.0000000239	0.0000000881	0.0000000309
PCB_58	0.0000000081	-.0000000021	-.0000000023	0.0000000309	0.0000000115
PCB_60	-.0000000230	0.0000000036	0.0000000265	-.0000000455	-.0000000151
PCB_63	0.0000000086	-.0000000042	-.0000000290	0.0000000568	0.0000000192

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_1	-.0000000118	0.0000000066	0.0000000649	0.0000000942	0.0000000163
PCB_2	0.0000000013	0.0000000007	-.0000000138	0.0000000080	0.0000000002
PCB_3	0.0000000003	0.0000000006	-.0000000049	0.0000000068	0.0000000009
PCB_4	-.0000002053	0.0000000770	0.0000013376	0.0000011598	0.0000002139
PCB_5	0.0000000008	0.0000000007	-.0000000106	0.0000000077	0.0000000002
PCB_6	-.0000000157	0.0000000167	0.0000000354	0.0000002353	0.0000000235
PCB_7	-.0000000023	0.0000000011	0.0000000164	0.0000000147	0.0000000025
PCB_8	-.0000000435	0.0000000517	0.0000000242	0.0000007547	0.0000000641
PCB_9	-.0000000039	0.0000000028	0.0000000190	0.0000000402	0.0000000049
PCB_10	-.0000000173	0.0000000047	0.0000001351	0.0000000745	0.0000000167
PCB_11	0.0000000511	-.0000000149	-.0000002259	-.0000002913	-.0000000294
PCB_14	0.0000000010	0.0000000006	-.0000000132	0.0000000068	0.0000000002
PCB_15	-.0000000094	0.0000000134	-.0000000327	0.0000001914	0.0000000165
PCB_16	-.0000000104	0.0000000192	0.0000000314	0.0000002629	0.0000000335
PCB_17	-.0000002550	0.0000001394	0.0000017354	0.0000021306	0.0000003348
PCB_19	-.0000001219	0.0000000495	0.0000008145	0.0000007553	0.0000001374
PCB_22	-.0000000248	0.0000000795	-.0000000585	0.0000011193	0.0000001060
PCB_23	0.0000000010	0.0000000008	-.0000000120	0.0000000091	0.0000000003
PCB_24	-.0000000006	0.0000000036	0.0000000050	0.0000000508	0.0000000093
PCB_25	-.0000001801	0.0000001961	0.0000005832	0.0000028176	0.0000002991
PCB_27	-.0000002487	0.0000003000	0.0000005473	0.0000044202	0.0000004290
PCB_31	-.0000001428	0.0000002135	0.0000002722	0.0000029766	0.0000002919
PCB_32	-.0000002229	0.0000002012	0.0000009828	0.0000029219	0.0000003363
PCB_34	-.0000000030	0.0000000049	-.0000000016	0.0000000704	0.0000000066
PCB_35	0.0000000010	0.0000000006	-.0000000132	0.0000000068	0.0000000002
PCB_37	-.0000000018	0.0000000119	-.0000000357	0.0000001568	0.0000000142
PCB_38	-.0000000007	0.0000000020	0.0000000005	0.0000000282	0.0000000027
PCB_39	-.0000000001	0.0000000011	-.0000000030	0.0000000157	0.0000000015
PCB_42	-.0000001619	0.0000000720	0.0000014512	0.0000010257	0.0000001915
PCB_43	0.0000000135	0.0000000171	-.0000001816	0.0000002251	0.0000000138
PCB_46	-.0000000142	0.0000000112	0.0000001032	0.0000001527	0.0000000250
PCB_48	0.0000000034	0.0000000012	-.0000000002	-.0000000091	0.0000000110
PCB_52	-.0000029297	0.0000017745	0.0000200516	0.0000258653	0.0000039213
PCB_54	-.0000000230	0.0000000086	0.0000001448	0.0000001301	0.0000000237
PCB_55	0.0000000036	-.0000000042	-.0000000103	-.0000000751	-.0000000048
PCB_56	0.0000000265	-.0000000290	0.0000002919	-.0000004737	-.0000000147
PCB_57	-.0000000455	0.0000000568	0.0000001004	0.0000008112	0.0000000845
PCB_58	-.0000000151	0.0000000192	0.0000000603	0.0000002714	0.0000000301
PCB_60	0.0000000588	-.0000000281	-.0000001230	-.0000004693	-.0000000432
PCB_63	-.0000000281	0.0000000422	-.0000000056	0.0000006258	0.0000000527

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_1	0.0000000210	0.0000000340	-.0000000042	0.0000000004	0.0000000075
PCB_2	0.0000000007	0.0000000010	0.0000000011	0.0000000001	-.0000000002
PCB_3	0.0000000010	0.0000000017	0.0000000006	0.0000000001	0.0000000000
PCB_4	0.0000003130	0.0000005095	-.0000001035	-.0000000013	0.0000001019
PCB_5	0.0000000010	0.0000000013	0.0000000008	0.0000000001	-.0000000004
PCB_6	0.0000000477	0.0000000721	-.0000000028	0.0000000005	0.0000000014
PCB_7	0.0000000041	0.0000000065	-.0000000010	0.0000000001	-.0000000001
PCB_8	0.0000001357	0.0000001928	-.0000000100	0.0000000030	0.0000000067
PCB_9	0.0000000088	0.0000000134	-.0000000014	0.0000000001	0.0000000006
PCB_10	0.0000000214	0.0000000348	-.0000000099	0.0000000002	0.0000000079
PCB_11	-.0000000598	-.0000000829	0.0000000295	0.0000000009	-.0000000203
PCB_14	0.0000000009	0.0000000013	0.0000000010	0.0000000001	-.0000000004
PCB_15	0.0000000338	0.0000000498	0.0000000011	0.0000000005	0.0000000020
PCB_16	0.0000000531	0.0000000873	0.0000000010	-.0000000007	0.0000000195
PCB_17	0.0000004845	0.0000007705	-.0000001376	-.0000000023	0.0000002207
PCB_19	0.0000001991	0.0000003270	-.0000000636	-.0000000028	0.0000000841
PCB_22	0.0000001971	0.0000003000	0.0000000088	0.0000000005	0.0000000482
PCB_23	0.0000000011	0.0000000015	0.0000000010	0.0000000001	-.0000000004
PCB_24	0.0000000101	0.0000000176	-.0000000015	-.0000000004	0.0000000144
PCB_25	0.0000005639	0.0000008686	-.0000000375	-.0000000004	0.0000000882
PCB_27	0.0000008305	0.0000012596	-.0000000435	-.0000000036	0.0000001644
PCB_31	0.0000005831	0.0000008969	0.0000000022	0.0000000020	0.0000000356
PCB_32	0.0000006059	0.0000009424	-.0000000650	-.0000000018	0.0000001165
PCB_34	0.0000000127	0.0000000189	-.0000000001	0.0000000001	0.0000000025
PCB_35	0.0000000009	0.0000000013	0.0000000010	0.0000000001	-.0000000004
PCB_37	0.0000000266	0.0000000416	0.0000000070	0.0000000006	-.0000000025
PCB_38	0.0000000050	0.0000000075	0.0000000002	0.0000000000	0.0000000011
PCB_39	0.0000000025	0.0000000036	0.0000000002	0.0000000001	0.0000000008
PCB_42	0.0000002891	0.0000004768	-.0000000847	-.0000000008	0.0000000597
PCB_43	0.0000000304	0.0000000472	0.0000000173	-.0000000002	0.0000000059
PCB_46	0.0000000391	0.0000000662	-.0000000049	-.0000000008	0.0000000122
PCB_48	0.0000000024	0.0000000128	0.0000000059	-.0000000001	0.0000000090
PCB_52	0.0000060928	0.0000097003	-.0000014442	0.0000000000	0.0000018434
PCB_54	0.0000000357	0.0000000583	-.0000000118	-.0000000004	0.0000000124
PCB_55	-.0000000093	-.0000000111	0.0000000020	-.0000000001	-.0000000050
PCB_56	-.0000000709	-.0000000875	0.0000000031	0.0000000001	-.0000000041
PCB_57	0.0000001550	0.0000002351	-.0000000080	0.0000000013	0.0000000269
PCB_58	0.0000000528	0.0000000807	-.0000000033	0.0000000006	0.0000000093
PCB_60	-.0000000933	-.0000001329	0.0000000256	0.0000000005	-.0000000188
PCB_63	0.0000001089	0.0000001572	-.0000000052	0.0000000008	0.0000000197

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_1	-.0000000002	0.0000000206	0.0000000038	0.0000000565	-.0000000004
PCB_2	0.0000000000	-.0000000074	0.0000000007	-.0000000097	-.0000000000
PCB_3	-.0000000000	-.0000000033	-.0000000001	-.0000000043	-.0000000001
PCB_4	-.0000000044	0.0000004017	0.0000000733	0.0000011567	-.0000000031
PCB_5	-.0000000000	-.0000000066	0.0000000004	-.0000000094	-.0000000001
PCB_6	-.0000000008	-.0000000347	0.0000000167	0.0000000156	-.0000000018
PCB_7	-.0000000001	0.0000000020	0.0000000004	0.0000000075	-.0000000002
PCB_8	-.0000000018	-.0000001025	0.0000000600	-.0000000741	-.0000000076
PCB_9	-.0000000001	-.0000000002	0.0000000027	0.0000000098	-.0000000003
PCB_10	-.0000000003	0.0000000500	0.0000000046	0.0000000991	-.0000000003
PCB_11	0.0000000010	-.0000000985	-.0000000271	-.0000001651	0.0000000030
PCB_14	-.0000000000	-.0000000079	0.0000000002	-.0000000101	-.0000000001
PCB_15	-.0000000005	-.0000000416	0.0000000104	-.0000000292	-.0000000017
PCB_16	-.0000000004	-.0000000239	0.0000000286	0.0000001323	0.0000000012
PCB_17	-.0000000033	0.0000005858	0.0000002426	0.0000018505	0.0000000019
PCB_19	-.0000000022	0.0000002616	0.0000000678	0.0000008440	0.0000000013
PCB_22	-.0000000013	-.0000001775	0.0000001314	0.0000001820	-.0000000010
PCB_23	-.0000000000	-.0000000074	0.0000000008	-.0000000094	-.0000000001
PCB_24	0.0000000003	0.0000000105	0.0000000113	0.0000000670	0.0000000012
PCB_25	-.0000000076	-.0000002384	0.0000002602	0.0000007434	-.0000000097
PCB_27	-.0000000103	-.0000003803	0.0000004492	0.0000010802	-.0000000126
PCB_31	-.0000000088	-.0000005096	0.0000002613	0.0000003914	-.0000000124
PCB_32	-.0000000081	-.0000000675	0.0000002752	0.0000011217	-.0000000078
PCB_34	-.0000000001	-.0000000099	0.0000000067	0.0000000068	-.0000000003
PCB_35	-.0000000000	-.0000000079	0.0000000002	-.0000000101	-.0000000001
PCB_37	-.0000000005	-.0000000495	0.0000000087	-.0000000231	-.0000000008
PCB_38	-.0000000000	-.0000000038	0.0000000034	0.0000000050	-.0000000000
PCB_39	0.0000000000	-.0000000026	0.0000000018	0.0000000001	-.0000000000
PCB_42	-.0000000042	0.0000003476	0.0000001064	0.0000011809	0.0000000009
PCB_43	-.0000000001	-.0000001098	0.0000000257	-.0000000497	0.0000000006
PCB_46	-.0000000005	0.0000000091	0.0000000161	0.0000001426	0.0000000010
PCB_48	0.0000000001	0.0000000014	-.0000000069	0.0000000656	0.0000000018
PCB_52	-.0000000627	0.0000045680	0.0000026228	0.0000187650	-.0000000308
PCB_54	-.0000000005	0.0000000425	0.0000000090	0.0000001353	-.0000000002
PCB_55	-.0000000000	-.0000000101	-.0000000121	-.0000000162	0.0000000003
PCB_56	0.0000000013	0.0000001500	-.0000000243	0.0000002548	0.0000000074
PCB_57	-.0000000018	-.0000000787	0.0000000725	0.0000001321	-.0000000038
PCB_58	-.0000000005	-.0000000180	0.0000000265	0.0000000615	-.0000000011
PCB_60	0.0000000017	-.0000000189	-.0000000277	-.0000000768	0.0000000053
PCB_63	-.0000000011	-.0000000760	0.0000000652	0.0000000314	-.0000000035

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_1	0.0000001294	0.0000000014	0.0000002610	0.0000000027	0.0000001595
PCB_2	0.0000000037	0.0000000003	-.0000000609	-.0000000005	0.0000000480
PCB_3	0.0000000053	0.0000000001	-.0000000267	-.0000000002	0.0000000279
PCB_4	0.0000018344	0.0000000227	0.0000056450	0.0000000598	0.0000009956
PCB_5	0.0000000048	0.0000000002	-.0000000508	-.0000000004	0.0000000440
PCB_6	0.0000002637	0.0000000061	0.0000000825	0.0000000014	0.0000005735
PCB_7	0.0000000204	0.0000000001	0.0000000539	0.0000000003	0.0000000032
PCB_8	0.0000008242	0.0000000147	-.0000001503	-.0000000027	0.0000021264
PCB_9	0.0000000494	0.0000000008	0.0000000631	0.0000000005	0.0000000716
PCB_10	0.0000001297	0.0000000003	0.0000005449	0.0000000046	-.0000000560
PCB_11	-.0000004371	-.0000000049	-.0000010435	-.0000000092	-.0000006322
PCB_14	0.0000000036	0.0000000002	-.0000000604	-.0000000004	0.0000000495
PCB_15	0.0000002035	0.0000000049	-.0000001691	-.0000000008	0.0000006614
PCB_16	0.0000002984	0.0000000110	0.0000002495	0.0000000078	0.0000006003
PCB_17	0.0000030188	0.0000000522	0.0000079085	0.0000000947	0.0000025221
PCB_19	0.0000011869	0.0000000203	0.0000036946	0.0000000445	0.0000007194
PCB_22	0.0000011531	0.0000000383	-.0000000745	0.0000000123	0.0000028440
PCB_23	0.0000000052	0.0000000003	-.0000000553	-.0000000004	0.0000000464
PCB_24	0.0000000752	0.0000000024	0.0000001176	0.0000000037	0.0000001729
PCB_25	0.0000032055	0.0000000882	0.0000024990	0.0000000460	0.0000061969
PCB_27	0.0000049141	0.0000001468	0.0000029983	0.0000000693	0.0000105251
PCB_31	0.0000031549	0.0000000967	0.0000008143	0.0000000286	0.0000067207
PCB_32	0.0000034603	0.0000000909	0.0000043062	0.0000000646	0.0000056323
PCB_34	0.0000000761	0.0000000021	-.0000000024	0.0000000006	0.0000001973
PCB_35	0.0000000036	0.0000000002	-.0000000604	-.0000000004	0.0000000495
PCB_37	0.0000001347	0.0000000055	-.0000001912	-.0000000009	0.0000004022
PCB_38	0.0000000287	0.0000000009	0.0000000042	0.0000000003	0.0000000625
PCB_39	0.0000000156	0.0000000004	-.0000000120	0.0000000000	0.0000000462
PCB_42	0.0000014976	0.0000000257	0.0000058635	0.0000000581	-.0000009345
PCB_43	0.0000001672	0.0000000113	-.0000006658	-.0000000011	0.0000008726
PCB_46	0.0000002030	0.0000000065	0.0000004915	0.0000000079	0.0000001629
PCB_48	-.0000000051	0.0000000016	0.0000000559	0.0000000034	-.0000000425
PCB_52	0.0000352133	0.0000006242	0.0000844166	0.0000009640	0.0000280670
PCB_54	0.0000002090	0.0000000030	0.0000006311	0.0000000072	0.0000001410
PCB_55	-.0000000783	-.0000000019	-.0000000750	-.0000000007	-.0000001576
PCB_56	-.0000005292	-.0000000111	0.0000011655	0.0000000088	-.0000026538
PCB_57	0.0000009088	0.0000000221	0.0000003728	0.0000000084	0.0000019958
PCB_58	0.0000003032	0.0000000071	0.0000002185	0.0000000034	0.0000005527
PCB_60	-.0000006305	-.0000000095	-.0000005631	-.0000000062	-.0000015581
PCB_63	0.0000006760	0.0000000171	-.0000000152	0.0000000031	0.0000017419

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_1	0.0000000152	0.0000000003	-.0000000127	0.0000000229	0.0000000003
PCB_2	-.0000000019	0.0000000000	0.0000000097	0.0000000029	0.0000000003
PCB_3	-.0000000007	0.0000000000	0.0000000053	0.0000000031	0.0000000001
PCB_4	0.0000002976	0.0000000046	-.0000008569	0.0000001410	0.0000000041
PCB_5	-.0000000014	0.0000000000	0.0000000123	0.0000000040	0.0000000003
PCB_6	0.0000000186	0.0000000007	0.0000000154	0.0000000579	0.0000000038
PCB_7	0.0000000030	0.0000000001	-.0000000084	0.0000000040	0.0000000000
PCB_8	0.0000000410	0.0000000021	0.0000005024	0.0000002607	0.0000000101
PCB_9	0.0000000049	0.0000000001	0.0000000001	0.0000000104	0.0000000004
PCB_10	0.0000000250	0.0000000004	-.0000000609	0.0000000112	-.0000000010
PCB_11	-.0000000612	-.0000000010	-.0000002236	-.0000000989	-.0000000001
PCB_14	-.0000000018	-.0000000000	0.0000000105	0.0000000036	0.0000000004
PCB_15	0.0000000060	0.0000000005	0.0000001200	0.0000000667	0.0000000035
PCB_16	0.0000000270	0.0000000006	-.0000002479	-.0000000141	0.0000000059
PCB_17	0.0000004390	0.0000000070	-.0000013738	0.0000000774	0.0000000132
PCB_19	0.0000001964	0.0000000027	-.0000007688	0.0000000056	0.0000000052
PCB_22	0.0000000661	0.0000000026	-.0000002789	0.0000000911	0.0000000220
PCB_23	-.0000000016	0.0000000000	0.0000000088	0.0000000032	0.0000000003
PCB_24	0.0000000087	0.0000000000	-.0000000604	-.0000000181	0.0000000015
PCB_25	0.0000002794	0.0000000078	-.0000008190	0.0000003668	0.0000000466
PCB_27	0.0000004005	0.0000000114	-.0000009228	0.0000005287	0.0000000748
PCB_31	0.0000002208	0.0000000081	-.0000009164	0.0000004081	0.0000000553
PCB_32	0.0000003552	0.0000000085	-.0000012685	0.0000002996	0.0000000433
PCB_34	0.0000000044	0.0000000002	0.0000000068	0.0000000130	0.0000000013
PCB_35	-.0000000018	-.0000000000	0.0000000105	0.0000000036	0.0000000004
PCB_37	0.0000000009	0.0000000004	-.0000000425	0.0000000272	0.0000000032
PCB_38	0.0000000018	0.0000000001	-.0000000090	0.0000000020	0.0000000005
PCB_39	0.0000000004	0.0000000000	0.0000000041	0.0000000028	0.0000000003
PCB_42	0.0000002867	0.0000000047	-.0000018418	-.0000001055	0.0000000019
PCB_43	-.0000000117	0.0000000002	-.0000000696	0.0000000044	0.0000000076
PCB_46	0.0000000300	0.0000000005	-.0000002661	-.0000000255	0.0000000030
PCB_48	0.0000000009	-.0000000001	-.0000002011	-.0000000385	0.0000000009
PCB_52	0.0000049003	0.0000000894	-.0000180829	0.0000016417	0.0000002136
PCB_54	0.0000000341	0.0000000005	-.0000001065	0.0000000117	0.0000000009
PCB_55	-.0000000064	-.0000000002	-.0000000423	-.0000000121	-.0000000002
PCB_56	0.0000000050	-.0000000008	-.0000009794	-.0000002844	-.0000000114
PCB_57	0.0000000653	0.0000000022	0.0000000042	0.0000001540	0.0000000127
PCB_58	0.0000000246	0.0000000008	-.0000000483	0.0000000412	0.0000000038
PCB_60	-.0000000574	-.0000000014	-.0000004476	-.0000001939	-.0000000053
PCB_63	0.0000000390	0.0000000016	0.0000001939	0.0000001372	0.0000000100

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_1	0.0000000001	0.0000001680	0.0000000049	0.0000000003	-.0000000001
PCB_2	0.0000000002	0.0000000523	0.0000000010	0.0000000001	0.0000000005
PCB_3	0.0000000002	0.0000000375	0.0000000008	0.0000000000	0.0000000004
PCB_4	-.0000000447	-.0000000565	0.0000000426	0.0000000043	-.0000000399
PCB_5	0.0000000005	0.0000000596	0.0000000009	0.0000000001	0.0000000005
PCB_6	0.0000000004	0.0000005742	0.0000000139	0.0000000012	0.0000000002
PCB_7	-.0000000002	0.0000000116	0.0000000008	0.0000000001	-.0000000003
PCB_8	0.0000000343	0.0000029755	0.0000000428	0.0000000035	0.0000000130
PCB_9	0.0000000003	0.0000000863	0.0000000021	0.0000000002	-.0000000001
PCB_10	-.0000000014	-.0000000535	0.0000000015	0.0000000002	-.0000000027
PCB_11	-.0000000211	-.0000010109	-.0000000038	-.0000000006	0.0000000006
PCB_14	0.0000000003	0.0000000578	0.0000000010	0.0000000001	0.0000000004
PCB_15	0.0000000068	0.0000007924	0.0000000125	0.0000000009	0.0000000038
PCB_16	-.0000000219	-.0000001363	0.0000000155	0.0000000014	-.0000000058
PCB_17	-.0000000859	-.0000003685	0.0000000754	0.0000000079	-.0000000553
PCB_19	-.0000000493	-.0000007352	0.0000000256	0.0000000029	-.0000000321
PCB_22	-.0000000341	0.0000013974	0.0000000644	0.0000000057	-.0000000027
PCB_23	0.0000000002	0.0000000515	0.0000000010	0.0000000001	0.0000000004
PCB_24	-.0000000069	-.0000000840	0.0000000027	0.0000000003	-.0000000023
PCB_25	-.0000000710	0.0000034718	0.0000001492	0.0000000134	-.0000000238
PCB_27	-.0000000918	0.0000059184	0.0000002220	0.0000000201	-.0000000249
PCB_31	-.0000000833	0.0000038408	0.0000001738	0.0000000151	-.0000000166
PCB_32	-.0000000956	0.0000022282	0.0000001439	0.0000000133	-.0000000396
PCB_34	-.0000000002	0.0000001634	0.0000000040	0.0000000003	0.0000000003
PCB_35	0.0000000003	0.0000000578	0.0000000010	0.0000000001	0.0000000004
PCB_37	-.0000000041	0.0000002550	0.0000000113	0.0000000008	0.0000000018
PCB_38	-.0000000009	0.0000000268	0.0000000016	0.0000000001	-.0000000001
PCB_39	0.0000000001	0.0000000419	0.0000000010	0.0000000001	0.0000000002
PCB_42	-.0000001080	-.0000034324	0.0000000316	0.0000000039	-.0000000584
PCB_43	-.0000000126	0.0000003232	0.0000000176	0.0000000014	0.0000000021
PCB_46	-.0000000202	-.0000004148	0.0000000077	0.0000000008	-.0000000080
PCB_48	-.0000000163	-.0000004780	0.0000000033	0.0000000001	-.0000000030
PCB_52	-.0000011385	-.0000029072	0.0000010880	0.0000001086	-.0000006770
PCB_54	-.0000000064	-.0000000291	0.0000000048	0.0000000005	-.0000000052
PCB_55	-.0000000037	-.0000001769	-.0000000017	-.0000000002	-.0000000014
PCB_56	-.0000000598	-.0000039008	-.0000000290	-.0000000023	-.0000000203
PCB_57	-.0000000041	0.0000016920	0.0000000456	0.0000000039	0.0000000008
PCB_58	-.0000000041	0.0000004025	0.0000000149	0.0000000013	-.0000000007
PCB_60	-.0000000324	-.0000022155	-.0000000195	-.0000000017	-.0000000049
PCB_63	0.0000000094	0.0000017374	0.0000000330	0.0000000029	0.0000000050

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_1	0.0000000005	-.0000000004	-.0000000004	-.0000000308	-.0000000020
PCB_2	0.0000000011	-.0000000004	0.0000000001	0.0000000073	0.0000000002
PCB_3	0.0000000008	-.0000000002	0.0000000000	0.0000000040	0.0000000002
PCB_4	-.0000000728	-.0000000053	-.0000000118	-.0000008324	-.0000000612
PCB_5	0.0000000012	-.0000000003	0.0000000001	0.0000000061	0.0000000001
PCB_6	0.0000000069	-.0000000034	-.0000000005	-.0000000232	-.0000000041
PCB_7	0.0000000002	0.0000000001	-.0000000001	-.0000000068	-.0000000005
PCB_8	0.0000000602	-.0000000036	0.0000000018	0.0000000309	-.0000000022
PCB_9	0.0000000013	-.0000000002	-.0000000001	-.0000000087	-.0000000008
PCB_10	-.0000000023	0.0000000016	-.0000000009	-.0000000656	-.0000000033
PCB_11	-.0000000091	-.0000000053	-.0000000002	0.0000001308	0.0000000071
PCB_14	0.0000000008	-.0000000005	0.0000000001	0.0000000063	0.0000000000
PCB_15	0.0000000106	-.0000000031	0.0000000005	0.0000000162	-.0000000012
PCB_16	-.0000000169	-.0000000096	-.0000000023	-.0000000747	-.0000000096
PCB_17	-.0000000830	-.0000000161	-.0000000178	-.0000011545	-.0000000825
PCB_19	-.0000000708	-.0000000095	-.0000000089	-.0000005831	-.0000000452
PCB_22	0.0000000115	-.0000000265	-.0000000038	-.0000000714	-.0000000173
PCB_23	0.0000000011	-.0000000004	0.0000000001	0.0000000065	0.0000000002
PCB_24	-.0000000086	-.0000000030	-.0000000005	-.0000000340	-.0000000041
PCB_25	-.0000000034	-.0000000511	-.0000000130	-.0000005364	-.0000000641
PCB_27	0.0000000090	-.0000000800	-.0000000168	-.0000006946	-.0000000863
PCB_31	0.0000000237	-.0000000619	-.0000000131	-.0000003208	-.0000000547
PCB_32	-.0000000379	-.0000000488	-.0000000172	-.0000007817	-.0000000774
PCB_34	0.0000000018	-.0000000013	-.0000000001	-.0000000036	-.0000000010
PCB_35	0.0000000008	-.0000000005	0.0000000001	0.0000000063	0.0000000000
PCB_37	0.0000000053	-.0000000040	-.0000000005	0.0000000240	0.0000000003
PCB_38	0.0000000005	-.0000000006	-.0000000001	-.0000000018	-.0000000003
PCB_39	0.0000000009	-.0000000003	0.0000000000	0.0000000014	-.0000000000
PCB_42	-.0000000829	-.0000000046	-.0000000183	-.0000008307	-.0000000535
PCB_43	-.0000000002	-.0000000110	-.0000000004	0.0000000554	-.0000000014
PCB_46	-.0000000198	-.0000000056	-.0000000024	-.0000000992	-.0000000096
PCB_48	-.0000000180	-.0000000050	-.0000000012	-.0000000238	-.0000000034
PCB_52	-.0000007938	-.0000002419	-.0000002254	-.0000127131	-.0000009772
PCB_54	-.0000000110	-.0000000013	-.0000000014	-.0000001002	-.0000000080
PCB_55	-.0000000070	-.0000000009	-.0000000001	-.0000000011	-.0000000013
PCB_56	-.0000000465	0.0000000057	-.0000000061	-.0000001130	0.0000000025
PCB_57	0.0000000193	-.0000000125	-.0000000018	-.0000000846	-.0000000129
PCB_58	0.0000000065	-.0000000037	-.0000000010	-.0000000361	-.0000000041
PCB_60	-.0000000182	0.0000000003	-.0000000015	0.0000000948	0.0000000103
PCB_63	0.0000000285	-.0000000077	0.0000000001	-.0000000161	-.0000000059

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_1	-.0000000848	-.0000000060	-.0000000287	0.0000000154	-.0000001157
PCB_2	0.0000000018	0.0000000023	-.0000000044	0.0000000014	0.0000000132
PCB_3	0.0000000015	0.0000000014	-.0000000039	0.0000000037	0.0000000064
PCB_4	-.0000018070	-.0000001928	-.0000003218	-.0000001838	-.0000024617
PCB_5	0.0000000013	0.0000000020	-.0000000048	0.0000000030	0.0000000100
PCB_6	-.0000001660	0.0000000022	-.0000000765	-.0000000036	-.0000001862
PCB_7	-.0000000133	-.0000000011	-.0000000053	0.0000000028	-.0000000239
PCB_8	-.0000003217	0.0000000303	-.0000002382	0.0000001801	-.0000003766
PCB_9	-.0000000301	-.0000000009	-.0000000124	0.0000000040	-.0000000427
PCB_10	-.0000001033	-.0000000159	-.0000000135	0.0000000136	-.0000001876
PCB_11	0.0000002954	0.0000000342	0.0000000493	-.0000000496	0.0000004928
PCB_14	-.0000000009	0.0000000021	-.0000000057	0.0000000010	0.0000000117
PCB_15	-.0000000968	0.0000000101	-.0000000709	0.0000000229	-.0000000718
PCB_16	-.0000003259	-.0000000129	-.0000000633	-.0000001417	-.0000002849
PCB_17	-.0000028243	-.0000002729	-.0000003809	-.0000004269	-.0000036464
PCB_19	-.0000013285	-.0000001405	-.0000001742	-.0000002851	-.0000016714
PCB_22	-.0000008492	0.0000000105	-.0000002565	-.0000002512	-.0000007341
PCB_23	0.0000000010	0.0000000022	-.0000000046	0.0000000012	0.0000000103
PCB_24	-.0000001291	-.0000000096	-.0000000115	-.0000000485	-.0000000832
PCB_25	-.0000024693	-.0000000599	-.0000007206	-.0000005532	-.0000027479
PCB_27	-.0000036867	-.0000000747	-.0000009941	-.0000009491	-.0000040145
PCB_31	-.0000022254	0.0000000174	-.0000008048	-.0000005789	-.0000023705
PCB_32	-.0000028251	-.0000001262	-.0000006901	-.0000006687	-.0000033491
PCB_34	-.0000000501	0.0000000009	-.0000000192	-.0000000063	-.0000000462
PCB_35	-.0000000009	0.0000000021	-.0000000057	0.0000000010	0.0000000117
PCB_37	-.0000000436	0.0000000127	-.0000000440	-.0000000180	-.0000000339
PCB_38	-.0000000190	0.0000000003	-.0000000056	-.0000000055	-.0000000189
PCB_39	-.0000000079	0.0000000007	-.0000000041	0.0000000006	-.0000000047
PCB_42	-.0000015154	-.0000001845	-.0000001346	-.0000004037	-.0000024134
PCB_43	-.0000001272	0.0000000215	-.0000000598	-.0000001085	0.0000000187
PCB_46	-.0000002697	-.0000000213	-.0000000360	-.0000001177	-.0000002895
PCB_48	-.0000000771	-.0000000055	-.0000000098	-.0000000694	-.0000000165
PCB_52	-.0000318985	-.0000027077	-.0000057576	-.0000047842	-.0000417447
PCB_54	-.0000002278	-.0000000236	-.0000000379	-.0000000372	-.0000002896
PCB_55	0.0000000138	-.0000000001	-.0000000019	-.0000000128	0.0000000466
PCB_56	0.0000002463	-.0000000382	0.0000002252	-.0000001474	0.0000000438
PCB_57	-.0000005979	0.0000000006	-.0000002263	-.0000000420	-.0000006285
PCB_58	-.0000001951	-.0000000015	-.0000000679	-.0000000145	-.0000002265
PCB_60	0.0000004200	0.0000000176	0.0000001598	-.0000000774	0.0000005049
PCB_63	-.0000003854	0.0000000106	-.0000001590	0.0000000026	-.0000003898

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_1	-.0000000003	-.0000000318	-.0000000001	-.0000001431	-.0000000001
PCB_2	0.0000000001	0.0000000011	0.0000000001	0.0000000200	0.0000000001
PCB_3	0.0000000001	-.0000000006	0.0000000001	0.0000000144	0.0000000001
PCB_4	-.0000000083	-.0000005235	-.0000000055	-.0000043813	-.0000000070
PCB_5	0.0000000001	0.0000000005	0.0000000001	0.0000000108	0.0000000001
PCB_6	0.0000000001	-.0000000481	0.0000000002	-.0000002837	0.0000000005
PCB_7	-.0000000001	-.0000000060	-.0000000000	-.0000000399	-.0000000000
PCB_8	0.0000000008	-.0000001124	0.0000000013	-.0000003930	0.0000000029
PCB_9	-.0000000001	-.0000000105	-.0000000000	-.0000000637	0.0000000000
PCB_10	-.0000000009	-.0000000397	-.0000000005	-.0000002758	-.0000000005
PCB_11	0.0000000022	0.0000000798	0.0000000011	0.0000007094	0.0000000008
PCB_14	0.0000000001	0.0000000005	0.0000000001	0.0000000061	0.0000000001
PCB_15	0.0000000005	-.0000000277	0.0000000004	-.0000000827	0.0000000007
PCB_16	0.0000000002	-.0000000641	0.0000000000	-.0000004404	-.0000000005
PCB_17	-.0000000106	-.0000007323	-.0000000066	-.0000055707	-.0000000097
PCB_19	-.0000000051	-.0000003352	-.0000000038	-.0000030015	-.0000000056
PCB_22	0.0000000021	-.0000001732	0.0000000017	-.0000007393	0.0000000016
PCB_23	0.0000000001	0.0000000007	0.0000000001	0.0000000160	0.0000000001
PCB_24	0.0000000001	-.0000000172	-.0000000001	-.0000002163	-.0000000005
PCB_25	-.0000000005	-.0000006081	0.0000000005	-.0000037751	0.0000000010
PCB_27	-.0000000001	-.0000008334	0.0000000018	-.0000047151	0.0000000022
PCB_31	0.0000000028	-.0000005659	0.0000000031	-.0000029074	0.0000000048
PCB_32	-.0000000037	-.0000007093	-.0000000015	-.0000046587	-.0000000018
PCB_34	0.0000000001	-.0000000115	0.0000000001	-.0000000542	0.0000000001
PCB_35	0.0000000001	0.0000000005	0.0000000001	0.0000000061	0.0000000001
PCB_37	0.0000000005	-.0000000186	0.0000000006	0.0000001174	0.0000000008
PCB_38	0.0000000000	-.0000000043	0.0000000000	-.0000000129	0.0000000000
PCB_39	0.0000000000	-.0000000018	0.0000000000	0.0000000001	0.0000000000
PCB_42	-.0000000087	-.0000004708	-.0000000053	-.0000036002	-.0000000064
PCB_43	0.0000000017	-.0000000066	0.0000000011	0.0000001629	0.0000000010
PCB_46	-.0000000004	-.0000000589	-.0000000005	-.0000005336	-.0000000009
PCB_48	0.0000000003	-.0000000170	0.0000000000	-.0000000569	-.0000000006
PCB_52	-.0000001058	-.0000087758	-.0000000654	-.0000668156	-.0000000852
PCB_54	-.0000000009	-.0000000599	-.0000000007	-.0000005546	-.0000000009
PCB_55	0.0000000002	0.0000000045	-.0000000001	-.0000000752	-.0000000002
PCB_56	-.0000000021	0.0000000277	-.0000000013	0.0000003950	-.0000000025
PCB_57	0.0000000005	-.0000001575	0.0000000007	-.0000008058	0.0000000011
PCB_58	0.0000000000	-.0000000555	0.0000000002	-.0000002590	0.0000000003
PCB_60	0.0000000010	0.0000001059	0.0000000005	0.0000009349	-.0000000001
PCB_63	0.0000000007	-.0000000909	0.0000000008	-.0000004048	0.0000000014

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_1	0.0000000002	0.0000000001	-.0000000015	-.0000000003	-.0000000497
PCB_2	-.0000000001	-.0000000000	0.0000000010	0.0000000001	0.0000000064
PCB_3	-.0000000001	-.0000000000	0.0000000007	0.0000000001	0.0000000029
PCB_4	0.0000000053	0.0000000016	-.0000000769	-.0000000091	-.0000011275
PCB_5	-.0000000001	-.0000000000	0.0000000010	0.0000000001	0.0000000065
PCB_6	-.0000000002	0.0000000001	0.0000000039	0.0000000001	-.0000000562
PCB_7	0.0000000000	-.0000000000	-.0000000003	-.0000000001	-.0000000093
PCB_8	-.0000000005	0.0000000002	0.0000000277	0.0000000009	0.0000000220
PCB_9	0.0000000000	0.0000000000	0.0000000001	-.0000000001	-.0000000135
PCB_10	0.0000000007	0.0000000001	-.0000000061	-.0000000009	-.0000000808
PCB_11	-.0000000015	-.0000000005	0.0000000058	0.0000000022	0.0000001054
PCB_14	-.0000000001	-.0000000000	0.0000000009	0.0000000001	0.0000000059
PCB_15	-.0000000005	0.0000000000	0.0000000077	0.0000000005	0.0000000031
PCB_16	-.0000000002	0.0000000007	-.0000000063	0.0000000001	-.0000001865
PCB_17	0.0000000086	0.0000000048	-.0000001067	-.0000000111	-.0000017299
PCB_19	0.0000000035	0.0000000018	-.0000000600	-.0000000058	-.0000008361
PCB_22	-.0000000009	0.0000000020	0.0000000120	0.0000000021	-.0000003560
PCB_23	-.0000000001	-.0000000000	0.0000000010	0.0000000001	0.0000000056
PCB_24	0.0000000000	0.0000000003	-.0000000056	0.0000000000	-.0000000628
PCB_25	0.0000000005	0.0000000040	-.0000000000	-.0000000012	-.0000011812
PCB_27	0.0000000007	0.0000000077	0.0000000157	-.0000000008	-.0000016769
PCB_31	-.0000000020	0.0000000035	0.0000000339	0.0000000023	-.0000010310
PCB_32	0.0000000028	0.0000000047	-.0000000299	-.0000000045	-.0000015144
PCB_34	-.0000000001	0.0000000001	0.0000000012	0.0000000001	-.0000000156
PCB_35	-.0000000001	-.0000000000	0.0000000009	0.0000000001	0.0000000059
PCB_37	-.0000000004	0.0000000001	0.0000000073	0.0000000006	-.0000000213
PCB_38	-.0000000000	0.0000000001	0.0000000003	0.0000000000	-.0000000091
PCB_39	-.0000000000	0.0000000000	0.0000000005	0.0000000001	-.0000000011
PCB_42	0.0000000067	0.0000000021	-.0000000814	-.0000000091	-.0000012743
PCB_43	-.0000000012	0.0000000005	0.0000000098	0.0000000017	-.0000000286
PCB_46	0.0000000003	0.0000000004	-.0000000108	-.0000000006	-.0000001811
PCB_48	-.0000000003	0.0000000001	-.0000000060	0.0000000002	-.0000000834
PCB_52	0.0000000836	0.0000000438	-.0000010545	-.0000001136	-.0000196597
PCB_54	0.0000000006	0.0000000002	-.0000000098	-.0000000010	-.0000001361
PCB_55	-.0000000003	-.0000000002	-.0000000022	0.0000000001	0.0000000020
PCB_56	0.0000000021	0.0000000000	-.0000000312	-.0000000018	-.0000002239
PCB_57	-.0000000002	0.0000000009	0.0000000092	0.0000000004	-.0000002253
PCB_58	0.0000000001	0.0000000003	0.0000000019	0.0000000000	-.0000000908
PCB_60	-.0000000003	-.0000000003	-.0000000042	0.0000000012	0.0000000644
PCB_63	-.0000000003	0.0000000008	0.0000000140	0.0000000007	-.0000000840

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_1	0.0000000003	0.0000000058	-.0000000037	-.0000000774	0.0000000004
PCB_2	0.0000000000	-.0000000082	0.0000000003	0.0000000020	0.0000000002
PCB_3	0.0000000000	-.0000000073	0.0000000000	-.0000000017	0.0000000002
PCB_4	-.0000000036	0.0000012463	-.0000000671	-.0000011839	-.0000000075
PCB_5	-.0000000000	-.0000000018	0.0000000002	0.0000000012	0.0000000002
PCB_6	0.0000000008	0.0000000571	-.0000000027	-.0000001099	0.0000000016
PCB_7	-.0000000000	0.0000000152	-.0000000008	-.0000000128	0.0000000000
PCB_8	0.0000000010	0.0000000236	-.0000000067	-.0000002851	0.0000000059
PCB_9	0.0000000000	0.0000000166	-.0000000011	-.0000000240	0.0000000002
PCB_10	-.0000000005	0.0000000719	-.0000000065	-.0000000928	-.0000000007
PCB_11	-.0000000005	-.0000001711	0.0000000076	0.0000002006	0.0000000017
PCB_14	-.0000000000	0.0000000011	0.0000000003	0.0000000015	0.0000000002
PCB_15	0.0000000013	-.0000000163	0.0000000006	-.0000000687	0.0000000019
PCB_16	0.0000000010	-.0000000065	-.0000000040	-.0000001525	0.0000000016
PCB_17	-.0000000090	0.0000009356	-.0000000998	-.0000017737	-.0000000049
PCB_19	-.0000000028	0.0000007620	-.0000000423	-.0000007666	-.0000000055
PCB_22	0.0000000029	-.0000002843	-.0000000080	-.0000004478	0.0000000101
PCB_23	0.0000000000	-.0000000063	0.0000000003	0.0000000013	0.0000000002
PCB_24	-.0000000012	0.0000000387	-.0000000030	-.0000000451	-.0000000005
PCB_25	0.0000000115	0.0000002711	-.0000000369	-.0000014353	0.0000000169
PCB_27	0.0000000238	-.0000003775	-.0000000340	-.0000020521	0.0000000299
PCB_31	0.0000000169	-.0000000440	-.0000000214	-.0000013145	0.0000000254
PCB_32	0.0000000109	0.0000004469	-.0000000530	-.0000016681	0.0000000137
PCB_34	0.0000000003	-.0000000078	-.0000000004	-.0000000291	0.0000000006
PCB_35	-.0000000000	0.0000000011	0.0000000003	0.0000000015	0.0000000002
PCB_37	0.0000000025	-.0000001367	0.0000000022	-.0000000464	0.0000000029
PCB_38	0.0000000001	-.0000000102	-.0000000002	-.0000000113	0.0000000003
PCB_39	-.0000000000	-.0000000070	-.0000000001	-.0000000054	0.0000000002
PCB_42	-.0000000030	0.0000008464	-.0000000672	-.0000010462	-.0000000040
PCB_43	0.0000000027	-.0000002205	0.0000000064	-.0000000271	0.0000000042
PCB_46	0.0000000001	0.0000001130	-.0000000059	-.0000001293	-.0000000002
PCB_48	0.0000000008	-.0000000418	-.0000000013	-.0000000362	0.0000000005
PCB_52	-.0000000953	0.0000146722	-.0000011517	-.0000204482	-.0000000246
PCB_54	-.0000000005	0.0000001668	-.0000000074	-.0000001340	-.0000000011
PCB_55	-.0000000005	0.0000000921	0.0000000001	0.0000000229	-.0000000008
PCB_56	-.0000000022	-.0000001969	-.0000000109	0.0000000795	-.0000000024
PCB_57	0.0000000020	0.0000000101	-.0000000105	-.0000003851	0.0000000057
PCB_58	0.0000000003	-.0000000085	-.0000000050	-.0000001360	0.0000000019
PCB_60	-.0000000014	-.0000002872	0.0000000052	0.0000002542	0.0000000002
PCB_63	0.0000000013	-.0000000675	-.0000000041	-.0000002390	0.0000000047

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_1	-.0000000183	-.0000000009	-.0000001085	-.0000000396	-.0000002334
PCB_2	0.0000000018	0.0000000001	0.0000000103	0.0000000033	0.0000000071
PCB_3	0.0000000007	0.0000000001	0.0000000014	0.0000000005	-.0000000053
PCB_4	-.0000003589	-.0000000165	-.0000016985	-.0000006280	-.0000033420
PCB_5	0.0000000020	0.0000000001	0.0000000079	0.0000000024	0.0000000015
PCB_6	-.0000000226	-.0000000008	-.0000001085	-.0000000586	-.0000003589
PCB_7	-.0000000033	-.0000000002	-.0000000200	-.0000000070	-.0000000409
PCB_8	-.0000000198	-.0000000023	-.0000003270	-.0000001582	-.0000011523
PCB_9	-.0000000054	-.0000000003	-.0000000325	-.0000000131	-.0000000796
PCB_10	-.0000000287	-.0000000015	-.0000001675	-.0000000526	-.0000002817
PCB_11	0.0000000397	0.0000000041	0.0000003526	0.0000001584	0.0000008006
PCB_14	0.0000000022	0.0000000001	0.0000000117	0.0000000034	0.0000000058
PCB_15	-.0000000018	-.0000000002	-.0000000387	-.0000000370	-.0000002595
PCB_16	-.0000000630	-.0000000006	-.0000001172	-.0000000586	-.0000002925
PCB_17	-.0000006146	-.0000000225	-.0000026111	-.0000008829	-.0000047517
PCB_19	-.0000002646	-.0000000102	-.0000010498	-.0000003888	-.0000019806
PCB_22	-.0000001554	-.0000000011	-.0000003723	-.0000001829	-.0000011117
PCB_23	0.0000000015	0.0000000001	0.0000000087	0.0000000025	0.0000000039
PCB_24	-.0000000189	-.0000000002	-.0000000302	-.0000000031	-.0000000499
PCB_25	-.0000004450	-.0000000111	-.0000015124	-.0000007565	-.0000040665
PCB_27	-.0000006623	-.0000000150	-.0000021261	-.0000011454	-.0000058787
PCB_31	-.0000004096	-.0000000068	-.0000011963	-.0000006841	-.0000037085
PCB_32	-.0000005550	-.0000000153	-.0000019481	-.0000008983	-.0000046346
PCB_34	-.0000000069	-.0000000001	-.0000000252	-.0000000142	-.0000000878
PCB_35	0.0000000022	0.0000000001	0.0000000117	0.0000000034	0.0000000058
PCB_37	-.0000000136	0.0000000003	-.0000000204	-.0000000277	-.0000001346
PCB_38	-.0000000043	-.0000000000	-.0000000117	-.0000000050	-.0000000290
PCB_39	-.0000000011	0.0000000000	-.0000000045	-.0000000015	-.0000000153
PCB_42	-.0000004466	-.0000000145	-.0000017167	-.0000005676	-.0000026666
PCB_43	-.0000000156	0.0000000017	0.0000000994	0.0000000056	0.0000000248
PCB_46	-.0000000570	-.0000000011	-.0000001342	-.0000000555	-.0000002533
PCB_48	-.0000000217	0.0000000004	0.0000000069	0.0000000044	0.0000000391
PCB_52	-.0000069552	-.0000002464	-.0000290652	-.0000100514	-.0000552710
PCB_54	-.0000000415	-.0000000018	-.0000001802	-.0000000692	-.0000003649
PCB_55	0.0000000084	0.0000000004	0.0000000585	0.0000000222	0.0000001041
PCB_56	-.0000000829	0.0000000003	-.0000001187	0.0000000639	0.0000006235
PCB_57	-.0000000953	-.0000000027	-.0000004028	-.0000001889	-.0000011654
PCB_58	-.0000000396	-.0000000010	-.0000001641	-.0000000651	-.0000003972
PCB_60	0.0000000183	0.0000000038	0.0000002942	0.0000001741	0.0000010198
PCB_63	-.0000000493	-.0000000016	-.0000002470	-.0000001260	-.0000008091

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_1	-.0000000101	-.0000000202	-.0000001426	-.0000000660	-.0000000879
PCB_2	0.0000000007	0.0000000007	0.0000000074	0.0000000040	0.0000000031
PCB_3	0.0000000000	-.0000000005	-.0000000014	-.0000000001	-.0000000018
PCB_4	-.0000001613	-.0000002980	-.0000021489	-.0000010306	-.0000012816
PCB_5	0.0000000004	0.0000000002	0.0000000036	0.0000000021	0.0000000008
PCB_6	-.0000000140	-.0000000304	-.0000001977	-.0000000906	-.0000001301
PCB_7	-.0000000019	-.0000000036	-.0000000252	-.0000000119	-.0000000158
PCB_8	-.0000000419	-.0000000932	-.0000006194	-.0000002830	-.0000004182
PCB_9	-.0000000034	-.0000000068	-.0000000467	-.0000000218	-.0000000297
PCB_10	-.0000000139	-.0000000245	-.0000001851	-.0000000887	-.0000001087
PCB_11	0.0000000380	0.0000000662	0.0000005012	0.0000002452	0.0000003002
PCB_14	0.0000000006	0.0000000004	0.0000000064	0.0000000035	0.0000000023
PCB_15	-.0000000086	-.0000000216	-.0000001319	-.0000000587	-.0000000928
PCB_16	-.0000000120	-.0000000259	-.0000001668	-.0000000743	-.0000000991
PCB_17	-.0000002251	-.0000004085	-.0000030292	-.0000014404	-.0000017698
PCB_19	-.0000000978	-.0000001773	-.0000012897	-.0000006205	-.0000007526
PCB_22	-.0000000392	-.0000000889	-.0000005766	-.0000002510	-.0000003667
PCB_23	0.0000000005	0.0000000004	0.0000000054	0.0000000031	0.0000000019
PCB_24	-.0000000022	-.0000000050	-.0000000353	-.0000000169	-.0000000186
PCB_25	-.0000001680	-.0000003428	-.0000023057	-.0000010597	-.0000014399
PCB_27	-.0000002397	-.0000004833	-.0000032856	-.0000015044	-.0000020315
PCB_31	-.0000001434	-.0000003099	-.0000019925	-.0000008929	-.0000012819
PCB_32	-.0000002010	-.0000003932	-.0000027138	-.0000012596	-.0000016564
PCB_34	-.0000000032	-.0000000072	-.0000000469	-.0000000211	-.0000000305
PCB_35	0.0000000006	0.0000000004	0.0000000064	0.0000000035	0.0000000023
PCB_37	-.0000000035	-.0000000105	-.0000000560	-.0000000200	-.0000000405
PCB_38	-.0000000011	-.0000000023	-.0000000152	-.0000000066	-.0000000095
PCB_39	-.0000000004	-.0000000012	-.0000000075	-.0000000031	-.0000000051
PCB_42	-.0000001368	-.0000002337	-.0000017481	-.0000008335	-.0000009976
PCB_43	0.0000000058	0.0000000036	0.0000000602	0.0000000380	0.0000000284
PCB_46	-.0000000125	-.0000000236	-.0000001613	-.0000000759	-.0000000922
PCB_48	0.0000000019	0.0000000009	0.0000000196	0.0000000131	0.0000000147
PCB_52	-.0000025786	-.0000047928	-.0000346531	-.0000164059	-.0000206340
PCB_54	-.0000000178	-.0000000329	-.0000002358	-.0000001138	-.0000001403
PCB_55	0.0000000043	0.0000000068	0.0000000592	0.0000000272	0.0000000335
PCB_56	0.0000000178	0.0000000516	0.0000002931	0.0000001393	0.0000002308
PCB_57	-.0000000452	-.0000000971	-.0000006474	-.0000002946	-.0000004158
PCB_58	-.0000000158	-.0000000328	-.0000002244	-.0000001019	-.0000001414
PCB_60	0.0000000433	0.0000000867	0.0000005991	0.0000002884	0.0000003839
PCB_63	-.0000000299	-.0000000645	-.0000004346	-.0000001978	-.0000002828

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_1	-.0000000010	-.0000000019	-.0000000003	-.0000000003	-.0000012726
PCB_2	0.0000000001	0.0000000002	0.0000000001	0.0000000001	0.0000000457
PCB_3	0.0000000000	0.0000000000	0.0000000001	0.0000000001	-.0000000215
PCB_4	-.0000000167	-.0000000261	-.0000000089	-.0000000096	-.0000187660
PCB_5	0.0000000001	0.0000000001	0.0000000001	0.0000000001	0.0000000125
PCB_6	-.0000000009	-.0000000015	0.0000000000	0.0000000000	-.0000019460
PCB_7	-.0000000002	-.0000000004	-.0000000001	-.0000000001	-.0000002240
PCB_8	-.0000000003	-.0000000072	0.0000000008	0.0000000008	-.0000063275
PCB_9	-.0000000002	-.0000000006	-.0000000001	-.0000000001	-.0000004378
PCB_10	-.0000000015	-.0000000031	-.0000000009	-.0000000010	-.0000015823
PCB_11	0.0000000013	0.0000000076	0.0000000020	0.0000000023	0.0000046074
PCB_14	0.0000000001	0.0000000003	0.0000000001	0.0000000001	0.0000000372
PCB_15	0.0000000002	-.0000000006	0.0000000004	0.0000000005	-.0000013866
PCB_16	-.0000000032	0.0000000010	-.0000000001	0.0000000001	-.0000015663
PCB_17	-.0000000312	-.0000000352	-.0000000116	-.0000000117	-.0000268431
PCB_19	-.0000000126	-.0000000131	-.0000000058	-.0000000061	-.0000111990
PCB_22	-.0000000081	0.0000000006	0.0000000013	0.0000000020	-.0000059781
PCB_23	0.0000000001	0.0000000002	0.0000000001	0.0000000001	0.0000000276
PCB_24	-.0000000010	0.0000000007	-.0000000001	0.0000000000	-.0000003224
PCB_25	-.0000000206	-.0000000135	-.0000000023	-.0000000018	-.0000221434
PCB_27	-.0000000310	-.0000000161	-.0000000026	-.0000000014	-.0000320438
PCB_31	-.0000000190	-.0000000071	0.0000000009	0.0000000017	-.0000197417
PCB_32	-.0000000263	-.0000000198	-.0000000054	-.0000000052	-.0000253832
PCB_34	-.0000000003	-.0000000002	0.0000000001	0.0000000001	-.0000004771
PCB_35	0.0000000001	0.0000000003	0.0000000001	0.0000000001	0.0000000372
PCB_37	-.0000000008	0.0000000003	0.0000000005	0.0000000006	-.0000006158
PCB_38	-.0000000002	-.0000000000	0.0000000000	0.0000000000	-.0000001550
PCB_39	-.0000000001	-.0000000000	0.0000000000	0.0000000001	-.0000000825
PCB_42	-.0000000230	-.0000000237	-.0000000089	-.0000000098	-.0000148013
PCB_43	-.0000000009	0.0000000044	0.0000000014	0.0000000018	0.0000002728
PCB_46	-.0000000028	-.0000000002	-.0000000007	-.0000000006	-.0000013943
PCB_48	-.0000000014	0.0000000017	0.0000000001	0.0000000002	0.0000003008
PCB_52	-.0000003459	-.0000003917	-.0000001189	-.0000001229	-.0003093592
PCB_54	-.0000000019	-.0000000025	-.0000000010	-.0000000011	-.0000020621
PCB_55	0.0000000005	0.0000000012	0.0000000001	0.0000000001	0.0000005842
PCB_56	-.0000000062	-.0000000003	-.0000000017	-.0000000019	0.0000035655
PCB_57	-.0000000045	-.0000000047	0.0000000001	0.0000000003	-.0000063500
PCB_58	-.0000000020	-.0000000020	-.0000000001	-.0000000000	-.0000021609
PCB_60	-.0000000005	0.0000000064	0.0000000011	0.0000000013	0.0000057799
PCB_63	-.0000000021	-.0000000032	0.0000000004	0.0000000006	-.0000044609

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_1	-.0000000004	-.0000000052	-.0000000132	-.0000000070	-.0000000003
PCB_2	0.0000000001	0.0000000004	0.0000000020	0.0000000004	0.0000000001
PCB_3	0.0000000001	0.0000000001	0.0000000006	-.0000000000	0.0000000001
PCB_4	-.0000000094	-.0000000880	-.0000002340	-.0000001068	-.0000000083
PCB_5	0.0000000001	0.0000000003	0.0000000014	0.0000000002	0.0000000001
PCB_6	-.0000000000	-.0000000064	-.0000000122	-.0000000097	0.0000000001
PCB_7	-.0000000001	-.0000000009	-.0000000029	-.0000000013	-.0000000001
PCB_8	0.0000000005	-.0000000151	-.0000000391	-.0000000300	0.0000000008
PCB_9	-.0000000001	-.0000000016	-.0000000043	-.0000000023	-.0000000001
PCB_10	-.0000000009	-.0000000072	-.0000000239	-.0000000095	-.0000000009
PCB_11	0.0000000022	0.0000000164	0.0000000554	0.0000000240	0.0000000022
PCB_14	0.0000000001	0.0000000004	0.0000000020	0.0000000004	0.0000000001
PCB_15	0.0000000004	-.0000000031	-.0000000022	-.0000000058	0.0000000005
PCB_16	-.0000000001	-.0000000100	-.0000000053	-.0000000091	0.0000000002
PCB_17	-.0000000124	-.0000001334	-.0000003276	-.0000001584	-.0000000107
PCB_19	-.0000000061	-.0000000583	-.0000001381	-.0000000651	-.0000000052
PCB_22	0.0000000011	-.0000000266	-.0000000156	-.0000000323	0.0000000021
PCB_23	0.0000000001	0.0000000003	0.0000000017	0.0000000003	0.0000000001
PCB_24	-.0000000001	-.0000000032	-.0000000006	-.0000000019	0.0000000001
PCB_25	-.0000000029	-.0000000937	-.0000001544	-.0000001191	-.0000000009
PCB_27	-.0000000034	-.0000001362	-.0000001987	-.0000001712	-.0000000007
PCB_31	0.0000000005	-.0000000795	-.0000000998	-.0000001048	0.0000000025
PCB_32	-.0000000060	-.0000001146	-.0000002155	-.0000001412	-.0000000040
PCB_34	0.0000000000	-.0000000017	-.0000000019	-.0000000024	0.0000000001
PCB_35	0.0000000001	0.0000000004	0.0000000020	0.0000000004	0.0000000001
PCB_37	0.0000000005	-.0000000019	0.0000000032	-.0000000031	0.0000000005
PCB_38	0.0000000000	-.0000000007	-.0000000007	-.0000000009	0.0000000000
PCB_39	0.0000000000	-.0000000003	-.0000000001	-.0000000004	0.0000000001
PCB_42	-.0000000092	-.0000000822	-.0000002296	-.0000000965	-.0000000088
PCB_43	0.0000000014	0.0000000005	0.0000000272	0.0000000025	0.0000000017
PCB_46	-.0000000007	-.0000000094	-.0000000138	-.0000000087	-.0000000004
PCB_48	0.0000000001	-.0000000019	0.0000000074	0.0000000010	0.0000000002
PCB_52	-.0000001280	-.0000014875	-.0000036847	-.0000018174	-.0000001062
PCB_54	-.0000000011	-.0000000100	-.0000000248	-.0000000116	-.0000000009
PCB_55	0.0000000001	0.0000000020	0.0000000067	0.0000000035	0.0000000002
PCB_56	-.0000000015	0.0000000004	-.0000000135	0.0000000084	-.0000000021
PCB_57	-.0000000002	-.0000000234	-.0000000396	-.0000000329	0.0000000004
PCB_58	-.0000000002	-.0000000086	-.0000000169	-.0000000119	0.0000000000
PCB_60	0.0000000013	0.0000000171	0.0000000454	0.0000000265	0.0000000010
PCB_63	0.0000000003	-.0000000142	-.0000000233	-.0000000221	0.0000000006

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_1	-.0000000358	-.0000000199	-.0000000261	-.0000000160	-.0000000212
PCB_2	0.0000000036	0.0000000017	0.0000000027	0.0000000011	0.0000000016
PCB_3	0.0000000008	0.0000000002	0.0000000006	0.0000000001	0.0000000001
PCB_4	-.0000006049	-.0000003200	-.0000004394	-.0000002515	-.0000003316
PCB_5	0.0000000024	0.0000000010	0.0000000017	0.0000000006	0.0000000008
PCB_6	-.0000000424	-.0000000254	-.0000000318	-.0000000224	-.0000000287
PCB_7	-.0000000068	-.0000000038	-.0000000051	-.0000000030	-.0000000040
PCB_8	-.0000001306	-.0000000809	-.0000001002	-.0000000720	-.0000000947
PCB_9	-.0000000116	-.0000000066	-.0000000087	-.0000000055	-.0000000072
PCB_10	-.0000000551	-.0000000292	-.0000000403	-.0000000221	-.0000000298
PCB_11	0.0000001449	0.0000000783	0.0000001085	0.0000000643	0.0000000853
PCB_14	0.0000000034	0.0000000016	0.0000000025	0.0000000010	0.0000000014
PCB_15	-.0000000210	-.0000000143	-.0000000163	-.0000000145	-.0000000182
PCB_16	-.0000000345	-.0000000189	-.0000000219	-.0000000152	-.0000000179
PCB_17	-.0000008598	-.0000004539	-.0000006123	-.0000003462	-.0000004568
PCB_19	-.0000003690	-.0000001919	-.0000002637	-.0000001486	-.0000001944
PCB_22	-.0000001070	-.0000000661	-.0000000717	-.0000000557	-.0000000682
PCB_23	0.0000000029	0.0000000013	0.0000000022	0.0000000009	0.0000000012
PCB_24	-.0000000092	-.0000000038	-.0000000047	-.0000000023	-.0000000026
PCB_25	-.0000005304	-.0000003046	-.0000003828	-.0000002553	-.0000003243
PCB_27	-.0000007444	-.0000004308	-.0000005335	-.0000003641	-.0000004586
PCB_31	-.0000004055	-.0000002466	-.0000002940	-.0000002139	-.0000002669
PCB_32	-.0000006679	-.0000003734	-.0000004807	-.0000003046	-.0000003899
PCB_34	-.0000000093	-.0000000057	-.0000000067	-.0000000050	-.0000000063
PCB_35	0.0000000034	0.0000000016	0.0000000025	0.0000000010	0.0000000014
PCB_37	-.0000000016	-.0000000038	-.0000000012	-.0000000047	-.0000000050
PCB_38	-.0000000031	-.0000000019	-.0000000021	-.0000000015	-.0000000019
PCB_39	-.0000000011	-.0000000008	-.0000000008	-.0000000007	-.0000000009
PCB_42	-.0000005294	-.0000002775	-.0000003805	-.0000002038	-.0000002701
PCB_43	0.0000000398	0.0000000183	0.0000000315	0.0000000120	0.0000000187
PCB_46	-.0000000432	-.0000000221	-.0000000294	-.0000000168	-.0000000209
PCB_48	0.0000000112	0.0000000069	0.0000000107	0.0000000060	0.0000000090
PCB_52	-.0000096032	-.0000051349	-.0000068930	-.0000039527	-.0000052065
PCB_54	-.0000000665	-.0000000348	-.0000000481	-.0000000275	-.0000000361
PCB_55	0.0000000167	0.0000000097	0.0000000122	0.0000000074	0.0000000100
PCB_56	0.0000000338	0.0000000268	0.0000000310	0.0000000369	0.0000000457
PCB_57	-.0000001412	-.0000000833	-.0000001027	-.0000000709	-.0000000911
PCB_58	-.0000000519	-.0000000301	-.0000000374	-.0000000245	-.0000000318
PCB_60	0.0000001476	0.0000000832	0.0000001121	0.0000000741	0.0000000966
PCB_63	-.0000000921	-.0000000559	-.0000000677	-.0000000487	-.0000000627

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_1	-.0000000474	-.0000000003	-.0000000035	-.0000000298	-.0000000035
PCB_2	0.0000000043	0.0000000001	0.0000000002	0.0000000023	0.0000000003
PCB_3	0.0000000008	0.0000000001	-.0000000000	0.0000000002	0.0000000000
PCB_4	-.0000007734	-.0000000084	-.0000000543	-.0000004689	-.0000000556
PCB_5	0.0000000026	0.0000000001	0.0000000001	0.0000000012	0.0000000002
PCB_6	-.0000000591	0.0000000001	-.0000000051	-.0000000409	-.0000000045
PCB_7	-.0000000090	-.0000000001	-.0000000006	-.0000000056	-.0000000007
PCB_8	-.0000001921	0.0000000008	-.0000000161	-.0000001350	-.0000000146
PCB_9	-.0000000158	-.0000000001	-.0000000012	-.0000000102	-.0000000012
PCB_10	-.0000000709	-.0000000009	-.0000000047	-.0000000422	-.0000000051
PCB_11	0.0000001939	0.0000000022	0.0000000134	0.0000001220	0.0000000145
PCB_14	0.0000000041	0.0000000001	0.0000000002	0.0000000021	0.0000000003
PCB_15	-.0000000329	0.0000000005	-.0000000033	-.0000000258	-.0000000028
PCB_16	-.0000000394	0.0000000002	-.0000000040	-.0000000255	-.0000000027
PCB_17	-.0000010827	-.0000000107	-.0000000767	-.0000006488	-.0000000761
PCB_19	-.0000004609	-.0000000052	-.0000000325	-.0000002753	-.0000000327
PCB_22	-.0000001386	0.0000000020	-.0000000145	-.0000000984	-.0000000098
PCB_23	0.0000000035	0.0000000001	0.0000000001	0.0000000017	0.0000000002
PCB_24	-.0000000082	0.0000000001	-.0000000008	-.0000000035	-.0000000003
PCB_25	-.0000006975	-.0000000009	-.0000000589	-.0000004638	-.0000000515
PCB_27	-.0000009784	-.0000000007	-.0000000848	-.0000006593	-.0000000731
PCB_31	-.0000005454	0.0000000024	-.0000000507	-.0000003829	-.0000000410
PCB_32	-.0000008638	-.0000000041	-.0000000693	-.0000005571	-.0000000631
PCB_34	-.0000000128	0.0000000001	-.0000000012	-.0000000091	-.0000000010
PCB_35	0.0000000041	0.0000000001	0.0000000002	0.0000000021	0.0000000003
PCB_37	-.0000000047	0.0000000005	-.0000000013	-.0000000071	-.0000000007
PCB_38	-.0000000040	0.0000000000	-.0000000004	-.0000000028	-.0000000003
PCB_39	-.0000000017	0.0000000001	-.0000000002	-.0000000012	-.0000000001
PCB_42	-.0000006567	-.0000000088	-.0000000444	-.0000003845	-.0000000455
PCB_43	0.0000000521	0.0000000017	0.0000000017	0.0000000262	0.0000000036
PCB_46	-.0000000502	-.0000000004	-.0000000040	-.0000000296	-.0000000034
PCB_48	0.0000000198	0.0000000002	0.0000000010	0.0000000136	0.0000000014
PCB_52	-.0000121933	-.0000001066	-.0000008772	-.0000073946	-.0000008568
PCB_54	-.0000000843	-.0000000009	-.0000000060	-.0000000510	-.0000000060
PCB_55	0.0000000227	0.0000000002	0.0000000016	0.0000000146	0.0000000017
PCB_56	0.0000000701	-.0000000021	0.0000000081	0.0000000652	0.0000000066
PCB_57	-.0000001916	0.0000000004	-.0000000164	-.0000001298	-.0000000142
PCB_58	-.0000000691	-.0000000000	-.0000000057	-.0000000453	-.0000000050
PCB_60	0.0000002057	0.0000000010	0.0000000158	0.0000001375	0.0000000158
PCB_63	-.0000001290	0.0000000006	-.0000000113	-.0000000900	-.0000000096

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_1	-.0000000104	-.0000000210	0.0000000011	0.0000000017	0.0000005968
PCB_2	0.0000000008	0.0000000016	0.0000000001	0.0000000004	-.0000001481
PCB_3	0.0000000001	0.0000000001	0.0000000001	0.0000000008	-.0000000852
PCB_4	-.0000001621	-.0000003248	0.0000000099	-.0000000917	0.0000141352
PCB_5	0.0000000005	0.0000000008	0.0000000001	0.0000000010	-.0000001359
PCB_6	-.0000000138	-.0000000296	0.0000000025	0.0000000042	0.0000001314
PCB_7	-.0000000020	-.0000000040	0.0000000001	0.0000000002	0.0000000683
PCB_8	-.0000000464	-.0000001010	0.0000000064	0.0000000677	-.0000009343
PCB_9	-.0000000035	-.0000000074	0.0000000003	0.0000000011	0.0000001009
PCB_10	-.0000000148	-.0000000296	0.0000000003	-.0000000024	0.0000011546
PCB_11	0.0000000428	0.0000000879	-.0000000017	-.0000000321	-.0000030950
PCB_14	0.0000000008	0.0000000014	0.0000000001	0.0000000004	-.0000001478
PCB_15	-.0000000087	-.0000000194	0.0000000024	0.0000000154	-.0000003122
PCB_16	-.0000000075	-.0000000152	0.0000000038	-.0000000422	0.0000013146
PCB_17	-.0000002211	-.0000004436	0.0000000169	-.0000002081	0.0000216487
PCB_19	-.0000000940	-.0000001867	0.0000000071	-.0000001087	0.0000103554
PCB_22	-.0000000302	-.0000000664	0.0000000129	-.0000000667	0.0000012088
PCB_23	0.0000000006	0.0000000011	0.0000000001	0.0000000005	-.0000001407
PCB_24	-.0000000007	-.0000000008	0.0000000005	-.0000000209	0.0000007000
PCB_25	-.0000001542	-.0000003241	0.0000000324	-.0000001112	0.0000083937
PCB_27	-.0000002176	-.0000004599	0.0000000524	-.0000001514	0.0000136161
PCB_31	-.0000001253	-.0000002699	0.0000000365	-.0000001011	0.0000030871
PCB_32	-.0000001867	-.0000003865	0.0000000330	-.0000001588	0.0000130890
PCB_34	-.0000000030	-.0000000064	0.0000000008	-.0000000003	0.0000000690
PCB_35	0.0000000008	0.0000000014	0.0000000001	0.0000000004	-.0000001478
PCB_37	-.0000000022	-.0000000055	0.0000000027	0.0000000020	-.0000004844
PCB_38	-.0000000009	-.0000000019	0.0000000003	-.0000000016	0.0000000302
PCB_39	-.0000000004	-.0000000009	0.0000000002	-.0000000000	-.0000000218
PCB_42	-.0000001320	-.0000002625	0.0000000076	-.0000001825	0.0000127789
PCB_43	0.0000000105	0.0000000197	0.0000000041	-.0000000207	-.0000008924
PCB_46	-.0000000095	-.0000000186	0.0000000021	-.0000000384	0.0000015477
PCB_48	0.0000000051	0.0000000118	0.0000000013	-.0000000277	0.0000003989
PCB_52	-.0000025185	-.0000050916	0.0000002082	-.0000023507	0.0002076035
PCB_54	-.0000000175	-.0000000350	0.0000000012	-.0000000143	0.0000016971
PCB_55	0.0000000050	0.0000000107	-.0000000005	-.0000000064	-.0000002847
PCB_56	0.0000000222	0.0000000520	-.0000000051	-.0000000974	0.0000015055
PCB_57	-.0000000434	-.0000000922	0.0000000087	-.0000000044	0.0000012285
PCB_58	-.0000000152	-.0000000320	0.0000000027	-.0000000060	0.0000004847
PCB_60	0.0000000478	0.0000001003	-.0000000043	-.0000000530	-.0000021646
PCB_63	-.0000000300	-.0000000652	0.0000000061	0.0000000146	0.0000004115

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_1	-.0000000693	-.0000007213	-.0000000193	-.0000003812	-.0000000037
PCB_2	0.0000000061	0.0000000646	0.0000000027	0.0000000097	0.0000000008
PCB_3	0.0000000026	0.0000000237	0.0000000011	-.0000000079	0.0000000008
PCB_4	-.0000015656	-.0000140499	-.0000004123	-.0000059112	-.0000001670
PCB_5	0.0000000073	0.0000000603	0.0000000023	0.0000000029	0.0000000011
PCB_6	-.0000001083	-.0000008888	-.0000000067	-.0000005260	-.0000000031
PCB_7	-.0000000139	-.0000001207	-.0000000026	-.0000000620	-.0000000005
PCB_8	0.0000000011	-.0000013092	0.0000000233	-.0000015139	0.0000000412
PCB_9	-.0000000214	-.0000002104	-.0000000032	-.0000001185	-.0000000005
PCB_10	-.0000001025	-.0000010700	-.0000000303	-.0000004632	-.0000000083
PCB_11	0.0000000863	0.0000021064	0.0000000553	0.0000011199	-.0000000040
PCB_14	0.0000000059	0.0000000631	0.0000000018	0.0000000044	0.0000000007
PCB_15	-.0000000121	-.0000002658	0.0000000034	-.0000003520	0.0000000078
PCB_16	-.0000003306	-.0000020400	-.0000000371	-.0000006437	-.0000000444
PCB_17	-.0000024967	-.0000222521	-.0000005398	-.0000086534	-.0000002933
PCB_19	-.0000011966	-.0000099951	-.0000002876	-.0000037623	-.0000001503
PCB_22	-.0000007226	-.0000048240	-.0000000112	-.0000019235	-.0000000749
PCB_23	0.0000000049	0.0000000558	0.0000000028	0.0000000069	0.0000000008
PCB_24	-.0000000946	-.0000007307	-.0000000245	-.0000002397	-.0000000202
PCB_25	-.0000020996	-.0000154065	-.0000001851	-.0000064936	-.0000001838
PCB_27	-.0000030321	-.0000225992	-.0000002085	-.0000091330	-.0000002664
PCB_31	-.0000020518	-.0000131358	-.0000000499	-.0000055983	-.0000001549
PCB_32	-.0000025581	-.0000191099	-.0000002904	-.0000075542	-.0000002424
PCB_34	-.0000000313	-.0000002581	-.0000000013	-.0000001369	-.0000000020
PCB_35	0.0000000059	0.0000000631	0.0000000018	0.0000000044	0.0000000007
PCB_37	-.0000000769	-.0000002555	0.0000000163	-.0000001297	0.0000000003
PCB_38	-.0000000185	-.0000001232	0.0000000002	-.0000000464	-.0000000017
PCB_39	-.0000000037	-.0000000370	0.0000000005	-.0000000256	-.0000000001
PCB_42	-.0000019513	-.0000143085	-.0000003032	-.0000046253	-.0000002111
PCB_43	-.0000001275	-.0000002347	0.0000000264	-.0000000035	-.0000000166
PCB_46	-.0000002970	-.0000018903	-.0000000448	-.0000005614	-.0000000405
PCB_48	-.0000001470	-.0000006145	-.0000000259	-.0000001058	-.0000000247
PCB_52	-.0000296343	-.0002469846	-.0000055383	-.0000981560	-.0000032129
PCB_54	-.0000001908	-.0000016557	-.0000000505	-.0000006744	-.0000000227
PCB_55	0.0000000020	0.0000002298	-.0000000066	0.0000000995	-.0000000039
PCB_56	-.0000003638	-.0000010606	-.0000000196	0.0000007690	-.0000000624
PCB_57	-.0000004147	-.0000034979	-.0000000327	-.0000018266	-.0000000257
PCB_58	-.0000001645	-.0000013207	-.0000000107	-.0000006256	-.0000000113
PCB_60	0.0000000399	0.0000019273	0.0000000576	0.0000014759	-.0000000155
PCB_63	-.0000001759	-.0000019323	0.0000000033	-.0000011747	-.0000000019

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_1	-.0000007413	-.0000002614	-.0000000236	-.0000000606	0.0000000501
PCB_2	-.0000000303	0.0000001615	0.0000000035	0.0000000022	-.0000000067
PCB_3	-.0000000337	0.0000000995	0.0000000017	-.0000000010	-.0000000028
PCB_4	-.0000113124	-.0000065104	-.0000006430	-.0000008924	0.0000010315
PCB_5	-.0000000330	0.0000001324	0.0000000052	0.0000000013	-.0000000059
PCB_6	-.0000014746	0.0000005246	-.0000000119	-.0000000891	0.0000000379
PCB_7	-.0000001115	0.0000000002	-.0000000045	-.0000000101	0.0000000082
PCB_8	-.0000041309	0.0000006350	0.0000001669	-.0000002565	0.0000000274
PCB_9	-.0000002671	0.0000000008	-.0000000037	-.0000000196	0.0000000124
PCB_10	-.0000007073	-.0000007990	-.0000000449	-.0000000736	0.0000000842
PCB_11	0.0000020737	0.0000038486	-.0000000621	0.0000001894	-.0000001593
PCB_14	-.0000000403	0.0000001720	0.0000000042	0.0000000022	-.0000000063
PCB_15	-.0000011148	0.0000004402	0.0000000399	-.0000000591	-.0000000035
PCB_16	-.0000020629	0.0000009697	-.0000001726	-.0000001020	0.0000001118
PCB_17	-.0000182039	-.0000093049	-.0000011833	-.0000013392	0.0000015750
PCB_19	-.0000076861	-.0000041127	-.0000005552	-.0000005603	0.0000007242
PCB_22	-.0000068514	0.0000037724	-.0000003130	-.0000003370	0.0000001975
PCB_23	-.0000000349	0.0000001545	0.0000000034	0.0000000014	-.0000000062
PCB_24	-.0000006851	0.0000000588	-.0000000635	-.0000000219	0.0000000539
PCB_25	-.0000185815	0.0000037735	-.0000007339	-.0000011285	0.0000007884
PCB_27	-.0000278035	0.0000028757	-.0000010126	-.0000016646	0.0000010960
PCB_31	-.0000180648	0.0000098968	-.0000007019	-.0000010391	0.0000005260
PCB_32	-.0000201350	0.0000009842	-.0000009901	-.0000013058	0.0000010764
PCB_34	-.0000004340	0.0000001291	-.0000000065	-.0000000233	0.0000000104
PCB_35	-.0000000403	0.0000001720	0.0000000042	0.0000000022	-.0000000063
PCB_37	-.0000006889	0.0000010562	-.0000000230	-.0000000409	-.0000000147
PCB_38	-.0000001615	0.0000000879	-.0000000084	-.0000000088	0.0000000050
PCB_39	-.0000000892	0.0000000576	-.0000000010	-.0000000041	0.0000000009
PCB_42	-.0000088284	-.0000028660	-.0000010234	-.0000007888	0.0000009925
PCB_43	-.0000011434	0.0000022287	-.0000000639	-.0000000131	-.0000000385
PCB_46	-.0000014679	0.0000003553	-.0000001587	-.0000000855	0.0000001206
PCB_48	-.0000003373	0.0000009146	-.0000001103	-.0000000081	0.0000000396
PCB_52	-.0002121688	-.0000499743	-.0000136391	-.0000153430	0.0000168406
PCB_54	-.0000013471	-.0000007133	-.0000000795	-.0000000986	0.0000001213
PCB_55	0.0000002616	0.0000005297	-.0000000081	0.0000000281	-.0000000103
PCB_56	0.0000028561	0.0000007607	-.0000004160	0.0000000933	0.0000001148
PCB_57	-.0000051653	0.0000012827	-.0000001066	-.0000003060	0.0000001684
PCB_58	-.0000016992	0.0000004922	-.0000000600	-.0000001073	0.0000000677
PCB_60	0.0000033692	0.0000027792	-.0000001533	0.0000002271	-.0000001251
PCB_63	-.0000036212	0.0000004635	0.0000000076	-.0000002038	0.0000000740

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_1	-.0000003132	-.0000001811	-.0000000110	-.0000000695	0.0000000465
PCB_2	0.0000000255	0.0000000092	0.0000000008	0.0000000067	0.0000000047
PCB_3	0.0000000008	-.0000000016	-.0000000000	0.0000000013	0.0000000036
PCB_4	-.0000046432	-.0000027345	-.0000001708	-.0000011419	0.0000006816
PCB_5	0.0000000174	0.0000000050	0.0000000004	0.0000000042	0.0000000038
PCB_6	-.0000003333	-.0000002565	-.0000000145	-.0000000800	0.0000001542
PCB_7	-.0000000549	-.0000000312	-.0000000020	-.0000000133	0.0000000094
PCB_8	-.0000010982	-.0000007744	-.0000000471	-.0000002629	0.0000003581
PCB_9	-.0000000936	-.0000000590	-.0000000036	-.0000000225	0.0000000231
PCB_10	-.0000004484	-.0000002311	-.0000000153	-.0000001067	0.0000000293
PCB_11	0.0000010804	0.0000006329	0.0000000419	0.0000002786	-.0000000944
PCB_14	0.0000000271	0.0000000085	0.0000000007	0.0000000064	0.0000000044
PCB_15	-.0000001813	-.0000001712	-.0000000092	-.0000000409	0.0000001109
PCB_16	-.0000002641	-.0000002446	-.0000000099	-.0000000525	0.0000002179
PCB_17	-.0000067598	-.0000039239	-.0000002351	-.0000016052	0.0000011448
PCB_19	-.0000027655	-.0000016714	-.0000001005	-.0000006812	0.0000004833
PCB_22	-.0000009079	-.0000008194	-.0000000353	-.0000001776	0.0000007581
PCB_23	0.0000000212	0.0000000067	0.0000000006	0.0000000055	0.0000000059
PCB_24	-.0000000539	-.0000000498	-.0000000018	-.0000000142	0.0000000219
PCB_25	-.0000041317	-.0000031071	-.0000001650	-.0000009517	0.0000019816
PCB_27	-.0000058236	-.0000045179	-.0000002310	-.0000013088	0.0000030616
PCB_31	-.0000032455	-.0000027386	-.0000001358	-.0000007086	0.0000022495
PCB_32	-.0000051937	-.0000036427	-.0000001986	-.0000012038	0.0000020682
PCB_34	-.0000000757	-.0000000632	-.0000000032	-.0000000168	0.0000000438
PCB_35	0.0000000271	0.0000000085	0.0000000007	0.0000000064	0.0000000044
PCB_37	-.0000000659	-.0000000887	-.0000000027	0.0000000005	0.0000001366
PCB_38	-.0000000276	-.0000000216	-.0000000010	-.0000000053	0.0000000192
PCB_39	-.0000000123	-.0000000100	-.0000000005	-.0000000022	0.0000000079
PCB_42	-.0000041422	-.0000022804	-.0000001388	-.0000009776	0.0000008256
PCB_43	0.0000002878	0.0000000389	0.0000000091	0.0000000879	0.0000002023
PCB_46	-.0000003044	-.0000002242	-.0000000112	-.0000000723	0.0000001455
PCB_48	0.0000000546	0.0000000111	0.0000000034	0.0000000273	0.0000000395
PCB_52	-.0000750027	-.0000447177	-.0000026802	-.0000179604	0.0000157072
PCB_54	-.0000004924	-.0000003015	-.0000000186	-.0000001241	0.0000000810
PCB_55	0.0000001561	0.0000000806	0.0000000047	0.0000000319	-.0000000274
PCB_56	0.0000001291	0.0000003537	0.0000000215	0.0000000744	-.0000001626
PCB_57	-.0000011596	-.0000008524	-.0000000465	-.0000002632	0.0000004973
PCB_58	-.0000004378	-.0000002950	-.0000000163	-.0000000971	0.0000001674
PCB_60	0.0000010702	0.0000007519	0.0000000478	0.0000002861	-.0000001968
PCB_63	-.0000007475	-.0000005725	-.0000000312	-.0000001732	0.0000003440

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_1	0.0000000013	0.0000001211	0.0000000732	0.0000003597	0.0000000823
PCB_2	0.0000000009	0.0000000011	-.0000000089	-.0000000067	-.0000000149
PCB_3	0.0000000004	0.0000000029	-.0000000033	0.0000000051	-.0000000050
PCB_4	0.0000000132	0.0000020428	0.0000014562	0.0000060033	0.0000016207
PCB_5	0.0000000006	0.0000000000	-.0000000071	-.0000000013	-.0000000111
PCB_6	0.0000000087	0.0000002382	0.0000001000	0.0000007010	0.0000000430
PCB_7	-.0000000002	0.0000000181	0.0000000152	0.0000000691	0.0000000185
PCB_8	0.0000000143	0.0000004827	0.0000001750	0.0000018402	0.0000000665
PCB_9	0.0000000006	0.0000000410	0.0000000245	0.0000001393	0.0000000226
PCB_10	-.0000000033	0.0000001202	0.0000001178	0.0000004389	0.0000001596
PCB_11	0.0000000057	-.0000002906	-.0000002618	-.0000011666	-.0000002895
PCB_14	0.0000000009	0.0000000019	-.0000000084	-.0000000044	-.0000000137
PCB_15	0.0000000083	0.0000001548	0.0000000309	0.0000004368	-.0000000262
PCB_16	0.0000000221	0.0000004432	0.0000001589	0.0000008781	0.0000000368
PCB_17	0.0000000482	0.0000033071	0.0000021043	0.0000091876	0.0000021222
PCB_19	0.0000000224	0.0000014828	0.0000009707	0.0000039302	0.0000009899
PCB_22	0.0000000668	0.0000012624	0.0000003731	0.0000029041	-.0000000653
PCB_23	0.0000000009	0.0000000023	-.0000000072	-.0000000002	-.0000000133
PCB_24	0.0000000062	0.0000001219	0.0000000376	0.0000001972	0.0000000228
PCB_25	0.0000001330	0.0000034658	0.0000015143	0.0000089532	0.0000006538
PCB_27	0.0000002210	0.0000052805	0.0000021599	0.0000132022	0.0000005983
PCB_31	0.0000001561	0.0000034517	0.0000013132	0.0000087330	0.0000002141
PCB_32	0.0000001291	0.0000038713	0.0000018926	0.0000100725	0.0000011019
PCB_34	0.0000000034	0.0000000723	0.0000000230	0.0000001848	0.0000000002
PCB_35	0.0000000009	0.0000000019	-.0000000084	-.0000000044	-.0000000137
PCB_37	0.0000000105	0.0000001555	0.0000000273	0.0000003319	-.0000000567
PCB_38	0.0000000015	0.0000000305	0.0000000102	0.0000000739	-.0000000001
PCB_39	0.0000000007	0.0000000126	0.0000000018	0.0000000320	-.0000000025
PCB_42	0.0000000117	0.0000019578	0.0000015032	0.0000057074	0.0000015691
PCB_43	0.0000000263	0.0000002603	-.0000000260	0.0000003098	-.0000002172
PCB_46	0.0000000121	0.0000003339	0.0000001688	0.0000007244	0.0000001143
PCB_48	0.0000000091	0.0000001295	0.0000000257	0.0000000609	0.0000000002
PCB_52	0.0000006166	0.0000386002	0.0000242984	0.0001102067	0.0000237614
PCB_54	0.0000000029	0.0000002474	0.0000001673	0.0000006898	0.0000001778
PCB_55	-.0000000002	-.0000000398	-.0000000248	-.0000001592	-.0000000103
PCB_56	-.0000000185	-.0000001946	0.0000000803	-.0000007449	0.0000002363
PCB_57	0.0000000330	0.0000008531	0.0000003358	0.0000023325	0.0000001359
PCB_58	0.0000000098	0.0000002885	0.0000001271	0.0000008114	0.0000000706
PCB_60	-.0000000064	-.0000004336	-.0000002428	-.0000015155	-.0000002031
PCB_63	0.0000000232	0.0000005448	0.0000001843	0.0000015769	0.0000000157

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_1	0.0000007020	0.0000000794	0.0000000423	0.0000001518	-.0000000142
PCB_2	-.0000000640	-.0000000088	-.0000000020	-.0000000068	0.0000000164
PCB_3	-.0000000146	-.0000000040	0.0000000003	0.0000000027	0.0000000073
PCB_4	0.0000129358	0.0000016277	0.0000007429	0.0000021296	-.0000007306
PCB_5	-.0000000443	-.0000000080	-.0000000013	-.0000000036	0.0000000137
PCB_6	0.0000008882	0.0000001120	0.0000000788	0.0000001957	0.0000000945
PCB_7	0.0000001440	0.0000000134	0.0000000095	0.0000000248	-.0000000112
PCB_8	0.0000020980	0.0000001492	0.0000001710	0.0000006278	0.0000003966
PCB_9	0.0000002328	0.0000000242	0.0000000164	0.0000000466	0.0000000009
PCB_10	0.0000010969	0.0000001161	0.0000000569	0.0000001879	-.0000001061
PCB_11	-.0000023044	-.0000002865	-.0000001123	-.0000004945	-.0000000269
PCB_14	-.0000000556	-.0000000082	-.0000000017	-.0000000067	0.0000000159
PCB_15	0.0000003266	0.0000000432	0.0000000393	0.0000001376	0.0000001615
PCB_16	0.0000011401	0.0000002374	0.0000001029	0.0000001730	0.0000000937
PCB_17	0.0000185794	0.0000024448	0.0000010665	0.0000030612	-.0000007898
PCB_19	0.0000082920	0.0000011569	0.0000004794	0.0000012728	-.0000004282
PCB_22	0.0000029012	0.0000005362	0.0000003032	0.0000006047	0.0000005811
PCB_23	-.0000000520	-.0000000074	-.0000000010	-.0000000051	0.0000000155
PCB_24	0.0000003783	0.0000000682	0.0000000152	0.0000000346	0.0000000045
PCB_25	0.0000119921	0.0000018912	0.0000010254	0.0000023159	0.0000009418
PCB_27	0.0000161174	0.0000028531	0.0000014451	0.0000033478	0.0000020136
PCB_31	0.0000098636	0.0000016504	0.0000010283	0.0000020089	0.0000012846
PCB_32	0.0000149863	0.0000023212	0.0000011844	0.0000027261	0.0000005814
PCB_34	0.0000001951	0.0000000312	0.0000000184	0.0000000484	0.0000000411
PCB_35	-.0000000556	-.0000000082	-.0000000017	-.0000000067	0.0000000159
PCB_37	0.0000000723	0.0000000427	0.0000000426	0.0000000707	0.0000001262
PCB_38	0.0000000783	0.0000000134	0.0000000081	0.0000000162	0.0000000118
PCB_39	0.0000000256	0.0000000027	0.0000000026	0.0000000084	0.0000000095
PCB_42	0.0000123439	0.0000016072	0.0000008025	0.0000017239	-.0000011701
PCB_43	-.0000005186	0.0000000383	0.0000000247	-.0000000459	0.0000003055
PCB_46	0.0000012761	0.0000002210	0.0000000952	0.0000001556	-.0000000416
PCB_48	0.0000001177	0.0000000631	0.0000000179	-.0000000056	-.0000000206
PCB_52	0.0002148750	0.0000272058	0.0000133985	0.0000344891	-.0000095212
PCB_54	0.0000014649	0.0000001945	0.0000000841	0.0000002301	-.0000000733
PCB_55	-.0000001829	-.0000000271	-.0000000120	-.0000000675	-.0000000364
PCB_56	0.0000002260	0.0000000385	0.0000000051	-.0000002707	-.0000007596
PCB_57	0.0000029919	0.0000004056	0.0000002495	0.0000006619	0.0000003236
PCB_58	0.0000011372	0.0000001437	0.0000000917	0.0000002307	0.0000000615
PCB_60	-.0000023310	-.0000002869	-.0000001329	-.0000005860	-.0000002738
PCB_63	0.0000016995	0.0000002284	0.0000001477	0.0000004432	0.0000003539

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_1	0.0000002798	0.0000000644	0.0000004072	0.0000000187
PCB_2	-.0000000303	-.0000000139	-.0000000069	-.0000000007
PCB_3	-.0000000096	-.0000000064	0.0000000110	-.0000000001
PCB_4	0.0000042115	0.0000013573	0.0000050823	0.0000003049
PCB_5	-.0000000241	-.0000000114	0.0000000056	-.0000000005
PCB_6	0.0000002631	0.0000000248	0.0000005362	0.0000000372
PCB_7	0.0000000316	0.0000000123	0.0000000524	0.0000000032
PCB_8	0.0000009423	0.0000000217	0.0000024137	0.0000001068
PCB_9	0.0000000708	0.0000000162	0.0000001262	0.0000000073
PCB_10	0.0000003788	0.0000001318	0.0000004566	0.0000000235
PCB_11	-.0000013710	-.0000002870	-.0000018120	-.0000000787
PCB_14	-.0000000338	-.0000000140	-.0000000046	-.0000000010
PCB_15	0.0000002022	-.0000000312	0.0000005276	0.0000000239
PCB_16	0.0000002807	0.0000000570	0.0000001750	0.0000000464
PCB_17	0.0000064895	0.0000019943	0.0000074778	0.0000005146
PCB_19	0.0000026921	0.0000008909	0.0000028230	0.0000002042
PCB_22	0.0000008763	0.0000000250	0.0000013538	0.0000001712
PCB_23	-.0000000271	-.0000000127	-.0000000046	-.0000000003
PCB_24	0.0000000862	0.0000000358	0.0000001083	0.0000000089
PCB_25	0.0000039370	0.0000006458	0.0000052356	0.0000005045
PCB_27	0.0000066224	0.0000008458	0.0000080610	0.0000007962
PCB_31	0.0000026329	0.0000002005	0.0000038130	0.0000004859
PCB_32	0.0000049901	0.0000010665	0.0000058377	0.0000005694
PCB_34	0.0000000815	0.0000000028	0.0000001464	0.0000000108
PCB_35	-.0000000338	-.0000000140	-.0000000046	-.0000000010
PCB_37	0.0000000344	-.0000000527	0.0000000374	0.0000000198
PCB_38	0.0000000237	0.0000000020	0.0000000320	0.0000000045
PCB_39	0.0000000097	-.0000000016	0.0000000311	0.0000000019
PCB_42	0.0000030230	0.0000013429	0.0000022024	0.0000003031
PCB_43	-.0000001914	-.0000001587	-.0000002625	0.0000000197
PCB_46	0.0000002533	0.0000001084	0.0000000937	0.0000000356
PCB_48	-.0000000944	-.0000000047	-.0000003045	-.0000000041
PCB_52	0.0000628448	0.0000207790	0.0000766048	0.0000058719
PCB_54	0.0000004648	0.0000001518	0.0000005468	0.0000000345
PCB_55	-.0000002215	-.0000000284	-.0000002547	-.0000000160
PCB_56	-.0000006859	0.0000002048	-.0000022669	-.0000000455
PCB_57	0.0000010465	0.0000001212	0.0000018532	0.0000001306
PCB_58	0.0000003421	0.0000000614	0.0000005689	0.0000000456
PCB_60	-.0000013939	-.0000001816	-.0000023817	-.0000000893
PCB_63	0.0000008057	0.0000000409	0.0000015478	0.0000000972

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_64	PCB 64	0.0000000649	-.0000000138	-.0000000049
PCB_66	PCB 66	0.0000000942	0.0000000080	0.0000000068
PCB_67	PCB 67	0.0000000163	0.0000000002	0.0000000009
PCB_68	PCB 68	0.0000000210	0.0000000007	0.0000000010
PCB_72	PCB 72	0.0000000340	0.0000000010	0.0000000017
PCB_77	PCB 77	-.0000000042	0.0000000011	0.0000000006
PCB_78	PCB 78	0.0000000004	0.0000000001	0.0000000001
PCB_79	PCB 79	0.0000000075	-.0000000002	0.0000000000
PCB_81	PCB 81	-.0000000002	0.0000000000	-.0000000000
PCB_82	PCB 82	0.0000000206	-.0000000074	-.0000000033
PCB_83	PCB 83	0.0000000038	0.0000000007	-.0000000001
PCB_84	PCB 84	0.0000000565	-.0000000097	-.0000000043
PCB_89	PCB 89	-.0000000004	-.0000000000	-.0000000001
PCB_92	PCB 92	0.0000001294	0.0000000037	0.0000000053
PCB_94	PCB 94	0.0000000014	0.0000000003	0.0000000001
PCB_95	PCB 95	0.0000002610	-.0000000609	-.0000000267
PCB_96	PCB 96	0.0000000027	-.0000000005	-.0000000002
PCB_99	PCB 99	0.0000001595	0.0000000480	0.0000000279
PCB_103	PCB 103	0.0000000152	-.0000000019	-.0000000007
PCB_104	PCB 104	0.0000000003	0.0000000000	0.0000000000
PCB_105	PCB 105	-.0000000127	0.0000000097	0.0000000053
PCB_109	PCB 109	0.0000000229	0.0000000029	0.0000000031
PCB_111	PCB 111	0.0000000003	0.0000000003	0.0000000001
PCB_114	PCB 114	0.0000000001	0.0000000002	0.0000000002
PCB_118	PCB 118	0.0000001680	0.0000000523	0.0000000375
PCB_120	PCB 120	0.0000000049	0.0000000010	0.0000000008
PCB_121	PCB 121	0.0000000003	0.0000000001	0.0000000000
PCB_122	PCB 122	-.0000000001	0.0000000005	0.0000000004
PCB_123	PCB 123	0.0000000005	0.0000000011	0.0000000008
PCB_126	PCB 126	-.0000000004	-.0000000004	-.0000000002
PCB_127	PCB 127	-.0000000004	0.0000000001	0.0000000000
PCB_130	PCB 130	-.0000000308	0.0000000073	0.0000000040
PCB_131	PCB 131	-.0000000020	0.0000000002	0.0000000002
PCB_132	PCB 132	-.0000000848	0.0000000018	0.0000000015
PCB_133	PCB 133	-.0000000060	0.0000000023	0.0000000014
PCB_136	PCB 136	-.0000000287	-.0000000044	-.0000000039
PCB_137	PCB 137	0.0000000154	0.0000000014	0.0000000037
PCB_141	PCB 141	-.0000001157	0.0000000132	0.0000000064
PCB_142	PCB 142	-.0000000003	0.0000000001	0.0000000001
PCB_144	PCB 144	-.0000000318	0.0000000011	-.0000000006

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_64	0.0000013376	-.0000000106	0.0000000354	0.0000000164	0.0000000242
PCB_66	0.0000011598	0.0000000077	0.0000002353	0.0000000147	0.0000007547
PCB_67	0.0000002139	0.0000000002	0.0000000235	0.0000000025	0.0000000641
PCB_68	0.0000003130	0.0000000010	0.0000000477	0.0000000041	0.0000001357
PCB_72	0.0000005095	0.0000000013	0.0000000721	0.0000000065	0.0000001928
PCB_77	-.0000001035	0.0000000008	-.0000000028	-.0000000010	-.0000000100
PCB_78	-.0000000013	0.0000000001	0.0000000005	0.0000000001	0.0000000030
PCB_79	0.0000001019	-.0000000004	0.0000000014	-.0000000001	0.0000000067
PCB_81	-.0000000044	-.0000000000	-.0000000008	-.0000000001	-.0000000018
PCB_82	0.0000004017	-.0000000066	-.0000000347	0.0000000020	-.0000001025
PCB_83	0.0000000733	0.0000000004	0.0000000167	0.0000000004	0.0000000600
PCB_84	0.0000011567	-.0000000094	0.0000000156	0.0000000075	-.0000000741
PCB_89	-.0000000031	-.0000000001	-.0000000018	-.0000000002	-.0000000076
PCB_92	0.0000018344	0.0000000048	0.0000002637	0.0000000204	0.0000008242
PCB_94	0.0000000227	0.0000000002	0.0000000061	0.0000000001	0.0000000147
PCB_95	0.0000056450	-.0000000508	0.0000000825	0.0000000539	-.0000001503
PCB_96	0.0000000598	-.0000000004	0.0000000014	0.0000000003	-.0000000027
PCB_99	0.0000009956	0.0000000440	0.0000005735	0.0000000032	0.0000021264
PCB_103	0.0000002976	-.0000000014	0.0000000186	0.0000000030	0.0000000410
PCB_104	0.0000000046	0.0000000000	0.0000000007	0.0000000001	0.0000000021
PCB_105	-.0000008569	0.0000000123	0.0000000154	-.0000000084	0.0000005024
PCB_109	0.0000001410	0.0000000040	0.0000000579	0.0000000040	0.0000002607
PCB_111	0.0000000041	0.0000000003	0.0000000038	0.0000000000	0.0000000101
PCB_114	-.0000000447	0.0000000005	0.0000000004	-.0000000002	0.0000000343
PCB_118	-.0000000565	0.0000000596	0.0000005742	0.0000000116	0.0000029755
PCB_120	0.0000000426	0.0000000009	0.0000000139	0.0000000008	0.0000000428
PCB_121	0.0000000043	0.0000000001	0.0000000012	0.0000000001	0.0000000035
PCB_122	-.0000000399	0.0000000005	0.0000000002	-.0000000003	0.0000000130
PCB_123	-.0000000728	0.0000000012	0.0000000069	0.0000000002	0.0000000602
PCB_126	-.0000000053	-.0000000003	-.0000000034	0.0000000001	-.0000000036
PCB_127	-.0000000118	0.0000000001	-.0000000005	-.0000000001	0.0000000018
PCB_130	-.0000008324	0.0000000061	-.0000000232	-.0000000068	0.0000000309
PCB_131	-.0000000612	0.0000000001	-.0000000041	-.0000000005	-.0000000022
PCB_132	-.0000018070	0.0000000013	-.0000001660	-.0000000133	-.0000003217
PCB_133	-.0000001928	0.0000000020	0.0000000022	-.0000000011	0.0000000303
PCB_136	-.0000003218	-.0000000048	-.0000000765	-.0000000053	-.0000002382
PCB_137	-.0000001838	0.0000000030	-.0000000036	0.0000000028	0.0000001801
PCB_141	-.0000024617	0.0000000100	-.0000001862	-.0000000239	-.0000003766
PCB_142	-.0000000083	0.0000000001	0.0000000001	-.0000000001	0.0000000008
PCB_144	-.0000005235	0.0000000005	-.0000000481	-.0000000060	-.0000001124

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_64	0.0000000190	0.0000001351	-.0000002259	-.0000000132	-.0000000327
PCB_66	0.0000000402	0.0000000745	-.0000002913	0.0000000068	0.0000001914
PCB_67	0.0000000049	0.0000000167	-.0000000294	0.0000000002	0.0000000165
PCB_68	0.0000000088	0.0000000214	-.0000000598	0.0000000009	0.0000000338
PCB_72	0.0000000134	0.0000000348	-.0000000829	0.0000000013	0.0000000498
PCB_77	-.0000000014	-.0000000099	0.0000000295	0.0000000010	0.0000000011
PCB_78	0.0000000001	0.0000000002	0.0000000009	0.0000000001	0.0000000005
PCB_79	0.0000000006	0.0000000079	-.0000000203	-.0000000004	0.0000000020
PCB_81	-.0000000001	-.0000000003	0.0000000010	-.0000000000	-.0000000005
PCB_82	-.0000000002	0.0000000500	-.0000000985	-.0000000079	-.0000000416
PCB_83	0.0000000027	0.0000000046	-.0000000271	0.0000000002	0.0000000104
PCB_84	0.0000000098	0.0000000991	-.0000001651	-.0000000101	-.0000000292
PCB_89	-.0000000003	-.0000000003	0.0000000030	-.0000000001	-.0000000017
PCB_92	0.0000000494	0.0000001297	-.0000004371	0.0000000036	0.0000002035
PCB_94	0.0000000008	0.0000000003	-.0000000049	0.0000000002	0.0000000049
PCB_95	0.0000000631	0.0000005449	-.0000010435	-.0000000604	-.0000001691
PCB_96	0.0000000005	0.0000000046	-.0000000092	-.0000000004	-.0000000008
PCB_99	0.0000000716	-.0000000560	-.0000006322	0.0000000495	0.0000006614
PCB_103	0.0000000049	0.0000000250	-.0000000612	-.0000000018	0.0000000060
PCB_104	0.0000000001	0.0000000004	-.0000000010	-.0000000000	0.0000000005
PCB_105	0.0000000001	-.0000000609	-.0000002236	0.0000000105	0.0000001200
PCB_109	0.0000000104	0.0000000112	-.0000000989	0.0000000036	0.0000000667
PCB_111	0.0000000004	-.0000000010	-.0000000001	0.0000000004	0.0000000035
PCB_114	0.0000000003	-.0000000014	-.0000000211	0.0000000003	0.0000000068
PCB_118	0.0000000863	-.0000000535	-.0000010109	0.0000000578	0.0000007924
PCB_120	0.0000000021	0.0000000015	-.0000000038	0.0000000010	0.0000000125
PCB_121	0.0000000002	0.0000000002	-.0000000006	0.0000000001	0.0000000009
PCB_122	-.0000000001	-.0000000027	0.0000000006	0.0000000004	0.0000000038
PCB_123	0.0000000013	-.0000000023	-.0000000091	0.0000000008	0.0000000106
PCB_126	-.0000000002	0.0000000016	-.0000000053	-.0000000005	-.0000000031
PCB_127	-.0000000001	-.0000000009	-.0000000002	0.0000000001	0.0000000005
PCB_130	-.0000000087	-.0000000656	0.0000001308	0.0000000063	0.0000000162
PCB_131	-.0000000008	-.0000000033	0.0000000071	0.0000000000	-.0000000012
PCB_132	-.0000000301	-.0000001033	0.0000002954	-.0000000009	-.0000000968
PCB_133	-.0000000009	-.0000000159	0.0000000342	0.0000000021	0.0000000101
PCB_136	-.0000000124	-.0000000135	0.0000000493	-.0000000057	-.0000000709
PCB_137	0.0000000040	0.0000000136	-.0000000496	0.0000000010	0.0000000229
PCB_141	-.0000000427	-.0000001876	0.0000004928	0.0000000117	-.0000000718
PCB_142	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000005
PCB_144	-.0000000105	-.0000000397	0.0000000798	0.0000000005	-.0000000277

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
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The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_64	0.0000000314	0.0000017354	0.0000008145	-.0000000585	-.0000000120
PCB_66	0.0000002629	0.0000021306	0.0000007553	0.0000011193	0.0000000091
PCB_67	0.0000000335	0.0000003348	0.0000001374	0.0000001060	0.0000000003
PCB_68	0.0000000531	0.0000004845	0.0000001991	0.0000001971	0.0000000011
PCB_72	0.0000000873	0.0000007705	0.0000003270	0.0000003000	0.0000000015
PCB_77	0.0000000010	-.0000001376	-.0000000636	0.0000000088	0.0000000010
PCB_78	-.0000000007	-.0000000023	-.0000000028	0.0000000005	0.0000000001
PCB_79	0.0000000195	0.0000002207	0.0000000841	0.0000000482	-.0000000004
PCB_81	-.0000000004	-.0000000033	-.0000000022	-.0000000013	-.0000000000
PCB_82	-.0000000239	0.0000005858	0.0000002616	-.0000001775	-.0000000074
PCB_83	0.0000000286	0.0000002426	0.0000000678	0.0000001314	0.0000000008
PCB_84	0.0000001323	0.0000018505	0.0000008440	0.0000001820	-.0000000094
PCB_89	0.0000000012	0.0000000019	0.0000000013	-.0000000010	-.0000000001
PCB_92	0.0000002984	0.0000030188	0.0000011869	0.0000011531	0.0000000052
PCB_94	0.0000000110	0.0000000522	0.0000000203	0.0000000383	0.0000000003
PCB_95	0.0000002495	0.0000079085	0.0000036946	-.0000000745	-.0000000553
PCB_96	0.0000000078	0.0000000947	0.0000000445	0.0000000123	-.0000000004
PCB_99	0.0000006003	0.0000025221	0.0000007194	0.0000028440	0.0000000464
PCB_103	0.0000000270	0.0000004390	0.0000001964	0.0000000661	-.0000000016
PCB_104	0.0000000006	0.0000000070	0.0000000027	0.0000000026	0.0000000000
PCB_105	-.0000002479	-.0000013738	-.0000007688	-.0000002789	0.0000000088
PCB_109	-.0000000141	0.0000000774	0.0000000056	0.0000000911	0.0000000032
PCB_111	0.0000000059	0.0000000132	0.0000000052	0.0000000220	0.0000000003
PCB_114	-.0000000219	-.0000000859	-.0000000493	-.0000000341	0.0000000002
PCB_118	-.0000001363	-.0000003685	-.0000007352	0.0000013974	0.0000000515
PCB_120	0.0000000155	0.0000000754	0.0000000256	0.0000000644	0.0000000010
PCB_121	0.0000000014	0.0000000079	0.0000000029	0.0000000057	0.0000000001
PCB_122	-.0000000058	-.0000000553	-.0000000321	-.0000000027	0.0000000004
PCB_123	-.0000000169	-.0000000830	-.0000000708	0.0000000115	0.0000000011
PCB_126	-.0000000096	-.0000000161	-.0000000095	-.0000000265	-.0000000004
PCB_127	-.0000000023	-.0000000178	-.0000000089	-.0000000038	0.0000000001
PCB_130	-.0000000747	-.0000011545	-.0000005831	-.0000000714	0.0000000065
PCB_131	-.0000000096	-.0000000825	-.0000000452	-.0000000173	0.0000000002
PCB_132	-.0000003259	-.0000028243	-.0000013285	-.0000008492	0.0000000010
PCB_133	-.0000000129	-.0000002729	-.0000001405	0.0000000105	0.0000000022
PCB_136	-.0000000633	-.0000003809	-.0000001742	-.0000002565	-.0000000046
PCB_137	-.0000001417	-.0000004269	-.0000002851	-.0000002512	0.0000000012
PCB_141	-.0000002849	-.0000036464	-.0000016714	-.0000007341	0.0000000103
PCB_142	0.0000000002	-.0000000106	-.0000000051	0.0000000021	0.0000000001
PCB_144	-.0000000641	-.0000007323	-.0000003352	-.0000001732	0.0000000007

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PCA Run Using the Covariance Matrix
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The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_64	0.0000000050	0.0000005832	0.0000005473	0.0000002722	0.0000009828
PCB_66	0.0000000508	0.0000028176	0.0000044202	0.0000029766	0.0000029219
PCB_67	0.0000000093	0.0000002991	0.0000004290	0.0000002919	0.0000003363
PCB_68	0.0000000101	0.0000005639	0.0000008305	0.0000005831	0.0000006059
PCB_72	0.0000000176	0.0000008686	0.0000012596	0.0000008969	0.0000009424
PCB_77	-.0000000015	-.0000000375	-.0000000435	0.0000000022	-.0000000650
PCB_78	-.0000000004	-.0000000004	-.0000000036	0.0000000020	-.0000000018
PCB_79	0.0000000144	0.0000000882	0.0000001644	0.0000000356	0.0000001165
PCB_81	0.0000000003	-.0000000076	-.0000000103	-.0000000088	-.0000000081
PCB_82	0.0000000105	-.0000002384	-.0000003803	-.0000005096	-.0000000675
PCB_83	0.0000000113	0.0000002602	0.0000004492	0.0000002613	0.0000002752
PCB_84	0.0000000670	0.0000007434	0.0000010802	0.0000003914	0.0000011217
PCB_89	0.0000000012	-.0000000097	-.0000000126	-.0000000124	-.0000000078
PCB_92	0.0000000752	0.0000032055	0.0000049141	0.0000031549	0.0000034603
PCB_94	0.0000000024	0.0000000882	0.0000001468	0.0000000967	0.0000000909
PCB_95	0.0000001176	0.0000024990	0.0000029983	0.0000008143	0.0000043062
PCB_96	0.0000000037	0.0000000460	0.0000000693	0.0000000286	0.0000000646
PCB_99	0.0000001729	0.0000061969	0.0000105251	0.0000067207	0.0000056323
PCB_103	0.0000000087	0.0000002794	0.0000004005	0.0000002208	0.0000003552
PCB_104	0.0000000000	0.0000000078	0.0000000114	0.0000000081	0.0000000085
PCB_105	-.0000000604	-.0000008190	-.0000009228	-.0000009164	-.0000012685
PCB_109	-.0000000181	0.0000003668	0.0000005287	0.0000004081	0.0000002996
PCB_111	0.0000000015	0.0000000466	0.0000000748	0.0000000553	0.0000000433
PCB_114	-.0000000069	-.0000000710	-.0000000918	-.0000000833	-.0000000956
PCB_118	-.0000000840	0.0000034718	0.0000059184	0.0000038408	0.0000022282
PCB_120	0.0000000027	0.0000001492	0.0000002220	0.0000001738	0.0000001439
PCB_121	0.0000000003	0.0000000134	0.0000000201	0.0000000151	0.0000000133
PCB_122	-.0000000023	-.0000000238	-.0000000249	-.0000000166	-.0000000396
PCB_123	-.0000000086	-.0000000034	0.0000000090	0.0000000237	-.0000000379
PCB_126	-.0000000030	-.0000000511	-.0000000800	-.0000000619	-.0000000488
PCB_127	-.0000000005	-.0000000130	-.0000000168	-.0000000131	-.0000000172
PCB_130	-.0000000340	-.0000005364	-.0000006946	-.0000003208	-.0000007817
PCB_131	-.0000000041	-.0000000641	-.0000000863	-.0000000547	-.0000000774
PCB_132	-.0000001291	-.0000024693	-.0000036867	-.0000022254	-.0000028251
PCB_133	-.0000000096	-.0000000599	-.0000000747	0.0000000174	-.0000001262
PCB_136	-.0000000115	-.0000007206	-.0000009941	-.0000008048	-.0000006901
PCB_137	-.0000000485	-.0000005532	-.0000009491	-.0000005789	-.0000006687
PCB_141	-.0000000832	-.0000027479	-.0000040145	-.0000023705	-.0000033491
PCB_142	0.0000000001	-.0000000005	-.0000000001	0.0000000028	-.0000000037
PCB_144	-.0000000172	-.0000006081	-.0000008334	-.0000005659	-.0000007093

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_64	-.0000000016	-.0000000132	-.0000000357	0.0000000005	-.0000000030
PCB_66	0.0000000704	0.0000000068	0.0000001568	0.0000000282	0.0000000157
PCB_67	0.0000000066	0.0000000002	0.0000000142	0.0000000027	0.0000000015
PCB_68	0.0000000127	0.0000000009	0.0000000266	0.0000000050	0.0000000025
PCB_72	0.0000000189	0.0000000013	0.0000000416	0.0000000075	0.0000000036
PCB_77	-.0000000001	0.0000000010	0.0000000070	0.0000000002	0.0000000002
PCB_78	0.0000000001	0.0000000001	0.0000000006	0.0000000000	0.0000000001
PCB_79	0.0000000025	-.0000000004	-.0000000025	0.0000000011	0.0000000008
PCB_81	-.0000000001	-.0000000000	-.0000000005	-.0000000000	0.0000000000
PCB_82	-.0000000099	-.0000000079	-.0000000495	-.0000000038	-.0000000026
PCB_83	0.0000000067	0.0000000002	0.0000000087	0.0000000034	0.0000000018
PCB_84	0.0000000068	-.0000000101	-.0000000231	0.0000000050	0.0000000001
PCB_89	-.0000000003	-.0000000001	-.0000000008	-.0000000000	-.0000000000
PCB_92	0.0000000761	0.0000000036	0.0000001347	0.0000000287	0.0000000156
PCB_94	0.0000000021	0.0000000002	0.0000000055	0.0000000009	0.0000000004
PCB_95	-.0000000024	-.0000000604	-.0000001912	0.0000000042	-.0000000120
PCB_96	0.0000000006	-.0000000004	-.0000000009	0.0000000003	0.0000000000
PCB_99	0.0000001973	0.0000000495	0.0000004022	0.0000000625	0.0000000462
PCB_103	0.0000000044	-.0000000018	0.0000000009	0.0000000018	0.0000000004
PCB_104	0.0000000002	-.0000000000	0.0000000004	0.0000000001	0.0000000000
PCB_105	0.0000000068	0.0000000105	-.0000000425	-.0000000090	0.0000000041
PCB_109	0.0000000130	0.0000000036	0.0000000272	0.0000000020	0.0000000028
PCB_111	0.0000000013	0.0000000004	0.0000000032	0.0000000005	0.0000000003
PCB_114	-.0000000002	0.0000000003	-.0000000041	-.0000000009	0.0000000001
PCB_118	0.0000001634	0.0000000578	0.0000002550	0.0000000268	0.0000000419
PCB_120	0.0000000040	0.0000000010	0.0000000113	0.0000000016	0.0000000010
PCB_121	0.0000000003	0.0000000001	0.0000000008	0.0000000001	0.0000000001
PCB_122	0.0000000003	0.0000000004	0.0000000018	-.0000000001	0.0000000002
PCB_123	0.0000000018	0.0000000008	0.0000000053	0.0000000005	0.0000000009
PCB_126	-.0000000013	-.0000000005	-.0000000040	-.0000000006	-.0000000003
PCB_127	-.0000000001	0.0000000001	-.0000000005	-.0000000001	0.0000000000
PCB_130	-.0000000036	0.0000000063	0.0000000240	-.0000000018	0.0000000014
PCB_131	-.0000000010	0.0000000000	0.0000000003	-.0000000003	-.0000000000
PCB_132	-.0000000501	-.0000000009	-.0000000436	-.0000000190	-.0000000079
PCB_133	0.0000000009	0.0000000021	0.0000000127	0.0000000003	0.0000000007
PCB_136	-.0000000192	-.0000000057	-.0000000440	-.0000000056	-.0000000041
PCB_137	-.0000000063	0.0000000010	-.0000000180	-.0000000055	0.0000000006
PCB_141	-.0000000462	0.0000000117	-.0000000339	-.0000000189	-.0000000047
PCB_142	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000000
PCB_144	-.0000000115	0.0000000005	-.0000000186	-.0000000043	-.0000000018

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_64	0.0000014512	-.0000001816	0.0000001032	-.0000000002	0.0000200516
PCB_66	0.0000010257	0.0000002251	0.0000001527	-.0000000091	0.0000258653
PCB_67	0.0000001915	0.0000000138	0.0000000250	0.0000000110	0.0000039213
PCB_68	0.0000002891	0.0000000304	0.0000000391	0.0000000024	0.0000060928
PCB_72	0.0000004768	0.0000000472	0.0000000662	0.0000000128	0.0000097003
PCB_77	-.0000000847	0.0000000173	-.0000000049	0.0000000059	-.0000014442
PCB_78	-.0000000008	-.0000000002	-.0000000008	-.0000000001	0.0000000000
PCB_79	0.0000000597	0.0000000059	0.0000000122	0.0000000090	0.0000018434
PCB_81	-.0000000042	-.0000000001	-.0000000005	0.0000000001	-.0000000627
PCB_82	0.0000003476	-.0000001098	0.0000000091	0.0000000014	0.0000045680
PCB_83	0.0000001064	0.0000000257	0.0000000161	-.0000000069	0.0000026228
PCB_84	0.0000011809	-.0000000497	0.0000001426	0.0000000656	0.0000187650
PCB_89	0.0000000009	0.0000000006	0.0000000010	0.0000000018	-.0000000308
PCB_92	0.0000014976	0.0000001672	0.0000002030	-.0000000051	0.0000352133
PCB_94	0.0000000257	0.0000000113	0.0000000065	0.0000000016	0.0000006242
PCB_95	0.0000058635	-.0000006658	0.0000004915	0.0000000559	0.0000844166
PCB_96	0.0000000581	-.0000000011	0.0000000079	0.0000000034	0.0000009640
PCB_99	-.0000009345	0.0000008726	0.0000001629	-.0000000425	0.0000280670
PCB_103	0.0000002867	-.0000000117	0.0000000300	0.0000000009	0.0000049003
PCB_104	0.0000000047	0.0000000002	0.0000000005	-.0000000001	0.0000000894
PCB_105	-.0000018418	-.0000000696	-.0000002661	-.0000002011	-.0000180829
PCB_109	-.0000001055	0.0000000044	-.0000000255	-.0000000385	0.0000016417
PCB_111	0.0000000019	0.0000000076	0.0000000030	0.0000000009	0.0000002136
PCB_114	-.0000001080	-.0000000126	-.0000000202	-.0000000163	-.0000011385
PCB_118	-.0000034324	0.0000003232	-.0000004148	-.0000004780	-.0000029072
PCB_120	0.0000000316	0.0000000176	0.0000000077	0.0000000033	0.0000010880
PCB_121	0.0000000039	0.0000000014	0.0000000008	0.0000000001	0.0000001086
PCB_122	-.0000000584	0.0000000021	-.0000000080	-.0000000030	-.0000006770
PCB_123	-.0000000829	-.0000000002	-.0000000198	-.0000000180	-.0000007938
PCB_126	-.0000000046	-.0000000110	-.0000000056	-.0000000050	-.0000002419
PCB_127	-.0000000183	-.0000000004	-.0000000024	-.0000000012	-.0000002254
PCB_130	-.0000008307	0.0000000554	-.0000000992	-.0000000238	-.0000127131
PCB_131	-.0000000535	-.0000000014	-.0000000096	-.0000000034	-.0000009772
PCB_132	-.0000015154	-.0000001272	-.0000002697	-.0000000771	-.0000318985
PCB_133	-.0000001845	0.0000000215	-.0000000213	-.0000000055	-.0000027077
PCB_136	-.0000001346	-.0000000598	-.0000000360	-.0000000098	-.0000057576
PCB_137	-.0000004037	-.0000001085	-.0000001177	-.0000000694	-.0000047842
PCB_141	-.0000024134	0.0000000187	-.0000002895	-.0000000165	-.0000417447
PCB_142	-.0000000087	0.0000000017	-.0000000004	0.0000000003	-.0000001058
PCB_144	-.0000004708	-.0000000066	-.0000000589	-.0000000170	-.0000087758

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_64	0.0000001448	-.0000000103	0.0000002919	0.0000001004	0.0000000603
PCB_66	0.0000001301	-.0000000751	-.0000004737	0.0000008112	0.0000002714
PCB_67	0.0000000237	-.0000000048	-.0000000147	0.0000000845	0.0000000301
PCB_68	0.0000000357	-.0000000093	-.0000000709	0.0000001550	0.0000000528
PCB_72	0.0000000583	-.0000000111	-.0000000875	0.0000002351	0.0000000807
PCB_77	-.0000000118	0.0000000020	0.0000000031	-.0000000080	-.0000000033
PCB_78	-.0000000004	-.0000000001	0.0000000001	0.0000000013	0.0000000006
PCB_79	0.0000000124	-.0000000050	-.0000000041	0.0000000269	0.0000000093
PCB_81	-.0000000005	-.0000000000	0.0000000013	-.0000000018	-.0000000005
PCB_82	0.0000000425	-.0000000101	0.0000001500	-.0000000787	-.0000000180
PCB_83	0.0000000090	-.0000000121	-.0000000243	0.0000000725	0.0000000265
PCB_84	0.0000001353	-.0000000162	0.0000002548	0.0000001321	0.0000000615
PCB_89	-.0000000002	0.0000000003	0.0000000074	-.0000000038	-.0000000011
PCB_92	0.0000002090	-.0000000783	-.0000005292	0.0000009088	0.0000003032
PCB_94	0.0000000030	-.0000000019	-.0000000111	0.0000000221	0.0000000071
PCB_95	0.0000006311	-.0000000750	0.0000011655	0.0000003728	0.0000002185
PCB_96	0.0000000072	-.0000000007	0.0000000088	0.0000000084	0.0000000034
PCB_99	0.0000001410	-.0000001576	-.0000026538	0.0000019958	0.0000005527
PCB_103	0.0000000341	-.0000000064	0.0000000050	0.0000000653	0.0000000246
PCB_104	0.0000000005	-.0000000002	-.0000000008	0.0000000022	0.0000000008
PCB_105	-.0000001065	-.0000000423	-.0000009794	0.0000000042	-.0000000483
PCB_109	0.0000000117	-.0000000121	-.0000002844	0.0000001540	0.0000000412
PCB_111	0.0000000009	-.0000000002	-.0000000114	0.0000000127	0.0000000038
PCB_114	-.0000000064	-.0000000037	-.0000000598	-.0000000041	-.0000000041
PCB_118	-.0000000291	-.0000001769	-.0000039008	0.0000016920	0.0000004025
PCB_120	0.0000000048	-.0000000017	-.0000000290	0.0000000456	0.0000000149
PCB_121	0.0000000005	-.0000000002	-.0000000023	0.0000000039	0.0000000013
PCB_122	-.0000000052	-.0000000014	-.0000000203	0.0000000008	-.0000000007
PCB_123	-.0000000110	-.0000000070	-.0000000465	0.0000000193	0.0000000065
PCB_126	-.0000000013	-.0000000009	0.0000000057	-.0000000125	-.0000000037
PCB_127	-.0000000014	-.0000000001	-.0000000061	-.0000000018	-.0000000010
PCB_130	-.0000001002	-.0000000011	-.0000001130	-.0000000846	-.0000000361
PCB_131	-.0000000080	-.0000000013	0.0000000025	-.0000000129	-.0000000041
PCB_132	-.0000002278	0.0000000138	0.0000002463	-.0000005979	-.0000001951
PCB_133	-.0000000236	-.0000000001	-.0000000382	0.0000000006	-.0000000015
PCB_136	-.0000000379	-.0000000019	0.0000002252	-.0000002263	-.0000000679
PCB_137	-.0000000372	-.0000000128	-.0000001474	-.0000000420	-.0000000145
PCB_141	-.0000002896	0.0000000466	0.0000000438	-.0000006285	-.0000002265
PCB_142	-.0000000009	0.0000000002	-.0000000021	0.0000000005	0.0000000000
PCB_144	-.0000000599	0.0000000045	0.0000000277	-.0000001575	-.0000000555

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_64	-.0000001230	-.0000000056	0.0000019844	-.0000001855	0.0000001297
PCB_66	-.0000004693	0.0000006258	-.0000001855	0.0000095755	0.0000007501
PCB_67	-.0000000432	0.0000000527	0.0000001297	0.0000007501	0.0000000851
PCB_68	-.0000000933	0.0000001089	0.0000001102	0.0000016072	0.0000001456
PCB_72	-.0000001329	0.0000001572	0.0000002435	0.0000022626	0.0000002239
PCB_77	0.0000000256	-.0000000052	-.0000000846	-.0000001261	-.0000000097
PCB_78	0.0000000005	0.0000000008	-.0000000016	0.0000000096	0.0000000011
PCB_79	-.0000000188	0.0000000197	0.0000000223	0.0000003426	0.0000000356
PCB_81	0.0000000017	-.0000000011	-.0000000026	-.0000000150	-.0000000013
PCB_82	-.0000000189	-.0000000760	0.0000006359	-.0000009234	-.0000000454
PCB_83	-.0000000277	0.0000000652	-.0000000053	0.0000010325	0.0000000705
PCB_84	-.0000000768	0.0000000314	0.0000015284	0.0000003930	0.0000001897
PCB_89	0.0000000053	-.0000000035	0.0000000123	-.0000000593	-.0000000024
PCB_92	-.0000006305	0.0000006760	0.0000002139	0.0000104711	0.0000008627
PCB_94	-.0000000095	0.0000000171	-.0000000060	0.0000002530	0.0000000205
PCB_95	-.0000005631	-.0000000152	0.0000078880	0.0000000038	0.0000005521
PCB_96	-.0000000062	0.0000000031	0.0000000690	0.0000000449	0.0000000111
PCB_99	-.0000015581	0.0000017419	-.0000063100	0.0000279467	0.0000017825
PCB_103	-.0000000574	0.0000000390	0.0000002770	0.0000006098	0.0000000682
PCB_104	-.0000000014	0.0000000016	0.0000000024	0.0000000236	0.0000000020
PCB_105	-.0000004476	0.0000001939	-.0000034104	0.0000046329	-.0000000740
PCB_109	-.0000001939	0.0000001372	-.0000005858	0.0000023229	0.0000001198
PCB_111	-.0000000053	0.0000000100	-.0000000237	0.0000001438	0.0000000114
PCB_114	-.0000000324	0.0000000094	-.0000001979	0.0000002704	-.0000000099
PCB_118	-.0000022155	0.0000017374	-.0000103506	0.0000302914	0.0000013281
PCB_120	-.0000000195	0.0000000330	-.0000000383	0.0000004694	0.0000000419
PCB_121	-.0000000017	0.0000000029	-.0000000019	0.0000000412	0.0000000036
PCB_122	-.0000000049	0.0000000050	-.0000000944	0.0000001059	-.0000000015
PCB_123	-.0000000182	0.0000000285	-.0000001804	0.0000005135	0.0000000103
PCB_126	0.0000000003	-.0000000077	0.0000000118	-.0000000868	-.0000000124
PCB_127	-.0000000015	0.0000000001	-.0000000275	0.0000000122	-.0000000023
PCB_130	0.0000000948	-.0000000161	-.0000010336	-.0000001608	-.0000001111
PCB_131	0.0000000103	-.0000000059	-.0000000495	-.0000000694	-.0000000143
PCB_132	0.0000004200	-.0000003854	-.0000008930	-.0000056338	-.0000006199
PCB_133	0.0000000176	0.0000000106	-.0000002588	0.0000001466	-.0000000094
PCB_136	0.0000001598	-.0000001590	0.0000002871	-.0000022948	-.0000002052
PCB_137	-.0000000774	0.0000000026	-.0000006047	0.0000004345	-.0000000615
PCB_141	0.0000005049	-.0000003898	-.0000021654	-.0000059129	-.0000006373
PCB_142	0.0000000010	0.0000000007	-.0000000132	0.0000000072	0.0000000002
PCB_144	0.0000001059	-.0000000909	-.0000003867	-.0000012787	-.0000001585

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_64	0.0000001102	0.0000002435	-.0000000846	-.0000000016	0.0000000223
PCB_66	0.0000016072	0.0000022626	-.0000001261	0.0000000096	0.0000003426
PCB_67	0.0000001456	0.0000002239	-.0000000097	0.0000000011	0.0000000356
PCB_68	0.0000002979	0.0000004378	-.0000000233	0.0000000015	0.0000000473
PCB_72	0.0000004378	0.0000006595	-.0000000279	0.0000000022	0.0000000645
PCB_77	-.0000000233	-.0000000279	0.0000000176	0.0000000005	-.0000000135
PCB_78	0.0000000015	0.0000000022	0.0000000005	0.0000000002	-.0000000002
PCB_79	0.0000000473	0.0000000645	-.0000000135	-.0000000002	0.0000000529
PCB_81	-.0000000036	-.0000000055	0.0000000003	0.0000000000	0.0000000008
PCB_82	-.0000001731	-.0000002605	-.0000000572	-.0000000030	0.0000000754
PCB_83	0.0000001519	0.0000002022	-.0000000133	0.0000000010	0.0000000540
PCB_84	0.0000001537	0.0000003130	-.0000000562	-.0000000045	0.0000001637
PCB_89	-.0000000097	-.0000000119	0.0000000019	-.0000000001	0.0000000004
PCB_92	0.0000018071	0.0000025558	-.0000002111	0.0000000070	0.0000004359
PCB_94	0.0000000433	0.0000000631	-.0000000006	0.0000000000	0.0000000080
PCB_95	0.0000004320	0.0000008943	-.0000004284	-.0000000201	0.0000004091
PCB_96	0.0000000125	0.0000000224	-.0000000034	-.0000000003	0.0000000087
PCB_99	0.0000043792	0.0000058270	-.0000004518	0.0000000151	0.0000011417
PCB_103	0.0000001224	0.0000001835	-.0000000270	-.0000000005	0.0000000361
PCB_104	0.0000000042	0.0000000061	-.0000000004	0.0000000000	0.0000000006
PCB_105	0.0000004037	0.0000001337	-.0000002754	0.0000000034	0.0000002696
PCB_109	0.0000003663	0.0000004570	-.0000000726	0.0000000029	0.0000000573
PCB_111	0.0000000258	0.0000000380	0.0000000004	0.0000000001	0.0000000028
PCB_114	0.0000000190	-.0000000051	-.0000000214	0.0000000002	0.0000000157
PCB_118	0.0000043525	0.0000051285	-.0000009066	0.0000000305	0.0000011471
PCB_120	0.0000000852	0.0000001262	-.0000000002	0.0000000009	0.0000000112
PCB_121	0.0000000075	0.0000000110	-.0000000002	0.0000000001	0.0000000010
PCB_122	0.0000000068	0.0000000000	-.0000000025	0.0000000004	0.0000000055
PCB_123	0.0000000556	0.0000000497	-.0000000109	0.0000000018	0.0000000147
PCB_126	-.0000000206	-.0000000360	-.0000000043	-.0000000000	-.0000000011
PCB_127	-.0000000010	-.0000000045	-.0000000013	0.0000000000	0.0000000013
PCB_130	-.0000001318	-.0000002574	0.0000000509	0.0000000046	-.0000000462
PCB_131	-.0000000237	-.0000000417	0.0000000027	0.0000000004	-.0000000028
PCB_132	-.0000011512	-.0000017679	0.0000001320	0.0000000051	-.0000002929
PCB_133	0.0000000063	-.0000000029	0.0000000158	0.0000000017	-.0000000166
PCB_136	-.0000004475	-.0000006605	0.0000000281	-.0000000030	-.0000000428
PCB_137	-.0000000285	-.0000001583	-.0000000687	0.0000000067	0.0000000342
PCB_141	-.0000012039	-.0000018208	0.0000002043	0.0000000058	-.0000002698
PCB_142	0.0000000010	0.0000000015	0.0000000010	0.0000000001	-.0000000004
PCB_144	-.0000002792	-.0000004389	0.0000000301	-.0000000006	-.0000000492

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_64	-.0000000026	0.0000006359	-.0000000053	0.0000015284	0.0000000123
PCB_66	-.0000000150	-.0000009234	0.0000010325	0.0000003930	-.0000000593
PCB_67	-.0000000013	-.0000000454	0.0000000705	0.0000001897	-.0000000024
PCB_68	-.0000000036	-.0000001731	0.0000001519	0.0000001537	-.0000000097
PCB_72	-.0000000055	-.0000002605	0.0000002022	0.0000003130	-.0000000119
PCB_77	0.0000000003	-.0000000572	-.0000000133	-.0000000562	0.0000000019
PCB_78	0.0000000000	-.0000000030	0.0000000010	-.0000000045	-.0000000001
PCB_79	0.0000000008	0.0000000754	0.0000000540	0.0000001637	0.0000000004
PCB_81	0.0000000001	0.0000000043	-.0000000001	0.0000000016	0.0000000002
PCB_82	0.0000000043	0.0000006459	-.0000000400	0.0000006419	0.0000000101
PCB_83	-.0000000001	-.0000000400	0.0000001609	0.0000001249	-.0000000033
PCB_84	0.0000000016	0.0000006419	0.0000001249	0.0000018760	0.0000000239
PCB_89	0.0000000002	0.0000000101	-.0000000033	0.0000000239	0.0000000011
PCB_92	-.0000000177	-.0000007206	0.0000010640	0.0000007796	-.0000000695
PCB_94	-.0000000004	-.0000000335	0.0000000288	0.0000000246	-.0000000010
PCB_95	-.0000000025	0.0000033319	0.0000002299	0.0000071976	0.0000000617
PCB_96	-.0000000000	0.0000000262	0.0000000072	0.0000000891	0.0000000009
PCB_99	-.0000000431	-.0000036076	0.0000025173	-.0000036793	-.0000002613
PCB_103	-.0000000013	0.0000000595	0.0000000672	0.0000002814	-.0000000022
PCB_104	-.0000000000	-.0000000019	0.0000000025	0.0000000022	-.0000000002
PCB_105	-.0000000023	-.0000002371	0.0000003370	-.0000035316	-.0000001139
PCB_109	-.0000000057	-.0000002980	0.0000001407	-.0000007287	-.0000000359
PCB_111	-.0000000003	-.0000000330	0.0000000128	-.0000000085	-.0000000009
PCB_114	-.0000000001	0.0000000078	0.0000000193	-.0000002345	-.0000000079
PCB_118	-.0000000501	-.0000035805	0.0000022835	-.0000100688	-.0000004455
PCB_120	-.0000000010	-.0000000875	0.0000000404	-.0000000084	-.0000000029
PCB_121	-.0000000001	-.0000000070	0.0000000039	0.0000000006	-.0000000002
PCB_122	0.0000000001	-.0000000133	0.0000000094	-.0000000882	-.0000000022
PCB_123	-.0000000000	-.0000000465	0.0000000678	-.0000002076	-.0000000070
PCB_126	0.0000000003	0.0000000377	-.0000000045	-.0000000167	-.0000000003
PCB_127	0.0000000000	-.0000000009	0.0000000004	-.0000000276	-.0000000006
PCB_130	0.0000000025	-.0000002842	-.0000000025	-.0000010105	-.0000000082
PCB_131	0.0000000005	0.0000000102	0.0000000009	-.0000000559	-.0000000000
PCB_132	0.0000000134	0.0000003755	-.0000004827	-.0000015445	0.0000000220
PCB_133	-.0000000001	-.0000001324	0.0000000117	-.0000002680	-.0000000033
PCB_136	0.0000000072	0.0000004812	-.0000001117	0.0000002758	0.0000000235
PCB_137	0.0000000016	0.0000001243	0.0000000117	-.0000009625	-.0000000271
PCB_141	0.0000000152	-.0000001212	-.0000006099	-.0000022676	0.0000000226
PCB_142	-.0000000000	-.0000000080	0.0000000002	-.0000000100	-.0000000001
PCB_144	0.0000000039	0.0000000731	-.0000000918	-.0000004022	0.0000000056

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_64	0.0000002139	-.0000000060	0.0000078880	0.0000000690	-.0000063100
PCB_66	0.0000104711	0.0000002530	0.0000000038	0.0000000449	0.0000279467
PCB_67	0.0000008627	0.0000000205	0.0000005521	0.0000000111	0.0000017825
PCB_68	0.0000018071	0.0000000433	0.0000004320	0.0000000125	0.0000043792
PCB_72	0.0000025558	0.0000000631	0.0000008943	0.0000000224	0.0000058270
PCB_77	-.0000002111	-.0000000006	-.0000004284	-.0000000034	-.0000004518
PCB_78	0.0000000070	0.0000000000	-.0000000201	-.0000000003	0.0000000151
PCB_79	0.0000004359	0.0000000080	0.0000004091	0.0000000087	0.0000011417
PCB_81	-.0000000177	-.0000000004	-.0000000025	-.0000000000	-.0000000431
PCB_82	-.0000007206	-.0000000335	0.0000033319	0.0000000262	-.0000036076
PCB_83	0.0000010640	0.0000000288	0.0000002299	0.0000000072	0.0000025173
PCB_84	0.0000007796	0.0000000246	0.0000071976	0.0000000891	-.0000036793
PCB_89	-.0000000695	-.0000000010	0.0000000617	0.0000000009	-.0000002613
PCB_92	0.0000119524	0.0000002647	0.0000020612	0.0000000706	0.0000317100
PCB_94	0.0000002647	0.0000000081	0.0000000057	0.0000000020	0.0000006630
PCB_95	0.0000020612	0.0000000057	0.0000345348	0.0000003352	-.0000211763
PCB_96	0.0000000706	0.0000000020	0.0000003352	0.0000000045	-.0000000583
PCB_99	0.0000317100	0.0000006630	-.0000211763	-.0000000583	0.0001124382
PCB_103	0.0000007693	0.0000000160	0.0000012686	0.0000000154	0.0000011606
PCB_104	0.0000000261	0.0000000006	0.0000000094	0.0000000002	0.0000000591
PCB_105	0.0000059457	0.0000000148	-.0000119733	-.0000001435	0.0000335785
PCB_109	0.0000027957	0.0000000381	-.0000023770	-.0000000242	0.0000108524
PCB_111	0.0000001526	0.0000000044	-.0000001006	0.0000000002	0.0000004709
PCB_114	0.0000003606	-.0000000009	-.0000006826	-.0000000098	0.0000020719
PCB_118	0.0000360073	0.0000005032	-.0000380681	-.0000003446	0.0001488694
PCB_120	0.0000005049	0.0000000129	-.0000002000	0.0000000011	0.0000014282
PCB_121	0.0000000444	0.0000000012	-.0000000102	0.0000000002	0.0000001194
PCB_122	0.0000001151	0.0000000007	-.0000003520	-.0000000039	0.0000007150
PCB_123	0.0000005220	0.0000000077	-.0000007127	-.0000000098	0.0000020701
PCB_126	-.0000000867	-.0000000040	0.0000000666	-.0000000014	-.0000002186
PCB_127	0.0000000176	-.0000000004	-.0000000995	-.0000000012	0.0000001807
PCB_130	-.0000005297	-.0000000115	-.0000044338	-.0000000516	0.0000019729
PCB_131	-.0000001085	-.0000000027	-.0000001953	-.0000000035	-.0000001538
PCB_132	-.0000069323	-.0000001642	-.0000045779	-.0000001030	-.0000160686
PCB_133	0.0000000525	0.0000000028	-.0000012127	-.0000000131	0.0000009177
PCB_136	-.0000027140	-.0000000538	0.0000015237	0.0000000015	-.0000088971
PCB_137	0.0000006670	-.0000000311	-.0000025271	-.0000000480	0.0000053346
PCB_141	-.0000072357	-.0000001693	-.0000097441	-.0000001309	-.0000120686
PCB_142	0.0000000040	0.0000000003	-.0000000601	-.0000000004	0.0000000502
PCB_144	-.0000015748	-.0000000349	-.0000015245	-.0000000244	-.0000029761

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_64	0.0000002770	0.0000000024	-.0000034104	-.0000005858	-.0000000237
PCB_66	0.0000006098	0.0000000236	0.0000046329	0.0000023229	0.0000001438
PCB_67	0.0000000682	0.0000000020	-.0000000740	0.0000001198	0.0000000114
PCB_68	0.0000001224	0.0000000042	0.0000004037	0.0000003663	0.0000000258
PCB_72	0.0000001835	0.0000000061	0.0000001337	0.0000004570	0.0000000380
PCB_77	-.0000000270	-.0000000004	-.0000002754	-.0000000726	0.0000000004
PCB_78	-.0000000005	0.0000000000	0.0000000034	0.0000000029	0.0000000001
PCB_79	0.0000000361	0.0000000006	0.0000002696	0.0000000573	0.0000000028
PCB_81	-.0000000013	-.0000000000	-.0000000023	-.0000000057	-.0000000003
PCB_82	0.0000000595	-.0000000019	-.0000002371	-.0000002980	-.0000000330
PCB_83	0.0000000672	0.0000000025	0.0000003370	0.0000001407	0.0000000128
PCB_84	0.0000002814	0.0000000022	-.0000035316	-.0000007287	-.0000000085
PCB_89	-.0000000022	-.0000000002	-.0000001139	-.0000000359	-.0000000009
PCB_92	0.0000007693	0.0000000261	0.0000059457	0.0000027957	0.0000001526
PCB_94	0.0000000160	0.0000000006	0.0000000148	0.0000000381	0.0000000044
PCB_95	0.0000012686	0.0000000094	-.0000119733	-.0000023770	-.0000001006
PCB_96	0.0000000154	0.0000000002	-.0000001435	-.0000000242	0.0000000002
PCB_99	0.0000011606	0.0000000591	0.0000335785	0.0000108524	0.0000004709
PCB_103	0.0000000882	0.0000000018	-.0000000675	0.0000000857	0.0000000061
PCB_104	0.0000000018	0.0000000001	0.0000000065	0.0000000052	0.0000000003
PCB_105	-.0000000675	0.0000000065	0.0000201803	0.0000045164	0.0000000483
PCB_109	0.0000000857	0.0000000052	0.0000045164	0.0000013523	0.0000000349
PCB_111	0.0000000061	0.0000000003	0.0000000483	0.0000000349	0.0000000031
PCB_114	-.0000000031	0.0000000004	0.0000013810	0.0000003025	0.0000000014
PCB_118	0.0000008257	0.0000000612	0.0000639621	0.0000175592	0.0000004550
PCB_120	0.0000000232	0.0000000011	0.0000001486	0.0000001165	0.0000000088
PCB_121	0.0000000023	0.0000000001	0.0000000107	0.0000000093	0.0000000008
PCB_122	-.0000000061	0.0000000001	0.0000004154	0.0000000911	0.0000000011
PCB_123	0.0000000033	0.0000000011	0.0000010460	0.0000002529	0.0000000047
PCB_126	-.0000000036	-.0000000002	0.0000001260	0.0000000033	-.0000000030
PCB_127	-.0000000025	-.0000000000	0.0000001324	0.0000000262	0.0000000001
PCB_130	-.0000001880	-.0000000016	0.0000020063	0.0000002968	0.0000000007
PCB_131	-.0000000145	-.0000000002	0.0000001150	-.0000000042	-.0000000022
PCB_132	-.0000005838	-.0000000144	-.0000002710	-.0000010947	-.0000001022
PCB_133	-.0000000389	0.0000000001	0.0000004346	0.0000001088	0.0000000044
PCB_136	-.0000001163	-.0000000055	-.0000019305	-.0000009274	-.0000000474
PCB_137	-.0000000622	0.0000000005	0.0000049416	0.0000010297	-.0000000103
PCB_141	-.0000007691	-.0000000174	0.0000010543	-.0000008245	-.0000000776
PCB_142	-.0000000017	0.0000000000	0.0000000100	0.0000000036	0.0000000004
PCB_144	-.0000001468	-.0000000037	0.0000002692	-.0000002347	-.0000000209

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_64	-.0000001979	-.0000103506	-.0000000383	-.0000000019	-.0000000944
PCB_66	0.0000002704	0.0000302914	0.0000004694	0.0000000412	0.0000001059
PCB_67	-.0000000099	0.0000013281	0.0000000419	0.0000000036	-.0000000015
PCB_68	0.0000000190	0.0000043525	0.0000000852	0.0000000075	0.0000000068
PCB_72	-.0000000051	0.0000051285	0.0000001262	0.0000000110	0.0000000000
PCB_77	-.0000000214	-.0000009066	-.0000000002	-.0000000002	-.0000000025
PCB_78	0.0000000002	0.0000000305	0.0000000009	0.0000000001	0.0000000004
PCB_79	0.0000000157	0.0000011471	0.0000000112	0.0000000010	0.0000000055
PCB_81	-.0000000001	-.0000000501	-.0000000010	-.0000000001	0.0000000001
PCB_82	0.0000000078	-.0000035805	-.0000000875	-.0000000070	-.0000000133
PCB_83	0.0000000193	0.0000022835	0.0000000404	0.0000000039	0.0000000094
PCB_84	-.0000002345	-.0000100688	-.0000000084	0.0000000006	-.0000000882
PCB_89	-.0000000079	-.0000004455	-.0000000029	-.0000000002	-.0000000022
PCB_92	0.0000003606	0.0000360073	0.0000005049	0.0000000444	0.0000001151
PCB_94	-.0000000009	0.0000005032	0.0000000129	0.0000000012	0.0000000007
PCB_95	-.0000006826	-.0000380681	-.0000002000	-.0000000102	-.0000003520
PCB_96	-.0000000098	-.0000003446	0.0000000011	0.0000000002	-.0000000039
PCB_99	0.0000020719	0.0001488694	0.0000014282	0.0000001194	0.0000007150
PCB_103	-.0000000031	0.0000008257	0.0000000232	0.0000000023	-.0000000061
PCB_104	0.0000000004	0.0000000612	0.0000000011	0.0000000001	0.0000000001
PCB_105	0.0000013810	0.0000639621	0.0000001486	0.0000000107	0.0000004154
PCB_109	0.0000003025	0.0000175592	0.0000001165	0.0000000093	0.0000000911
PCB_111	0.0000000014	0.0000004550	0.0000000088	0.0000000008	0.0000000011
PCB_114	0.0000000968	0.0000042310	0.0000000055	0.0000000004	0.0000000282
PCB_118	0.0000042310	0.0002386465	0.0000014459	0.0000001160	0.0000013215
PCB_120	0.0000000055	0.0000014459	0.0000000288	0.0000000024	0.0000000042
PCB_121	0.0000000004	0.0000001160	0.0000000024	0.0000000002	0.0000000003
PCB_122	0.0000000282	0.0000013215	0.0000000042	0.0000000003	0.0000000099
PCB_123	0.0000000731	0.0000035807	0.0000000187	0.0000000016	0.0000000253
PCB_126	0.0000000115	0.0000000724	-.0000000083	-.0000000007	0.0000000024
PCB_127	0.0000000091	0.0000003852	0.0000000001	-.0000000000	0.0000000028
PCB_130	0.0000001329	0.0000050900	-.0000000006	-.0000000010	0.0000000625
PCB_131	0.0000000096	0.0000000571	-.0000000060	-.0000000005	0.0000000043
PCB_132	0.0000000381	-.0000130816	-.0000003091	-.0000000278	0.0000000302
PCB_133	0.0000000267	0.0000015684	0.0000000136	0.0000000009	0.0000000148
PCB_136	-.0000001064	-.0000113105	-.0000001517	-.0000000123	-.0000000358
PCB_137	0.0000003573	0.0000141055	-.0000000006	-.0000000011	0.0000001091
PCB_141	0.0000000775	-.0000078771	-.0000002563	-.0000000250	0.0000000647
PCB_142	0.0000000002	0.0000000574	0.0000000010	0.0000000001	0.0000000004
PCB_144	0.0000000257	-.0000021821	-.0000000738	-.0000000064	0.0000000123

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_64	-.0000001804	0.0000000118	-.0000000275	-.0000010336	-.0000000495
PCB_66	0.0000005135	-.0000000868	0.0000000122	-.0000001608	-.0000000694
PCB_67	0.0000000103	-.0000000124	-.0000000023	-.0000001111	-.0000000143
PCB_68	0.0000000556	-.0000000206	-.0000000010	-.0000001318	-.0000000237
PCB_72	0.0000000497	-.0000000360	-.0000000045	-.0000002574	-.0000000417
PCB_77	-.0000000109	-.0000000043	-.0000000013	0.0000000509	0.0000000027
PCB_78	0.0000000018	-.0000000000	0.0000000000	0.0000000046	0.0000000004
PCB_79	0.0000000147	-.0000000011	0.0000000013	-.0000000462	-.0000000028
PCB_81	-.0000000000	0.0000000003	0.0000000000	0.0000000025	0.0000000005
PCB_82	-.0000000465	0.0000000377	-.0000000009	-.0000002842	0.0000000102
PCB_83	0.0000000678	-.0000000045	0.0000000004	-.0000000025	0.0000000009
PCB_84	-.0000002076	-.0000000167	-.0000000276	-.0000010105	-.0000000559
PCB_89	-.0000000070	-.0000000003	-.0000000006	-.0000000082	-.0000000000
PCB_92	0.0000005220	-.0000000867	0.0000000176	-.0000005297	-.0000001085
PCB_94	0.0000000077	-.0000000040	-.0000000004	-.0000000115	-.0000000027
PCB_95	-.0000007127	0.0000000666	-.0000000995	-.0000044338	-.0000001953
PCB_96	-.0000000098	-.0000000014	-.0000000012	-.0000000516	-.0000000035
PCB_99	0.0000020701	-.0000002186	0.0000001807	0.0000019729	-.0000001538
PCB_103	0.0000000033	-.0000000036	-.0000000025	-.0000001880	-.0000000145
PCB_104	0.0000000011	-.0000000002	-.0000000000	-.0000000016	-.0000000002
PCB_105	0.0000010460	0.0000001260	0.0000001324	0.0000020063	0.0000001150
PCB_109	0.0000002529	0.0000000033	0.0000000262	0.0000002968	-.0000000042
PCB_111	0.0000000047	-.0000000030	0.0000000001	0.0000000007	-.0000000022
PCB_114	0.0000000731	0.0000000115	0.0000000091	0.0000001329	0.0000000096
PCB_118	0.0000035807	0.0000000724	0.0000003852	0.0000050900	0.0000000571
PCB_120	0.0000000187	-.0000000083	0.0000000001	-.0000000006	-.0000000060
PCB_121	0.0000000016	-.0000000007	-.0000000000	-.0000000010	-.0000000005
PCB_122	0.0000000253	0.0000000024	0.0000000028	0.0000000625	0.0000000043
PCB_123	0.0000000879	0.0000000078	0.0000000065	0.0000001577	0.0000000134
PCB_126	0.0000000078	0.0000000053	0.0000000010	0.0000000148	0.0000000041
PCB_127	0.0000000065	0.0000000010	0.0000000009	0.0000000168	0.0000000011
PCB_130	0.0000001577	0.0000000148	0.0000000168	0.0000007377	0.0000000563
PCB_131	0.0000000134	0.0000000041	0.0000000011	0.0000000563	0.0000000072
PCB_132	0.0000000333	0.0000001123	0.0000000131	0.0000012423	0.0000001708
PCB_133	0.0000000430	-.0000000012	0.0000000033	0.0000001803	0.0000000106
PCB_136	-.0000000962	0.0000000410	-.0000000083	0.0000000260	0.0000000468
PCB_137	0.0000002959	0.0000000587	0.0000000338	0.0000006181	0.0000000568
PCB_141	0.0000000014	0.0000000653	0.0000000256	0.0000016483	0.0000001511
PCB_142	0.0000000007	-.0000000005	0.0000000001	0.0000000062	0.0000000000
PCB_144	0.0000000121	0.0000000242	0.0000000056	0.0000003243	0.0000000393

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_64	-.0000008930	-.0000002588	0.0000002871	-.0000006047	-.0000021654
PCB_66	-.0000056338	0.0000001466	-.0000022948	0.0000004345	-.0000059129
PCB_67	-.0000006199	-.0000000094	-.0000002052	-.0000000615	-.0000006373
PCB_68	-.0000011512	0.0000000063	-.0000004475	-.0000000285	-.0000012039
PCB_72	-.0000017679	-.0000000029	-.0000006605	-.0000001583	-.0000018208
PCB_77	0.0000001320	0.0000000158	0.0000000281	-.0000000687	0.0000002043
PCB_78	0.0000000051	0.0000000017	-.0000000030	0.0000000067	0.0000000058
PCB_79	-.0000002929	-.0000000166	-.0000000428	0.0000000342	-.0000002698
PCB_81	0.0000000134	-.0000000001	0.0000000072	0.0000000016	0.0000000152
PCB_82	0.0000003755	-.0000001324	0.0000004812	0.0000001243	-.0000001212
PCB_83	-.0000004827	0.0000000117	-.0000001117	0.0000000117	-.0000006099
PCB_84	-.0000015445	-.0000002680	0.0000002758	-.0000009625	-.0000022676
PCB_89	0.0000000220	-.0000000033	0.0000000235	-.0000000271	0.0000000226
PCB_92	-.0000069323	0.0000000525	-.0000027140	0.0000006670	-.0000072357
PCB_94	-.0000001642	0.0000000028	-.0000000538	-.0000000311	-.0000001693
PCB_95	-.0000045779	-.0000012127	0.0000015237	-.0000025271	-.0000097441
PCB_96	-.0000001030	-.0000000131	0.0000000015	-.0000000480	-.0000001309
PCB_99	-.0000160686	0.0000009177	-.0000088971	0.0000053346	-.0000120686
PCB_103	-.0000005838	-.0000000389	-.0000001163	-.0000000622	-.0000007691
PCB_104	-.0000000144	0.0000000001	-.0000000055	0.0000000005	-.0000000174
PCB_105	-.0000002710	0.0000004346	-.0000019305	0.0000049416	0.0000010543
PCB_109	-.0000010947	0.0000001088	-.0000009274	0.0000010297	-.0000008245
PCB_111	-.0000001022	0.0000000044	-.0000000474	-.0000000103	-.0000000776
PCB_114	0.0000000381	0.0000000267	-.0000001064	0.0000003573	0.0000000775
PCB_118	-.0000130816	0.0000015684	-.0000113105	0.0000141055	-.0000078771
PCB_120	-.0000003091	0.0000000136	-.0000001517	-.0000000006	-.0000002563
PCB_121	-.0000000278	0.0000000009	-.0000000123	-.0000000011	-.0000000250
PCB_122	0.0000000302	0.0000000148	-.0000000358	0.0000001091	0.0000000647
PCB_123	0.0000000333	0.0000000430	-.0000000962	0.0000002959	0.0000000014
PCB_126	0.0000001123	-.0000000012	0.0000000410	0.0000000587	0.0000000653
PCB_127	0.0000000131	0.0000000033	-.0000000083	0.0000000338	0.0000000256
PCB_130	0.0000012423	0.0000001803	0.0000000260	0.0000006181	0.0000016483
PCB_131	0.0000001708	0.0000000106	0.0000000468	0.0000000568	0.0000001511
PCB_132	0.0000060270	0.0000001880	0.0000018381	0.0000008631	0.0000057113
PCB_133	0.0000001880	0.0000000534	-.0000000632	0.0000001270	0.0000003014
PCB_136	0.0000018381	-.0000000632	0.0000010419	-.0000002577	0.0000013191
PCB_137	0.0000008631	0.0000001270	-.0000002577	0.0000016390	0.0000009261
PCB_141	0.0000057113	0.0000003014	0.0000013191	0.0000009261	0.0000070440
PCB_142	-.0000000012	0.0000000021	-.0000000058	0.0000000007	0.0000000112
PCB_144	0.0000013241	0.0000000450	0.0000004293	0.0000001767	0.0000013915

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_64	-.0000000132	-.0000003867	-.0000000085	-.0000030923	-.0000000114
PCB_66	0.0000000072	-.0000012787	0.0000000116	-.0000055587	0.0000000220
PCB_67	0.0000000002	-.0000001585	0.0000000004	-.0000008746	0.0000000005
PCB_68	0.0000000010	-.0000002792	0.0000000013	-.0000016662	0.0000000027
PCB_72	0.0000000015	-.0000004389	0.0000000016	-.0000027173	0.0000000030
PCB_77	0.0000000010	0.0000000301	0.0000000006	0.0000003744	0.0000000004
PCB_78	0.0000000001	-.0000000006	0.0000000001	0.0000000219	0.0000000001
PCB_79	-.0000000004	-.0000000492	-.0000000000	-.0000002110	-.0000000004
PCB_81	-.0000000000	0.0000000039	-.0000000000	0.0000000351	-.0000000000
PCB_82	-.0000000080	0.0000000731	-.0000000048	0.0000003735	-.0000000070
PCB_83	0.0000000002	-.0000000918	0.0000000013	0.0000000167	0.0000000023
PCB_84	-.0000000100	-.0000004022	-.0000000066	-.0000026125	-.0000000129
PCB_89	-.0000000001	0.0000000056	-.0000000001	0.0000000487	-.0000000003
PCB_92	0.0000000040	-.0000015748	0.0000000088	-.0000089202	0.0000000190
PCB_94	0.0000000003	-.0000000349	0.0000000003	-.0000001396	0.0000000005
PCB_95	-.0000000601	-.0000015245	-.0000000375	-.0000120897	-.0000000538
PCB_96	-.0000000004	-.0000000244	-.0000000003	-.0000001866	-.0000000006
PCB_99	0.0000000502	-.0000029761	0.0000000457	-.0000184324	0.0000000847
PCB_103	-.0000000017	-.0000001468	-.0000000008	-.0000010320	-.0000000008
PCB_104	0.0000000000	-.0000000037	0.0000000000	-.0000000175	0.0000000000
PCB_105	0.0000000100	0.0000002692	0.0000000116	0.0000001822	0.0000000320
PCB_109	0.0000000036	-.0000002347	0.0000000036	-.0000019499	0.0000000096
PCB_111	0.0000000004	-.0000000209	0.0000000003	-.0000001351	0.0000000004
PCB_114	0.0000000002	0.0000000257	0.0000000006	0.0000000909	0.0000000021
PCB_118	0.0000000574	-.0000021821	0.0000000556	-.0000180571	0.0000001296
PCB_120	0.0000000010	-.0000000738	0.0000000008	-.0000003827	0.0000000012
PCB_121	0.0000000001	-.0000000064	0.0000000001	-.0000000356	0.0000000001
PCB_122	0.0000000004	0.0000000123	0.0000000005	0.0000001602	0.0000000009
PCB_123	0.0000000007	0.0000000121	0.0000000015	0.0000004948	0.0000000033
PCB_126	-.0000000005	0.0000000242	-.0000000002	0.0000001780	-.0000000000
PCB_127	0.0000000001	0.0000000056	0.0000000001	0.0000000271	0.0000000002
PCB_130	0.0000000062	0.0000003243	0.0000000053	0.0000033733	0.0000000086
PCB_131	0.0000000000	0.0000000393	0.0000000003	0.0000004436	0.0000000005
PCB_132	-.0000000012	0.0000013241	0.0000000010	0.0000111264	0.0000000026
PCB_133	0.0000000021	0.0000000450	0.0000000017	0.0000006494	0.0000000028
PCB_136	-.0000000058	0.0000004293	-.0000000032	0.0000036270	-.0000000058
PCB_137	0.0000000007	0.0000001767	0.0000000026	0.0000015419	0.0000000086
PCB_141	0.0000000112	0.0000013915	0.0000000054	0.0000102014	0.0000000046
PCB_142	0.0000000001	0.0000000005	0.0000000001	0.0000000059	0.0000000001
PCB_144	0.0000000005	0.0000003416	0.0000000004	0.0000025558	0.0000000005

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_64	0.0000000101	0.0000000010	-.0000001410	-.0000000133	-.0000015605
PCB_66	-.0000000013	0.0000000127	0.0000002341	0.0000000082	-.0000008219
PCB_67	-.0000000000	0.0000000010	0.0000000025	0.0000000002	-.0000002611
PCB_68	-.0000000005	0.0000000018	0.0000000257	0.0000000008	-.0000003131
PCB_72	-.0000000010	0.0000000024	0.0000000247	0.0000000010	-.0000006099
PCB_77	-.0000000007	-.0000000002	0.0000000013	0.0000000010	-.0000000004
PCB_78	-.0000000000	-.0000000000	0.0000000008	0.0000000001	0.0000000036
PCB_79	0.0000000007	0.0000000010	-.0000000011	-.0000000002	-.0000000644
PCB_81	0.0000000000	0.0000000000	-.0000000003	0.0000000000	0.0000000039
PCB_82	0.0000000066	0.0000000007	-.0000000638	-.0000000074	-.0000001417
PCB_83	0.0000000014	0.0000000023	0.0000000236	0.0000000008	-.0000001018
PCB_84	0.0000000090	0.0000000044	-.0000001477	-.0000000099	-.0000018071
PCB_89	0.0000000001	0.0000000000	-.0000000035	-.0000000001	-.0000000241
PCB_92	-.0000000004	0.0000000132	0.0000002152	0.0000000039	-.0000010424
PCB_94	-.0000000001	0.0000000004	0.0000000046	0.0000000003	-.0000000540
PCB_95	0.0000000482	0.0000000117	-.0000006049	-.0000000597	-.0000064322
PCB_96	0.0000000004	0.0000000002	-.0000000067	-.0000000005	-.0000000893
PCB_99	-.0000000390	0.0000000262	0.0000010639	0.0000000472	0.0000038287
PCB_103	0.0000000015	0.0000000011	-.0000000085	-.0000000018	-.0000002857
PCB_104	0.0000000000	0.0000000000	0.0000000005	0.0000000000	-.0000000039
PCB_105	-.0000000102	-.0000000007	0.0000004698	0.0000000104	0.0000054631
PCB_109	-.0000000042	0.0000000001	0.0000001238	0.0000000030	0.0000008639
PCB_111	-.0000000003	0.0000000001	0.0000000037	0.0000000003	-.0000000163
PCB_114	-.0000000003	-.0000000001	0.0000000313	0.0000000003	0.0000003839
PCB_118	-.0000000540	0.0000000104	0.0000017186	0.0000000536	0.0000132410
PCB_120	-.0000000007	0.0000000004	0.0000000118	0.0000000010	-.0000000566
PCB_121	-.0000000000	0.0000000000	0.0000000009	0.0000000001	-.0000000061
PCB_122	-.0000000003	0.0000000000	0.0000000124	0.0000000005	0.0000001278
PCB_123	0.0000000000	0.0000000005	0.0000000384	0.0000000012	0.0000002998
PCB_126	0.0000000004	-.0000000001	0.0000000010	-.0000000004	0.0000000636
PCB_127	-.0000000001	-.0000000000	0.0000000030	0.0000000001	0.0000000420
PCB_130	-.0000000038	-.0000000012	0.0000000983	0.0000000072	0.0000011358
PCB_131	0.0000000002	-.0000000000	0.0000000061	0.0000000002	0.0000000923
PCB_132	0.0000000026	-.0000000075	0.0000000302	0.0000000019	0.0000021768
PCB_133	-.0000000014	-.0000000003	0.0000000291	0.0000000023	0.0000002346
PCB_136	0.0000000063	-.0000000001	-.0000000642	-.0000000043	0.0000000393
PCB_137	-.0000000006	-.0000000020	0.0000001174	0.0000000016	0.0000016238
PCB_141	-.0000000091	-.0000000099	0.0000000601	0.0000000126	0.0000027183
PCB_142	-.0000000001	-.0000000000	0.0000000009	0.0000000001	0.0000000057
PCB_144	0.0000000002	-.0000000012	0.0000000103	0.0000000011	0.0000005899

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_64	-.0000000057	0.0000008637	-.0000000805	-.0000007773	-.0000000128
PCB_66	0.0000000212	-.0000013641	-.0000000460	-.0000035117	0.0000000663
PCB_67	0.0000000007	0.0000000315	-.0000000133	-.0000003895	0.0000000046
PCB_68	0.0000000032	0.0000001448	-.0000000151	-.0000006918	0.0000000097
PCB_72	0.0000000047	0.0000003399	-.0000000269	-.0000010516	0.0000000137
PCB_77	0.0000000009	-.0000001358	0.0000000037	0.0000000823	0.0000000017
PCB_78	-.0000000001	-.0000000098	-.0000000003	-.0000000021	0.0000000002
PCB_79	-.0000000018	-.0000001747	-.0000000070	-.0000001735	0.0000000008
PCB_81	-.0000000002	-.0000000150	-.0000000000	0.0000000073	-.0000000001
PCB_82	-.0000000071	-.0000002799	-.0000000207	0.0000000947	-.0000000141
PCB_83	0.0000000001	-.0000005737	-.0000000067	-.0000003200	0.0000000083
PCB_84	-.0000000057	-.0000002067	-.0000000774	-.0000009655	-.0000000056
PCB_89	-.0000000002	-.0000000247	-.0000000006	0.0000000149	-.0000000002
PCB_92	0.0000000169	-.0000000565	-.0000000729	-.0000042111	0.0000000572
PCB_94	0.0000000011	-.0000000637	-.0000000007	-.0000000927	0.0000000021
PCB_95	-.0000000216	0.0000016669	-.0000003167	-.0000034601	-.0000000580
PCB_96	-.0000000001	0.0000000121	-.0000000036	-.0000000578	-.0000000003
PCB_99	0.0000000600	0.0000007369	0.0000000984	-.0000087105	0.0000001550
PCB_103	0.0000000004	0.0000001164	-.0000000145	-.0000003635	0.0000000011
PCB_104	0.0000000001	-.0000000016	-.0000000002	-.0000000096	0.0000000002
PCB_105	-.0000000035	0.0000008960	0.0000001364	-.0000001493	-.0000000006
PCB_109	0.0000000052	0.0000007717	0.0000000168	-.0000006724	0.0000000081
PCB_111	0.0000000004	0.0000000165	-.0000000001	-.0000000506	0.0000000011
PCB_114	-.0000000000	0.0000000375	0.0000000094	0.0000000057	-.0000000004
PCB_118	0.0000000365	0.0000057604	0.0000002893	-.0000074963	0.0000001106
PCB_120	0.0000000010	0.0000000212	-.0000000027	-.0000001821	0.0000000037
PCB_121	0.0000000001	0.0000000020	-.0000000003	-.0000000160	0.0000000003
PCB_122	0.0000000003	-.0000000675	0.0000000038	0.0000000070	0.0000000008
PCB_123	0.0000000002	-.0000003139	0.0000000061	-.0000000467	0.0000000044
PCB_126	-.0000000004	-.0000000403	0.0000000011	0.0000000481	-.0000000009
PCB_127	-.0000000001	0.0000000020	0.0000000012	0.0000000082	-.0000000001
PCB_130	0.0000000032	-.0000010921	0.0000000473	0.0000006506	0.0000000100
PCB_131	0.0000000002	-.0000001804	0.0000000035	0.0000000756	0.0000000006
PCB_132	-.0000000011	-.0000026251	0.0000000945	0.0000031037	-.0000000138
PCB_133	0.0000000015	-.0000002248	0.0000000104	0.0000000878	0.0000000044
PCB_136	-.0000000033	-.0000013577	0.0000000105	0.0000009768	-.0000000100
PCB_137	-.0000000073	-.0000000530	0.0000000218	0.0000002148	-.0000000023
PCB_141	-.0000000098	-.0000015015	0.0000001165	0.0000033385	-.0000000158
PCB_142	-.0000000000	0.0000000008	0.0000000003	0.0000000014	0.0000000002
PCB_144	-.0000000013	-.0000006241	0.0000000284	0.0000007753	-.0000000043

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_64	-.0000005228	-.0000000141	-.0000017350	-.0000004227	-.0000013138
PCB_66	-.0000006226	-.0000000280	-.0000038952	-.0000020281	-.0000128116
PCB_67	-.0000001046	-.0000000028	-.0000004184	-.0000001769	-.0000011082
PCB_68	-.0000001422	-.0000000055	-.0000007070	-.0000003678	-.0000022942
PCB_72	-.0000002457	-.0000000077	-.0000010313	-.0000005245	-.0000032419
PCB_77	0.0000000004	0.0000000021	0.0000001522	0.0000000675	0.0000003991
PCB_78	-.0000000000	0.0000000000	-.0000000039	0.0000000007	-.0000000079
PCB_79	-.0000000387	-.0000000019	-.0000002522	-.0000000789	-.0000005465
PCB_81	0.0000000007	0.0000000001	0.0000000040	0.0000000051	0.0000000269
PCB_82	-.0000000540	-.0000000057	-.0000005167	-.0000000207	0.0000003258
PCB_83	-.0000001064	-.0000000027	-.0000005194	-.0000001919	-.0000011429
PCB_84	-.0000006362	-.0000000113	-.0000017339	-.0000003952	-.0000012691
PCB_89	-.0000000076	0.0000000002	0.0000000105	0.0000000146	0.0000001050
PCB_92	-.0000006453	-.0000000391	-.0000046360	-.0000024212	-.0000154053
PCB_94	-.0000000273	-.0000000005	-.0000000935	-.0000000517	-.0000002890
PCB_95	-.0000022280	-.0000000665	-.0000078615	-.0000020508	-.0000066222
PCB_96	-.0000000302	-.0000000007	-.0000000857	-.0000000258	-.0000001042
PCB_99	0.0000007669	-.0000000724	-.0000060484	-.0000053416	-.0000395455
PCB_103	-.0000001115	-.0000000045	-.0000005178	-.0000002119	-.0000011231
PCB_104	-.0000000022	-.0000000001	-.0000000119	-.0000000057	-.0000000337
PCB_105	0.0000017607	-.0000000214	0.0000003667	-.0000008726	-.0000092270
PCB_109	0.0000002762	-.0000000091	-.0000004261	-.0000005211	-.0000040777
PCB_111	-.0000000073	-.0000000002	-.0000000248	-.0000000232	-.0000001640
PCB_114	0.0000001218	-.0000000017	0.0000000016	-.0000000647	-.0000006171
PCB_118	0.0000040479	-.0000001032	-.0000042321	-.0000059808	-.0000500222
PCB_120	-.0000000283	-.0000000008	-.0000001331	-.0000000821	-.0000005909
PCB_121	-.0000000030	-.0000000001	-.0000000132	-.0000000075	-.0000000515
PCB_122	0.0000000372	-.0000000001	0.0000000173	-.0000000114	-.0000001573
PCB_123	0.0000000599	-.0000000011	-.0000001304	-.0000000780	-.0000006649
PCB_126	0.0000000181	-.0000000002	-.0000000015	0.0000000073	0.0000000589
PCB_127	0.0000000140	-.0000000000	0.0000000139	-.0000000004	-.0000000309
PCB_130	0.0000003312	0.0000000087	0.0000008926	0.0000002910	0.0000011093
PCB_131	0.0000000212	0.0000000006	0.0000000413	0.0000000258	0.0000001556
PCB_132	0.0000007032	0.0000000261	0.0000027415	0.0000014375	0.0000089517
PCB_133	0.0000000638	0.0000000021	0.0000001815	0.0000000430	0.0000000724
PCB_136	-.0000000215	0.0000000062	0.0000004273	0.0000004507	0.0000035991
PCB_137	0.0000005005	-.0000000045	0.0000000172	-.0000000693	-.0000016493
PCB_141	0.0000010199	0.0000000372	0.0000042438	0.0000018942	0.0000100502
PCB_142	0.0000000021	0.0000000001	0.0000000116	0.0000000032	0.0000000053
PCB_144	0.0000001952	0.0000000067	0.0000007742	0.0000003639	0.0000021962

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_64	-.0000000978	-.0000001276	-.0000011047	-.0000005390	-.0000005214
PCB_66	-.0000004795	-.0000010073	-.0000069324	-.0000031876	-.0000044826
PCB_67	-.0000000438	-.0000000931	-.0000006283	-.0000002866	-.0000003979
PCB_68	-.0000000888	-.0000001888	-.0000012647	-.0000005833	-.0000008195
PCB_72	-.0000001265	-.0000002719	-.0000017971	-.0000008253	-.0000011624
PCB_77	0.0000000185	0.0000000328	0.0000002505	0.0000001249	0.0000001537
PCB_78	-.0000000001	-.0000000005	-.0000000029	-.0000000008	-.0000000026
PCB_79	-.0000000220	-.0000000419	-.0000003286	-.0000001542	-.0000001943
PCB_81	0.0000000011	0.0000000025	0.0000000147	0.0000000070	0.0000000101
PCB_82	-.0000000082	0.0000000315	-.0000000326	-.0000000447	0.0000000921
PCB_83	-.0000000432	-.0000000795	-.0000006171	-.0000002806	-.0000003725
PCB_84	-.0000000865	-.0000001148	-.0000010375	-.0000004858	-.0000004476
PCB_89	0.0000000038	0.0000000085	0.0000000556	0.0000000267	0.0000000392
PCB_92	-.0000005929	-.0000012383	-.0000085274	-.0000039683	-.0000055023
PCB_94	-.0000000108	-.0000000226	-.0000001529	-.0000000689	-.0000000970
PCB_95	-.0000004617	-.0000005904	-.0000053788	-.0000026433	-.0000025159
PCB_96	-.0000000058	-.0000000094	-.0000000736	-.0000000348	-.0000000378
PCB_99	-.0000013767	-.0000031592	-.0000208574	-.0000097505	-.0000142413
PCB_103	-.0000000504	-.0000000931	-.0000006787	-.0000003215	-.0000004076
PCB_104	-.0000000013	-.0000000027	-.0000000186	-.0000000086	-.0000000119
PCB_105	-.0000002967	-.0000006940	-.0000048099	-.0000023918	-.0000035113
PCB_109	-.0000001445	-.0000003322	-.0000021798	-.0000010411	-.0000015260
PCB_111	-.0000000055	-.0000000136	-.0000000829	-.0000000373	-.0000000575
PCB_114	-.0000000208	-.0000000456	-.0000003286	-.0000001648	-.0000002355
PCB_118	-.0000017109	-.0000039771	-.0000264011	-.0000126262	-.0000185680
PCB_120	-.0000000205	-.0000000490	-.0000003084	-.0000001387	-.0000002098
PCB_121	-.0000000018	-.0000000042	-.0000000272	-.0000000123	-.0000000182
PCB_122	-.0000000039	-.0000000106	-.0000000735	-.0000000350	-.0000000568
PCB_123	-.0000000209	-.0000000437	-.0000003307	-.0000001544	-.0000002282
PCB_126	0.0000000015	0.0000000066	0.0000000254	0.0000000089	0.0000000200
PCB_127	-.0000000007	-.0000000021	-.0000000144	-.0000000077	-.0000000124
PCB_130	0.0000000700	0.0000001146	0.0000008373	0.0000004102	0.0000004430
PCB_131	0.0000000072	0.0000000164	0.0000000967	0.0000000462	0.0000000626
PCB_132	0.0000003655	0.0000007802	0.0000051544	0.0000024167	0.0000032955
PCB_133	0.0000000106	0.0000000107	0.0000001086	0.0000000593	0.0000000387
PCB_136	0.0000001274	0.0000003161	0.0000019220	0.0000008944	0.0000013547
PCB_137	-.0000000493	-.0000001154	-.0000008735	-.0000004395	-.0000006608
PCB_141	0.0000004425	0.0000008423	0.0000059608	0.0000028107	0.0000036314
PCB_142	0.0000000006	0.0000000004	0.0000000062	0.0000000034	0.0000000021
PCB_144	0.0000000915	0.0000001933	0.0000012780	0.0000005946	0.0000008136

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_64	-.0000000294	-.0000000235	-.0000000126	-.0000000141	-.0000071419
PCB_66	-.0000000248	-.0000000593	0.0000000049	0.0000000075	-.0000713296
PCB_67	-.0000000051	-.0000000045	-.0000000002	0.0000000001	-.0000060687
PCB_68	-.0000000056	-.0000000092	0.0000000002	0.0000000006	-.0000126799
PCB_72	-.0000000104	-.0000000114	0.0000000001	0.0000000006	-.0000177850
PCB_77	-.0000000005	0.0000000040	0.0000000009	0.0000000011	0.0000023704
PCB_78	-.0000000000	-.0000000001	0.0000000001	0.0000000001	-.0000000369
PCB_79	-.0000000022	-.0000000037	-.0000000004	-.0000000002	-.0000032003
PCB_81	-.0000000000	0.0000000001	0.0000000000	0.0000000000	0.0000001448
PCB_82	-.0000000051	-.0000000135	-.0000000065	-.0000000072	0.0000012342
PCB_83	-.0000000060	-.0000000074	0.0000000003	0.0000000008	-.0000064678
PCB_84	-.0000000373	-.0000000129	-.0000000103	-.0000000102	-.0000069754
PCB_89	-.0000000006	0.0000000006	-.0000000001	-.0000000001	0.0000005973
PCB_92	-.0000000218	-.0000000753	0.0000000008	0.0000000032	-.0000863625
PCB_94	-.0000000013	-.0000000007	0.0000000001	0.0000000002	-.0000015785
PCB_95	-.0000001258	-.0000001076	-.0000000568	-.0000000620	-.0000376200
PCB_96	-.0000000017	-.0000000006	-.0000000005	-.0000000005	-.0000005801
PCB_99	0.0000000927	-.0000001442	0.0000000387	0.0000000485	-.0002241963
PCB_103	-.0000000053	-.0000000076	-.0000000019	-.0000000019	-.0000063142
PCB_104	-.0000000001	-.0000000002	-.0000000000	-.0000000000	-.0000001865
PCB_105	0.0000001137	-.0000000722	0.0000000124	0.0000000124	-.0000557979
PCB_109	0.0000000217	-.0000000220	0.0000000031	0.0000000031	-.0000233161
PCB_111	-.0000000002	0.0000000000	0.0000000003	0.0000000003	-.0000008963
PCB_114	0.0000000078	-.0000000060	0.0000000005	0.0000000004	-.0000037482
PCB_118	0.0000002994	-.0000002648	0.0000000519	0.0000000572	-.0002891271
PCB_120	-.0000000010	-.0000000012	0.0000000007	0.0000000009	-.0000032194
PCB_121	-.0000000001	-.0000000001	0.0000000000	0.0000000001	-.0000002826
PCB_122	0.0000000022	-.0000000013	0.0000000005	0.0000000005	-.0000009375
PCB_123	0.0000000035	-.0000000065	0.0000000012	0.0000000013	-.0000038678
PCB_126	0.0000000009	-.0000000014	-.0000000003	-.0000000004	0.0000002646
PCB_127	0.0000000009	-.0000000003	0.0000000001	0.0000000001	-.0000002016
PCB_130	0.0000000165	0.0000000063	0.0000000071	0.0000000076	0.0000061684
PCB_131	0.0000000007	-.0000000004	0.0000000003	0.0000000003	0.0000008529
PCB_132	0.0000000266	0.0000000228	0.0000000046	0.0000000028	0.0000500026
PCB_133	0.0000000033	0.0000000017	0.0000000022	0.0000000023	0.0000004890
PCB_136	-.0000000074	0.0000000067	-.0000000034	-.0000000041	0.0000199637
PCB_137	0.0000000290	-.0000000262	0.0000000027	0.0000000022	-.0000102129
PCB_141	0.0000000461	0.0000000542	0.0000000139	0.0000000140	0.0000561054
PCB_142	0.0000000001	0.0000000003	0.0000000001	0.0000000001	0.0000000349
PCB_144	0.0000000083	0.0000000083	0.0000000016	0.0000000014	0.0000120723

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_64	-.0000000124	-.0000000732	-.0000002451	-.0000000713	-.0000000132
PCB_66	0.0000000017	-.0000002143	-.0000003992	-.0000003474	0.0000000068
PCB_67	-.0000000004	-.0000000243	-.0000000409	-.0000000322	0.0000000002
PCB_68	-.0000000003	-.0000000421	-.0000000752	-.0000000627	0.0000000009
PCB_72	-.0000000005	-.0000000638	-.0000001054	-.0000000897	0.0000000013
PCB_77	0.0000000010	0.0000000068	0.0000000269	0.0000000112	0.0000000010
PCB_78	0.0000000001	0.0000000000	-.0000000001	-.0000000002	0.0000000001
PCB_79	-.0000000006	-.0000000126	-.0000000254	-.0000000166	-.0000000004
PCB_81	0.0000000000	0.0000000004	0.0000000007	0.0000000006	-.0000000000
PCB_82	-.0000000066	-.0000000099	-.0000000920	-.0000000052	-.0000000079
PCB_83	-.0000000000	-.0000000225	-.0000000501	-.0000000362	0.0000000002
PCB_84	-.0000000103	-.0000000852	-.0000001892	-.0000000712	-.0000000101
PCB_89	-.0000000000	0.0000000006	0.0000000026	0.0000000022	-.0000000001
PCB_92	-.0000000030	-.0000002616	-.0000005206	-.0000004137	0.0000000036
PCB_94	0.0000000001	-.0000000058	-.0000000074	-.0000000082	0.0000000002
PCB_95	-.0000000570	-.0000003400	-.0000010812	-.0000003335	-.0000000604
PCB_96	-.0000000005	-.0000000047	-.0000000095	-.0000000043	-.0000000004
PCB_99	0.0000000273	-.0000004516	-.0000006444	-.0000008949	0.0000000495
PCB_103	-.0000000021	-.0000000267	-.0000000654	-.0000000350	-.0000000018
PCB_104	-.0000000000	-.0000000006	-.0000000013	-.0000000010	-.0000000000
PCB_105	0.0000000080	0.0000000238	-.0000001250	-.0000001473	0.0000000105
PCB_109	0.0000000019	-.0000000304	-.0000000838	-.0000000848	0.0000000036
PCB_111	0.0000000002	-.0000000026	-.0000000008	-.0000000039	0.0000000004
PCB_114	0.0000000002	0.0000000019	-.0000000142	-.0000000103	0.0000000003
PCB_118	0.0000000350	-.0000003170	-.0000008421	-.0000010118	0.0000000578
PCB_120	0.0000000006	-.0000000095	-.0000000095	-.0000000149	0.0000000010
PCB_121	0.0000000000	-.0000000009	-.0000000011	-.0000000013	0.0000000001
PCB_122	0.0000000004	0.0000000014	0.0000000007	-.0000000021	0.0000000004
PCB_123	0.0000000009	-.0000000015	-.0000000193	-.0000000154	0.0000000008
PCB_126	-.0000000003	0.0000000022	-.0000000048	0.0000000013	-.0000000005
PCB_127	0.0000000001	0.0000000008	0.0000000006	-.0000000001	0.0000000001
PCB_130	0.0000000070	0.0000000532	0.0000001193	0.0000000457	0.0000000063
PCB_131	0.0000000003	0.0000000047	0.0000000048	0.0000000042	0.0000000000
PCB_132	0.0000000061	0.0000001958	0.0000002944	0.0000002447	-.0000000009
PCB_133	0.0000000021	0.0000000098	0.0000000280	0.0000000062	0.0000000021
PCB_136	-.0000000027	0.0000000464	0.0000000457	0.0000000786	-.0000000057
PCB_137	0.0000000016	0.0000000217	-.0000000548	-.0000000244	0.0000000010
PCB_141	0.0000000156	0.0000002364	0.0000005187	0.0000003057	0.0000000117
PCB_142	0.0000000001	0.0000000004	0.0000000020	0.0000000004	0.0000000001
PCB_144	0.0000000019	0.0000000490	0.0000000876	0.0000000623	0.0000000005

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_64	-.0000004423	-.0000002134	-.0000003106	-.0000001296	-.0000001774
PCB_66	-.0000015220	-.0000009150	-.0000011265	-.0000008002	-.0000010345
PCB_67	-.0000001414	-.0000000815	-.0000001013	-.0000000678	-.0000000872
PCB_68	-.0000002786	-.0000001648	-.0000002057	-.0000001437	-.0000001847
PCB_72	-.0000003922	-.0000002308	-.0000002872	-.0000001998	-.0000002556
PCB_77	0.0000000729	0.0000000392	0.0000000552	0.0000000330	0.0000000443
PCB_78	0.0000000000	-.0000000002	-.0000000000	-.0000000001	-.0000000003
PCB_79	-.0000000860	-.0000000466	-.0000000597	-.0000000368	-.0000000488
PCB_81	0.0000000030	0.0000000018	0.0000000024	0.0000000018	0.0000000022
PCB_82	-.0000001266	-.0000000472	-.0000000861	-.0000000156	-.0000000300
PCB_83	-.0000001542	-.0000000910	-.0000001101	-.0000000713	-.0000000941
PCB_84	-.0000003914	-.0000001835	-.0000002529	-.0000001018	-.0000001353
PCB_89	0.0000000114	0.0000000072	0.0000000094	0.0000000073	0.0000000095
PCB_92	-.0000019272	-.0000011345	-.0000014300	-.0000009948	-.0000012894
PCB_94	-.0000000321	-.0000000196	-.0000000231	-.0000000169	-.0000000213
PCB_95	-.0000021113	-.0000010201	-.0000014724	-.0000006434	-.0000008751
PCB_96	-.0000000234	-.0000000115	-.0000000157	-.0000000077	-.0000000100
PCB_99	-.0000040830	-.0000025404	-.0000031340	-.0000024841	-.0000031935
PCB_103	-.0000001826	-.0000001000	-.0000001327	-.0000000799	-.0000001047
PCB_104	-.0000000043	-.0000000026	-.0000000032	-.0000000022	-.0000000028
PCB_105	-.0000009666	-.0000006179	-.0000008227	-.0000006817	-.0000009084
PCB_109	-.0000004388	-.0000002729	-.0000003521	-.0000002756	-.0000003592
PCB_111	-.0000000137	-.0000000090	-.0000000102	-.0000000089	-.0000000110
PCB_114	-.0000000721	-.0000000450	-.0000000612	-.0000000480	-.0000000645
PCB_118	-.0000052217	-.0000032779	-.0000041893	-.0000033545	-.0000043797
PCB_120	-.0000000564	-.0000000357	-.0000000416	-.0000000332	-.0000000419
PCB_121	-.0000000053	-.0000000033	-.0000000039	-.0000000030	-.0000000038
PCB_122	-.0000000110	-.0000000085	-.0000000102	-.0000000104	-.0000000140
PCB_123	-.0000000714	-.0000000473	-.0000000579	-.0000000445	-.0000000603
PCB_126	-.0000000020	-.0000000004	-.0000000025	0.0000000004	-.0000000006
PCB_127	-.0000000021	-.0000000016	-.0000000023	-.0000000025	-.0000000034
PCB_130	0.0000002771	0.0000001330	0.0000001917	0.0000000921	0.0000001190
PCB_131	0.0000000215	0.0000000112	0.0000000152	0.0000000099	0.0000000121
PCB_132	0.0000011695	0.0000006581	0.0000008454	0.0000005723	0.0000007285
PCB_133	0.0000000547	0.0000000229	0.0000000369	0.0000000131	0.0000000177
PCB_136	0.0000003463	0.0000002156	0.0000002674	0.0000002174	0.0000002755
PCB_137	-.0000001952	-.0000001265	-.0000001740	-.0000001345	-.0000001892
PCB_141	0.0000015378	0.0000008510	0.0000011179	0.0000006934	0.0000008985
PCB_142	0.0000000034	0.0000000016	0.0000000025	0.0000000010	0.0000000014
PCB_144	0.0000002959	0.0000001669	0.0000002151	0.0000001415	0.0000001814

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_64	-.0000005020	-.0000000132	-.0000000271	-.0000002513	-.0000000324
PCB_66	-.0000021441	0.0000000067	-.0000001829	-.0000014886	-.0000001614
PCB_67	-.0000001877	0.0000000002	-.0000000158	-.0000001240	-.0000000137
PCB_68	-.0000003853	0.0000000009	-.0000000328	-.0000002644	-.0000000288
PCB_72	-.0000005347	0.0000000013	-.0000000460	-.0000003648	-.0000000397
PCB_77	0.0000000999	0.0000000010	0.0000000068	0.0000000633	0.0000000074
PCB_78	-.0000000003	0.0000000001	-.0000000001	-.0000000003	-.0000000000
PCB_79	-.0000001121	-.0000000004	-.0000000084	-.0000000697	-.0000000080
PCB_81	0.0000000043	-.0000000000	0.0000000004	0.0000000032	0.0000000004
PCB_82	-.0000001333	-.0000000079	-.0000000011	-.0000000425	-.0000000083
PCB_83	-.0000002086	0.0000000002	-.0000000168	-.0000001377	-.0000000147
PCB_84	-.0000004104	-.0000000101	-.0000000242	-.0000001917	-.0000000249
PCB_89	0.0000000183	-.0000000001	0.0000000015	0.0000000136	0.0000000015
PCB_92	-.0000026981	0.0000000036	-.0000002241	-.0000018483	-.0000002033
PCB_94	-.0000000438	0.0000000002	-.0000000040	-.0000000308	-.0000000033
PCB_95	-.0000024273	-.0000000605	-.0000001356	-.0000012473	-.0000001606
PCB_96	-.0000000264	-.0000000004	-.0000000018	-.0000000142	-.0000000017
PCB_99	-.0000061944	0.0000000496	-.0000005556	-.0000045722	-.0000004931
PCB_103	-.0000002381	-.0000000018	-.0000000177	-.0000001498	-.0000000172
PCB_104	-.0000000060	-.0000000000	-.0000000005	-.0000000041	-.0000000004
PCB_105	-.0000016958	0.0000000107	-.0000001381	-.0000013013	-.0000001444
PCB_109	-.0000006920	0.0000000036	-.0000000588	-.0000005121	-.0000000564
PCB_111	-.0000000203	0.0000000004	-.0000000021	-.0000000157	-.0000000016
PCB_114	-.0000001237	0.0000000003	-.0000000095	-.0000000926	-.0000000105
PCB_118	-.0000083691	0.0000000583	-.0000007187	-.0000062582	-.0000006840
PCB_120	-.0000000814	0.0000000010	-.0000000078	-.0000000598	-.0000000062
PCB_121	-.0000000075	0.0000000001	-.0000000007	-.0000000054	-.0000000006
PCB_122	-.0000000236	0.0000000004	-.0000000021	-.0000000201	-.0000000022
PCB_123	-.0000001185	0.0000000008	-.0000000096	-.0000000879	-.0000000094
PCB_126	-.0000000041	-.0000000005	0.0000000004	-.0000000012	-.0000000003
PCB_127	-.0000000054	0.0000000001	-.0000000005	-.0000000048	-.0000000005
PCB_130	0.0000003134	0.0000000063	0.0000000202	0.0000001670	0.0000000208
PCB_131	0.0000000263	0.0000000000	0.0000000023	0.0000000168	0.0000000019
PCB_132	0.0000015533	-.0000000008	0.0000001309	0.0000010343	0.0000001144
PCB_133	0.0000000569	0.0000000021	0.0000000026	0.0000000246	0.0000000036
PCB_136	0.0000005213	-.0000000057	0.0000000489	0.0000003887	0.0000000415
PCB_137	-.0000003628	0.0000000011	-.0000000255	-.0000002696	-.0000000306
PCB_141	0.0000020101	0.0000000118	0.0000001549	0.0000012862	0.0000001461
PCB_142	0.0000000040	0.0000000001	0.0000000002	0.0000000020	0.0000000003
PCB_144	0.0000003914	0.0000000006	0.0000000321	0.0000002568	0.0000000288

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_64	-.0000000880	-.0000001599	-.0000000044	-.0000003180	0.0000151322
PCB_66	-.0000005007	-.0000010851	0.0000000883	0.0000004145	0.0000096068
PCB_67	-.0000000413	-.0000000868	0.0000000079	-.0000000201	0.0000017798
PCB_68	-.0000000888	-.0000001904	0.0000000158	0.0000000296	0.0000021680
PCB_72	-.0000001218	-.0000002599	0.0000000237	-.0000000084	0.0000034260
PCB_77	0.0000000223	0.0000000462	-.0000000000	-.0000000295	-.0000014397
PCB_78	-.0000000001	-.0000000003	0.0000000000	0.0000000008	-.0000001163
PCB_79	-.0000000234	-.0000000483	0.0000000024	0.0000000058	0.0000022837
PCB_81	0.0000000011	0.0000000023	-.0000000002	-.0000000009	-.0000000031
PCB_82	-.0000000183	-.0000000243	-.0000000138	-.0000000198	0.0000089106
PCB_83	-.0000000456	-.0000000993	0.0000000074	0.0000000161	0.0000016468
PCB_84	-.0000000623	-.0000001057	0.0000000048	-.0000004403	0.0000186369
PCB_89	0.0000000048	0.0000000105	-.0000000005	-.0000000139	0.0000000966
PCB_92	-.0000006260	-.0000013430	0.0000000951	0.0000005264	0.0000176634
PCB_94	-.0000000101	-.0000000219	0.0000000027	-.0000000018	0.0000003128
PCB_95	-.0000004343	-.0000008010	-.0000000133	-.0000012247	0.0000806118
PCB_96	-.0000000047	-.0000000087	0.0000000006	-.0000000192	0.0000009620
PCB_99	-.0000015545	-.0000034197	0.0000002601	0.0000031686	0.0000034080
PCB_103	-.0000000511	-.0000001053	0.0000000052	-.0000000123	0.0000037440
PCB_104	-.0000000014	-.0000000029	0.0000000002	0.0000000007	0.0000000328
PCB_105	-.0000004664	-.0000010392	0.0000000151	0.0000021701	-.0000101387
PCB_109	-.0000001790	-.0000003921	0.0000000189	0.0000004995	-.0000018454
PCB_111	-.0000000051	-.0000000114	0.0000000016	0.0000000020	-.0000000840
PCB_114	-.0000000335	-.0000000740	0.0000000003	0.0000001548	-.0000005026
PCB_118	-.0000021813	-.0000048132	0.0000002291	0.0000067105	-.0000256875
PCB_120	-.0000000197	-.0000000434	0.0000000050	0.0000000097	-.0000002198
PCB_121	-.0000000018	-.0000000039	0.0000000004	0.0000000005	0.0000000003
PCB_122	-.0000000073	-.0000000168	0.0000000005	0.0000000460	-.0000005173
PCB_123	-.0000000309	-.0000000699	0.0000000022	0.0000001201	-.0000013210
PCB_126	-.0000000010	-.0000000019	-.0000000016	0.0000000190	0.0000000965
PCB_127	-.0000000018	-.0000000042	-.0000000001	0.0000000142	-.0000001266
PCB_130	0.0000000561	0.0000001028	-.0000000032	0.0000002407	-.0000110072
PCB_131	0.0000000054	0.0000000107	-.0000000012	0.0000000181	-.0000005911
PCB_132	0.0000003442	0.0000007210	-.0000000606	0.0000001619	-.0000203558
PCB_133	0.0000000086	0.0000000133	0.0000000015	0.0000000540	-.0000032438
PCB_136	0.0000001314	0.0000002867	-.0000000252	-.0000001745	0.0000014514
PCB_137	-.0000001008	-.0000002237	-.0000000075	0.0000005846	-.0000054422
PCB_141	0.0000004351	0.0000009025	-.0000000565	0.0000001757	-.0000298794
PCB_142	0.0000000008	0.0000000014	0.0000000001	0.0000000004	-.0000001456
PCB_144	0.0000000864	0.0000001796	-.0000000141	0.0000000469	-.0000044045

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_64	-.0000023601	-.0000145210	-.0000003593	-.0000027884	-.0000002936
PCB_66	-.0000017022	-.0000271700	0.0000000864	-.0000179128	0.0000001078
PCB_67	-.0000004556	-.0000038066	-.0000000525	-.0000018593	-.0000000385
PCB_68	-.0000005786	-.0000059052	-.0000000424	-.0000034470	-.0000000209
PCB_72	-.0000011177	-.0000095517	-.0000000986	-.0000050952	-.0000000721
PCB_77	-.0000000630	0.0000006787	0.0000000287	0.0000005698	-.0000000128
PCB_78	0.0000000031	0.0000000215	0.0000000025	-.0000000082	0.0000000012
PCB_79	-.0000000511	-.0000018258	-.0000000403	-.0000009904	-.0000000092
PCB_81	0.0000000075	0.0000000502	0.0000000009	0.0000000360	-.0000000000
PCB_82	0.0000001171	-.0000017464	-.0000001482	0.0000002921	-.0000000232
PCB_83	-.0000002191	-.0000032289	0.0000000575	-.0000014969	0.0000000004
PCB_84	-.0000028143	-.0000180150	-.0000004137	-.0000035871	-.0000004062
PCB_89	-.0000000426	-.0000000692	-.0000000028	0.0000001154	-.0000000092
PCB_92	-.0000017373	-.0000328488	-.0000002073	-.0000223658	0.0000001152
PCB_94	-.0000001117	-.0000009068	0.0000000032	-.0000004147	-.0000000069
PCB_95	-.0000092455	-.0000654429	-.0000016557	-.0000136029	-.0000012210
PCB_96	-.0000001380	-.0000009411	-.0000000231	-.0000002422	-.0000000195
PCB_99	0.0000065681	-.0000305128	0.0000001394	-.0000546338	0.0000017064
PCB_103	-.0000004279	-.0000041484	-.0000000717	-.0000017741	-.0000000369
PCB_104	-.0000000073	-.0000000822	0.0000000000	-.0000000466	0.0000000000
PCB_105	0.0000102392	0.0000291827	0.0000004002	-.0000091184	0.0000015479
PCB_109	0.0000016016	0.0000014820	0.0000000202	-.0000051168	0.0000003159
PCB_111	-.0000000413	-.0000003604	0.0000000001	-.0000002548	-.0000000017
PCB_114	0.0000007281	0.0000021083	0.0000000310	-.0000005378	0.0000001117
PCB_118	0.0000243578	0.0000326399	0.0000007006	-.0000623200	0.0000043550
PCB_120	-.0000001328	-.0000012776	-.0000000020	-.0000009112	-.0000000024
PCB_121	-.0000000133	-.0000001243	-.0000000001	-.0000000790	-.0000000005
PCB_122	0.0000002240	0.0000007653	0.0000000200	-.0000001105	0.0000000350
PCB_123	0.0000005006	0.0000012263	0.0000000876	-.0000005155	0.0000000938
PCB_126	0.0000001300	0.0000005524	0.0000000100	0.0000001847	0.0000000174
PCB_127	0.0000000773	0.0000002844	0.0000000037	-.0000000157	0.0000000108
PCB_130	0.0000017300	0.0000108516	0.0000003378	0.0000027870	0.0000002449
PCB_131	0.0000001486	0.0000009101	0.0000000342	0.0000003738	0.0000000210
PCB_132	0.0000035143	0.0000312444	0.0000007098	0.0000159081	0.0000003731
PCB_133	0.0000003131	0.0000021399	0.0000000889	0.0000003854	0.0000000541
PCB_136	0.0000001040	0.0000046427	0.0000001343	0.0000057248	-.0000000580
PCB_137	0.0000030359	0.0000105401	0.0000001685	-.0000010146	0.0000004593
PCB_141	0.0000043249	0.0000376828	0.0000006117	0.0000160139	0.0000003872
PCB_142	0.0000000053	0.0000000608	0.0000000019	0.0000000042	0.0000000006
PCB_144	0.0000009742	0.0000077797	0.0000001667	0.0000037954	0.0000000911

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PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_64	-.0000019058	-.0000027603	-.0000015893	-.0000005266	0.0000011222
PCB_66	-.0000541530	-.0000059316	0.0000008586	-.0000031416	0.0000010481
PCB_67	-.0000050769	0.0000010764	-.0000001574	-.0000002985	0.0000002049
PCB_68	-.0000099797	0.0000008511	-.0000000158	-.0000005738	0.0000002689
PCB_72	-.0000146646	0.0000033461	-.0000002256	-.0000008351	0.0000004558
PCB_77	0.0000009863	0.0000024992	-.0000001003	0.0000000826	-.0000000653
PCB_78	-.0000000282	0.0000001219	0.0000000006	-.0000000016	-.0000000028
PCB_79	-.0000024107	-.0000024705	0.0000000035	-.0000001440	0.0000001327
PCB_81	0.0000001028	-.0000000418	-.0000000019	0.0000000061	-.0000000015
PCB_82	0.0000047348	-.0000126051	-.0000001472	0.0000000476	0.0000003460
PCB_83	-.0000049516	-.0000016258	-.0000000198	-.0000003093	0.0000001313
PCB_84	-.0000062454	-.0000024476	-.0000019674	-.0000006203	0.0000013106
PCB_89	0.0000003159	0.0000002592	-.0000000507	0.0000000182	0.0000000084
PCB_92	-.0000632463	-.0000152665	0.0000012529	-.0000037008	0.0000015285
PCB_94	-.0000014168	0.0000002677	-.0000000256	-.0000000793	0.0000000336
PCB_95	-.0000129122	-.0000389919	-.0000061477	-.0000025291	0.0000051435
PCB_96	-.0000005066	-.0000001706	-.0000000854	-.0000000391	0.0000000665
PCB_99	-.0001662770	-.0000622805	0.0000116397	-.0000082944	0.0000001963
PCB_103	-.0000042000	-.0000020612	-.0000001336	-.0000003001	0.0000002627
PCB_104	-.0000001336	-.0000000079	0.0000000003	-.0000000085	0.0000000036
PCB_105	-.0000226610	-.0000678101	0.0000087103	-.0000010407	-.0000018340
PCB_109	-.0000137669	-.0000108117	0.0000018641	-.0000007286	-.0000001982
PCB_111	-.0000008941	0.0000004125	0.0000000055	-.0000000402	0.0000000083
PCB_114	-.0000011348	-.0000052438	0.0000006083	-.0000000664	-.0000001264
PCB_118	-.0001743448	-.0001632996	0.0000258388	-.0000086638	-.0000033572
PCB_120	-.0000028998	0.0000012330	0.0000000106	-.0000001451	0.0000000398
PCB_121	-.0000002514	0.0000000898	-.0000000003	-.0000000129	0.0000000044
PCB_122	-.0000003650	-.0000011368	0.0000001786	-.0000000154	-.0000000551
PCB_123	-.0000017205	-.0000029501	0.0000004286	-.0000001118	-.0000001177
PCB_126	0.0000007443	-.0000012681	0.0000000708	0.0000000240	-.0000000217
PCB_127	-.0000000327	-.0000004296	0.0000000593	0.0000000008	-.0000000171
PCB_130	0.0000049437	0.0000004413	0.0000010268	0.0000004020	-.0000008053
PCB_131	0.0000009400	-.0000005708	0.0000000662	0.0000000438	-.0000000603
PCB_132	0.0000433167	-.0000019791	0.0000008517	0.0000023152	-.0000018156
PCB_133	0.0000001137	0.0000016014	0.0000002178	0.0000000462	-.0000001911
PCB_136	0.0000164799	-.0000035911	-.0000006378	0.0000007644	-.0000001502
PCB_137	-.0000001990	-.0000171155	0.0000022393	-.0000000708	-.0000005862
PCB_141	0.0000407189	0.0000095617	0.0000013610	0.0000027020	-.0000022429
PCB_142	-.0000000419	0.0000001720	0.0000000040	0.0000000021	-.0000000062
PCB_144	0.0000097644	-.0000018217	0.0000003110	0.0000005763	-.0000004535

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_64	-.0000035726	-.0000014642	-.0000000944	-.0000008001	0.0000003382
PCB_66	-.0000122182	-.0000090792	-.0000005096	-.0000028907	0.0000048176
PCB_67	-.0000011631	-.0000008263	-.0000000450	-.0000002631	0.0000004500
PCB_68	-.0000021671	-.0000016514	-.0000000925	-.0000005235	0.0000009171
PCB_72	-.0000030548	-.0000023590	-.0000001296	-.0000007283	0.0000013982
PCB_77	0.0000005220	0.0000003036	0.0000000216	0.0000001447	0.0000000129
PCB_78	-.0000000084	-.0000000029	-.0000000002	-.0000000007	0.0000000035
PCB_79	-.0000007274	-.0000004247	-.0000000247	-.0000001656	0.0000000580
PCB_81	0.0000000185	0.0000000190	0.0000000011	0.0000000054	-.0000000129
PCB_82	-.0000011291	-.0000000053	-.0000000149	-.0000002536	-.0000008404
PCB_83	-.0000013287	-.0000008355	-.0000000452	-.0000002884	0.0000004708
PCB_84	-.0000033584	-.0000014975	-.0000000759	-.0000006658	0.0000005842
PCB_89	0.0000000787	0.0000000670	0.0000000045	0.0000000238	-.0000000181
PCB_92	-.0000150457	-.0000110245	-.0000006384	-.0000036863	0.0000049836
PCB_94	-.0000002598	-.0000002110	-.0000000105	-.0000000569	0.0000001591
PCB_95	-.0000170017	-.0000072150	-.0000004554	-.0000038189	0.0000009775
PCB_96	-.0000001866	-.0000001023	-.0000000054	-.0000000404	0.0000000425
PCB_99	-.0000302092	-.0000263595	-.0000015572	-.0000081017	0.0000105584
PCB_103	-.0000014149	-.0000008865	-.0000000525	-.0000003406	0.0000003375
PCB_104	-.0000000348	-.0000000244	-.0000000014	-.0000000082	0.0000000130
PCB_105	-.0000063917	-.0000053507	-.0000004193	-.0000022307	-.0000015585
PCB_109	-.0000031111	-.0000026282	-.0000001736	-.0000009149	0.0000005720
PCB_111	-.0000000976	-.0000001104	-.0000000055	-.0000000248	0.0000000889
PCB_114	-.0000004934	-.0000003633	-.0000000296	-.0000001652	-.0000001404
PCB_118	-.0000369832	-.0000317124	-.0000020996	-.0000110176	0.0000055445
PCB_120	-.0000004509	-.0000004033	-.0000000213	-.0000001062	0.0000002741
PCB_121	-.0000000416	-.0000000357	-.0000000019	-.0000000099	0.0000000241
PCB_122	-.0000000927	-.0000000810	-.0000000063	-.0000000292	-.0000000255
PCB_123	-.0000006194	-.0000003980	-.0000000275	-.0000001573	0.0000000612
PCB_126	-.0000000216	0.0000000424	0.0000000003	-.0000000086	-.0000000967
PCB_127	-.0000000094	-.0000000127	-.0000000015	-.0000000067	-.0000000213
PCB_130	0.0000019563	0.0000011233	0.0000000646	0.0000004817	-.0000004330
PCB_131	0.0000001225	0.0000001253	0.0000000067	0.0000000371	-.0000000767
PCB_132	0.0000084271	0.0000067179	0.0000003735	0.0000021517	-.0000033794
PCB_133	0.0000003732	0.0000001451	0.0000000098	0.0000000951	0.0000000462
PCB_136	0.0000023832	0.0000023922	0.0000001398	0.0000006825	-.0000011809
PCB_137	-.0000015834	-.0000008300	-.0000000868	-.0000005111	-.0000009634
PCB_141	0.0000116590	0.0000078516	0.0000004517	0.0000028319	-.0000036632
PCB_142	0.0000000268	0.0000000081	0.0000000007	0.0000000063	0.0000000050
PCB_144	0.0000022488	0.0000016592	0.0000000938	0.0000005492	-.0000008421

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_64	-.0000000389	0.0000012714	0.0000015553	0.0000035989	0.0000020140
PCB_66	0.0000003086	0.0000077137	0.0000026728	0.0000234745	0.0000002473
PCB_67	0.0000000317	0.0000008484	0.0000003445	0.0000022482	0.0000001781
PCB_68	0.0000000592	0.0000015345	0.0000005930	0.0000044402	0.0000001914
PCB_72	0.0000000941	0.0000023867	0.0000009379	0.0000065814	0.0000003495
PCB_77	0.0000000065	-.0000000695	-.0000000909	-.0000004603	-.0000001344
PCB_78	0.0000000000	-.0000000003	-.0000000027	0.0000000104	-.0000000021
PCB_79	0.0000000083	0.0000003045	0.0000001156	0.0000008320	0.0000000939
PCB_81	-.0000000007	-.0000000178	-.0000000081	-.0000000525	-.0000000027
PCB_82	-.0000000801	-.0000007315	0.0000001560	-.0000015676	0.0000007612
PCB_83	0.0000000274	0.0000007322	0.0000002755	0.0000023110	0.0000000071
PCB_84	0.0000000339	0.0000021313	0.0000015352	0.0000043037	0.0000016015
PCB_89	-.0000000003	-.0000000178	-.0000000032	-.0000001221	0.0000000053
PCB_92	0.0000003142	0.0000087375	0.0000032803	0.0000269552	0.0000009977
PCB_94	0.0000000117	0.0000002467	0.0000000837	0.0000006450	-.0000000071
PCB_95	-.0000001471	0.0000058178	0.0000066098	0.0000157475	0.0000083217
PCB_96	0.0000000030	0.0000001311	0.0000000820	0.0000002815	0.0000000762
PCB_99	0.0000008523	0.0000176871	0.0000031073	0.0000587820	-.0000034681
PCB_103	0.0000000147	0.0000007250	0.0000004218	0.0000021395	0.0000003365
PCB_104	0.0000000007	0.0000000204	0.0000000088	0.0000000637	0.0000000033
PCB_105	-.0000001406	-.0000025711	-.0000022506	0.0000027474	-.0000019695
PCB_109	0.0000000263	0.0000008679	0.0000000694	0.0000046305	-.0000002167
PCB_111	0.0000000076	0.0000001360	0.0000000319	0.0000003520	-.0000000200
PCB_114	-.0000000154	-.0000002404	-.0000001494	0.0000000956	-.0000001023
PCB_118	0.0000003397	0.0000088789	-.0000013850	0.0000530671	-.0000053080
PCB_120	0.0000000213	0.0000004294	0.0000001162	0.0000011728	-.0000000201
PCB_121	0.0000000018	0.0000000380	0.0000000115	0.0000001053	-.0000000005
PCB_122	-.0000000020	-.0000000665	-.0000000675	0.0000000024	-.0000000731
PCB_123	-.0000000046	-.0000000474	-.0000000838	0.0000005944	-.0000001438
PCB_126	-.0000000106	-.0000001636	-.0000000382	-.0000002844	0.0000000164
PCB_127	-.0000000015	-.0000000364	-.0000000248	-.0000000402	-.0000000190
PCB_130	-.0000000212	-.0000014205	-.0000010532	-.0000031658	-.0000011255
PCB_131	-.0000000073	-.0000001849	-.0000000847	-.0000004008	-.0000000644
PCB_132	-.0000002722	-.0000070527	-.0000028647	-.0000181927	-.0000014962
PCB_133	0.0000000054	-.0000001528	-.0000002019	-.0000002653	-.0000002909
PCB_136	-.0000000975	-.0000020440	-.0000004990	-.0000060036	0.0000000193
PCB_137	-.0000001032	-.0000016999	-.0000008222	-.0000013259	-.0000002571
PCB_141	-.0000001982	-.0000072276	-.0000038285	-.0000203508	-.0000025916
PCB_142	0.0000000010	0.0000000026	-.0000000080	-.0000000030	-.0000000138
PCB_144	-.0000000563	-.0000016684	-.0000007620	-.0000044400	-.0000005047

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_64	0.0000119360	0.0000015558	0.0000007357	0.0000010873	-.0000026102
PCB_66	0.0000250661	0.0000033318	0.0000020303	0.0000070791	0.0000059135
PCB_67	0.0000031282	0.0000004222	0.0000002411	0.0000006450	0.0000002389
PCB_68	0.0000053911	0.0000007217	0.0000004388	0.0000012647	0.0000008121
PCB_72	0.0000083271	0.0000011463	0.0000006937	0.0000017942	0.0000009895
PCB_77	-.0000010011	-.0000000950	-.0000000263	-.0000002422	-.0000000461
PCB_78	0.0000000028	-.0000000064	0.0000000012	0.0000000042	0.0000000005
PCB_79	0.0000013379	0.0000001750	0.0000000392	0.0000003591	0.0000001817
PCB_81	-.0000000615	-.0000000095	-.0000000064	-.0000000134	-.0000000094
PCB_82	0.0000014483	0.0000001169	-.0000001710	0.0000000950	-.0000011314
PCB_83	0.0000024208	0.0000003299	0.0000001875	0.0000006550	0.0000005139
PCB_84	0.0000114797	0.0000018534	0.0000006984	0.0000011358	-.0000018743
PCB_89	-.0000000879	-.0000000015	-.0000000053	-.0000000531	-.0000000670
PCB_92	0.0000318548	0.0000040924	0.0000022904	0.0000086202	0.0000063773
PCB_94	0.0000006374	0.0000001123	0.0000000641	0.0000001575	0.0000001473
PCB_95	0.0000504249	0.0000071402	0.0000027393	0.0000054986	-.0000093645
PCB_96	0.0000006271	0.0000001031	0.0000000391	0.0000000765	-.0000000610
PCB_99	0.0000460918	0.0000053232	0.0000030685	0.0000209450	0.0000274552
PCB_103	0.0000035883	0.0000004921	0.0000002320	0.0000006807	0.0000000662
PCB_104	0.0000000777	0.0000000100	0.0000000063	0.0000000188	0.0000000109
PCB_105	-.0000065992	-.0000025146	-.0000014719	0.0000047289	0.0000094903
PCB_109	0.0000035482	0.0000001067	0.0000001369	0.0000021341	0.0000026951
PCB_111	0.0000002934	0.0000000475	0.0000000322	0.0000000811	0.0000001093
PCB_114	-.0000004523	-.0000001809	-.0000001069	0.0000003247	0.0000005942
PCB_118	0.0000297407	-.0000006567	0.0000001311	0.0000260783	0.0000380466
PCB_120	0.0000011580	0.0000001522	0.0000001113	0.0000003111	0.0000002992
PCB_121	0.0000001094	0.0000000147	0.0000000101	0.0000000272	0.0000000243
PCB_122	-.0000003323	-.0000000764	-.0000000369	0.0000000796	0.0000002166
PCB_123	-.0000001065	-.0000001332	-.0000000286	0.0000003489	0.0000005633
PCB_126	-.0000002689	-.0000000625	-.0000000394	-.0000000236	-.0000000397
PCB_127	-.0000001278	-.0000000280	-.0000000160	0.0000000141	0.0000000571
PCB_130	-.0000081379	-.0000012495	-.0000005151	-.0000007827	0.0000011254
PCB_131	-.0000007241	-.0000001118	-.0000000534	-.0000000850	0.0000000143
PCB_132	-.0000258911	-.0000037810	-.0000018463	-.0000050380	-.0000024426
PCB_133	-.0000015245	-.0000002434	-.0000000618	-.0000000996	0.0000003608
PCB_136	-.0000062924	-.0000006900	-.0000004989	-.0000018471	-.0000018995
PCB_137	-.0000029084	-.0000011703	-.0000005345	0.0000009008	0.0000014841
PCB_141	-.0000317368	-.0000045789	-.0000022533	-.0000059059	-.0000011693
PCB_142	-.0000000547	-.0000000077	-.0000000014	-.0000000064	0.0000000163
PCB_144	-.0000067936	-.0000009224	-.0000005054	-.0000012616	-.0000002961

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_64	0.0000015692	0.0000016639	-.0000020938	0.0000001647
PCB_66	0.0000148624	0.0000008522	0.0000273463	0.0000015284
PCB_67	0.0000010378	0.0000001634	0.0000017575	0.0000001235
PCB_68	0.0000022506	0.0000002013	0.0000041979	0.0000002591
PCB_72	0.0000028526	0.0000003099	0.0000052582	0.0000003646
PCB_77	-.0000007398	-.0000001368	-.0000011917	-.0000000331
PCB_78	-.0000000149	-.0000000042	0.0000000114	0.0000000004
PCB_79	0.0000010966	0.0000001657	0.0000016720	0.0000000633
PCB_81	-.0000000159	0.0000000001	-.0000000342	-.0000000024
PCB_82	0.0000017785	0.0000008258	0.0000004233	-.0000000462
PCB_83	0.0000016644	0.0000001754	0.0000025049	0.0000001802
PCB_84	0.0000024493	0.0000016004	-.0000014627	0.0000002388
PCB_89	-.0000001265	0.0000000060	-.0000003152	-.0000000081
PCB_92	0.0000186544	0.0000014877	0.0000342531	0.0000017060
PCB_94	0.0000003093	0.0000000153	0.0000004644	0.0000000415
PCB_95	0.0000136468	0.0000077596	-.0000008819	0.0000009255
PCB_96	0.0000001693	0.0000000765	0.0000000360	0.0000000154
PCB_99	0.0000507234	-.0000013458	0.0001133409	0.0000038771
PCB_103	0.0000015118	0.0000003408	0.0000019265	0.0000001305
PCB_104	0.0000000364	0.0000000039	0.0000000623	0.0000000040
PCB_105	0.0000182764	-.0000011274	0.0000457091	0.0000004882
PCB_109	0.0000052988	-.0000001816	0.0000129940	0.0000003032
PCB_111	0.0000001121	-.0000000160	0.0000003011	0.0000000194
PCB_114	0.0000013177	-.0000000461	0.0000031111	0.0000000316
PCB_118	0.0000714902	-.0000032244	0.0001751049	0.0000038404
PCB_120	0.0000004256	-.0000000217	0.0000010883	0.0000000642
PCB_121	0.0000000401	0.0000000000	0.0000000927	0.0000000060
PCB_122	0.0000003271	-.0000000480	0.0000008709	0.0000000090
PCB_123	0.0000011024	-.0000000562	0.0000025796	0.0000000702
PCB_126	0.0000001132	0.0000000260	0.0000001325	-.0000000089
PCB_127	0.0000000874	-.0000000133	0.0000002520	-.0000000002
PCB_130	-.0000012006	-.0000009349	0.0000005362	-.0000001277
PCB_131	-.0000000483	-.0000000369	-.0000000908	-.0000000124
PCB_132	-.0000090857	-.0000013810	-.0000158028	-.0000009506
PCB_133	-.0000003443	-.0000002643	0.0000002401	-.0000000081
PCB_136	-.0000026923	0.0000002007	-.0000081764	-.0000002826
PCB_137	0.0000035740	-.0000002059	0.0000102561	0.0000000020
PCB_141	-.0000121454	-.0000025897	-.0000157482	-.0000011953
PCB_142	-.0000000329	-.0000000140	-.0000000050	-.0000000009
PCB_144	-.0000019181	-.0000003868	-.0000032301	-.0000002215

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_145	PCB 145	-.0000000001	0.0000000001	0.0000000001
PCB_146	PCB 146	-.0000001431	0.0000000200	0.0000000144
PCB_148	PCB 148	-.0000000001	0.0000000001	0.0000000001
PCB_150	PCB 150	0.0000000002	-.0000000001	-.0000000001
PCB_152	PCB 152	0.0000000001	-.0000000000	-.0000000000
PCB_154	PCB 154	-.0000000015	0.0000000010	0.0000000007
PCB_155	PCB 155	-.0000000003	0.0000000001	0.0000000001
PCB_158	PCB 158	-.0000000497	0.0000000064	0.0000000029
PCB_159	PCB 159	0.0000000003	0.0000000000	0.0000000000
PCB_161	PCB 161	0.0000000058	-.0000000082	-.0000000073
PCB_162	PCB 1611	-.0000000037	0.0000000003	0.0000000000
PCB_164	PCB 164	-.0000000774	0.0000000020	-.0000000017
PCB_165	PCB 165	0.0000000004	0.0000000002	0.0000000002
PCB_167	PCB 167	-.0000000183	0.0000000018	0.0000000007
PCB_169	PCB 169	-.0000000009	0.0000000001	0.0000000001
PCB_170	PCB 170	-.0000001085	0.0000000103	0.0000000014
PCB_172	PCB 172	-.0000000396	0.0000000033	0.0000000005
PCB_174	PCB 174	-.0000002334	0.0000000071	-.0000000053
PCB_175	PCB 175	-.0000000101	0.0000000007	0.0000000000
PCB_176	PCB 176	-.0000000202	0.0000000007	-.0000000005
PCB_177	PCB 177	-.0000001426	0.0000000074	-.0000000014
PCB_178	PCB 178	-.0000000660	0.0000000040	-.0000000001
PCB_179	PCB 179	-.0000000879	0.0000000031	-.0000000018
PCB_181	PCB 181	-.0000000010	0.0000000001	0.0000000000
PCB_182	PCB 182	-.0000000019	0.0000000002	0.0000000000
PCB_184	PCB 184	-.0000000003	0.0000000001	0.0000000001
PCB_186	PCB 186	-.0000000003	0.0000000001	0.0000000001
PCB_187	PCB 187	-.0000012726	0.0000000457	-.0000000215
PCB_188	PCB 188	-.0000000004	0.0000000001	0.0000000001
PCB_189	PCB 189	-.0000000052	0.0000000004	0.0000000001
PCB_190	PCB 190	-.0000000132	0.0000000020	0.0000000006
PCB_191	PCB 191	-.0000000070	0.0000000004	-.0000000000
PCB_192	PCB 192	-.0000000003	0.0000000001	0.0000000001
PCB_194	PCB 194	-.0000000358	0.0000000036	0.0000000008
PCB_195	PCB 195	-.0000000199	0.0000000017	0.0000000002
PCB_196	PCB 196	-.0000000261	0.0000000027	0.0000000006
PCB_201	PCB 201	-.0000000160	0.0000000011	0.0000000001
PCB_202	PCB 202	-.0000000212	0.0000000016	0.0000000001
PCB_203	PCB 203	-.0000000474	0.0000000043	0.0000000008
PCB_204	PCB 204	-.0000000003	0.0000000001	0.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_145	-.0000000055	0.0000000001	0.0000000002	-.0000000000	0.0000000013
PCB_146	-.0000043813	0.0000000108	-.0000002837	-.0000000399	-.0000003930
PCB_148	-.0000000070	0.0000000001	0.0000000005	-.0000000000	0.0000000029
PCB_150	0.0000000053	-.0000000001	-.0000000002	0.0000000000	-.0000000005
PCB_152	0.0000000016	-.0000000000	0.0000000001	-.0000000000	0.0000000002
PCB_154	-.0000000769	0.0000000010	0.0000000039	-.0000000003	0.0000000277
PCB_155	-.0000000091	0.0000000001	0.0000000001	-.0000000001	0.0000000009
PCB_158	-.0000011275	0.0000000065	-.0000000562	-.0000000093	0.0000000220
PCB_159	-.0000000036	-.0000000000	0.0000000008	-.0000000000	0.0000000010
PCB_161	0.0000012463	-.0000000018	0.0000000571	0.0000000152	0.0000000236
PCB_162	-.0000000671	0.0000000002	-.0000000027	-.0000000008	-.0000000067
PCB_164	-.0000011839	0.0000000012	-.0000001099	-.0000000128	-.0000002851
PCB_165	-.0000000075	0.0000000002	0.0000000016	0.0000000000	0.0000000059
PCB_167	-.0000003589	0.0000000020	-.0000000226	-.0000000033	-.0000000198
PCB_169	-.0000000165	0.0000000001	-.0000000008	-.0000000002	-.0000000023
PCB_170	-.0000016985	0.0000000079	-.0000001085	-.0000000200	-.0000003270
PCB_172	-.0000006280	0.0000000024	-.0000000586	-.0000000070	-.0000001582
PCB_174	-.0000033420	0.0000000015	-.0000003589	-.0000000409	-.0000011523
PCB_175	-.0000001613	0.0000000004	-.0000000140	-.0000000019	-.0000000419
PCB_176	-.0000002980	0.0000000002	-.0000000304	-.0000000036	-.0000000932
PCB_177	-.0000021489	0.0000000036	-.0000001977	-.0000000252	-.0000006194
PCB_178	-.0000010306	0.0000000021	-.0000000906	-.0000000119	-.0000002830
PCB_179	-.0000012816	0.0000000008	-.0000001301	-.0000000158	-.0000004182
PCB_181	-.0000000167	0.0000000001	-.0000000009	-.0000000002	-.0000000003
PCB_182	-.0000000261	0.0000000001	-.0000000015	-.0000000004	-.0000000072
PCB_184	-.0000000089	0.0000000001	0.0000000000	-.0000000001	0.0000000008
PCB_186	-.0000000096	0.0000000001	0.0000000000	-.0000000001	0.0000000008
PCB_187	-.0000187660	0.0000000125	-.0000019460	-.0000002240	-.0000063275
PCB_188	-.0000000094	0.0000000001	-.0000000000	-.0000000001	0.0000000005
PCB_189	-.0000000880	0.0000000003	-.0000000064	-.0000000009	-.0000000151
PCB_190	-.0000002340	0.0000000014	-.0000000122	-.0000000029	-.0000000391
PCB_191	-.0000001068	0.0000000002	-.0000000097	-.0000000013	-.0000000300
PCB_192	-.0000000083	0.0000000001	0.0000000001	-.0000000001	0.0000000008
PCB_194	-.0000006049	0.0000000024	-.0000000424	-.0000000068	-.0000001306
PCB_195	-.0000003200	0.0000000010	-.0000000254	-.0000000038	-.0000000809
PCB_196	-.0000004394	0.0000000017	-.0000000318	-.0000000051	-.0000001002
PCB_201	-.0000002515	0.0000000006	-.0000000224	-.0000000030	-.0000000720
PCB_202	-.0000003316	0.0000000008	-.0000000287	-.0000000040	-.0000000947
PCB_203	-.0000007734	0.0000000026	-.0000000591	-.0000000090	-.0000001921
PCB_204	-.0000000084	0.0000000001	0.0000000001	-.0000000001	0.0000000008

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

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The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_145	-.0000000000	-.0000000005	0.0000000011	0.0000000001	0.0000000004
PCB_146	-.0000000637	-.0000002758	0.0000007094	0.0000000061	-.0000000827
PCB_148	0.0000000000	-.0000000005	0.0000000008	0.0000000001	0.0000000007
PCB_150	0.0000000000	0.0000000007	-.0000000015	-.0000000001	-.0000000005
PCB_152	0.0000000000	0.0000000001	-.0000000005	-.0000000000	0.0000000000
PCB_154	0.0000000001	-.0000000061	0.0000000058	0.0000000009	0.0000000077
PCB_155	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000005
PCB_158	-.0000000135	-.0000000808	0.0000001054	0.0000000059	0.0000000031
PCB_159	0.0000000000	-.0000000005	-.0000000005	-.0000000000	0.0000000013
PCB_161	0.0000000166	0.0000000719	-.0000001711	0.0000000011	-.0000000163
PCB_162	-.0000000011	-.0000000065	0.0000000076	0.0000000003	0.0000000006
PCB_164	-.0000000240	-.0000000928	0.0000002006	0.0000000015	-.0000000687
PCB_165	0.0000000002	-.0000000007	0.0000000017	0.0000000002	0.0000000019
PCB_167	-.0000000054	-.0000000287	0.0000000397	0.0000000022	-.0000000018
PCB_169	-.0000000003	-.0000000015	0.0000000041	0.0000000001	-.0000000002
PCB_170	-.0000000325	-.0000001675	0.0000003526	0.0000000117	-.0000000387
PCB_172	-.0000000131	-.0000000526	0.0000001584	0.0000000034	-.0000000370
PCB_174	-.0000000796	-.0000002817	0.0000008006	0.0000000058	-.0000002595
PCB_175	-.0000000034	-.0000000139	0.0000000380	0.0000000006	-.0000000086
PCB_176	-.0000000068	-.0000000245	0.0000000662	0.0000000004	-.0000000216
PCB_177	-.0000000467	-.0000001851	0.0000005012	0.0000000064	-.0000001319
PCB_178	-.0000000218	-.0000000887	0.0000002452	0.0000000035	-.0000000587
PCB_179	-.0000000297	-.0000001087	0.0000003002	0.0000000023	-.0000000928
PCB_181	-.0000000002	-.0000000015	0.0000000013	0.0000000001	0.0000000002
PCB_182	-.0000000006	-.0000000031	0.0000000076	0.0000000003	-.0000000006
PCB_184	-.0000000001	-.0000000009	0.0000000020	0.0000000001	0.0000000004
PCB_186	-.0000000001	-.0000000010	0.0000000023	0.0000000001	0.0000000005
PCB_187	-.0000004378	-.0000015823	0.0000046074	0.0000000372	-.0000013866
PCB_188	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000004
PCB_189	-.0000000016	-.0000000072	0.0000000164	0.0000000004	-.0000000031
PCB_190	-.0000000043	-.0000000239	0.0000000554	0.0000000020	-.0000000022
PCB_191	-.0000000023	-.0000000095	0.0000000240	0.0000000004	-.0000000058
PCB_192	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000005
PCB_194	-.0000000116	-.0000000551	0.0000001449	0.0000000034	-.0000000210
PCB_195	-.0000000066	-.0000000292	0.0000000783	0.0000000016	-.0000000143
PCB_196	-.0000000087	-.0000000403	0.0000001085	0.0000000025	-.0000000163
PCB_201	-.0000000055	-.0000000221	0.0000000643	0.0000000010	-.0000000145
PCB_202	-.0000000072	-.0000000298	0.0000000853	0.0000000014	-.0000000182
PCB_203	-.0000000158	-.0000000709	0.0000001939	0.0000000041	-.0000000329
PCB_204	-.0000000001	-.0000000009	0.0000000022	0.0000000001	0.0000000005

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
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The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_145	0.0000000000	-.0000000066	-.0000000038	0.0000000017	0.0000000001
PCB_146	-.0000004404	-.0000055707	-.0000030015	-.0000007393	0.0000000160
PCB_148	-.0000000005	-.0000000097	-.0000000056	0.0000000016	0.0000000001
PCB_150	-.0000000002	0.0000000086	0.0000000035	-.0000000009	-.0000000001
PCB_152	0.0000000007	0.0000000048	0.0000000018	0.0000000020	-.0000000000
PCB_154	-.0000000063	-.0000001067	-.0000000600	0.0000000120	0.0000000010
PCB_155	0.0000000001	-.0000000111	-.0000000058	0.0000000021	0.0000000001
PCB_158	-.0000001865	-.0000017299	-.0000008361	-.0000003560	0.0000000056
PCB_159	0.0000000010	-.0000000090	-.0000000028	0.0000000029	0.0000000000
PCB_161	-.0000000065	0.0000009356	0.0000007620	-.0000002843	-.0000000063
PCB_162	-.0000000040	-.0000000998	-.0000000423	-.0000000080	0.0000000003
PCB_164	-.0000001525	-.0000017737	-.0000007666	-.0000004478	0.0000000013
PCB_165	0.0000000016	-.0000000049	-.0000000055	0.0000000101	0.0000000002
PCB_167	-.0000000630	-.0000006146	-.0000002646	-.0000001554	0.0000000015
PCB_169	-.0000000006	-.0000000225	-.0000000102	-.0000000011	0.0000000001
PCB_170	-.0000001172	-.0000026111	-.0000010498	-.0000003723	0.0000000087
PCB_172	-.0000000586	-.0000008829	-.0000003888	-.0000001829	0.0000000025
PCB_174	-.0000002925	-.0000047517	-.0000019806	-.0000011117	0.0000000039
PCB_175	-.0000000120	-.0000002251	-.0000000978	-.0000000392	0.0000000005
PCB_176	-.0000000259	-.0000004085	-.0000001773	-.0000000889	0.0000000004
PCB_177	-.0000001668	-.0000030292	-.0000012897	-.0000005766	0.0000000054
PCB_178	-.0000000743	-.0000014404	-.0000006205	-.0000002510	0.0000000031
PCB_179	-.0000000991	-.0000017698	-.0000007526	-.0000003667	0.0000000019
PCB_181	-.0000000032	-.0000000312	-.0000000126	-.0000000081	0.0000000001
PCB_182	0.0000000010	-.0000000352	-.0000000131	0.0000000006	0.0000000002
PCB_184	-.0000000001	-.0000000116	-.0000000058	0.0000000013	0.0000000001
PCB_186	0.0000000001	-.0000000117	-.0000000061	0.0000000020	0.0000000001
PCB_187	-.0000015663	-.0000268431	-.0000111990	-.0000059781	0.0000000276
PCB_188	-.0000000001	-.0000000124	-.0000000061	0.0000000011	0.0000000001
PCB_189	-.0000000100	-.0000001334	-.0000000583	-.0000000266	0.0000000003
PCB_190	-.0000000053	-.0000003276	-.0000001381	-.0000000156	0.0000000017
PCB_191	-.0000000091	-.0000001584	-.0000000651	-.0000000323	0.0000000003
PCB_192	0.0000000002	-.0000000107	-.0000000052	0.0000000021	0.0000000001
PCB_194	-.0000000345	-.0000008598	-.0000003690	-.0000001070	0.0000000029
PCB_195	-.0000000189	-.0000004539	-.0000001919	-.0000000661	0.0000000013
PCB_196	-.0000000219	-.0000006123	-.0000002637	-.0000000717	0.0000000022
PCB_201	-.0000000152	-.0000003462	-.0000001486	-.0000000557	0.0000000009
PCB_202	-.0000000179	-.0000004568	-.0000001944	-.0000000682	0.0000000012
PCB_203	-.0000000394	-.0000010827	-.0000004609	-.0000001386	0.0000000035
PCB_204	0.0000000002	-.0000000107	-.0000000052	0.0000000020	0.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_145	-.0000000001	0.0000000005	0.0000000018	0.0000000031	-.0000000015
PCB_146	-.0000002163	-.0000037751	-.0000047151	-.0000029074	-.0000046587
PCB_148	-.0000000005	0.0000000010	0.0000000022	0.0000000048	-.0000000018
PCB_150	0.0000000000	0.0000000005	0.0000000007	-.0000000020	0.0000000028
PCB_152	0.0000000003	0.0000000040	0.0000000077	0.0000000035	0.0000000047
PCB_154	-.0000000056	-.0000000000	0.0000000157	0.0000000339	-.0000000299
PCB_155	0.0000000000	-.0000000012	-.0000000008	0.0000000023	-.0000000045
PCB_158	-.0000000628	-.0000011812	-.0000016769	-.0000010310	-.0000015144
PCB_159	-.0000000012	0.0000000115	0.0000000238	0.0000000169	0.0000000109
PCB_161	0.0000000387	0.0000002711	-.0000003775	-.0000000440	0.0000004469
PCB_162	-.0000000030	-.0000000369	-.0000000340	-.0000000214	-.0000000530
PCB_164	-.0000000451	-.0000014353	-.0000020521	-.0000013145	-.0000016681
PCB_165	-.0000000005	0.0000000169	0.0000000299	0.0000000254	0.0000000137
PCB_167	-.0000000189	-.0000004450	-.0000006623	-.0000004096	-.0000005550
PCB_169	-.0000000002	-.0000000111	-.0000000150	-.0000000068	-.0000000153
PCB_170	-.0000000302	-.0000015124	-.0000021261	-.0000011963	-.0000019481
PCB_172	-.0000000031	-.0000007565	-.0000011454	-.0000006841	-.0000008983
PCB_174	-.0000000499	-.0000040665	-.0000058787	-.0000037085	-.0000046346
PCB_175	-.0000000022	-.0000001680	-.0000002397	-.0000001434	-.0000002010
PCB_176	-.0000000050	-.0000003428	-.0000004833	-.0000003099	-.0000003932
PCB_177	-.0000000353	-.0000023057	-.0000032856	-.0000019925	-.0000027138
PCB_178	-.0000000169	-.0000010597	-.0000015044	-.0000008929	-.0000012596
PCB_179	-.0000000186	-.0000014399	-.0000020315	-.0000012819	-.0000016564
PCB_181	-.0000000010	-.0000000206	-.0000000310	-.0000000190	-.0000000263
PCB_182	0.0000000007	-.0000000135	-.0000000161	-.0000000071	-.0000000198
PCB_184	-.0000000001	-.0000000023	-.0000000026	0.0000000009	-.0000000054
PCB_186	0.0000000000	-.0000000018	-.0000000014	0.0000000017	-.0000000052
PCB_187	-.0000003224	-.0000221434	-.0000320438	-.0000197417	-.0000253832
PCB_188	-.0000000001	-.0000000029	-.0000000034	0.0000000005	-.0000000060
PCB_189	-.0000000032	-.0000000937	-.0000001362	-.0000000795	-.0000001146
PCB_190	-.0000000006	-.0000001544	-.0000001987	-.0000000998	-.0000002155
PCB_191	-.0000000019	-.0000001191	-.0000001712	-.0000001048	-.0000001412
PCB_192	0.0000000001	-.0000000009	-.0000000007	0.0000000025	-.0000000040
PCB_194	-.0000000092	-.0000005304	-.0000007444	-.0000004055	-.0000006679
PCB_195	-.0000000038	-.0000003046	-.0000004308	-.0000002466	-.0000003734
PCB_196	-.0000000047	-.0000003828	-.0000005335	-.0000002940	-.0000004807
PCB_201	-.0000000023	-.0000002553	-.0000003641	-.0000002139	-.0000003046
PCB_202	-.0000000026	-.0000003243	-.0000004586	-.0000002669	-.0000003899
PCB_203	-.0000000082	-.0000006975	-.0000009784	-.0000005454	-.0000008638
PCB_204	0.0000000001	-.0000000009	-.0000000007	0.0000000024	-.0000000041

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_145	0.0000000001	0.0000000001	0.0000000006	0.0000000000	0.0000000000
PCB_146	-.0000000542	0.0000000061	0.0000001174	-.0000000129	0.0000000001
PCB_148	0.0000000001	0.0000000001	0.0000000008	0.0000000000	0.0000000000
PCB_150	-.0000000001	-.0000000001	-.0000000004	-.0000000000	-.0000000000
PCB_152	0.0000000001	-.0000000000	0.0000000001	0.0000000001	0.0000000000
PCB_154	0.0000000012	0.0000000009	0.0000000073	0.0000000003	0.0000000005
PCB_155	0.0000000001	0.0000000001	0.0000000006	0.0000000000	0.0000000001
PCB_158	-.0000000156	0.0000000059	-.0000000213	-.0000000091	-.0000000011
PCB_159	0.0000000003	-.0000000000	0.0000000025	0.0000000001	-.0000000000
PCB_161	-.0000000078	0.0000000011	-.0000001367	-.0000000102	-.0000000070
PCB_162	-.0000000004	0.0000000003	0.0000000022	-.0000000002	-.0000000001
PCB_164	-.0000000291	0.0000000015	-.0000000464	-.0000000113	-.0000000054
PCB_165	0.0000000006	0.0000000002	0.0000000029	0.0000000003	0.0000000002
PCB_167	-.0000000069	0.0000000022	-.0000000136	-.0000000043	-.0000000011
PCB_169	-.0000000001	0.0000000001	0.0000000003	-.0000000000	0.0000000000
PCB_170	-.0000000252	0.0000000117	-.0000000204	-.0000000117	-.0000000045
PCB_172	-.0000000142	0.0000000034	-.0000000277	-.0000000050	-.0000000015
PCB_174	-.0000000878	0.0000000058	-.0000001346	-.0000000290	-.0000000153
PCB_175	-.0000000032	0.0000000006	-.0000000035	-.0000000011	-.0000000004
PCB_176	-.0000000072	0.0000000004	-.0000000105	-.0000000023	-.0000000012
PCB_177	-.0000000469	0.0000000064	-.0000000560	-.0000000152	-.0000000075
PCB_178	-.0000000211	0.0000000035	-.0000000200	-.0000000066	-.0000000031
PCB_179	-.0000000305	0.0000000023	-.0000000405	-.0000000095	-.0000000051
PCB_181	-.0000000003	0.0000000001	-.0000000008	-.0000000002	-.0000000001
PCB_182	-.0000000002	0.0000000003	0.0000000003	-.0000000000	-.0000000000
PCB_184	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000000
PCB_186	0.0000000001	0.0000000001	0.0000000006	0.0000000000	0.0000000001
PCB_187	-.0000004771	0.0000000372	-.0000006158	-.0000001550	-.0000000825
PCB_188	0.0000000000	0.0000000001	0.0000000005	0.0000000000	0.0000000000
PCB_189	-.0000000017	0.0000000004	-.0000000019	-.0000000007	-.0000000003
PCB_190	-.0000000019	0.0000000020	0.0000000032	-.0000000007	-.0000000001
PCB_191	-.0000000024	0.0000000004	-.0000000031	-.0000000009	-.0000000004
PCB_192	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000001
PCB_194	-.0000000093	0.0000000034	-.0000000016	-.0000000031	-.0000000011
PCB_195	-.0000000057	0.0000000016	-.0000000038	-.0000000019	-.0000000008
PCB_196	-.0000000067	0.0000000025	-.0000000012	-.0000000021	-.0000000008
PCB_201	-.0000000050	0.0000000010	-.0000000047	-.0000000015	-.0000000007
PCB_202	-.0000000063	0.0000000014	-.0000000050	-.0000000019	-.0000000009
PCB_203	-.0000000128	0.0000000041	-.0000000047	-.0000000040	-.0000000017
PCB_204	0.0000000001	0.0000000001	0.0000000005	0.0000000000	0.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_145	-.0000000053	0.0000000011	-.0000000005	0.0000000000	-.0000000654
PCB_146	-.0000036002	0.0000001629	-.0000005336	-.0000000569	-.0000668156
PCB_148	-.0000000064	0.0000000010	-.0000000009	-.0000000006	-.0000000852
PCB_150	0.0000000067	-.0000000012	0.0000000003	-.0000000003	0.0000000836
PCB_152	0.0000000021	0.0000000005	0.0000000004	0.0000000001	0.0000000438
PCB_154	-.0000000814	0.0000000098	-.0000000108	-.0000000060	-.0000010545
PCB_155	-.0000000091	0.0000000017	-.0000000006	0.0000000002	-.0000001136
PCB_158	-.0000012743	-.0000000286	-.0000001811	-.0000000834	-.0000196597
PCB_159	-.0000000030	0.0000000027	0.0000000001	0.0000000008	-.0000000953
PCB_161	0.0000008464	-.0000002205	0.0000001130	-.0000000418	0.0000146722
PCB_162	-.0000000672	0.0000000064	-.0000000059	-.0000000013	-.0000011517
PCB_164	-.0000010462	-.0000000271	-.0000001293	-.0000000362	-.0000204482
PCB_165	-.0000000040	0.0000000042	-.0000000002	0.0000000005	-.0000000246
PCB_167	-.0000004466	-.0000000156	-.0000000570	-.0000000217	-.0000069552
PCB_169	-.0000000145	0.0000000017	-.0000000011	0.0000000004	-.0000002464
PCB_170	-.0000017167	0.0000000994	-.0000001342	0.0000000069	-.0000290652
PCB_172	-.0000005676	0.0000000056	-.0000000555	0.0000000044	-.0000100514
PCB_174	-.0000026666	0.0000000248	-.0000002533	0.0000000391	-.0000552710
PCB_175	-.0000001368	0.0000000058	-.0000000125	0.0000000019	-.0000025786
PCB_176	-.0000002337	0.0000000036	-.0000000236	0.0000000009	-.0000047928
PCB_177	-.0000017481	0.0000000602	-.0000001613	0.0000000196	-.0000346531
PCB_178	-.0000008335	0.0000000380	-.0000000759	0.0000000131	-.0000164059
PCB_179	-.0000009976	0.0000000284	-.0000000922	0.0000000147	-.0000206340
PCB_181	-.0000000230	-.0000000009	-.0000000028	-.0000000014	-.0000003459
PCB_182	-.0000000237	0.0000000044	-.0000000002	0.0000000017	-.0000003917
PCB_184	-.0000000089	0.0000000014	-.0000000007	0.0000000001	-.0000001189
PCB_186	-.0000000098	0.0000000018	-.0000000006	0.0000000002	-.0000001229
PCB_187	-.0000148013	0.0000002728	-.0000013943	0.0000003008	-.0003093592
PCB_188	-.0000000092	0.0000000014	-.0000000007	0.0000000001	-.0000001280
PCB_189	-.0000000822	0.0000000005	-.0000000094	-.0000000019	-.0000014875
PCB_190	-.0000002296	0.0000000272	-.0000000138	0.0000000074	-.0000036847
PCB_191	-.0000000965	0.0000000025	-.0000000087	0.0000000010	-.0000018174
PCB_192	-.0000000088	0.0000000017	-.0000000004	0.0000000002	-.0000001062
PCB_194	-.0000005294	0.0000000398	-.0000000432	0.0000000112	-.0000096032
PCB_195	-.0000002775	0.0000000183	-.0000000221	0.0000000069	-.0000051349
PCB_196	-.0000003805	0.0000000315	-.0000000294	0.0000000107	-.0000068930
PCB_201	-.0000002038	0.0000000120	-.0000000168	0.0000000060	-.0000039527
PCB_202	-.0000002701	0.0000000187	-.0000000209	0.0000000090	-.0000052065
PCB_203	-.0000006567	0.0000000521	-.0000000502	0.0000000198	-.0000121933
PCB_204	-.0000000088	0.0000000017	-.0000000004	0.0000000002	-.0000001066

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_145	-.0000000007	-.0000000001	-.0000000013	0.0000000007	0.0000000002
PCB_146	-.0000005546	-.0000000752	0.0000003950	-.0000008058	-.0000002590
PCB_148	-.0000000009	-.0000000002	-.0000000025	0.0000000011	0.0000000003
PCB_150	0.0000000006	-.0000000003	0.0000000021	-.0000000002	0.0000000001
PCB_152	0.0000000002	-.0000000002	0.0000000000	0.0000000009	0.0000000003
PCB_154	-.0000000098	-.0000000022	-.0000000312	0.0000000092	0.0000000019
PCB_155	-.0000000010	0.0000000001	-.0000000018	0.0000000004	0.0000000000
PCB_158	-.0000001361	0.0000000020	-.0000002239	-.0000002253	-.0000000908
PCB_159	-.0000000005	-.0000000005	-.0000000022	0.0000000020	0.0000000003
PCB_161	0.0000001668	0.0000000921	-.0000001969	0.0000000101	-.0000000085
PCB_162	-.0000000074	0.0000000001	-.0000000109	-.0000000105	-.0000000050
PCB_164	-.0000001340	0.0000000229	0.0000000795	-.0000003851	-.0000001360
PCB_165	-.0000000011	-.0000000008	-.0000000024	0.0000000057	0.0000000019
PCB_167	-.0000000415	0.0000000084	-.0000000829	-.0000000953	-.0000000396
PCB_169	-.0000000018	0.0000000004	0.0000000003	-.0000000027	-.0000000010
PCB_170	-.0000001802	0.0000000585	-.0000001187	-.0000004028	-.0000001641
PCB_172	-.0000000692	0.0000000222	0.0000000639	-.0000001889	-.0000000651
PCB_174	-.0000003649	0.0000001041	0.0000006235	-.0000011654	-.0000003972
PCB_175	-.0000000178	0.0000000043	0.0000000178	-.0000000452	-.0000000158
PCB_176	-.0000000329	0.0000000068	0.0000000516	-.0000000971	-.0000000328
PCB_177	-.0000002358	0.0000000592	0.0000002931	-.0000006474	-.0000002244
PCB_178	-.0000001138	0.0000000272	0.0000001393	-.0000002946	-.0000001019
PCB_179	-.0000001403	0.0000000335	0.0000002308	-.0000004158	-.0000001414
PCB_181	-.0000000019	0.0000000005	-.0000000062	-.0000000045	-.0000000020
PCB_182	-.0000000025	0.0000000012	-.0000000003	-.0000000047	-.0000000020
PCB_184	-.0000000010	0.0000000001	-.0000000017	0.0000000001	-.0000000001
PCB_186	-.0000000011	0.0000000001	-.0000000019	0.0000000003	-.0000000000
PCB_187	-.0000020621	0.0000005842	0.0000035655	-.0000063500	-.0000021609
PCB_188	-.0000000011	0.0000000001	-.0000000015	-.0000000002	-.0000000002
PCB_189	-.0000000100	0.0000000020	0.0000000004	-.0000000234	-.0000000086
PCB_190	-.0000000248	0.0000000067	-.0000000135	-.0000000396	-.0000000169
PCB_191	-.0000000116	0.0000000035	0.0000000084	-.0000000329	-.0000000119
PCB_192	-.0000000009	0.0000000002	-.0000000021	0.0000000004	0.0000000000
PCB_194	-.0000000665	0.0000000167	0.0000000338	-.0000001412	-.0000000519
PCB_195	-.0000000348	0.0000000097	0.0000000268	-.0000000833	-.0000000301
PCB_196	-.0000000481	0.0000000122	0.0000000310	-.0000001027	-.0000000374
PCB_201	-.0000000275	0.0000000074	0.0000000369	-.0000000709	-.0000000245
PCB_202	-.0000000361	0.0000000100	0.0000000457	-.0000000911	-.0000000318
PCB_203	-.0000000843	0.0000000227	0.0000000701	-.0000001916	-.0000000691
PCB_204	-.0000000009	0.0000000002	-.0000000021	0.0000000004	-.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_145	0.0000000005	0.0000000008	-.0000000085	0.0000000116	0.0000000004
PCB_146	0.0000009349	-.0000004048	-.0000030923	-.0000055587	-.0000008746
PCB_148	-.0000000001	0.0000000014	-.0000000114	0.0000000220	0.0000000005
PCB_150	-.0000000003	-.0000000003	0.0000000101	-.0000000013	-.0000000000
PCB_152	-.0000000003	0.0000000008	0.0000000010	0.0000000127	0.0000000010
PCB_154	-.0000000042	0.0000000140	-.0000001410	0.0000002341	0.0000000025
PCB_155	0.0000000012	0.0000000007	-.0000000133	0.0000000082	0.0000000002
PCB_158	0.0000000644	-.0000000840	-.0000015605	-.0000008219	-.0000002611
PCB_159	-.0000000014	0.0000000013	-.0000000057	0.0000000212	0.0000000007
PCB_161	-.0000002872	-.0000000675	0.0000008637	-.0000013641	0.0000000315
PCB_162	0.0000000052	-.0000000041	-.0000000805	-.0000000460	-.0000000133
PCB_164	0.0000002542	-.0000002390	-.0000007773	-.0000035117	-.0000003895
PCB_165	0.0000000002	0.0000000047	-.0000000128	0.0000000663	0.0000000046
PCB_167	0.0000000183	-.0000000493	-.0000005228	-.0000006226	-.0000001046
PCB_169	0.0000000038	-.0000000016	-.0000000141	-.0000000280	-.0000000028
PCB_170	0.0000002942	-.0000002470	-.0000017350	-.0000038952	-.0000004184
PCB_172	0.0000001741	-.0000001260	-.0000004227	-.0000020281	-.0000001769
PCB_174	0.0000010198	-.0000008091	-.0000013138	-.0000128116	-.0000011082
PCB_175	0.0000000433	-.0000000299	-.0000000978	-.0000004795	-.0000000438
PCB_176	0.0000000867	-.0000000645	-.0000001276	-.0000010073	-.0000000931
PCB_177	0.0000005991	-.0000004346	-.0000011047	-.0000069324	-.0000006283
PCB_178	0.0000002884	-.0000001978	-.0000005390	-.0000031876	-.0000002866
PCB_179	0.0000003839	-.0000002828	-.0000005214	-.0000044826	-.0000003979
PCB_181	-.0000000005	-.0000000021	-.0000000294	-.0000000248	-.0000000051
PCB_182	0.0000000064	-.0000000032	-.0000000235	-.0000000593	-.0000000045
PCB_184	0.0000000011	0.0000000004	-.0000000126	0.0000000049	-.0000000002
PCB_186	0.0000000013	0.0000000006	-.0000000141	0.0000000075	0.0000000001
PCB_187	0.0000057799	-.0000044609	-.0000071419	-.0000713296	-.0000060687
PCB_188	0.0000000013	0.0000000003	-.0000000124	0.0000000017	-.0000000004
PCB_189	0.0000000171	-.0000000142	-.0000000732	-.0000002143	-.0000000243
PCB_190	0.0000000454	-.0000000233	-.0000002451	-.0000003992	-.0000000409
PCB_191	0.0000000265	-.0000000221	-.0000000713	-.0000003474	-.0000000322
PCB_192	0.0000000010	0.0000000006	-.0000000132	0.0000000068	0.0000000002
PCB_194	0.0000001476	-.0000000921	-.0000004423	-.0000015220	-.0000001414
PCB_195	0.0000000832	-.0000000559	-.0000002134	-.0000009150	-.0000000815
PCB_196	0.0000001121	-.0000000677	-.0000003106	-.0000011265	-.0000001013
PCB_201	0.0000000741	-.0000000487	-.0000001296	-.0000008002	-.0000000678
PCB_202	0.0000000966	-.0000000627	-.0000001774	-.0000010345	-.0000000872
PCB_203	0.0000002057	-.0000001290	-.0000005020	-.0000021441	-.0000001877
PCB_204	0.0000000010	0.0000000006	-.0000000132	0.0000000067	0.0000000002

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_145	0.0000000013	0.0000000016	0.0000000006	0.0000000001	-.0000000000
PCB_146	-.0000016662	-.0000027173	0.0000003744	0.0000000219	-.0000002110
PCB_148	0.0000000027	0.0000000030	0.0000000004	0.0000000001	-.0000000004
PCB_150	-.0000000005	-.0000000010	-.0000000007	-.0000000000	0.0000000007
PCB_152	0.0000000018	0.0000000024	-.0000000002	-.0000000000	0.0000000010
PCB_154	0.0000000257	0.0000000247	0.0000000013	0.0000000008	-.0000000011
PCB_155	0.0000000008	0.0000000010	0.0000000010	0.0000000001	-.0000000002
PCB_158	-.0000003131	-.0000006099	-.0000000004	0.0000000036	-.0000000644
PCB_159	0.0000000032	0.0000000047	0.0000000009	-.0000000001	-.0000000018
PCB_161	0.0000001448	0.0000003399	-.0000001358	-.0000000098	-.0000001747
PCB_162	-.0000000151	-.0000000269	0.0000000037	-.0000000003	-.0000000070
PCB_164	-.0000006918	-.0000010516	0.0000000823	-.0000000021	-.0000001735
PCB_165	0.0000000097	0.0000000137	0.0000000017	0.0000000002	0.0000000008
PCB_167	-.0000001422	-.0000002457	0.0000000004	-.0000000000	-.0000000387
PCB_169	-.0000000055	-.0000000077	0.0000000021	0.0000000000	-.0000000019
PCB_170	-.0000007070	-.0000010313	0.0000001522	-.0000000039	-.0000002522
PCB_172	-.0000003678	-.0000005245	0.0000000675	0.0000000007	-.0000000789
PCB_174	-.0000022942	-.0000032419	0.0000003991	-.0000000079	-.0000005465
PCB_175	-.0000000888	-.0000001265	0.0000000185	-.0000000001	-.0000000220
PCB_176	-.0000001888	-.0000002719	0.0000000328	-.0000000005	-.0000000419
PCB_177	-.0000012647	-.0000017971	0.0000002505	-.0000000029	-.0000003286
PCB_178	-.0000005833	-.0000008253	0.0000001249	-.0000000008	-.0000001542
PCB_179	-.0000008195	-.0000011624	0.0000001537	-.0000000026	-.0000001943
PCB_181	-.0000000056	-.0000000104	-.0000000005	-.0000000000	-.0000000022
PCB_182	-.0000000092	-.0000000114	0.0000000040	-.0000000001	-.0000000037
PCB_184	0.0000000002	0.0000000001	0.0000000009	0.0000000001	-.0000000004
PCB_186	0.0000000006	0.0000000006	0.0000000011	0.0000000001	-.0000000002
PCB_187	-.0000126799	-.0000177850	0.0000023704	-.0000000369	-.0000032003
PCB_188	-.0000000003	-.0000000005	0.0000000010	0.0000000001	-.0000000006
PCB_189	-.0000000421	-.0000000638	0.0000000068	0.0000000000	-.0000000126
PCB_190	-.0000000752	-.0000001054	0.0000000269	-.0000000001	-.0000000254
PCB_191	-.0000000627	-.0000000897	0.0000000112	-.0000000002	-.0000000166
PCB_192	0.0000000009	0.0000000013	0.0000000010	0.0000000001	-.0000000004
PCB_194	-.0000002786	-.0000003922	0.0000000729	0.0000000000	-.0000000860
PCB_195	-.0000001648	-.0000002308	0.0000000392	-.0000000002	-.0000000466
PCB_196	-.0000002057	-.0000002872	0.0000000552	-.0000000000	-.0000000597
PCB_201	-.0000001437	-.0000001998	0.0000000330	-.0000000001	-.0000000368
PCB_202	-.0000001847	-.0000002556	0.0000000443	-.0000000003	-.0000000488
PCB_203	-.0000003853	-.0000005347	0.0000000999	-.0000000003	-.0000001121
PCB_204	0.0000000009	0.0000000013	0.0000000010	0.0000000001	-.0000000004

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_145	-.0000000000	-.0000000048	0.0000000013	-.0000000066	-.0000000001
PCB_146	0.0000000351	0.0000003735	0.0000000167	-.0000026125	0.0000000487
PCB_148	-.0000000000	-.0000000070	0.0000000023	-.0000000129	-.0000000003
PCB_150	0.0000000000	0.0000000066	0.0000000014	0.0000000090	0.0000000001
PCB_152	0.0000000000	0.0000000007	0.0000000023	0.0000000044	0.0000000000
PCB_154	-.0000000003	-.0000000638	0.0000000236	-.0000001477	-.0000000035
PCB_155	0.0000000000	-.0000000074	0.0000000008	-.0000000099	-.0000000001
PCB_158	0.0000000039	-.0000001417	-.0000001018	-.0000018071	-.0000000241
PCB_159	-.0000000002	-.0000000071	0.0000000001	-.0000000057	-.0000000002
PCB_161	-.0000000150	-.0000002799	-.0000005737	-.0000002067	-.0000000247
PCB_162	-.0000000000	-.0000000207	-.0000000067	-.0000000774	-.0000000006
PCB_164	0.0000000073	0.0000000947	-.0000003200	-.0000009655	0.0000000149
PCB_165	-.0000000001	-.0000000141	0.0000000083	-.0000000056	-.0000000002
PCB_167	0.0000000007	-.0000000540	-.0000001064	-.0000006362	-.0000000076
PCB_169	0.0000000001	-.0000000057	-.0000000027	-.0000000113	0.0000000002
PCB_170	0.0000000040	-.0000005167	-.0000005194	-.0000017339	0.0000000105
PCB_172	0.0000000051	-.0000000207	-.0000001919	-.0000003952	0.0000000146
PCB_174	0.0000000269	0.0000003258	-.0000011429	-.0000012691	0.0000001050
PCB_175	0.0000000011	-.0000000082	-.0000000432	-.0000000865	0.0000000038
PCB_176	0.0000000025	0.0000000315	-.0000000795	-.0000001148	0.0000000085
PCB_177	0.0000000147	-.0000000326	-.0000006171	-.0000010375	0.0000000556
PCB_178	0.0000000070	-.0000000447	-.0000002806	-.0000004858	0.0000000267
PCB_179	0.0000000101	0.0000000921	-.0000003725	-.0000004476	0.0000000392
PCB_181	-.0000000000	-.0000000051	-.0000000060	-.0000000373	-.0000000006
PCB_182	0.0000000001	-.0000000135	-.0000000074	-.0000000129	0.0000000006
PCB_184	0.0000000000	-.0000000065	0.0000000003	-.0000000103	-.0000000001
PCB_186	0.0000000000	-.0000000072	0.0000000008	-.0000000102	-.0000000001
PCB_187	0.0000001448	0.0000012342	-.0000064678	-.0000069754	0.0000005973
PCB_188	0.0000000000	-.0000000066	-.0000000000	-.0000000103	-.0000000000
PCB_189	0.0000000004	-.0000000099	-.0000000225	-.0000000852	0.0000000006
PCB_190	0.0000000007	-.0000000920	-.0000000501	-.0000001892	0.0000000026
PCB_191	0.0000000006	-.0000000052	-.0000000362	-.0000000712	0.0000000022
PCB_192	-.0000000000	-.0000000079	0.0000000002	-.0000000101	-.0000000001
PCB_194	0.0000000030	-.0000001266	-.0000001542	-.0000003914	0.0000000114
PCB_195	0.0000000018	-.0000000472	-.0000000910	-.0000001835	0.0000000072
PCB_196	0.0000000024	-.0000000861	-.0000001101	-.0000002529	0.0000000094
PCB_201	0.0000000018	-.0000000156	-.0000000713	-.0000001018	0.0000000073
PCB_202	0.0000000022	-.0000000300	-.0000000941	-.0000001353	0.0000000095
PCB_203	0.0000000043	-.0000001333	-.0000002086	-.0000004104	0.0000000183
PCB_204	-.0000000000	-.0000000079	0.0000000002	-.0000000101	-.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_145	0.0000000088	0.0000000003	-.0000000375	-.0000000003	0.0000000457
PCB_146	-.0000089202	-.0000001396	-.0000120897	-.0000001866	-.0000184324
PCB_148	0.0000000190	0.0000000005	-.0000000538	-.0000000006	0.0000000847
PCB_150	-.0000000004	-.0000000001	0.0000000482	0.0000000004	-.0000000390
PCB_152	0.0000000132	0.0000000004	0.0000000117	0.0000000002	0.0000000262
PCB_154	0.0000002152	0.0000000046	-.0000006049	-.0000000067	0.0000010639
PCB_155	0.0000000039	0.0000000003	-.0000000597	-.0000000005	0.0000000472
PCB_158	-.0000010424	-.0000000540	-.0000064322	-.0000000893	0.0000038287
PCB_159	0.0000000169	0.0000000011	-.0000000216	-.0000000001	0.0000000600
PCB_161	-.0000000565	-.0000000637	0.0000016669	0.0000000121	0.0000007369
PCB_162	-.0000000729	-.0000000007	-.0000003167	-.0000000036	0.0000000984
PCB_164	-.0000042111	-.0000000927	-.0000034601	-.0000000578	-.0000087105
PCB_165	0.0000000572	0.0000000021	-.0000000580	-.0000000003	0.0000001550
PCB_167	-.0000006453	-.0000000273	-.0000022280	-.0000000302	0.0000007669
PCB_169	-.0000000391	-.0000000005	-.0000000665	-.0000000007	-.0000000724
PCB_170	-.0000046360	-.0000000935	-.0000078615	-.0000000857	-.0000060484
PCB_172	-.0000024212	-.0000000517	-.0000020508	-.0000000258	-.0000053416
PCB_174	-.0000154053	-.0000002890	-.0000066222	-.0000001042	-.0000395455
PCB_175	-.0000005929	-.0000000108	-.0000004617	-.0000000058	-.0000013767
PCB_176	-.0000012383	-.0000000226	-.0000005904	-.0000000094	-.0000031592
PCB_177	-.0000085274	-.0000001529	-.0000053788	-.0000000736	-.0000208574
PCB_178	-.0000039683	-.0000000689	-.0000026433	-.0000000348	-.0000097505
PCB_179	-.0000055023	-.0000000970	-.0000025159	-.0000000378	-.0000142413
PCB_181	-.0000000218	-.0000000013	-.0000001258	-.0000000017	0.0000000927
PCB_182	-.0000000753	-.0000000007	-.0000001076	-.0000000006	-.0000001442
PCB_184	0.0000000008	0.0000000001	-.0000000568	-.0000000005	0.0000000387
PCB_186	0.0000000032	0.0000000002	-.0000000620	-.0000000005	0.0000000485
PCB_187	-.0000863625	-.0000015785	-.0000376200	-.0000005801	-.0002241963
PCB_188	-.0000000030	0.0000000001	-.0000000570	-.0000000005	0.0000000273
PCB_189	-.0000002616	-.0000000058	-.0000003400	-.0000000047	-.0000004516
PCB_190	-.0000005206	-.0000000074	-.0000010812	-.0000000095	-.0000006444
PCB_191	-.0000004137	-.0000000082	-.0000003335	-.0000000043	-.0000008949
PCB_192	0.0000000036	0.0000000002	-.0000000604	-.0000000004	0.0000000495
PCB_194	-.0000019272	-.0000000321	-.0000021113	-.0000000234	-.0000040830
PCB_195	-.0000011345	-.0000000196	-.0000010201	-.0000000115	-.0000025404
PCB_196	-.0000014300	-.0000000231	-.0000014724	-.0000000157	-.0000031340
PCB_201	-.0000009948	-.0000000169	-.0000006434	-.0000000077	-.0000024841
PCB_202	-.0000012894	-.0000000213	-.0000008751	-.0000000100	-.0000031935
PCB_203	-.0000026981	-.0000000438	-.0000024273	-.0000000264	-.0000061944
PCB_204	0.0000000036	0.0000000002	-.0000000605	-.0000000004	0.0000000496

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_145	-.0000000008	0.0000000000	0.0000000116	0.0000000036	0.0000000003
PCB_146	-.0000010320	-.0000000175	0.0000001822	-.0000019499	-.0000001351
PCB_148	-.0000000008	0.0000000000	0.0000000320	0.0000000096	0.0000000004
PCB_150	0.0000000015	0.0000000000	-.0000000102	-.0000000042	-.0000000003
PCB_152	0.0000000011	0.0000000000	-.0000000007	0.0000000001	0.0000000001
PCB_154	-.0000000085	0.0000000005	0.0000004698	0.0000001238	0.0000000037
PCB_155	-.0000000018	0.0000000000	0.0000000104	0.0000000030	0.0000000003
PCB_158	-.0000002857	-.0000000039	0.0000054631	0.0000008639	-.0000000163
PCB_159	0.0000000004	0.0000000001	-.0000000035	0.0000000052	0.0000000004
PCB_161	0.0000001164	-.0000000016	0.0000008960	0.0000007717	0.0000000165
PCB_162	-.0000000145	-.0000000002	0.0000001364	0.0000000168	-.0000000001
PCB_164	-.0000003635	-.0000000096	-.0000001493	-.0000006724	-.0000000506
PCB_165	0.0000000011	0.0000000002	-.0000000006	0.0000000081	0.0000000011
PCB_167	-.0000001115	-.0000000022	0.0000017607	0.0000002762	-.0000000073
PCB_169	-.0000000045	-.0000000001	-.0000000214	-.0000000091	-.0000000002
PCB_170	-.0000005178	-.0000000119	0.0000003667	-.0000004261	-.0000000248
PCB_172	-.0000002119	-.0000000057	-.0000008726	-.0000005211	-.0000000232
PCB_174	-.0000011231	-.0000000337	-.0000092270	-.0000040777	-.0000001640
PCB_175	-.0000000504	-.0000000013	-.0000002967	-.0000001445	-.0000000055
PCB_176	-.0000000931	-.0000000027	-.0000006940	-.0000003322	-.0000000136
PCB_177	-.0000006787	-.0000000186	-.0000048099	-.0000021798	-.0000000829
PCB_178	-.0000003215	-.0000000086	-.0000023918	-.0000010411	-.0000000373
PCB_179	-.0000004076	-.0000000119	-.0000035113	-.0000015260	-.0000000575
PCB_181	-.0000000053	-.0000000001	0.0000001137	0.0000000217	-.0000000002
PCB_182	-.0000000076	-.0000000002	-.0000000722	-.0000000220	0.0000000000
PCB_184	-.0000000019	-.0000000000	0.0000000124	0.0000000031	0.0000000003
PCB_186	-.0000000019	-.0000000000	0.0000000124	0.0000000031	0.0000000003
PCB_187	-.0000063142	-.0000001865	-.0000557979	-.0000233161	-.0000008963
PCB_188	-.0000000021	-.0000000000	0.0000000080	0.0000000019	0.0000000002
PCB_189	-.0000000267	-.0000000006	0.0000000238	-.0000000304	-.0000000026
PCB_190	-.0000000654	-.0000000013	-.0000001250	-.0000000838	-.0000000008
PCB_191	-.0000000350	-.0000000010	-.0000001473	-.0000000848	-.0000000039
PCB_192	-.0000000018	-.0000000000	0.0000000105	0.0000000036	0.0000000004
PCB_194	-.0000001826	-.0000000043	-.0000009666	-.0000004388	-.0000000137
PCB_195	-.0000001000	-.0000000026	-.0000006179	-.0000002729	-.0000000090
PCB_196	-.0000001327	-.0000000032	-.0000008227	-.0000003521	-.0000000102
PCB_201	-.0000000799	-.0000000022	-.0000006817	-.0000002756	-.0000000089
PCB_202	-.0000001047	-.0000000028	-.0000009084	-.0000003592	-.0000000110
PCB_203	-.0000002381	-.0000000060	-.0000016958	-.0000006920	-.0000000203
PCB_204	-.0000000018	-.0000000000	0.0000000107	0.0000000036	0.0000000004

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_145	0.0000000006	0.0000000556	0.0000000008	0.0000000001	0.0000000005
PCB_146	0.0000000909	-.0000180571	-.0000003827	-.0000000356	0.0000001602
PCB_148	0.0000000021	0.0000001296	0.0000000012	0.0000000001	0.0000000009
PCB_150	-.0000000003	-.0000000540	-.0000000007	-.0000000000	-.0000000003
PCB_152	-.0000000001	0.0000000104	0.0000000004	0.0000000000	0.0000000000
PCB_154	0.0000000313	0.0000017186	0.0000000118	0.0000000009	0.0000000124
PCB_155	0.0000000003	0.0000000536	0.0000000010	0.0000000001	0.0000000005
PCB_158	0.0000003839	0.0000132410	-.0000000566	-.0000000061	0.0000001278
PCB_159	-.0000000000	0.0000000365	0.0000000010	0.0000000001	0.0000000003
PCB_161	0.0000000375	0.0000057604	0.0000000212	0.0000000020	-.0000000675
PCB_162	0.0000000094	0.0000002893	-.0000000027	-.0000000003	0.0000000038
PCB_164	0.0000000057	-.0000074963	-.0000001821	-.0000000160	0.0000000070
PCB_165	-.0000000004	0.0000001106	0.0000000037	0.0000000003	0.0000000008
PCB_167	0.0000001218	0.0000040479	-.0000000283	-.0000000030	0.0000000372
PCB_169	-.0000000017	-.0000001032	-.0000000008	-.0000000001	-.0000000001
PCB_170	0.0000000016	-.0000042321	-.0000001331	-.0000000132	0.0000000173
PCB_172	-.0000000647	-.0000059808	-.0000000821	-.0000000075	-.0000000114
PCB_174	-.0000006171	-.0000500222	-.0000005909	-.0000000515	-.0000001573
PCB_175	-.0000000208	-.0000017109	-.0000000205	-.0000000018	-.0000000039
PCB_176	-.0000000456	-.0000039771	-.0000000490	-.0000000042	-.0000000106
PCB_177	-.0000003286	-.0000264011	-.0000003084	-.0000000272	-.0000000735
PCB_178	-.0000001648	-.0000126262	-.0000001387	-.0000000123	-.0000000350
PCB_179	-.0000002355	-.0000185680	-.0000002098	-.0000000182	-.0000000568
PCB_181	0.0000000078	0.0000002994	-.0000000010	-.0000000001	0.0000000022
PCB_182	-.0000000060	-.0000002648	-.0000000012	-.0000000001	-.0000000013
PCB_184	0.0000000005	0.0000000519	0.0000000007	0.0000000000	0.0000000005
PCB_186	0.0000000004	0.0000000572	0.0000000009	0.0000000001	0.0000000005
PCB_187	-.0000037482	-.0002891271	-.0000032194	-.0000002826	-.0000009375
PCB_188	0.0000000002	0.0000000350	0.0000000006	0.0000000000	0.0000000004
PCB_189	0.0000000019	-.0000003170	-.0000000095	-.0000000009	0.0000000014
PCB_190	-.0000000142	-.0000008421	-.0000000095	-.0000000011	0.0000000007
PCB_191	-.0000000103	-.0000010118	-.0000000149	-.0000000013	-.0000000021
PCB_192	0.0000000003	0.0000000578	0.0000000010	0.0000000001	0.0000000004
PCB_194	-.0000000721	-.0000052217	-.0000000564	-.0000000053	-.0000000110
PCB_195	-.0000000450	-.0000032779	-.0000000357	-.0000000033	-.0000000085
PCB_196	-.0000000612	-.0000041893	-.0000000416	-.0000000039	-.0000000102
PCB_201	-.0000000480	-.0000033545	-.0000000332	-.0000000030	-.0000000104
PCB_202	-.0000000645	-.0000043797	-.0000000419	-.0000000038	-.0000000140
PCB_203	-.0000001237	-.0000083691	-.0000000814	-.0000000075	-.0000000236
PCB_204	0.0000000003	0.0000000583	0.0000000010	0.0000000001	0.0000000004

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_145	0.0000000015	-.0000000002	0.0000000001	0.0000000053	0.0000000003
PCB_146	0.0000004948	0.0000001780	0.0000000271	0.0000033733	0.0000004436
PCB_148	0.0000000033	-.0000000000	0.0000000002	0.0000000086	0.0000000005
PCB_150	0.0000000000	0.0000000004	-.0000000001	-.0000000038	0.0000000002
PCB_152	0.0000000005	-.0000000001	-.0000000000	-.0000000012	-.0000000000
PCB_154	0.0000000384	0.0000000010	0.0000000030	0.0000000983	0.0000000061
PCB_155	0.0000000012	-.0000000004	0.0000000001	0.0000000072	0.0000000002
PCB_158	0.0000002998	0.0000000636	0.0000000420	0.0000011358	0.0000000923
PCB_159	0.0000000002	-.0000000004	-.0000000001	0.0000000032	0.0000000002
PCB_161	-.0000003139	-.0000000403	0.0000000020	-.0000010921	-.0000001804
PCB_162	0.0000000061	0.0000000011	0.0000000012	0.0000000473	0.0000000035
PCB_164	-.0000000467	0.0000000481	0.0000000082	0.0000006506	0.0000000756
PCB_165	0.0000000044	-.0000000009	-.0000000001	0.0000000100	0.0000000006
PCB_167	0.0000000599	0.0000000181	0.0000000140	0.0000003312	0.0000000212
PCB_169	-.0000000011	-.0000000002	-.0000000000	0.0000000087	0.0000000006
PCB_170	-.0000001304	-.0000000015	0.0000000139	0.0000008926	0.0000000413
PCB_172	-.0000000780	0.0000000073	-.0000000004	0.0000002910	0.0000000258
PCB_174	-.0000006649	0.0000000589	-.0000000309	0.0000011093	0.0000001556
PCB_175	-.0000000209	0.0000000015	-.0000000007	0.0000000700	0.0000000072
PCB_176	-.0000000437	0.0000000066	-.0000000021	0.0000001146	0.0000000164
PCB_177	-.0000003307	0.0000000254	-.0000000144	0.0000008373	0.0000000967
PCB_178	-.0000001544	0.0000000089	-.0000000077	0.0000004102	0.0000000462
PCB_179	-.0000002282	0.0000000200	-.0000000124	0.0000004430	0.0000000626
PCB_181	0.0000000035	0.0000000009	0.0000000009	0.0000000165	0.0000000007
PCB_182	-.0000000065	-.0000000014	-.0000000003	0.0000000063	-.0000000004
PCB_184	0.0000000012	-.0000000003	0.0000000001	0.0000000071	0.0000000003
PCB_186	0.0000000013	-.0000000004	0.0000000001	0.0000000076	0.0000000003
PCB_187	-.0000038678	0.0000002646	-.0000002016	0.0000061684	0.0000008529
PCB_188	0.0000000009	-.0000000003	0.0000000001	0.0000000070	0.0000000003
PCB_189	-.0000000015	0.0000000022	0.0000000008	0.0000000532	0.0000000047
PCB_190	-.0000000193	-.0000000048	0.0000000006	0.0000001193	0.0000000048
PCB_191	-.0000000154	0.0000000013	-.0000000001	0.0000000457	0.0000000042
PCB_192	0.0000000008	-.0000000005	0.0000000001	0.0000000063	0.0000000000
PCB_194	-.0000000714	-.0000000020	-.0000000021	0.0000002771	0.0000000215
PCB_195	-.0000000473	-.0000000004	-.0000000016	0.0000001330	0.0000000112
PCB_196	-.0000000579	-.0000000025	-.0000000023	0.0000001917	0.0000000152
PCB_201	-.0000000445	0.0000000004	-.0000000025	0.0000000921	0.0000000099
PCB_202	-.0000000603	-.0000000006	-.0000000034	0.0000001190	0.0000000121
PCB_203	-.0000001185	-.0000000041	-.0000000054	0.0000003134	0.0000000263
PCB_204	0.0000000008	-.0000000005	0.0000000001	0.0000000063	0.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_145	0.0000000010	0.0000000017	-.0000000032	0.0000000026	0.0000000054
PCB_146	0.0000111264	0.0000006494	0.0000036270	0.0000015419	0.0000102014
PCB_148	0.0000000026	0.0000000028	-.0000000058	0.0000000086	0.0000000046
PCB_150	0.0000000026	-.0000000014	0.0000000063	-.0000000006	-.0000000091
PCB_152	-.0000000075	-.0000000003	-.0000000001	-.0000000020	-.0000000099
PCB_154	0.0000000302	0.0000000291	-.0000000642	0.0000001174	0.0000000601
PCB_155	0.0000000019	0.0000000023	-.0000000043	0.0000000016	0.0000000126
PCB_158	0.0000021768	0.0000002346	0.0000000393	0.0000016238	0.0000027183
PCB_159	-.0000000011	0.0000000015	-.0000000033	-.0000000073	-.0000000098
PCB_161	-.0000026251	-.0000002248	-.0000013577	-.0000000530	-.0000015015
PCB_162	0.0000000945	0.0000000104	0.0000000105	0.0000000218	0.0000001165
PCB_164	0.0000031037	0.0000000878	0.0000009768	0.0000002148	0.0000033385
PCB_165	-.0000000138	0.0000000044	-.0000000100	-.0000000023	-.0000000158
PCB_167	0.0000007032	0.0000000638	-.0000000215	0.0000005005	0.0000010199
PCB_169	0.0000000261	0.0000000021	0.0000000062	-.0000000045	0.0000000372
PCB_170	0.0000027415	0.0000001815	0.0000004273	0.0000000172	0.0000042438
PCB_172	0.0000014375	0.0000000430	0.0000004507	-.0000000693	0.0000018942
PCB_174	0.0000089517	0.0000000724	0.0000035991	-.0000016493	0.0000100502
PCB_175	0.0000003655	0.0000000106	0.0000001274	-.0000000493	0.0000004425
PCB_176	0.0000007802	0.0000000107	0.0000003161	-.0000001154	0.0000008423
PCB_177	0.0000051544	0.0000001086	0.0000019220	-.0000008735	0.0000059608
PCB_178	0.0000024167	0.0000000593	0.0000008944	-.0000004395	0.0000028107
PCB_179	0.0000032955	0.0000000387	0.0000013547	-.0000006608	0.0000036314
PCB_181	0.0000000266	0.0000000033	-.0000000074	0.0000000290	0.0000000461
PCB_182	0.0000000228	0.0000000017	0.0000000067	-.0000000262	0.0000000542
PCB_184	0.0000000046	0.0000000022	-.0000000034	0.0000000027	0.0000000139
PCB_186	0.0000000028	0.0000000023	-.0000000041	0.0000000022	0.0000000140
PCB_187	0.0000500026	0.0000004890	0.0000199637	-.0000102129	0.0000561054
PCB_188	0.0000000061	0.0000000021	-.0000000027	0.0000000016	0.0000000156
PCB_189	0.0000001958	0.0000000098	0.0000000464	0.0000000217	0.0000002364
PCB_190	0.0000002944	0.0000000280	0.0000000457	-.0000000548	0.0000005187
PCB_191	0.0000002447	0.0000000062	0.0000000786	-.0000000244	0.0000003057
PCB_192	-.0000000009	0.0000000021	-.0000000057	0.0000000010	0.0000000117
PCB_194	0.0000011695	0.0000000547	0.0000003463	-.0000001952	0.0000015378
PCB_195	0.0000006581	0.0000000229	0.0000002156	-.0000001265	0.0000008510
PCB_196	0.0000008454	0.0000000369	0.0000002674	-.0000001740	0.0000011179
PCB_201	0.0000005723	0.0000000131	0.0000002174	-.0000001345	0.0000006934
PCB_202	0.0000007285	0.0000000177	0.0000002755	-.0000001892	0.0000008985
PCB_203	0.0000015533	0.0000000569	0.0000005213	-.0000003628	0.0000020101
PCB_204	-.0000000008	0.0000000021	-.0000000057	0.0000000011	0.0000000118

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_145	0.0000000001	0.0000000004	0.0000000001	0.0000000190	0.0000000001
PCB_146	0.0000000059	0.0000025558	0.0000000190	0.0000312981	0.0000000255
PCB_148	0.0000000001	0.0000000005	0.0000000001	0.0000000255	0.0000000002
PCB_150	-.0000000001	0.0000000002	-.0000000000	0.0000000107	-.0000000001
PCB_152	-.0000000000	-.0000000012	0.0000000000	0.0000000012	0.0000000000
PCB_154	0.0000000009	0.0000000103	0.0000000010	0.0000002774	0.0000000019
PCB_155	0.0000000001	0.0000000011	0.0000000001	0.0000000188	0.0000000001
PCB_158	0.0000000057	0.0000005899	0.0000000051	0.0000041275	0.0000000115
PCB_159	-.0000000000	-.0000000013	0.0000000001	0.0000000328	0.0000000001
PCB_161	0.0000000008	-.0000006241	-.0000000112	-.0000140100	-.0000000136
PCB_162	0.0000000003	0.0000000284	0.0000000002	0.0000002241	0.0000000004
PCB_164	0.0000000014	0.0000007753	-.0000000001	0.0000050581	-.0000000007
PCB_165	0.0000000002	-.0000000043	0.0000000002	0.0000000615	0.0000000003
PCB_167	0.0000000021	0.0000001952	0.0000000009	0.0000007382	0.0000000024
PCB_169	0.0000000001	0.0000000067	0.0000000001	0.0000000563	0.0000000000
PCB_170	0.0000000116	0.0000007742	0.0000000027	0.0000032380	0.0000000010
PCB_172	0.0000000032	0.0000003639	0.0000000003	0.0000021243	-.0000000018
PCB_174	0.0000000053	0.0000021962	-.0000000043	0.0000142275	-.0000000188
PCB_175	0.0000000006	0.0000000915	0.0000000001	0.0000006329	-.0000000004
PCB_176	0.0000000004	0.0000001933	-.0000000002	0.0000013926	-.0000000012
PCB_177	0.0000000062	0.0000012780	-.0000000000	0.0000086874	-.0000000071
PCB_178	0.0000000034	0.0000005946	0.0000000004	0.0000042385	-.0000000029
PCB_179	0.0000000021	0.0000008136	-.0000000009	0.0000057298	-.0000000059
PCB_181	0.0000000001	0.0000000083	0.0000000000	0.0000000041	0.0000000001
PCB_182	0.0000000003	0.0000000083	0.0000000000	0.0000000250	-.0000000001
PCB_184	0.0000000001	0.0000000016	0.0000000001	0.0000000206	0.0000000001
PCB_186	0.0000000001	0.0000000014	0.0000000001	0.0000000218	0.0000000001
PCB_187	0.0000000349	0.0000120723	-.0000000199	0.0000806747	-.0000001021
PCB_188	0.0000000001	0.0000000019	0.0000000001	0.0000000221	0.0000000001
PCB_189	0.0000000004	0.0000000490	0.0000000001	0.0000003115	0.0000000001
PCB_190	0.0000000020	0.0000000876	0.0000000008	0.0000005257	0.0000000003
PCB_191	0.0000000004	0.0000000623	-.0000000000	0.0000003577	-.0000000003
PCB_192	0.0000000001	0.0000000005	0.0000000001	0.0000000061	0.0000000001
PCB_194	0.0000000034	0.0000002959	0.0000000010	0.0000020381	-.0000000004
PCB_195	0.0000000016	0.0000001669	0.0000000003	0.0000010938	-.0000000007
PCB_196	0.0000000025	0.0000002151	0.0000000007	0.0000015150	-.0000000005
PCB_201	0.0000000010	0.0000001415	0.0000000001	0.0000009961	-.0000000009
PCB_202	0.0000000014	0.0000001814	0.0000000002	0.0000012672	-.0000000012
PCB_203	0.0000000040	0.0000003914	0.0000000010	0.0000027038	-.0000000016
PCB_204	0.0000000001	0.0000000006	0.0000000001	0.0000000063	0.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_145	-.0000000000	0.0000000000	0.0000000010	0.0000000001	0.0000000051
PCB_146	0.0000000107	0.0000000012	0.0000002774	0.0000000188	0.0000041275
PCB_148	-.0000000001	0.0000000000	0.0000000019	0.0000000001	0.0000000115
PCB_150	0.0000000001	0.0000000000	-.0000000005	-.0000000001	-.0000000046
PCB_152	0.0000000000	0.0000000000	0.0000000001	-.0000000000	-.0000000036
PCB_154	-.0000000005	0.0000000001	0.0000000212	0.0000000010	0.0000001548
PCB_155	-.0000000001	-.0000000000	0.0000000010	0.0000000001	0.0000000066
PCB_158	-.0000000046	-.0000000036	0.0000001548	0.0000000066	0.0000024169
PCB_159	-.0000000000	0.0000000000	0.0000000014	-.0000000000	-.0000000023
PCB_161	-.0000000122	-.0000000109	-.0000001455	-.0000000071	-.0000004924
PCB_162	-.0000000003	-.0000000001	0.0000000061	0.0000000003	0.0000000800
PCB_164	-.0000000011	-.0000000045	-.0000000016	0.0000000021	0.0000012097
PCB_165	-.0000000000	0.0000000001	0.0000000029	0.0000000002	-.0000000033
PCB_167	-.0000000027	-.0000000022	0.0000000375	0.0000000018	0.0000007990
PCB_169	-.0000000001	-.0000000000	0.0000000002	0.0000000001	0.0000000073
PCB_170	-.0000000126	-.0000000080	0.0000000186	0.0000000099	0.0000015026
PCB_172	-.0000000025	-.0000000028	-.0000000238	0.0000000032	0.0000004106
PCB_174	-.0000000036	-.0000000133	-.0000002352	0.0000000065	0.0000011911
PCB_175	-.0000000004	-.0000000006	-.0000000053	0.0000000007	0.0000000786
PCB_176	-.0000000000	-.0000000009	-.0000000151	0.0000000006	0.0000001282
PCB_177	-.0000000042	-.0000000076	-.0000000966	0.0000000070	0.0000008931
PCB_178	-.0000000022	-.0000000034	-.0000000428	0.0000000038	0.0000003892
PCB_179	-.0000000008	-.0000000041	-.0000000775	0.0000000029	0.0000004048
PCB_181	-.0000000002	-.0000000001	0.0000000023	0.0000000001	0.0000000445
PCB_182	-.0000000002	-.0000000001	-.0000000013	0.0000000002	-.0000000028
PCB_184	-.0000000001	-.0000000000	0.0000000010	0.0000000001	0.0000000078
PCB_186	-.0000000001	-.0000000000	0.0000000011	0.0000000001	0.0000000075
PCB_187	-.0000000249	-.0000000756	-.0000013209	0.0000000416	0.0000056016
PCB_188	-.0000000001	-.0000000000	0.0000000009	0.0000000001	0.0000000073
PCB_189	-.0000000003	-.0000000004	0.0000000017	0.0000000004	0.0000000920
PCB_190	-.0000000018	-.0000000007	0.0000000030	0.0000000019	0.0000001321
PCB_191	-.0000000004	-.0000000005	-.0000000038	0.0000000004	0.0000000672
PCB_192	-.0000000001	-.0000000000	0.0000000009	0.0000000001	0.0000000059
PCB_194	-.0000000028	-.0000000021	-.0000000097	0.0000000034	0.0000002837
PCB_195	-.0000000013	-.0000000012	-.0000000104	0.0000000016	0.0000001330
PCB_196	-.0000000019	-.0000000014	-.0000000101	0.0000000025	0.0000001714
PCB_201	-.0000000007	-.0000000009	-.0000000131	0.0000000011	0.0000000660
PCB_202	-.0000000010	-.0000000011	-.0000000171	0.0000000015	0.0000000774
PCB_203	-.0000000032	-.0000000027	-.0000000258	0.0000000041	0.0000002555
PCB_204	-.0000000001	-.0000000000	0.0000000009	0.0000000001	0.0000000060

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_145	0.0000000001	-.0000000112	0.0000000002	-.0000000001	0.0000000002
PCB_146	0.0000000328	-.0000140100	0.0000002241	0.0000050581	0.0000000615
PCB_148	0.0000000001	-.0000000136	0.0000000004	-.0000000007	0.0000000003
PCB_150	-.0000000000	-.0000000122	-.0000000003	-.0000000011	-.0000000000
PCB_152	0.0000000000	-.0000000109	-.0000000001	-.0000000045	0.0000000001
PCB_154	0.0000000014	-.0000001455	0.0000000061	-.0000000016	0.0000000029
PCB_155	-.0000000000	-.0000000071	0.0000000003	0.0000000021	0.0000000002
PCB_158	-.0000000023	-.0000004924	0.0000000800	0.0000012097	-.0000000033
PCB_159	0.0000000010	-.0000000327	0.0000000014	-.0000000031	0.0000000005
PCB_161	-.0000000327	0.0000093773	-.0000000660	-.0000006545	-.0000000637
PCB_162	0.0000000014	-.0000000660	0.0000000059	0.0000000636	0.0000000004
PCB_164	-.0000000031	-.0000006545	0.0000000636	0.0000018906	-.0000000151
PCB_165	0.0000000005	-.0000000637	0.0000000004	-.0000000151	0.0000000010
PCB_167	-.0000000014	0.0000003819	0.0000000277	0.0000004628	-.0000000061
PCB_169	0.0000000000	-.0000000130	0.0000000006	0.0000000170	0.0000000001
PCB_170	0.0000000002	0.0000010432	0.0000000951	0.0000021048	-.0000000178
PCB_172	-.0000000095	-.0000000029	0.0000000166	0.0000009405	-.0000000089
PCB_174	-.0000000212	-.0000018677	0.0000001190	0.0000057077	-.0000000496
PCB_175	-.0000000008	-.0000000988	0.0000000060	0.0000002336	-.0000000013
PCB_176	-.0000000015	-.0000002975	0.0000000111	0.0000004821	-.0000000032
PCB_177	-.0000000088	-.0000013413	0.0000000818	0.0000032949	-.0000000212
PCB_178	-.0000000035	-.0000007589	0.0000000382	0.0000015305	-.0000000080
PCB_179	-.0000000055	-.0000011241	0.0000000467	0.0000020767	-.0000000139
PCB_181	-.0000000000	0.0000000398	0.0000000016	0.0000000207	-.0000000004
PCB_182	0.0000000000	0.0000000150	0.0000000010	0.0000000266	-.0000000001
PCB_184	0.0000000000	-.0000000062	0.0000000004	0.0000000034	0.0000000002
PCB_186	-.0000000000	-.0000000085	0.0000000003	0.0000000026	0.0000000002
PCB_187	-.0000000913	-.0000114744	0.0000006669	0.0000316390	-.0000002493
PCB_188	0.0000000000	-.0000000058	0.0000000004	0.0000000045	0.0000000002
PCB_189	-.0000000002	-.0000000193	0.0000000045	0.0000001221	-.0000000008
PCB_190	0.0000000004	-.0000000166	0.0000000112	0.0000002339	-.0000000002
PCB_191	-.0000000004	-.0000000070	0.0000000048	0.0000001638	-.0000000015
PCB_192	-.0000000000	0.0000000011	0.0000000003	0.0000000015	0.0000000002
PCB_194	-.0000000006	-.0000002616	0.0000000249	0.0000007768	-.0000000026
PCB_195	-.0000000008	-.0000001186	0.0000000125	0.0000004407	-.0000000024
PCB_196	-.0000000007	-.0000002302	0.0000000169	0.0000005638	-.0000000018
PCB_201	-.0000000012	-.0000001680	0.0000000082	0.0000003697	-.0000000020
PCB_202	-.0000000013	-.0000002083	0.0000000111	0.0000004779	-.0000000024
PCB_203	-.0000000014	-.0000003859	0.0000000291	0.0000010362	-.0000000042
PCB_204	-.0000000000	0.0000000010	0.0000000003	0.0000000016	0.0000000002

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_145	0.0000000009	0.0000000001	0.0000000027	0.0000000003	-.0000000043
PCB_146	0.0000007382	0.0000000563	0.0000032380	0.0000021243	0.0000142275
PCB_148	0.0000000024	0.0000000000	0.0000000010	-.0000000018	-.0000000188
PCB_150	-.0000000027	-.0000000001	-.0000000126	-.0000000025	-.0000000036
PCB_152	-.0000000022	-.0000000000	-.0000000080	-.0000000028	-.0000000133
PCB_154	0.0000000375	0.0000000002	0.0000000186	-.0000000238	-.0000002352
PCB_155	0.0000000018	0.0000000001	0.0000000099	0.0000000032	0.0000000065
PCB_158	0.0000007990	0.0000000073	0.0000015026	0.0000004106	0.0000011911
PCB_159	-.0000000014	0.0000000000	0.0000000002	-.0000000095	-.0000000212
PCB_161	0.0000003819	-.0000000130	0.0000010432	-.0000000029	-.0000018677
PCB_162	0.0000000277	0.0000000006	0.0000000951	0.0000000166	0.0000001190
PCB_164	0.0000004628	0.0000000170	0.0000021048	0.0000009405	0.0000057077
PCB_165	-.0000000061	0.0000000001	-.0000000178	-.0000000089	-.0000000496
PCB_167	0.0000003132	0.0000000029	0.0000007332	0.0000001934	0.0000006695
PCB_169	0.0000000029	0.0000000003	0.0000000264	0.0000000117	0.0000000653
PCB_170	0.0000007332	0.0000000264	0.0000036201	0.0000012545	0.0000066820
PCB_172	0.0000001934	0.0000000117	0.0000012545	0.0000006485	0.0000034876
PCB_174	0.0000006695	0.0000000653	0.0000066820	0.0000034876	0.0000218490
PCB_175	0.0000000358	0.0000000029	0.0000002956	0.0000001466	0.0000008718
PCB_176	0.0000000541	0.0000000054	0.0000005241	0.0000002822	0.0000017891
PCB_177	0.0000004345	0.0000000399	0.0000040207	0.0000020104	0.0000123998
PCB_178	0.0000001864	0.0000000193	0.0000018786	0.0000009479	0.0000058411
PCB_179	0.0000002040	0.0000000244	0.0000023629	0.0000012513	0.0000079779
PCB_181	0.0000000184	0.0000000001	0.0000000399	0.0000000073	0.0000000148
PCB_182	0.0000000032	0.0000000005	0.0000000582	0.0000000223	0.0000001283
PCB_184	0.0000000024	0.0000000001	0.0000000105	0.0000000033	0.0000000084
PCB_186	0.0000000021	0.0000000001	0.0000000105	0.0000000035	0.0000000077
PCB_187	0.0000033776	0.0000003750	0.0000374589	0.0000194966	0.0001229856
PCB_188	0.0000000023	0.0000000001	0.0000000120	0.0000000040	0.0000000136
PCB_189	0.0000000362	0.0000000013	0.0000001590	0.0000000656	0.0000003639
PCB_190	0.0000000653	0.0000000039	0.0000004386	0.0000001614	0.0000008580
PCB_191	0.0000000340	0.0000000019	0.0000002217	0.0000000985	0.0000005829
PCB_192	0.0000000022	0.0000000001	0.0000000117	0.0000000034	0.0000000058
PCB_194	0.0000001368	0.0000000110	0.0000011183	0.0000004997	0.0000029176
PCB_195	0.0000000705	0.0000000060	0.0000006173	0.0000002853	0.0000016884
PCB_196	0.0000000864	0.0000000082	0.0000008069	0.0000003726	0.0000021870
PCB_201	0.0000000383	0.0000000050	0.0000004722	0.0000002433	0.0000014808
PCB_202	0.0000000488	0.0000000066	0.0000006277	0.0000003166	0.0000019314
PCB_203	0.0000001415	0.0000000148	0.0000014563	0.0000006838	0.0000040829
PCB_204	0.0000000022	0.0000000001	0.0000000117	0.0000000034	0.0000000058

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_145	0.0000000001	-.0000000002	-.0000000000	0.0000000004	-.0000000009
PCB_146	0.0000006329	0.0000013926	0.0000086874	0.0000042385	0.0000057298
PCB_148	-.0000000004	-.0000000012	-.0000000071	-.0000000029	-.0000000059
PCB_150	-.0000000004	-.0000000000	-.0000000042	-.0000000022	-.0000000008
PCB_152	-.0000000006	-.0000000009	-.0000000076	-.0000000034	-.0000000041
PCB_154	-.0000000053	-.0000000151	-.0000000966	-.0000000428	-.0000000775
PCB_155	0.0000000007	0.0000000006	0.0000000070	0.0000000038	0.0000000029
PCB_158	0.0000000786	0.0000001282	0.0000008931	0.0000003892	0.0000004048
PCB_159	-.0000000008	-.0000000015	-.0000000088	-.0000000035	-.0000000055
PCB_161	-.0000000988	-.0000002975	-.0000013413	-.0000007589	-.0000011241
PCB_162	0.0000000060	0.0000000111	0.0000000818	0.0000000382	0.0000000467
PCB_164	0.0000002336	0.0000004821	0.0000032949	0.0000015305	0.0000020767
PCB_165	-.0000000013	-.0000000032	-.0000000212	-.0000000080	-.0000000139
PCB_167	0.0000000358	0.0000000541	0.0000004345	0.0000001864	0.0000002040
PCB_169	0.0000000029	0.0000000054	0.0000000399	0.0000000193	0.0000000244
PCB_170	0.0000002956	0.0000005241	0.0000040207	0.0000018786	0.0000023629
PCB_172	0.0000001466	0.0000002822	0.0000020104	0.0000009479	0.0000012513
PCB_174	0.0000008718	0.0000017891	0.0000123998	0.0000058411	0.0000079779
PCB_175	0.0000000362	0.0000000718	0.0000005052	0.0000002394	0.0000003196
PCB_176	0.0000000718	0.0000001496	0.0000010209	0.0000004818	0.0000006607
PCB_177	0.0000005052	0.0000010209	0.0000071355	0.0000033741	0.0000045509
PCB_178	0.0000002394	0.0000004818	0.0000033741	0.0000016010	0.0000021514
PCB_179	0.0000003196	0.0000006607	0.0000045509	0.0000021514	0.0000029411
PCB_181	0.0000000011	0.0000000009	0.0000000115	0.0000000041	0.0000000025
PCB_182	0.0000000056	0.0000000098	0.0000000768	0.0000000368	0.0000000467
PCB_184	0.0000000007	0.0000000008	0.0000000078	0.0000000041	0.0000000035
PCB_186	0.0000000007	0.0000000007	0.0000000077	0.0000000042	0.0000000033
PCB_187	0.0000049167	0.0000100542	0.0000699548	0.0000330426	0.0000449889
PCB_188	0.0000000009	0.0000000012	0.0000000107	0.0000000055	0.0000000053
PCB_189	0.0000000157	0.0000000303	0.0000002157	0.0000001009	0.0000001313
PCB_190	0.0000000394	0.0000000683	0.0000005276	0.0000002526	0.0000003130
PCB_191	0.0000000240	0.0000000471	0.0000003364	0.0000001579	0.0000002103
PCB_192	0.0000000006	0.0000000004	0.0000000064	0.0000000035	0.0000000023
PCB_194	0.0000001244	0.0000002376	0.0000017233	0.0000008211	0.0000010703
PCB_195	0.0000000707	0.0000001370	0.0000009853	0.0000004680	0.0000006171
PCB_196	0.0000000929	0.0000001783	0.0000012878	0.0000006148	0.0000008043
PCB_201	0.0000000608	0.0000001211	0.0000008543	0.0000004064	0.0000005445
PCB_202	0.0000000795	0.0000001575	0.0000011167	0.0000005317	0.0000007104
PCB_203	0.0000001713	0.0000003319	0.0000023886	0.0000011388	0.0000015000
PCB_204	0.0000000006	0.0000000004	0.0000000064	0.0000000035	0.0000000023

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_145	0.0000000000	0.0000000000	0.0000000001	0.0000000001	-.0000000199
PCB_146	0.0000000041	0.0000000250	0.0000000206	0.0000000218	0.0000806747
PCB_148	0.0000000001	-.0000000001	0.0000000001	0.0000000001	-.0000001021
PCB_150	-.0000000002	-.0000000002	-.0000000001	-.0000000001	-.0000000249
PCB_152	-.0000000001	-.0000000001	-.0000000000	-.0000000000	-.0000000756
PCB_154	0.0000000023	-.0000000013	0.0000000010	0.0000000011	-.0000013209
PCB_155	0.0000000001	0.0000000002	0.0000000001	0.0000000001	0.0000000416
PCB_158	0.0000000445	-.0000000028	0.0000000078	0.0000000075	0.0000056016
PCB_159	-.0000000000	0.0000000000	0.0000000000	-.0000000000	-.0000000913
PCB_161	0.0000000398	0.0000000150	-.0000000062	-.0000000085	-.0000114744
PCB_162	0.0000000016	0.0000000010	0.0000000004	0.0000000003	0.0000006669
PCB_164	0.0000000207	0.0000000266	0.0000000034	0.0000000026	0.0000316390
PCB_165	-.0000000004	-.0000000001	0.0000000002	0.0000000002	-.0000002493
PCB_167	0.0000000184	0.0000000032	0.0000000024	0.0000000021	0.0000033776
PCB_169	0.0000000001	0.0000000005	0.0000000001	0.0000000001	0.0000003750
PCB_170	0.0000000399	0.0000000582	0.0000000105	0.0000000105	0.0000374589
PCB_172	0.0000000073	0.0000000223	0.0000000033	0.0000000035	0.0000194966
PCB_174	0.0000000148	0.0000001283	0.0000000084	0.0000000077	0.0001229856
PCB_175	0.0000000011	0.0000000056	0.0000000007	0.0000000007	0.0000049167
PCB_176	0.0000000009	0.0000000098	0.0000000008	0.0000000007	0.0000100542
PCB_177	0.0000000115	0.0000000768	0.0000000078	0.0000000077	0.0000699548
PCB_178	0.0000000041	0.0000000368	0.0000000041	0.0000000042	0.0000330426
PCB_179	0.0000000025	0.0000000467	0.0000000035	0.0000000033	0.0000449889
PCB_181	0.0000000011	0.0000000001	0.0000000001	0.0000000001	0.0000000596
PCB_182	0.0000000001	0.0000000015	0.0000000002	0.0000000002	0.0000007373
PCB_184	0.0000000001	0.0000000002	0.0000000001	0.0000000001	0.0000000509
PCB_186	0.0000000001	0.0000000002	0.0000000001	0.0000000001	0.0000000474
PCB_187	0.0000000596	0.0000007373	0.0000000509	0.0000000474	0.0006946419
PCB_188	0.0000000001	0.0000000002	0.0000000001	0.0000000001	0.0000000810
PCB_189	0.0000000017	0.0000000021	0.0000000004	0.0000000004	0.0000020279
PCB_190	0.0000000032	0.0000000086	0.0000000018	0.0000000019	0.0000048899
PCB_191	0.0000000014	0.0000000039	0.0000000004	0.0000000004	0.0000032748
PCB_192	0.0000000001	0.0000000003	0.0000000001	0.0000000001	0.0000000372
PCB_194	0.0000000050	0.0000000217	0.0000000034	0.0000000036	0.0000165778
PCB_195	0.0000000024	0.0000000121	0.0000000016	0.0000000017	0.0000095687
PCB_196	0.0000000027	0.0000000163	0.0000000025	0.0000000026	0.0000124357
PCB_201	0.0000000005	0.0000000099	0.0000000011	0.0000000011	0.0000083942
PCB_202	0.0000000007	0.0000000133	0.0000000015	0.0000000016	0.0000109640
PCB_203	0.0000000039	0.0000000299	0.0000000040	0.0000000043	0.0000232177
PCB_204	0.0000000001	0.0000000003	0.0000000001	0.0000000001	0.0000000371

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_145	0.0000000001	0.0000000001	0.0000000008	-.0000000000	0.0000000001
PCB_146	0.0000000221	0.0000003115	0.0000005257	0.0000003577	0.0000000061
PCB_148	0.0000000001	0.0000000001	0.0000000003	-.0000000003	0.0000000001
PCB_150	-.0000000001	-.0000000003	-.0000000018	-.0000000004	-.0000000001
PCB_152	-.0000000000	-.0000000004	-.0000000007	-.0000000005	-.0000000000
PCB_154	0.0000000009	0.0000000017	0.0000000030	-.0000000038	0.0000000009
PCB_155	0.0000000001	0.0000000004	0.0000000019	0.0000000004	0.0000000001
PCB_158	0.0000000073	0.0000000920	0.0000001321	0.0000000672	0.0000000059
PCB_159	0.0000000000	-.0000000002	0.0000000004	-.0000000004	-.0000000000
PCB_161	-.0000000058	-.0000000193	-.0000000166	-.0000000070	0.0000000011
PCB_162	0.0000000004	0.0000000045	0.0000000112	0.0000000048	0.0000000003
PCB_164	0.0000000045	0.0000001221	0.0000002339	0.0000001638	0.0000000015
PCB_165	0.0000000002	-.0000000008	-.0000000002	-.0000000015	0.0000000002
PCB_167	0.0000000023	0.0000000362	0.0000000653	0.0000000340	0.0000000022
PCB_169	0.0000000001	0.0000000013	0.0000000039	0.0000000019	0.0000000001
PCB_170	0.0000000120	0.0000001590	0.0000004386	0.0000002217	0.0000000117
PCB_172	0.0000000040	0.0000000656	0.0000001614	0.0000000985	0.0000000034
PCB_174	0.0000000136	0.0000003639	0.0000008580	0.0000005829	0.0000000058
PCB_175	0.0000000009	0.0000000157	0.0000000394	0.0000000240	0.0000000006
PCB_176	0.0000000012	0.0000000303	0.0000000683	0.0000000471	0.0000000004
PCB_177	0.0000000107	0.0000002157	0.0000005276	0.0000003364	0.0000000064
PCB_178	0.0000000055	0.0000001009	0.0000002526	0.0000001579	0.0000000035
PCB_179	0.0000000053	0.0000001313	0.0000003130	0.0000002103	0.0000000023
PCB_181	0.0000000001	0.0000000017	0.0000000032	0.0000000014	0.0000000001
PCB_182	0.0000000002	0.0000000021	0.0000000086	0.0000000039	0.0000000003
PCB_184	0.0000000001	0.0000000004	0.0000000018	0.0000000004	0.0000000001
PCB_186	0.0000000001	0.0000000004	0.0000000019	0.0000000004	0.0000000001
PCB_187	0.0000000810	0.0000020279	0.0000048899	0.0000032748	0.0000000372
PCB_188	0.0000000001	0.0000000005	0.0000000020	0.0000000006	0.0000000001
PCB_189	0.0000000005	0.0000000085	0.0000000185	0.0000000111	0.0000000004
PCB_190	0.0000000020	0.0000000185	0.0000000613	0.0000000275	0.0000000020
PCB_191	0.0000000006	0.0000000111	0.0000000275	0.0000000168	0.0000000004
PCB_192	0.0000000001	0.0000000004	0.0000000020	0.0000000004	0.0000000001
PCB_194	0.0000000041	0.0000000550	0.0000001524	0.0000000837	0.0000000034
PCB_195	0.0000000020	0.0000000305	0.0000000833	0.0000000477	0.0000000016
PCB_196	0.0000000030	0.0000000397	0.0000001125	0.0000000618	0.0000000025
PCB_201	0.0000000014	0.0000000247	0.0000000654	0.0000000399	0.0000000010
PCB_202	0.0000000019	0.0000000321	0.0000000875	0.0000000523	0.0000000014
PCB_203	0.0000000050	0.0000000719	0.0000002021	0.0000001140	0.0000000041
PCB_204	0.0000000001	0.0000000004	0.0000000020	0.0000000004	0.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_145	0.0000000010	0.0000000003	0.0000000007	0.0000000001	0.0000000002
PCB_146	0.0000020381	0.0000010938	0.0000015150	0.0000009961	0.0000012672
PCB_148	-.0000000004	-.0000000007	-.0000000005	-.0000000009	-.0000000012
PCB_150	-.0000000028	-.0000000013	-.0000000019	-.0000000007	-.0000000010
PCB_152	-.0000000021	-.0000000012	-.0000000014	-.0000000009	-.0000000011
PCB_154	-.0000000097	-.0000000104	-.0000000101	-.0000000131	-.0000000171
PCB_155	0.0000000034	0.0000000016	0.0000000025	0.0000000011	0.0000000015
PCB_158	0.0000002837	0.0000001330	0.0000001714	0.0000000660	0.0000000774
PCB_159	-.0000000006	-.0000000008	-.0000000007	-.0000000012	-.0000000013
PCB_161	-.0000002616	-.0000001186	-.0000002302	-.0000001680	-.0000002083
PCB_162	0.0000000249	0.0000000125	0.0000000169	0.0000000082	0.0000000111
PCB_164	0.0000007768	0.0000004407	0.0000005638	0.0000003697	0.0000004779
PCB_165	-.0000000026	-.0000000024	-.0000000018	-.0000000020	-.0000000024
PCB_167	0.0000001368	0.0000000705	0.0000000864	0.0000000383	0.0000000488
PCB_169	0.0000000110	0.0000000060	0.0000000082	0.0000000050	0.0000000066
PCB_170	0.0000011183	0.0000006173	0.0000008069	0.0000004722	0.0000006277
PCB_172	0.0000004997	0.0000002853	0.0000003726	0.0000002433	0.0000003166
PCB_174	0.0000029176	0.0000016884	0.0000021870	0.0000014808	0.0000019314
PCB_175	0.0000001244	0.0000000707	0.0000000929	0.0000000608	0.0000000795
PCB_176	0.0000002376	0.0000001370	0.0000001783	0.0000001211	0.0000001575
PCB_177	0.0000017233	0.0000009853	0.0000012878	0.0000008543	0.0000011167
PCB_178	0.0000008211	0.0000004680	0.0000006148	0.0000004064	0.0000005317
PCB_179	0.0000010703	0.0000006171	0.0000008043	0.0000005445	0.0000007104
PCB_181	0.0000000050	0.0000000024	0.0000000027	0.0000000005	0.0000000007
PCB_182	0.0000000217	0.0000000121	0.0000000163	0.0000000099	0.0000000133
PCB_184	0.0000000034	0.0000000016	0.0000000025	0.0000000011	0.0000000015
PCB_186	0.0000000036	0.0000000017	0.0000000026	0.0000000011	0.0000000016
PCB_187	0.0000165778	0.0000095687	0.0000124357	0.0000083942	0.0000109640
PCB_188	0.0000000041	0.0000000020	0.0000000030	0.0000000014	0.0000000019
PCB_189	0.0000000550	0.0000000305	0.0000000397	0.0000000247	0.0000000321
PCB_190	0.0000001524	0.0000000833	0.0000001125	0.0000000654	0.0000000875
PCB_191	0.0000000837	0.0000000477	0.0000000618	0.0000000399	0.0000000523
PCB_192	0.0000000034	0.0000000016	0.0000000025	0.0000000010	0.0000000014
PCB_194	0.0000004472	0.0000002503	0.0000003324	0.0000002097	0.0000002763
PCB_195	0.0000002503	0.0000001415	0.0000001867	0.0000001197	0.0000001575
PCB_196	0.0000003324	0.0000001867	0.0000002483	0.0000001578	0.0000002079
PCB_201	0.0000002097	0.0000001197	0.0000001578	0.0000001043	0.0000001367
PCB_202	0.0000002763	0.0000001575	0.0000002079	0.0000001367	0.0000001794
PCB_203	0.0000006088	0.0000003436	0.0000004555	0.0000002924	0.0000003852
PCB_204	0.0000000034	0.0000000016	0.0000000025	0.0000000010	0.0000000014

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_145	0.0000000010	0.0000000001	-.0000000000	0.0000000002	0.0000000001
PCB_146	0.0000027038	0.0000000063	0.0000002174	0.0000017730	0.0000002000
PCB_148	-.0000000016	0.0000000001	-.0000000002	-.0000000018	-.0000000002
PCB_150	-.0000000032	-.0000000001	-.0000000001	-.0000000015	-.0000000002
PCB_152	-.0000000027	-.0000000000	-.0000000002	-.0000000017	-.0000000002
PCB_154	-.0000000258	0.0000000009	-.0000000029	-.0000000252	-.0000000025
PCB_155	0.0000000041	0.0000000001	0.0000000002	0.0000000021	0.0000000003
PCB_158	0.0000002555	0.0000000060	0.0000000188	0.0000001077	0.0000000133
PCB_159	-.0000000014	-.0000000000	-.0000000003	-.0000000019	-.0000000003
PCB_161	-.0000003859	0.0000000010	-.0000000309	-.0000002711	-.0000000305
PCB_162	0.0000000291	0.0000000003	0.0000000019	0.0000000155	0.0000000018
PCB_164	0.0000010362	0.0000000016	0.0000000838	0.0000006800	0.0000000761
PCB_165	-.0000000042	0.0000000002	-.0000000006	-.0000000037	-.0000000003
PCB_167	0.0000001415	0.0000000022	0.0000000103	0.0000000710	0.0000000081
PCB_169	0.0000000148	0.0000000001	0.0000000011	0.0000000094	0.0000000011
PCB_170	0.0000014563	0.0000000117	0.0000001051	0.0000009020	0.0000001038
PCB_172	0.0000006838	0.0000000034	0.0000000532	0.0000004542	0.0000000519
PCB_174	0.0000040829	0.0000000058	0.0000003256	0.0000027590	0.0000003099
PCB_175	0.0000001713	0.0000000006	0.0000000133	0.0000001136	0.0000000129
PCB_176	0.0000003319	0.0000000004	0.0000000266	0.0000002244	0.0000000252
PCB_177	0.0000023886	0.0000000064	0.0000001870	0.0000015941	0.0000001803
PCB_178	0.0000011388	0.0000000035	0.0000000886	0.0000007589	0.0000000860
PCB_179	0.0000015000	0.0000000023	0.0000001192	0.0000010130	0.0000001140
PCB_181	0.0000000039	0.0000000001	0.0000000002	0.0000000011	0.0000000001
PCB_182	0.0000000299	0.0000000003	0.0000000021	0.0000000191	0.0000000022
PCB_184	0.0000000040	0.0000000001	0.0000000002	0.0000000021	0.0000000003
PCB_186	0.0000000043	0.0000000001	0.0000000002	0.0000000022	0.0000000003
PCB_187	0.0000232177	0.0000000371	0.0000018412	0.0000156652	0.0000017608
PCB_188	0.0000000050	0.0000000001	0.0000000003	0.0000000028	0.0000000004
PCB_189	0.0000000719	0.0000000004	0.0000000055	0.0000000458	0.0000000052
PCB_190	0.0000002021	0.0000000020	0.0000000140	0.0000001256	0.0000000146
PCB_191	0.0000001140	0.0000000004	0.0000000088	0.0000000748	0.0000000085
PCB_192	0.0000000041	0.0000000001	0.0000000002	0.0000000021	0.0000000003
PCB_194	0.0000006088	0.0000000034	0.0000000455	0.0000003952	0.0000000453
PCB_195	0.0000003436	0.0000000016	0.0000000260	0.0000002254	0.0000000257
PCB_196	0.0000004555	0.0000000025	0.0000000341	0.0000002974	0.0000000341
PCB_201	0.0000002924	0.0000000010	0.0000000226	0.0000001953	0.0000000222
PCB_202	0.0000003852	0.0000000014	0.0000000296	0.0000002565	0.0000000292
PCB_203	0.0000008389	0.0000000041	0.0000000633	0.0000005509	0.0000000629
PCB_204	0.0000000041	0.0000000001	0.0000000002	0.0000000021	0.0000000003

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_145	0.0000000001	0.0000000001	0.0000000001	0.0000000012	-.0000000905
PCB_146	0.0000006008	0.0000012312	-.0000000636	0.0000003379	-.0000389898
PCB_148	-.0000000006	-.0000000015	0.0000000002	0.0000000040	-.0000001366
PCB_150	-.0000000005	-.0000000010	-.0000000001	-.0000000007	0.0000001128
PCB_152	-.0000000005	-.0000000011	0.0000000001	-.0000000005	0.0000000567
PCB_154	-.0000000088	-.0000000216	0.0000000019	0.0000000560	-.0000012721
PCB_155	0.0000000008	0.0000000014	0.0000000001	0.0000000005	-.0000001484
PCB_158	0.0000000290	0.0000000394	-.0000000171	0.0000006414	-.0000142615
PCB_159	-.0000000007	-.0000000016	0.0000000006	0.0000000028	0.0000000069
PCB_161	-.0000000972	-.0000001915	-.0000000112	0.0000000063	0.0000020271
PCB_162	0.0000000051	0.0000000098	-.0000000001	0.0000000190	-.0000005860
PCB_164	0.0000002292	0.0000004795	-.0000000353	0.0000000357	-.0000115262
PCB_165	-.0000000011	-.0000000028	0.0000000008	0.0000000007	-.0000001425
PCB_167	0.0000000213	0.0000000393	-.0000000075	0.0000002038	-.0000048928
PCB_169	0.0000000033	0.0000000068	-.0000000002	-.0000000024	-.0000002082
PCB_170	0.0000003085	0.0000006373	-.0000000281	0.0000000352	-.0000207113
PCB_172	0.0000001562	0.0000003287	-.0000000194	-.0000001135	-.0000076213
PCB_174	0.0000009472	0.0000020112	-.0000001127	-.0000009637	-.0000312952
PCB_175	0.0000000391	0.0000000823	-.0000000041	-.0000000320	-.0000017059
PCB_176	0.0000000770	0.0000001630	-.0000000093	-.0000000710	-.0000026238
PCB_177	0.0000005483	0.0000011573	-.0000000597	-.0000005000	-.0000216494
PCB_178	0.0000002615	0.0000005514	-.0000000269	-.0000002492	-.0000106354
PCB_179	0.0000003485	0.0000007386	-.0000000392	-.0000003653	-.0000115243
PCB_181	0.0000000002	0.0000000001	-.0000000003	0.0000000130	-.0000002487
PCB_182	0.0000000067	0.0000000141	-.0000000002	-.0000000097	-.0000002931
PCB_184	0.0000000008	0.0000000014	0.0000000001	0.0000000010	-.0000001437
PCB_186	0.0000000008	0.0000000015	0.0000000001	0.0000000007	-.0000001500
PCB_187	0.0000053835	0.0000114284	-.0000006082	-.0000057422	-.0001823178
PCB_188	0.0000000010	0.0000000019	0.0000000001	0.0000000006	-.0000001491
PCB_189	0.0000000155	0.0000000321	-.0000000020	0.0000000053	-.0000010526
PCB_190	0.0000000437	0.0000000901	-.0000000021	-.0000000200	-.0000027933
PCB_191	0.0000000256	0.0000000540	-.0000000029	-.0000000151	-.0000011284
PCB_192	0.0000000008	0.0000000014	0.0000000001	0.0000000004	-.0000001478
PCB_194	0.0000001365	0.0000002855	-.0000000114	-.0000001038	-.0000070334
PCB_195	0.0000000778	0.0000001635	-.0000000071	-.0000000678	-.0000035494
PCB_196	0.0000001029	0.0000002157	-.0000000084	-.0000000916	-.0000049807
PCB_201	0.0000000675	0.0000001426	-.0000000065	-.0000000749	-.0000026419
PCB_202	0.0000000888	0.0000001874	-.0000000082	-.0000001003	-.0000034851
PCB_203	0.0000001906	0.0000004006	-.0000000160	-.0000001865	-.0000086270
PCB_204	0.0000000008	0.0000000014	0.0000000001	0.0000000004	-.0000001477

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_145	0.0000000053	0.0000000346	0.0000000027	-.0000000000	0.0000000012
PCB_146	0.0000058051	0.0000500944	0.0000022246	0.0000286460	0.0000007723
PCB_148	0.0000000154	0.0000000692	0.0000000050	-.0000000074	0.0000000034
PCB_150	-.0000000055	-.0000000595	0.0000000000	0.0000000003	-.0000000006
PCB_152	-.0000000064	-.0000000626	0.0000000003	-.0000000186	-.0000000006
PCB_154	0.0000002335	0.0000009225	0.0000000499	-.0000001104	0.0000000448
PCB_155	0.0000000066	0.0000000653	0.0000000029	0.0000000097	0.0000000009
PCB_158	0.0000041859	0.0000213857	0.0000004161	0.0000038681	0.0000005640
PCB_159	-.0000000101	-.0000000141	0.0000000039	0.0000000088	0.0000000014
PCB_161	-.0000001556	-.0000021849	-.0000010035	-.0000063144	-.0000001349
PCB_162	0.0000001240	0.0000008695	0.0000000224	0.0000002940	0.0000000174
PCB_164	0.0000019670	0.0000184849	0.0000003184	0.0000093887	0.0000001572
PCB_165	-.0000000191	-.0000001064	0.0000000092	-.0000000446	0.0000000007
PCB_167	0.0000014264	0.0000078539	0.0000000687	0.0000014265	0.0000001748
PCB_169	0.0000000062	0.0000001637	0.0000000041	0.0000000958	-.0000000003
PCB_170	0.0000022888	0.0000240306	0.0000002199	0.0000098551	0.0000001482
PCB_172	0.0000005991	0.0000085773	0.0000000940	0.0000047804	-.0000000111
PCB_174	0.0000013789	0.0000426463	0.0000006038	0.0000314983	-.0000003044
PCB_175	0.0000000963	0.0000019599	0.0000000333	0.0000012682	-.0000000060
PCB_176	0.0000001574	0.0000036387	0.0000000714	0.0000026712	-.0000000163
PCB_177	0.0000010137	0.0000261251	0.0000004511	0.0000181690	-.0000001256
PCB_178	0.0000003896	0.0000120538	0.0000002264	0.0000085526	-.0000000675
PCB_179	0.0000003923	0.0000151182	0.0000002768	0.0000116863	-.0000001166
PCB_181	0.0000000809	0.0000004149	0.0000000020	0.0000000449	0.0000000103
PCB_182	-.0000000153	0.0000001958	0.0000000007	0.0000001548	-.0000000057
PCB_184	0.0000000092	0.0000000794	0.0000000029	0.0000000150	0.0000000013
PCB_186	0.0000000082	0.0000000726	0.0000000030	0.0000000116	0.0000000011
PCB_187	0.0000052663	0.0002334796	0.0000034848	0.0001772641	-.0000019491
PCB_188	0.0000000081	0.0000000844	0.0000000029	0.0000000219	0.0000000010
PCB_189	0.0000001445	0.0000013351	0.0000000220	0.0000005900	0.0000000127
PCB_190	0.0000001567	0.0000025176	0.0000000355	0.0000012006	0.0000000011
PCB_191	0.0000000975	0.0000014738	0.0000000165	0.0000008483	-.0000000003
PCB_192	0.0000000059	0.0000000631	0.0000000018	0.0000000044	0.0000000007
PCB_194	0.0000003071	0.0000069761	0.0000001215	0.0000042391	-.0000000181
PCB_195	0.0000001411	0.0000037457	0.0000000567	0.0000024090	-.0000000179
PCB_196	0.0000001589	0.0000048355	0.0000000854	0.0000031262	-.0000000247
PCB_201	0.0000000404	0.0000027894	0.0000000481	0.0000020950	-.0000000269
PCB_202	0.0000000329	0.0000035919	0.0000000611	0.0000027212	-.0000000378
PCB_203	0.0000001999	0.0000085081	0.0000001445	0.0000058042	-.0000000597
PCB_204	0.0000000060	0.0000000636	0.0000000019	0.0000000045	0.0000000007

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_145	-.0000000383	0.0000000696	0.0000000044	-.0000000007	-.0000000045
PCB_146	0.0000670480	-.0000050699	0.0000009884	0.0000033171	-.0000035699
PCB_148	-.0000000671	0.0000000274	0.0000000141	-.0000000029	-.0000000080
PCB_150	0.0000000315	-.0000001360	-.0000000055	-.0000000021	0.0000000051
PCB_152	-.0000000616	-.0000000409	-.0000000030	-.0000000042	0.0000000032
PCB_154	-.0000007327	-.0000004693	0.0000002066	-.0000000328	-.0000000921
PCB_155	-.0000000294	0.0000001559	0.0000000039	0.0000000021	-.0000000067
PCB_158	0.0000097353	-.0000141288	0.0000027478	0.0000006899	-.0000013436
PCB_159	-.0000000410	-.0000000131	0.0000000030	-.0000000065	-.0000000056
PCB_161	-.0000099650	0.0000078850	0.0000007336	-.0000000655	0.0000005788
PCB_162	0.0000005653	-.0000002799	0.0000000837	0.0000000385	-.0000000648
PCB_164	0.0000244747	0.0000006165	0.0000004994	0.0000014850	-.0000010593
PCB_165	-.0000002544	0.0000002444	-.0000000064	-.0000000152	-.0000000037
PCB_167	0.0000040298	-.0000038829	0.0000009422	0.0000003177	-.0000004560
PCB_169	0.0000001980	0.0000002502	-.0000000053	0.0000000154	-.0000000118
PCB_170	0.0000228372	0.0000141420	0.0000008638	0.0000018302	-.0000014898
PCB_172	0.0000121695	0.0000074540	-.0000001640	0.0000008608	-.0000004645
PCB_174	0.0000808856	0.0000374176	-.0000025105	0.0000050721	-.0000022952
PCB_175	0.0000031086	0.0000018040	-.0000000706	0.0000002064	-.0000001154
PCB_176	0.0000067534	0.0000025831	-.0000001836	0.0000004138	-.0000002044
PCB_177	0.0000450316	0.0000242535	-.0000012242	0.0000029003	-.0000015187
PCB_178	0.0000209236	0.0000126224	-.0000006445	0.0000013537	-.0000007180
PCB_179	0.0000293420	0.0000140369	-.0000010036	0.0000018241	-.0000008516
PCB_181	0.0000001358	-.0000002534	0.0000000594	0.0000000135	-.0000000241
PCB_182	0.0000002935	0.0000006139	-.0000000247	0.0000000289	-.0000000141
PCB_184	-.0000000073	0.0000001262	0.0000000056	0.0000000029	-.0000000073
PCB_186	-.0000000246	0.0000001471	0.0000000047	0.0000000025	-.0000000071
PCB_187	0.0004517162	0.0002368239	-.0000157503	0.0000283022	-.0000128410
PCB_188	0.0000000104	0.0000001444	0.0000000042	0.0000000040	-.0000000075
PCB_189	0.0000014710	0.0000003697	0.0000000481	0.0000000982	-.0000000809
PCB_190	0.0000024117	0.0000030668	0.0000000066	0.0000002156	-.0000001735
PCB_191	0.0000021387	0.0000009890	-.0000000166	0.0000001438	-.0000000837
PCB_192	-.0000000403	0.0000001720	0.0000000042	0.0000000022	-.0000000063
PCB_194	0.0000098253	0.0000080521	-.0000002092	0.0000006966	-.0000004455
PCB_195	0.0000057436	0.0000043002	-.0000001514	0.0000003994	-.0000002282
PCB_196	0.0000072218	0.0000062313	-.0000002139	0.0000005128	-.0000003079
PCB_201	0.0000050894	0.0000036993	-.0000002060	0.0000003381	-.0000001645
PCB_202	0.0000065403	0.0000050561	-.0000002768	0.0000004397	-.0000002151
PCB_203	0.0000135996	0.0000114585	-.0000004679	0.0000009483	-.0000005325
PCB_204	-.0000000399	0.0000001707	0.0000000043	0.0000000023	-.0000000063

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_145	0.0000000050	-.0000000004	0.0000000001	0.0000000019	0.0000000057
PCB_146	0.0000121369	0.0000107372	0.0000006610	0.0000038221	-.0000038581
PCB_148	-.0000000062	-.0000000089	-.0000000005	-.0000000013	0.0000000087
PCB_150	-.0000000252	-.0000000061	-.0000000005	-.0000000051	-.0000000025
PCB_152	-.0000000186	-.0000000109	-.0000000005	-.0000000037	0.0000000064
PCB_154	-.0000000965	-.0000001176	-.0000000074	-.0000000261	0.0000000637
PCB_155	0.0000000245	0.0000000089	0.0000000007	0.0000000063	0.0000000046
PCB_158	0.0000023666	0.0000014149	0.0000000511	0.0000004067	-.0000015935
PCB_159	-.0000000090	-.0000000166	-.0000000005	0.0000000003	0.0000000262
PCB_161	0.0000005277	-.0000011788	-.0000001173	-.0000005628	-.0000005344
PCB_162	0.0000002051	0.0000001027	0.0000000062	0.0000000469	-.0000000302
PCB_164	0.0000061105	0.0000042870	0.0000002437	0.0000014558	-.0000019978
PCB_165	-.0000000403	-.0000000327	-.0000000012	-.0000000041	0.0000000436
PCB_167	0.0000012753	0.0000006742	0.0000000272	0.0000002154	-.0000006739
PCB_169	0.0000000823	0.0000000503	0.0000000033	0.0000000212	-.0000000094
PCB_170	0.0000093623	0.0000052715	0.0000003134	0.0000021122	-.0000018990
PCB_172	0.0000038893	0.0000026207	0.0000001560	0.0000009442	-.0000010480
PCB_174	0.0000224776	0.0000157716	0.0000009574	0.0000056529	-.0000056023
PCB_175	0.0000009528	0.0000006439	0.0000000394	0.0000002395	-.0000002144
PCB_176	0.0000018003	0.0000012933	0.0000000786	0.0000004600	-.0000004578
PCB_177	0.0000132477	0.0000090618	0.0000005548	0.0000033348	-.0000029713
PCB_178	0.0000062583	0.0000042722	0.0000002638	0.0000015917	-.0000013217
PCB_179	0.0000081469	0.0000057483	0.0000003530	0.0000020826	-.0000018991
PCB_181	0.0000000572	0.0000000220	0.0000000005	0.0000000068	-.0000000325
PCB_182	0.0000001774	0.0000000956	0.0000000065	0.0000000431	-.0000000103
PCB_184	0.0000000250	0.0000000101	0.0000000007	0.0000000062	0.0000000023
PCB_186	0.0000000257	0.0000000098	0.0000000008	0.0000000067	0.0000000036
PCB_187	0.0001270484	0.0000887125	0.0000054263	0.0000322045	-.0000297811
PCB_188	0.0000000306	0.0000000137	0.0000000010	0.0000000077	0.0000000016
PCB_189	0.0000004361	0.0000002832	0.0000000163	0.0000001023	-.0000001218
PCB_190	0.0000012153	0.0000006726	0.0000000432	0.0000002935	-.0000001502
PCB_191	0.0000006635	0.0000004332	0.0000000260	0.0000001602	-.0000001619
PCB_192	0.0000000271	0.0000000085	0.0000000007	0.0000000064	0.0000000044
PCB_194	0.0000034562	0.0000021901	0.0000001368	0.0000008632	-.0000006046
PCB_195	0.0000019409	0.0000012528	0.0000000778	0.0000004841	-.0000003711
PCB_196	0.0000025527	0.0000016307	0.0000001027	0.0000006440	-.0000004353
PCB_201	0.0000015956	0.0000010799	0.0000000674	0.0000004078	-.0000003170
PCB_202	0.0000021092	0.0000014090	0.0000000884	0.0000005386	-.0000003952
PCB_203	0.0000046812	0.0000030205	0.0000001900	0.0000011827	-.0000008100
PCB_204	0.0000000271	0.0000000085	0.0000000007	0.0000000064	0.0000000043

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_145	0.0000000006	0.0000000029	-.0000000042	0.0000000087	-.0000000094
PCB_146	-.0000003124	-.0000103966	-.0000051594	-.0000274643	-.0000047453
PCB_148	0.0000000004	0.0000000016	-.0000000052	0.0000000235	-.0000000124
PCB_150	-.0000000007	-.0000000014	0.0000000065	0.0000000063	0.0000000097
PCB_152	0.0000000004	0.0000000116	0.0000000051	0.0000000308	0.0000000010
PCB_154	0.0000000030	-.0000000121	-.0000000717	0.0000002047	-.0000001395
PCB_155	0.0000000009	0.0000000005	-.0000000087	-.0000000057	-.0000000144
PCB_158	-.0000001187	-.0000033499	-.0000018891	-.0000063613	-.0000014263
PCB_159	0.0000000016	0.0000000238	0.0000000078	0.0000000475	-.0000000126
PCB_161	-.0000000133	0.0000006417	0.0000005882	0.0000022080	0.0000016407
PCB_162	-.0000000011	-.0000001090	-.0000000739	-.0000002886	-.0000000940
PCB_164	-.0000001300	-.0000039631	-.0000017654	-.0000109671	-.0000010889
PCB_165	0.0000000030	0.0000000478	0.0000000086	0.0000001244	-.0000000195
PCB_167	-.0000000421	-.0000012432	-.0000006900	-.0000026936	-.0000004458
PCB_169	0.0000000001	-.0000000262	-.0000000189	-.0000000980	-.0000000196
PCB_170	-.0000000530	-.0000038718	-.0000023985	-.0000123524	-.0000020065
PCB_172	-.0000000460	-.0000018848	-.0000009729	-.0000059712	-.0000005682
PCB_174	-.0000002832	-.0000105850	-.0000046764	-.0000350984	-.0000027020
PCB_175	-.0000000092	-.0000004277	-.0000002171	-.0000014169	-.0000001536
PCB_176	-.0000000247	-.0000008985	-.0000003978	-.0000028936	-.0000002506
PCB_177	-.0000001387	-.0000059657	-.0000028474	-.0000198183	-.0000019474
PCB_178	-.0000000584	-.0000027210	-.0000013322	-.0000091936	-.0000009552
PCB_179	-.0000000942	-.0000037404	-.0000016783	-.0000125466	-.0000010831
PCB_181	-.0000000020	-.0000000590	-.0000000344	-.0000001164	-.0000000228
PCB_182	0.0000000016	-.0000000251	-.0000000268	-.0000001603	-.0000000325
PCB_184	0.0000000006	-.0000000035	-.0000000093	-.0000000133	-.0000000137
PCB_186	0.0000000008	-.0000000008	-.0000000096	-.0000000095	-.0000000151
PCB_187	-.0000014635	-.0000575546	-.0000256698	-.0001944378	-.0000154140
PCB_188	0.0000000006	-.0000000049	-.0000000098	-.0000000202	-.0000000140
PCB_189	-.0000000069	-.0000002528	-.0000001293	-.0000007074	-.0000000917
PCB_190	0.0000000035	-.0000003531	-.0000002846	-.0000013753	-.0000002970
PCB_191	-.0000000072	-.0000003091	-.0000001543	-.0000009997	-.0000001026
PCB_192	0.0000000009	0.0000000019	-.0000000084	-.0000000044	-.0000000137
PCB_194	-.0000000170	-.0000013253	-.0000007666	-.0000046269	-.0000006457
PCB_195	-.0000000119	-.0000007620	-.0000004171	-.0000026718	-.0000003245
PCB_196	-.0000000106	-.0000009415	-.0000005492	-.0000033898	-.0000004647
PCB_201	-.0000000117	-.0000006383	-.0000003237	-.0000022649	-.0000002329
PCB_202	-.0000000131	-.0000008055	-.0000004188	-.0000029215	-.0000003145
PCB_203	-.0000000219	-.0000017253	-.0000009678	-.0000062582	-.0000007923
PCB_204	0.0000000009	0.0000000017	-.0000000084	-.0000000046	-.0000000137

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_145	-.0000000301	-.0000000045	-.0000000003	0.0000000008	0.0000000145
PCB_146	-.0000501393	-.0000064984	-.0000030792	-.0000077164	-.0000009337
PCB_148	-.0000000320	-.0000000071	0.0000000000	0.0000000076	0.0000000260
PCB_150	0.0000000429	0.0000000057	0.0000000013	0.0000000052	-.0000000131
PCB_152	0.0000000361	0.0000000068	0.0000000027	0.0000000084	0.0000000052
PCB_154	-.0000004299	-.0000000869	-.0000000170	0.0000001034	0.0000003311
PCB_155	-.0000000614	-.0000000089	-.0000000019	-.0000000067	0.0000000159
PCB_158	-.0000130168	-.0000023061	-.0000011303	-.0000009084	0.0000019426
PCB_159	-.0000000265	0.0000000136	0.0000000069	0.0000000113	0.0000000321
PCB_161	0.0000101112	0.0000006547	0.0000003466	0.0000005994	-.0000009658
PCB_162	-.0000007287	-.0000000759	-.0000000414	-.0000000812	0.0000001026
PCB_164	-.0000160489	-.0000021513	-.0000011431	-.0000033255	-.0000011566
PCB_165	0.0000000406	0.0000000111	0.0000000128	0.0000000262	0.0000000432
PCB_167	-.0000047415	-.0000008111	-.0000004218	-.0000004783	0.0000005300
PCB_169	-.0000001779	-.0000000211	-.0000000089	-.0000000395	-.0000000072
PCB_170	-.0000207819	-.0000026151	-.0000013220	-.0000041904	-.0000001119
PCB_172	-.0000082011	-.0000011590	-.0000005748	-.0000020346	-.0000009893
PCB_174	-.0000466436	-.0000055539	-.0000029822	-.0000124462	-.0000074350
PCB_175	-.0000020597	-.0000002536	-.0000001279	-.0000005053	-.0000002315
PCB_176	-.0000039856	-.0000004767	-.0000002548	-.0000010160	-.0000005691
PCB_177	-.0000281056	-.0000033524	-.0000017191	-.0000071551	-.0000036456
PCB_178	-.0000132372	-.0000015659	-.0000007854	-.0000033710	-.0000016984
PCB_179	-.0000171991	-.0000019854	-.0000010576	-.0000045404	-.0000026116
PCB_181	-.0000002218	-.0000000395	-.0000000208	-.0000000155	0.0000000409
PCB_182	-.0000002803	-.0000000237	-.0000000117	-.0000000792	-.0000000184
PCB_184	-.0000000676	-.0000000100	-.0000000027	-.0000000075	0.0000000144
PCB_186	-.0000000681	-.0000000098	-.0000000026	-.0000000072	0.0000000167
PCB_187	-.0002603837	-.0000304780	-.0000160317	-.0000700918	-.0000422228
PCB_188	-.0000000758	-.0000000106	-.0000000030	-.0000000105	0.0000000121
PCB_189	-.0000011157	-.0000001551	-.0000000759	-.0000002192	-.0000000428
PCB_190	-.0000025712	-.0000002925	-.0000001397	-.0000005346	0.0000000117
PCB_191	-.0000014372	-.0000001772	-.0000000937	-.0000003412	-.0000001401
PCB_192	-.0000000556	-.0000000082	-.0000000017	-.0000000067	0.0000000159
PCB_194	-.0000073090	-.0000008683	-.0000004131	-.0000017306	-.0000005852
PCB_195	-.0000040107	-.0000004727	-.0000002345	-.0000009908	-.0000004061
PCB_196	-.0000052956	-.0000006174	-.0000002963	-.0000012888	-.0000004762
PCB_201	-.0000032187	-.0000003751	-.0000001874	-.0000008532	-.0000004520
PCB_202	-.0000042050	-.0000004792	-.0000002392	-.0000011163	-.0000005722
PCB_203	-.0000095085	-.0000010922	-.0000005299	-.0000023938	-.0000010050
PCB_204	-.0000000559	-.0000000082	-.0000000017	-.0000000067	0.0000000159

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_145	-.0000000041	-.0000000077	0.0000000167	0.0000000008
PCB_146	-.0000104499	-.0000028630	-.0000238745	-.0000009731
PCB_148	0.0000000137	-.0000000099	0.0000000630	0.0000000023
PCB_150	0.0000000289	0.0000000121	0.0000000020	0.0000000015
PCB_152	0.0000000266	0.0000000042	0.0000000258	0.0000000026
PCB_154	0.0000003063	-.0000001032	0.0000009525	0.0000000246
PCB_155	-.0000000297	-.0000000135	-.0000000053	-.0000000006
PCB_158	0.0000003185	-.0000011905	0.0000056877	-.0000002669
PCB_159	0.0000000426	-.0000000079	-.0000000024	0.0000000043
PCB_161	-.0000026984	0.0000001245	0.0000037498	-.0000003179
PCB_162	-.0000000602	-.0000000732	-.0000000624	-.0000000114
PCB_164	-.0000061081	-.0000010136	-.0000099905	-.0000006119
PCB_165	0.0000000355	-.0000000110	0.0000000545	0.0000000094
PCB_167	-.0000004534	-.0000004641	0.0000013243	-.0000001552
PCB_169	-.0000001023	-.0000000195	-.0000001517	-.0000000063
PCB_170	-.0000095743	-.0000021924	-.0000117919	-.0000008328
PCB_172	-.0000048701	-.0000006494	-.0000070940	-.0000003910
PCB_174	-.0000277784	-.0000028739	-.0000502583	-.0000021802
PCB_175	-.0000011554	-.0000001565	-.0000019271	-.0000000880
PCB_176	-.0000021609	-.0000002335	-.0000040137	-.0000001696
PCB_177	-.0000161892	-.0000019905	-.0000283089	-.0000012239
PCB_178	-.0000077613	-.0000009707	-.0000135700	-.0000005687
PCB_179	-.0000100197	-.0000010620	-.0000186124	-.0000007584
PCB_181	-.0000000019	-.0000000254	0.0000001299	-.0000000072
PCB_182	-.0000002207	-.0000000363	-.0000003411	-.0000000129
PCB_184	-.0000000281	-.0000000129	-.0000000055	-.0000000009
PCB_186	-.0000000290	-.0000000139	-.0000000033	-.0000000007
PCB_187	-.0001598989	-.0000166877	-.0002904566	-.0000121870
PCB_188	-.0000000361	-.0000000135	-.0000000213	-.0000000015
PCB_189	-.0000004540	-.0000000932	-.0000006143	-.0000000420
PCB_190	-.0000013335	-.0000003031	-.0000017694	-.0000000946
PCB_191	-.0000007588	-.0000001114	-.0000012204	-.0000000637
PCB_192	-.0000000338	-.0000000140	-.0000000046	-.0000000010
PCB_194	-.0000041855	-.0000006747	-.0000066154	-.0000002992
PCB_195	-.0000023664	-.0000003445	-.0000038572	-.0000001734
PCB_196	-.0000031369	-.0000004817	-.0000050639	-.0000002198
PCB_201	-.0000020384	-.0000002448	-.0000035372	-.0000001446
PCB_202	-.0000026878	-.0000003311	-.0000046598	-.0000001882
PCB_203	-.0000058322	-.0000008347	-.0000096599	-.0000004077
PCB_204	-.0000000336	-.0000000140	-.0000000042	-.0000000010

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_205	PCB 205	-.0000000035	0.0000000002	-.0000000000
PCB_206	PCB 206	-.0000000298	0.0000000023	0.0000000002
PCB_207	PCB 207	-.0000000035	0.0000000003	0.0000000000
PCB_208	PCB 208	-.0000000104	0.0000000008	0.0000000001
PCB_209	PCB 209	-.0000000210	0.0000000016	0.0000000001
PCB_12_13	PCB 12/13	0.0000000011	0.0000000001	0.0000000001
PCB_107_124	PCB 107/124	0.0000000017	0.0000000004	0.0000000008
PCB_110_115	PCB 110/115	0.0000005968	-.0000001481	-.0000000852
PCB_128_166	PCB 128/166	-.0000000693	0.0000000061	0.0000000026
PCB_129_138_163	PCB 129/138/163	-.0000007213	0.0000000646	0.0000000237
PCB_134_143	PCB 134/143	-.0000000193	0.0000000027	0.0000000011
PCB_135_151	PCB 135/151	-.0000003812	0.0000000097	-.0000000079
PCB_139_140	PCB 139/140	-.0000000037	0.0000000008	0.0000000008
PCB_147_149	PCB 147/149	-.0000007413	-.0000000303	-.0000000337
PCB_153_168	PCB 153/168	-.0000002614	0.0000001615	0.0000000995
PCB_156_157	PCB 156/157	-.0000000236	0.0000000035	0.0000000017
PCB_171_173	PCB 171/173	-.0000000606	0.0000000022	-.0000000010
PCB_18_30	PCB 18/30	0.0000000501	-.0000000067	-.0000000028
PCB_180_193	PCB 180/193	-.0000003132	0.0000000255	0.0000000008
PCB_183_185	PCB 183/185	-.0000001811	0.0000000092	-.0000000016
PCB_197_200	PCB 197/200	-.0000000110	0.0000000008	-.0000000000
PCB_198_199	PCB 198/199	-.0000000695	0.0000000067	0.0000000013
PCB_20_28	PCB 20/28	0.0000000465	0.0000000047	0.0000000036
PCB_21_33	PCB 21/33	0.0000000013	0.0000000009	0.0000000004
PCB_26_29	PCB 26/29	0.0000001211	0.0000000011	0.0000000029
PCB_40_41_71	PCB 40/41/71	0.0000000732	-.0000000089	-.0000000033
PCB_44_47_65	PCB 44/47/65	0.0000003597	-.0000000067	0.0000000051
PCB_45_51	PCB 45/51	0.0000000823	-.0000000149	-.0000000050
PCB_49_69	PCB 49/69	0.0000007020	-.0000000640	-.0000000146
PCB_50_53	PCB 50/53	0.0000000794	-.0000000088	-.0000000040
PCB_59_62_75	PCB 59/62/75	0.0000000423	-.0000000020	0.0000000003
PCB_61_70_74_76	PCB 61/70/74/76	0.0000001518	-.0000000068	0.0000000027
PCB_85_117_116	PCB 85/117/116	-.0000000142	0.0000000164	0.0000000073
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.0000002798	-.0000000303	-.0000000096
PCB_88_91	PCB 88/91	0.0000000644	-.0000000139	-.0000000064
PCB_90_101_113	PCB 90/101/113	0.0000004072	-.0000000069	0.0000000110
PCB_93_98_100_102	PCB 93/98/100/102	0.0000000187	-.0000000007	-.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_205	-.0000000543	0.0000000001	-.0000000051	-.0000000006	-.0000000161
PCB_206	-.0000004689	0.0000000012	-.0000000409	-.0000000056	-.0000001350
PCB_207	-.0000000556	0.0000000002	-.0000000045	-.0000000007	-.0000000146
PCB_208	-.0000001621	0.0000000005	-.0000000138	-.0000000020	-.0000000464
PCB_209	-.0000003248	0.0000000008	-.0000000296	-.0000000040	-.0000001010
PCB_12_13	0.0000000099	0.0000000001	0.0000000025	0.0000000001	0.0000000064
PCB_107_124	-.0000000917	0.0000000010	0.0000000042	0.0000000002	0.0000000677
PCB_110_115	0.0000141352	-.0000001359	0.0000001314	0.0000000683	-.0000009343
PCB_128_166	-.0000015656	0.0000000073	-.0000001083	-.0000000139	0.0000000011
PCB_129_138_163	-.0000140499	0.0000000603	-.0000008888	-.0000001207	-.0000013092
PCB_134_143	-.0000004123	0.0000000023	-.0000000067	-.0000000026	0.0000000233
PCB_135_151	-.0000059112	0.0000000029	-.0000005260	-.0000000620	-.0000015139
PCB_139_140	-.0000001670	0.0000000011	-.0000000031	-.0000000005	0.0000000412
PCB_147_149	-.0000113124	-.0000000330	-.0000014746	-.0000001115	-.0000041309
PCB_153_168	-.0000065104	0.0000001324	0.0000005246	0.0000000002	0.0000006350
PCB_156_157	-.0000006430	0.0000000052	-.0000000119	-.0000000045	0.0000001669
PCB_171_173	-.0000008924	0.0000000013	-.0000000891	-.0000000101	-.0000002565
PCB_18_30	0.0000010315	-.0000000059	0.0000000379	0.0000000082	0.0000000274
PCB_180_193	-.0000046432	0.0000000174	-.0000003333	-.0000000549	-.0000010982
PCB_183_185	-.0000027345	0.0000000050	-.0000002565	-.0000000312	-.0000007744
PCB_197_200	-.0000001708	0.0000000004	-.0000000145	-.0000000020	-.0000000471
PCB_198_199	-.0000011419	0.0000000042	-.0000000800	-.0000000133	-.0000002629
PCB_20_28	0.0000006816	0.0000000038	0.0000001542	0.0000000094	0.0000003581
PCB_21_33	0.0000000132	0.0000000006	0.0000000087	-.0000000002	0.0000000143
PCB_26_29	0.0000020428	0.0000000000	0.0000002382	0.0000000181	0.0000004827
PCB_40_41_71	0.0000014562	-.0000000071	0.0000001000	0.0000000152	0.0000001750
PCB_44_47_65	0.0000060033	-.0000000013	0.0000007010	0.0000000691	0.0000018402
PCB_45_51	0.0000016207	-.0000000111	0.0000000430	0.0000000185	0.0000000665
PCB_49_69	0.0000129358	-.0000000443	0.0000008882	0.0000001440	0.0000020980
PCB_50_53	0.0000016277	-.0000000080	0.0000001120	0.0000000134	0.0000001492
PCB_59_62_75	0.0000007429	-.0000000013	0.0000000788	0.0000000095	0.0000001710
PCB_61_70_74_76	0.0000021296	-.0000000036	0.0000001957	0.0000000248	0.0000006278
PCB_85_117_116	-.0000007306	0.0000000137	0.0000000945	-.0000000112	0.0000003966
PCB_86_87_97_108_119_125	0.0000042115	-.0000000241	0.0000002631	0.0000000316	0.0000009423
PCB_88_91	0.0000013573	-.0000000114	0.0000000248	0.0000000123	0.0000000217
PCB_90_101_113	0.0000050823	0.0000000056	0.0000005362	0.0000000524	0.0000024137
PCB_93_98_100_102	0.0000003049	-.0000000005	0.0000000372	0.0000000032	0.0000001068

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_205	-.0000000012	-.0000000047	0.0000000134	0.0000000002	-.0000000033
PCB_206	-.0000000102	-.0000000422	0.0000001220	0.0000000021	-.0000000258
PCB_207	-.0000000012	-.0000000051	0.0000000145	0.0000000003	-.0000000028
PCB_208	-.0000000035	-.0000000148	0.0000000428	0.0000000008	-.0000000087
PCB_209	-.0000000074	-.0000000296	0.0000000879	0.0000000014	-.0000000194
PCB_12_13	0.0000000003	0.0000000003	-.0000000017	0.0000000001	0.0000000024
PCB_107_124	0.0000000011	-.0000000024	-.0000000321	0.0000000004	0.0000000154
PCB_110_115	0.0000001009	0.0000011546	-.0000030950	-.0000001478	-.0000003122
PCB_128_166	-.0000000214	-.0000001025	0.0000000863	0.0000000059	-.0000000121
PCB_129_138_163	-.0000002104	-.0000010700	0.0000021064	0.0000000631	-.0000002658
PCB_134_143	-.0000000032	-.0000000303	0.0000000553	0.0000000018	0.0000000034
PCB_135_151	-.0000001185	-.0000004632	0.0000011199	0.0000000044	-.0000003520
PCB_139_140	-.0000000005	-.0000000083	-.0000000040	0.0000000007	0.0000000078
PCB_147_149	-.0000002671	-.0000007073	0.0000020737	-.0000000403	-.0000011148
PCB_153_168	0.0000000008	-.0000007990	0.0000038486	0.0000001720	0.0000004402
PCB_156_157	-.0000000037	-.0000000449	-.0000000621	0.0000000042	0.0000000399
PCB_171_173	-.0000000196	-.0000000736	0.0000001894	0.0000000022	-.0000000591
PCB_18_30	0.0000000124	0.0000000842	-.0000001593	-.0000000063	-.0000000035
PCB_180_193	-.0000000936	-.0000004484	0.0000010804	0.0000000271	-.0000001813
PCB_183_185	-.0000000590	-.0000002311	0.0000006329	0.0000000085	-.0000001712
PCB_197_200	-.0000000036	-.0000000153	0.0000000419	0.0000000007	-.0000000092
PCB_198_199	-.0000000225	-.0000001067	0.0000002786	0.0000000064	-.0000000409
PCB_20_28	0.0000000231	0.0000000293	-.0000000944	0.0000000044	0.0000001109
PCB_21_33	0.0000000006	-.0000000033	0.0000000057	0.0000000009	0.0000000083
PCB_26_29	0.0000000410	0.0000001202	-.0000002906	0.0000000019	0.0000001548
PCB_40_41_71	0.0000000245	0.0000001178	-.0000002618	-.0000000084	0.0000000309
PCB_44_47_65	0.0000001393	0.0000004389	-.0000011666	-.0000000044	0.0000004368
PCB_45_51	0.0000000226	0.0000001596	-.0000002895	-.0000000137	-.0000000262
PCB_49_69	0.0000002328	0.0000010969	-.0000023044	-.0000000556	0.0000003266
PCB_50_53	0.0000000242	0.0000001161	-.0000002865	-.0000000082	0.0000000432
PCB_59_62_75	0.0000000164	0.0000000569	-.0000001123	-.0000000017	0.0000000393
PCB_61_70_74_76	0.0000000466	0.0000001879	-.0000004945	-.0000000067	0.0000001376
PCB_85_117_116	0.0000000009	-.0000001061	-.0000000269	0.0000000159	0.0000001615
PCB_86_87_97_108_119_125	0.0000000708	0.0000003788	-.0000013710	-.0000000338	0.0000002022
PCB_88_91	0.0000000162	0.0000001318	-.0000002870	-.0000000140	-.0000000312
PCB_90_101_113	0.0000001262	0.0000004566	-.0000018120	-.0000000046	0.0000005276
PCB_93_98_100_102	0.0000000073	0.0000000235	-.0000000787	-.0000000010	0.0000000239

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_205	-.0000000040	-.0000000767	-.0000000325	-.0000000145	0.0000000001
PCB_206	-.0000000255	-.0000006488	-.0000002753	-.0000000984	0.0000000017
PCB_207	-.0000000027	-.0000000761	-.0000000327	-.0000000098	0.0000000002
PCB_208	-.0000000075	-.0000002211	-.0000000940	-.0000000302	0.0000000006
PCB_209	-.0000000152	-.0000004436	-.0000001867	-.0000000664	0.0000000011
PCB_12_13	0.0000000038	0.0000000169	0.0000000071	0.0000000129	0.0000000001
PCB_107_124	-.0000000422	-.0000002081	-.0000001087	-.0000000667	0.0000000005
PCB_110_115	0.0000013146	0.0000216487	0.0000103554	0.0000012088	-.0000001407
PCB_128_166	-.0000003306	-.0000024967	-.0000011966	-.0000007226	0.0000000049
PCB_129_138_163	-.0000020400	-.0000222521	-.0000099951	-.0000048240	0.0000000558
PCB_134_143	-.0000000371	-.0000005398	-.0000002876	-.0000000112	0.0000000028
PCB_135_151	-.0000006437	-.0000086534	-.0000037623	-.0000019235	0.0000000069
PCB_139_140	-.0000000444	-.0000002933	-.0000001503	-.0000000749	0.0000000008
PCB_147_149	-.0000020629	-.0000182039	-.0000076861	-.0000068514	-.0000000349
PCB_153_168	0.0000009697	-.0000093049	-.0000041127	0.0000037724	0.0000001545
PCB_156_157	-.0000001726	-.0000011833	-.0000005552	-.0000003130	0.0000000034
PCB_171_173	-.0000001020	-.0000013392	-.0000005603	-.0000003370	0.0000000014
PCB_18_30	0.0000001118	0.0000015750	0.0000007242	0.0000001975	-.0000000062
PCB_180_193	-.0000002641	-.0000067598	-.0000027655	-.0000009079	0.0000000212
PCB_183_185	-.0000002446	-.0000039239	-.0000016714	-.0000008194	0.0000000067
PCB_197_200	-.0000000099	-.0000002351	-.0000001005	-.0000000353	0.0000000006
PCB_198_199	-.0000000525	-.0000016052	-.0000006812	-.0000001776	0.0000000055
PCB_20_28	0.0000002179	0.0000011448	0.0000004833	0.0000007581	0.0000000059
PCB_21_33	0.0000000221	0.0000000482	0.0000000224	0.0000000668	0.0000000009
PCB_26_29	0.0000004432	0.0000033071	0.0000014828	0.0000012624	0.0000000023
PCB_40_41_71	0.0000001589	0.0000021043	0.0000009707	0.0000003731	-.0000000072
PCB_44_47_65	0.0000008781	0.0000091876	0.0000039302	0.0000029041	-.0000000002
PCB_45_51	0.0000000368	0.0000021222	0.0000009899	-.0000000653	-.0000000133
PCB_49_69	0.0000011401	0.0000185794	0.0000082920	0.0000029012	-.0000000520
PCB_50_53	0.0000002374	0.0000024448	0.0000011569	0.0000005362	-.0000000074
PCB_59_62_75	0.0000001029	0.0000010665	0.0000004794	0.0000003032	-.0000000010
PCB_61_70_74_76	0.0000001730	0.0000030612	0.0000012728	0.0000006047	-.0000000051
PCB_85_117_116	0.0000000937	-.0000007898	-.0000004282	0.0000005811	0.0000000155
PCB_86_87_97_108_119_125	0.0000002807	0.0000064895	0.0000026921	0.0000008763	-.0000000271
PCB_88_91	0.0000000570	0.0000019943	0.0000008909	0.0000000250	-.0000000127
PCB_90_101_113	0.0000001750	0.0000074778	0.0000028230	0.0000013538	-.0000000046
PCB_93_98_100_102	0.0000000464	0.0000005146	0.0000002042	0.0000001712	-.0000000003

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_205	-.0000000008	-.0000000589	-.0000000848	-.0000000507	-.0000000693
PCB_206	-.0000000035	-.0000004638	-.0000006593	-.0000003829	-.0000005571
PCB_207	-.0000000003	-.0000000515	-.0000000731	-.0000000410	-.0000000631
PCB_208	-.0000000007	-.0000001542	-.0000002176	-.0000001253	-.0000001867
PCB_209	-.0000000008	-.0000003241	-.0000004599	-.0000002699	-.0000003865
PCB_12_13	0.0000000005	0.0000000324	0.0000000524	0.0000000365	0.0000000330
PCB_107_124	-.0000000209	-.0000001112	-.0000001514	-.0000001011	-.0000001588
PCB_110_115	0.0000007000	0.0000083937	0.0000136161	0.0000030871	0.0000130890
PCB_128_166	-.0000000946	-.0000020996	-.0000030321	-.0000020518	-.0000025581
PCB_129_138_163	-.0000007307	-.0000154065	-.0000225992	-.0000131358	-.0000191099
PCB_134_143	-.0000000245	-.0000001851	-.0000002085	-.0000000499	-.0000002904
PCB_135_151	-.0000002397	-.0000064936	-.0000091330	-.0000055983	-.0000075542
PCB_139_140	-.0000000202	-.0000001838	-.0000002664	-.0000001549	-.0000002424
PCB_147_149	-.0000006851	-.0000185815	-.0000278035	-.0000180648	-.0000201350
PCB_153_168	0.0000000588	0.0000037735	0.0000028757	0.0000098968	0.0000009842
PCB_156_157	-.0000000635	-.0000007339	-.0000010126	-.0000007019	-.0000009901
PCB_171_173	-.0000000219	-.0000011285	-.0000016646	-.0000010391	-.0000013058
PCB_18_30	0.0000000539	0.0000007884	0.0000010960	0.0000005260	0.0000010764
PCB_180_193	-.0000000539	-.0000041317	-.0000058236	-.0000032455	-.0000051937
PCB_183_185	-.0000000498	-.0000031071	-.0000045179	-.0000027386	-.0000036427
PCB_197_200	-.0000000018	-.0000001650	-.0000002310	-.0000001358	-.0000001986
PCB_198_199	-.0000000142	-.0000009517	-.0000013088	-.0000007086	-.0000012038
PCB_20_28	0.0000000219	0.0000019816	0.0000030616	0.0000022495	0.0000020682
PCB_21_33	0.0000000062	0.0000001330	0.0000002210	0.0000001561	0.0000001291
PCB_26_29	0.0000001219	0.0000034658	0.0000052805	0.0000034517	0.0000038713
PCB_40_41_71	0.0000000376	0.0000015143	0.0000021599	0.0000013132	0.0000018926
PCB_44_47_65	0.0000001972	0.0000089532	0.0000132022	0.0000087330	0.0000100725
PCB_45_51	0.0000000228	0.0000006538	0.0000005983	0.0000002141	0.0000011019
PCB_49_69	0.0000003783	0.0000119921	0.0000161174	0.0000098636	0.0000149863
PCB_50_53	0.0000000682	0.0000018912	0.0000028531	0.0000016504	0.0000023212
PCB_59_62_75	0.0000000152	0.0000010254	0.0000014451	0.0000010283	0.0000011844
PCB_61_70_74_76	0.0000000346	0.0000023159	0.0000033478	0.0000020089	0.0000027261
PCB_85_117_116	0.0000000045	0.0000009418	0.0000020136	0.0000012846	0.0000005814
PCB_86_87_97_108_119_125	0.0000000862	0.0000039370	0.0000066224	0.0000026329	0.0000049901
PCB_88_91	0.0000000358	0.0000006458	0.0000008458	0.0000002005	0.0000010665
PCB_90_101_113	0.0000001083	0.0000052356	0.0000080610	0.0000038130	0.0000058377
PCB_93_98_100_102	0.0000000089	0.0000005045	0.0000007962	0.0000004859	0.0000005694

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_205	-.0000000012	0.0000000002	-.0000000013	-.0000000004	-.0000000002
PCB_206	-.0000000091	0.0000000021	-.0000000071	-.0000000028	-.0000000012
PCB_207	-.0000000010	0.0000000003	-.0000000007	-.0000000003	-.0000000001
PCB_208	-.0000000030	0.0000000008	-.0000000022	-.0000000009	-.0000000004
PCB_209	-.0000000064	0.0000000014	-.0000000055	-.0000000019	-.0000000009
PCB_12_13	0.0000000008	0.0000000001	0.0000000027	0.0000000003	0.0000000002
PCB_107_124	-.0000000003	0.0000000004	0.0000000020	-.0000000016	-.0000000000
PCB_110_115	0.0000000690	-.0000001478	-.0000004844	0.0000000302	-.0000000218
PCB_128_166	-.0000000313	0.0000000059	-.0000000769	-.0000000185	-.0000000037
PCB_129_138_163	-.0000002581	0.0000000631	-.0000002555	-.0000001232	-.0000000370
PCB_134_143	-.0000000013	0.0000000018	0.0000000163	0.0000000002	0.0000000005
PCB_135_151	-.0000001369	0.0000000044	-.0000001297	-.0000000464	-.0000000256
PCB_139_140	-.0000000020	0.0000000007	0.0000000003	-.0000000017	-.0000000001
PCB_147_149	-.0000004340	-.0000000403	-.0000006889	-.0000001615	-.0000000892
PCB_153_168	0.0000001291	0.0000001720	0.0000010562	0.0000000879	0.0000000576
PCB_156_157	-.0000000065	0.0000000042	-.0000000230	-.0000000084	-.0000000010
PCB_171_173	-.0000000233	0.0000000022	-.0000000409	-.0000000088	-.0000000041
PCB_18_30	0.0000000104	-.0000000063	-.0000000147	0.0000000050	0.0000000009
PCB_180_193	-.0000000757	0.0000000271	-.0000000659	-.0000000276	-.0000000123
PCB_183_185	-.0000000632	0.0000000085	-.0000000887	-.0000000216	-.0000000100
PCB_197_200	-.0000000032	0.0000000007	-.0000000027	-.0000000010	-.0000000005
PCB_198_199	-.0000000168	0.0000000064	0.0000000005	-.0000000053	-.0000000022
PCB_20_28	0.0000000438	0.0000000044	0.0000001366	0.0000000192	0.0000000079
PCB_21_33	0.0000000034	0.0000000009	0.0000000105	0.0000000015	0.0000000007
PCB_26_29	0.0000000723	0.0000000019	0.0000001555	0.0000000305	0.0000000126
PCB_40_41_71	0.0000000230	-.0000000084	0.0000000273	0.0000000102	0.0000000018
PCB_44_47_65	0.0000001848	-.0000000044	0.0000003319	0.0000000739	0.0000000320
PCB_45_51	0.0000000002	-.0000000137	-.0000000567	-.0000000001	-.0000000025
PCB_49_69	0.0000001951	-.0000000556	0.0000000723	0.0000000783	0.0000000256
PCB_50_53	0.0000000312	-.0000000082	0.0000000427	0.0000000134	0.0000000027
PCB_59_62_75	0.0000000184	-.0000000017	0.0000000426	0.0000000081	0.0000000026
PCB_61_70_74_76	0.0000000484	-.0000000067	0.0000000707	0.0000000162	0.0000000084
PCB_85_117_116	0.0000000411	0.0000000159	0.0000001262	0.0000000118	0.0000000095
PCB_86_87_97_108_119_125	0.0000000815	-.0000000338	0.0000000344	0.0000000237	0.0000000097
PCB_88_91	0.0000000028	-.0000000140	-.0000000527	0.0000000020	-.0000000016
PCB_90_101_113	0.0000001464	-.0000000046	0.0000000374	0.0000000320	0.0000000311
PCB_93_98_100_102	0.0000000108	-.0000000010	0.0000000198	0.0000000045	0.0000000019

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_205	-.0000000444	0.0000000017	-.0000000040	0.0000000010	-.0000008772
PCB_206	-.0000003845	0.0000000262	-.0000000296	0.0000000136	-.0000073946
PCB_207	-.0000000455	0.0000000036	-.0000000034	0.0000000014	-.0000008568
PCB_208	-.0000001320	0.0000000105	-.0000000095	0.0000000051	-.0000025185
PCB_209	-.0000002625	0.0000000197	-.0000000186	0.0000000118	-.0000050916
PCB_12_13	0.0000000076	0.0000000041	0.0000000021	0.0000000013	0.0000002082
PCB_107_124	-.0000001825	-.0000000207	-.0000000384	-.0000000277	-.0000023507
PCB_110_115	0.0000127789	-.0000008924	0.0000015477	0.0000003989	0.0002076035
PCB_128_166	-.0000019513	-.0000001275	-.0000002970	-.0000001470	-.0000296343
PCB_129_138_163	-.0000143085	-.0000002347	-.0000018903	-.0000006145	-.0002469846
PCB_134_143	-.0000003032	0.0000000264	-.0000000448	-.0000000259	-.0000055383
PCB_135_151	-.0000046253	-.0000000035	-.0000005614	-.0000001058	-.0000981560
PCB_139_140	-.0000002111	-.0000000166	-.0000000405	-.0000000247	-.0000032129
PCB_147_149	-.0000088284	-.0000011434	-.0000014679	-.0000003373	-.0002121688
PCB_153_168	-.0000028660	0.0000022287	0.0000003553	0.0000009146	-.0000499743
PCB_156_157	-.0000010234	-.0000000639	-.0000001587	-.0000001103	-.0000136391
PCB_171_173	-.0000007888	-.0000000131	-.0000000855	-.0000000081	-.0000153430
PCB_18_30	0.0000009925	-.0000000385	0.0000001206	0.0000000396	0.0000168406
PCB_180_193	-.0000041422	0.0000002878	-.0000003044	0.0000000546	-.0000750027
PCB_183_185	-.0000022804	0.0000000389	-.0000002242	0.0000000111	-.0000447177
PCB_197_200	-.0000001388	0.0000000091	-.0000000112	0.0000000034	-.0000026802
PCB_198_199	-.0000009776	0.0000000879	-.0000000723	0.0000000273	-.0000179604
PCB_20_28	0.0000008256	0.0000002023	0.0000001455	0.0000000395	0.0000157072
PCB_21_33	0.0000000117	0.0000000263	0.0000000121	0.0000000091	0.0000006166
PCB_26_29	0.0000019578	0.0000002603	0.0000003339	0.0000001295	0.0000386002
PCB_40_41_71	0.0000015032	-.0000000260	0.0000001688	0.0000000257	0.0000242984
PCB_44_47_65	0.0000057074	0.0000003098	0.0000007244	0.0000000609	0.0001102067
PCB_45_51	0.0000015691	-.0000002172	0.0000001143	0.0000000002	0.0000237614
PCB_49_69	0.0000123439	-.0000005186	0.0000012761	0.0000001177	0.0002148750
PCB_50_53	0.0000016072	0.0000000383	0.0000002210	0.0000000631	0.0000272058
PCB_59_62_75	0.0000008025	0.0000000247	0.0000000952	0.0000000179	0.0000133985
PCB_61_70_74_76	0.0000017239	-.0000000459	0.0000001556	-.0000000056	0.0000344891
PCB_85_117_116	-.0000011701	0.0000003055	-.0000000416	-.0000000206	-.0000095212
PCB_86_87_97_108_119_125	0.0000030230	-.0000001914	0.0000002533	-.0000000944	0.0000628448
PCB_88_91	0.0000013429	-.0000001587	0.0000001084	-.0000000047	0.0000207790
PCB_90_101_113	0.0000022024	-.0000002625	0.0000000937	-.0000003045	0.0000766048
PCB_93_98_100_102	0.0000003031	0.0000000197	0.0000000356	-.0000000041	0.0000058719

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_205	-.0000000060	0.0000000016	0.0000000081	-.0000000164	-.0000000057
PCB_206	-.0000000510	0.0000000146	0.0000000652	-.0000001298	-.0000000453
PCB_207	-.0000000060	0.0000000017	0.0000000066	-.0000000142	-.0000000050
PCB_208	-.0000000175	0.0000000050	0.0000000222	-.0000000434	-.0000000152
PCB_209	-.0000000350	0.0000000107	0.0000000520	-.0000000922	-.0000000320
PCB_12_13	0.0000000012	-.0000000005	-.0000000051	0.0000000087	0.0000000027
PCB_107_124	-.0000000143	-.0000000064	-.0000000974	-.0000000044	-.0000000060
PCB_110_115	0.0000016971	-.0000002847	0.0000015055	0.0000012285	0.0000004847
PCB_128_166	-.0000001908	0.0000000020	-.0000003638	-.0000004147	-.0000001645
PCB_129_138_163	-.0000016557	0.0000002298	-.0000010606	-.0000034979	-.0000013207
PCB_134_143	-.0000000505	-.0000000066	-.0000000196	-.0000000327	-.0000000107
PCB_135_151	-.0000006744	0.0000000995	0.0000007690	-.0000018266	-.0000006256
PCB_139_140	-.0000000227	-.0000000039	-.0000000624	-.0000000257	-.0000000113
PCB_147_149	-.0000013471	0.0000002616	0.0000028561	-.0000051653	-.0000016992
PCB_153_168	-.0000007133	0.0000005297	0.0000007607	0.0000012827	0.0000004922
PCB_156_157	-.0000000795	-.0000000081	-.0000004160	-.0000001066	-.0000000600
PCB_171_173	-.0000000986	0.0000000281	0.0000000933	-.0000003060	-.0000001073
PCB_18_30	0.0000001213	-.0000000103	0.0000001148	0.0000001684	0.0000000677
PCB_180_193	-.0000004924	0.0000001561	0.0000001291	-.0000011596	-.0000004378
PCB_183_185	-.0000003015	0.0000000806	0.0000003537	-.0000008524	-.0000002950
PCB_197_200	-.0000000186	0.0000000047	0.0000000215	-.0000000465	-.0000000163
PCB_198_199	-.0000001241	0.0000000319	0.0000000744	-.0000002632	-.0000000971
PCB_20_28	0.0000000810	-.0000000274	-.0000001626	0.0000004973	0.0000001674
PCB_21_33	0.0000000029	-.0000000002	-.0000000185	0.0000000330	0.0000000098
PCB_26_29	0.0000002474	-.0000000398	-.0000001946	0.0000008531	0.0000002885
PCB_40_41_71	0.0000001673	-.0000000248	0.0000000803	0.0000003358	0.0000001271
PCB_44_47_65	0.0000006898	-.0000001592	-.0000007449	0.0000023325	0.0000008114
PCB_45_51	0.0000001778	-.0000000103	0.0000002363	0.0000001359	0.0000000706
PCB_49_69	0.0000014649	-.0000001829	0.0000002260	0.0000029919	0.0000011372
PCB_50_53	0.0000001945	-.0000000271	0.0000000385	0.0000004056	0.0000001437
PCB_59_62_75	0.0000000841	-.0000000120	0.0000000051	0.0000002495	0.0000000917
PCB_61_70_74_76	0.0000002301	-.0000000675	-.0000002707	0.0000006619	0.0000002307
PCB_85_117_116	-.0000000733	-.0000000364	-.0000007596	0.0000003236	0.0000000615
PCB_86_87_97_108_119_125	0.0000004648	-.0000002215	-.0000006859	0.0000010465	0.0000003421
PCB_88_91	0.0000001518	-.0000000284	0.0000002048	0.0000001212	0.0000000614
PCB_90_101_113	0.0000005468	-.0000002547	-.0000022669	0.0000018532	0.0000005689
PCB_93_98_100_102	0.0000000345	-.0000000160	-.0000000455	0.0000001306	0.0000000456

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_205	0.0000000158	-.0000000113	-.0000000271	-.0000001829	-.0000000158
PCB_206	0.0000001375	-.0000000900	-.0000002513	-.0000014886	-.0000001240
PCB_207	0.0000000158	-.0000000096	-.0000000324	-.0000001614	-.0000000137
PCB_208	0.0000000478	-.0000000300	-.0000000880	-.0000005007	-.0000000413
PCB_209	0.0000001003	-.0000000652	-.0000001599	-.0000010851	-.0000000868
PCB_12_13	-.0000000043	0.0000000061	-.0000000044	0.0000000883	0.0000000079
PCB_107_124	-.0000000530	0.0000000146	-.0000003180	0.0000004145	-.0000000201
PCB_110_115	-.0000021646	0.0000004115	0.0000151322	0.0000096068	0.0000017798
PCB_128_166	0.0000000399	-.0000001759	-.0000023601	-.0000017022	-.0000004556
PCB_129_138_163	0.0000019273	-.0000019323	-.0000145210	-.0000271700	-.0000038066
PCB_134_143	0.0000000576	0.0000000033	-.0000003593	0.0000000864	-.0000000525
PCB_135_151	0.0000014759	-.0000011747	-.0000027884	-.0000179128	-.0000018593
PCB_139_140	-.0000000155	-.0000000019	-.0000002936	0.0000001078	-.0000000385
PCB_147_149	0.0000033692	-.0000036212	-.0000019058	-.0000541530	-.0000050769
PCB_153_168	0.0000027792	0.0000004635	-.0000027603	-.0000059316	0.0000010764
PCB_156_157	-.0000001533	0.0000000076	-.0000015893	0.0000008586	-.0000001574
PCB_171_173	0.0000002271	-.0000002038	-.0000005266	-.0000031416	-.0000002985
PCB_18_30	-.0000001251	0.0000000740	0.0000011222	0.0000010481	0.0000002049
PCB_180_193	0.0000010702	-.0000007475	-.0000035726	-.0000122182	-.0000011631
PCB_183_185	0.0000007519	-.0000005725	-.0000014642	-.0000090792	-.0000008263
PCB_197_200	0.0000000478	-.0000000312	-.0000000944	-.0000005096	-.0000000450
PCB_198_199	0.0000002861	-.0000001732	-.0000008001	-.0000028907	-.0000002631
PCB_20_28	-.0000001968	0.0000003440	0.0000003382	0.0000048176	0.0000004500
PCB_21_33	-.0000000064	0.0000000232	-.0000000389	0.0000003086	0.0000000317
PCB_26_29	-.0000004336	0.0000005448	0.0000012714	0.0000077137	0.0000008484
PCB_40_41_71	-.0000002428	0.0000001843	0.0000015553	0.0000026728	0.0000003445
PCB_44_47_65	-.0000015155	0.0000015769	0.0000035989	0.0000234745	0.0000022482
PCB_45_51	-.0000002031	0.0000000157	0.0000020140	0.0000002473	0.0000001781
PCB_49_69	-.0000023310	0.0000016995	0.0000119360	0.0000250661	0.0000031282
PCB_50_53	-.0000002869	0.0000002284	0.0000015558	0.0000033318	0.0000004222
PCB_59_62_75	-.0000001329	0.0000001477	0.0000007357	0.0000020303	0.0000002411
PCB_61_70_74_76	-.0000005860	0.0000004432	0.0000010873	0.0000070791	0.0000006450
PCB_85_117_116	-.0000002738	0.0000003539	-.0000026102	0.0000059135	0.0000002389
PCB_86_87_97_108_119_125	-.0000013939	0.0000008057	0.0000015692	0.0000148624	0.0000010378
PCB_88_91	-.0000001816	0.0000000409	0.0000016639	0.0000008522	0.0000001634
PCB_90_101_113	-.0000023817	0.0000015478	-.0000020938	0.0000273463	0.0000017575
PCB_93_98_100_102	-.0000000893	0.0000000972	0.0000001647	0.0000015284	0.0000001235

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_205	-.0000000328	-.0000000460	0.0000000068	-.0000000001	-.0000000084
PCB_206	-.0000002644	-.0000003648	0.0000000633	-.0000000003	-.0000000697
PCB_207	-.0000000288	-.0000000397	0.0000000074	-.0000000000	-.0000000080
PCB_208	-.0000000888	-.0000001218	0.0000000223	-.0000000001	-.0000000234
PCB_209	-.0000001904	-.0000002599	0.0000000462	-.0000000003	-.0000000483
PCB_12_13	0.0000000158	0.0000000237	-.0000000000	0.0000000000	0.0000000024
PCB_107_124	0.0000000296	-.0000000084	-.0000000295	0.0000000008	0.0000000058
PCB_110_115	0.0000021680	0.0000034260	-.0000014397	-.0000001163	0.0000022837
PCB_128_166	-.0000005786	-.0000011177	-.0000000630	0.0000000031	-.0000000511
PCB_129_138_163	-.0000059052	-.0000095517	0.0000006787	0.0000000215	-.0000018258
PCB_134_143	-.0000000424	-.0000000986	0.0000000287	0.0000000025	-.0000000403
PCB_135_151	-.0000034470	-.0000050952	0.0000005698	-.0000000082	-.0000009904
PCB_139_140	-.0000000209	-.0000000721	-.0000000128	0.0000000012	-.0000000092
PCB_147_149	-.0000099797	-.0000146646	0.0000009863	-.0000000282	-.0000024107
PCB_153_168	0.0000008511	0.0000033461	0.0000024992	0.0000001219	-.0000024705
PCB_156_157	-.0000000158	-.0000002256	-.0000001003	0.0000000006	0.0000000035
PCB_171_173	-.0000005738	-.0000008351	0.0000000826	-.0000000016	-.0000001440
PCB_18_30	0.0000002689	0.0000004558	-.0000000653	-.0000000028	0.0000001327
PCB_180_193	-.0000021671	-.0000030548	0.0000005220	-.0000000084	-.0000007274
PCB_183_185	-.0000016514	-.0000023590	0.0000003036	-.0000000029	-.0000004247
PCB_197_200	-.0000000925	-.0000001296	0.0000000216	-.0000000002	-.0000000247
PCB_198_199	-.0000005235	-.0000007283	0.0000001447	-.0000000007	-.0000001656
PCB_20_28	0.0000009171	0.0000013982	0.0000000129	0.0000000035	0.0000000580
PCB_21_33	0.0000000592	0.0000000941	0.0000000065	0.0000000000	0.0000000083
PCB_26_29	0.0000015345	0.0000023867	-.0000000695	-.0000000003	0.0000003045
PCB_40_41_71	0.0000005930	0.0000009379	-.0000000909	-.0000000027	0.0000001156
PCB_44_47_65	0.0000044402	0.0000065814	-.0000004603	0.0000000104	0.0000008320
PCB_45_51	0.0000001914	0.0000003495	-.0000001344	-.0000000021	0.0000000939
PCB_49_69	0.0000053911	0.0000083271	-.0000010011	0.0000000028	0.0000013379
PCB_50_53	0.0000007217	0.0000011463	-.0000000950	-.0000000064	0.0000001750
PCB_59_62_75	0.0000004388	0.0000006937	-.0000000263	0.0000000012	0.0000000392
PCB_61_70_74_76	0.0000012647	0.0000017942	-.0000002422	0.0000000042	0.0000003591
PCB_85_117_116	0.0000008121	0.0000009895	-.0000000461	0.0000000005	0.0000001817
PCB_86_87_97_108_119_125	0.0000022506	0.0000028526	-.0000007398	-.0000000149	0.0000010966
PCB_88_91	0.0000002013	0.0000003099	-.0000001368	-.0000000042	0.0000001657
PCB_90_101_113	0.0000041979	0.0000052582	-.0000011917	0.0000000114	0.0000016720
PCB_93_98_100_102	0.0000002591	0.0000003646	-.0000000331	0.0000000004	0.0000000633

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_205	0.0000000004	-.0000000011	-.0000000168	-.0000000242	0.0000000015
PCB_206	0.0000000032	-.0000000425	-.0000001377	-.0000001917	0.0000000136
PCB_207	0.0000000004	-.0000000083	-.0000000147	-.0000000249	0.0000000015
PCB_208	0.0000000011	-.0000000183	-.0000000456	-.0000000623	0.0000000048
PCB_209	0.0000000023	-.0000000243	-.0000000993	-.0000001057	0.0000000105
PCB_12_13	-.0000000002	-.0000000138	0.0000000074	0.0000000048	-.0000000005
PCB_107_124	-.0000000009	-.0000000198	0.0000000161	-.0000004403	-.0000000139
PCB_110_115	-.0000000031	0.0000089106	0.0000016468	0.0000186369	0.0000000966
PCB_128_166	0.0000000075	0.0000001171	-.0000002191	-.0000028143	-.0000000426
PCB_129_138_163	0.0000000502	-.0000017464	-.0000032289	-.0000180150	-.0000000692
PCB_134_143	0.0000000009	-.0000001482	0.0000000575	-.0000004137	-.0000000028
PCB_135_151	0.0000000360	0.0000002921	-.0000014969	-.0000035871	0.0000001154
PCB_139_140	-.0000000000	-.0000000232	0.0000000004	-.0000004062	-.0000000092
PCB_147_149	0.0000001028	0.0000047348	-.0000049516	-.0000062454	0.0000003159
PCB_153_168	-.0000000418	-.0000126051	-.0000016258	-.0000024476	0.0000002592
PCB_156_157	-.0000000019	-.0000001472	-.0000000198	-.0000019674	-.0000000507
PCB_171_173	0.0000000061	0.0000000476	-.0000003093	-.0000006203	0.0000000182
PCB_18_30	-.0000000015	0.0000003460	0.0000001313	0.0000013106	0.0000000084
PCB_180_193	0.0000000185	-.0000011291	-.0000013287	-.0000033584	0.0000000787
PCB_183_185	0.0000000190	-.0000000053	-.0000008355	-.0000014975	0.0000000670
PCB_197_200	0.0000000011	-.0000000149	-.0000000452	-.0000000759	0.0000000045
PCB_198_199	0.0000000054	-.0000002536	-.0000002884	-.0000006658	0.0000000238
PCB_20_28	-.0000000129	-.0000008404	0.0000004708	0.0000005842	-.0000000181
PCB_21_33	-.0000000007	-.0000000801	0.0000000274	0.0000000339	-.0000000003
PCB_26_29	-.0000000178	-.0000007315	0.0000007322	0.0000021313	-.0000000178
PCB_40_41_71	-.0000000081	0.0000001560	0.0000002755	0.0000015352	-.0000000032
PCB_44_47_65	-.0000000525	-.0000015676	0.0000023110	0.0000043037	-.0000001221
PCB_45_51	-.0000000027	0.0000007612	0.0000000071	0.0000016015	0.0000000053
PCB_49_69	-.0000000615	0.0000014483	0.0000024208	0.0000114797	-.0000000879
PCB_50_53	-.0000000095	0.0000001169	0.0000003299	0.0000018534	-.0000000015
PCB_59_62_75	-.0000000064	-.0000001710	0.0000001875	0.0000006984	-.0000000053
PCB_61_70_74_76	-.0000000134	0.0000000950	0.0000006550	0.0000011358	-.0000000531
PCB_85_117_116	-.0000000094	-.0000011314	0.0000005139	-.0000018743	-.0000000670
PCB_86_87_97_108_119_125	-.0000000159	0.0000017785	0.0000016644	0.0000024493	-.0000001265
PCB_88_91	0.0000000001	0.0000008258	0.0000001754	0.0000016004	0.0000000060
PCB_90_101_113	-.0000000342	0.0000004233	0.0000025049	-.0000014627	-.0000003152
PCB_93_98_100_102	-.0000000024	-.0000000462	0.0000001802	0.0000002388	-.0000000081

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_205	-.0000002241	-.0000000040	-.0000001356	-.0000000018	-.0000005556
PCB_206	-.0000018483	-.0000000308	-.0000012473	-.0000000142	-.0000045722
PCB_207	-.0000002033	-.0000000033	-.0000001606	-.0000000017	-.0000004931
PCB_208	-.0000006260	-.0000000101	-.0000004343	-.0000000047	-.0000015545
PCB_209	-.0000013430	-.0000000219	-.0000008010	-.0000000087	-.0000034197
PCB_12_13	0.0000000951	0.0000000027	-.0000000133	0.0000000006	0.0000002601
PCB_107_124	0.0000005264	-.0000000018	-.0000012247	-.0000000192	0.0000031686
PCB_110_115	0.0000176634	0.0000003128	0.0000806118	0.0000009620	0.0000034080
PCB_128_166	-.0000017373	-.0000001117	-.0000092455	-.0000001380	0.0000065681
PCB_129_138_163	-.0000328488	-.0000009068	-.0000654429	-.0000009411	-.0000305128
PCB_134_143	-.0000002073	0.0000000032	-.0000016557	-.0000000231	0.0000001394
PCB_135_151	-.0000223658	-.0000004147	-.0000136029	-.0000002422	-.0000546338
PCB_139_140	0.0000001152	-.0000000069	-.0000012210	-.0000000195	0.0000017064
PCB_147_149	-.0000632463	-.0000014168	-.0000129122	-.0000005066	-.0001662770
PCB_153_168	-.0000152665	0.0000002677	-.0000389919	-.0000001706	-.0000622805
PCB_156_157	0.0000012529	-.0000000256	-.0000061477	-.0000000854	0.0000116397
PCB_171_173	-.0000037008	-.0000000793	-.0000025291	-.0000000391	-.0000082944
PCB_18_30	0.0000015285	0.0000000336	0.0000051435	0.0000000665	0.0000001963
PCB_180_193	-.0000150457	-.0000002598	-.0000170017	-.0000001866	-.0000302092
PCB_183_185	-.0000110245	-.0000002110	-.0000072150	-.0000001023	-.0000263595
PCB_197_200	-.0000006384	-.0000000105	-.0000004554	-.0000000054	-.0000015572
PCB_198_199	-.0000036863	-.0000000569	-.0000038189	-.0000000404	-.0000081017
PCB_20_28	0.0000049836	0.0000001591	0.0000009775	0.0000000425	0.0000105584
PCB_21_33	0.0000003142	0.0000000117	-.0000001471	0.0000000030	0.0000008523
PCB_26_29	0.0000087375	0.0000002467	0.0000058178	0.0000001311	0.0000176871
PCB_40_41_71	0.0000032803	0.0000000837	0.0000066098	0.0000000820	0.0000031073
PCB_44_47_65	0.0000269552	0.0000006450	0.0000157475	0.0000002815	0.0000587820
PCB_45_51	0.0000009977	-.0000000071	0.0000083217	0.0000000762	-.0000034681
PCB_49_69	0.0000318548	0.0000006374	0.0000504249	0.0000006271	0.0000460918
PCB_50_53	0.0000040924	0.0000001123	0.0000071402	0.0000001031	0.0000053232
PCB_59_62_75	0.0000022904	0.0000000641	0.0000027393	0.0000000391	0.0000030685
PCB_61_70_74_76	0.0000086202	0.0000001575	0.0000054986	0.0000000765	0.0000209450
PCB_85_117_116	0.0000063773	0.0000001473	-.0000093645	-.0000000610	0.0000274552
PCB_86_87_97_108_119_125	0.0000186544	0.0000003093	0.0000136468	0.0000001693	0.0000507234
PCB_88_91	0.0000014877	0.0000000153	0.0000077596	0.0000000765	-.0000013458
PCB_90_101_113	0.0000342531	0.0000004644	-.0000008819	0.0000000360	0.0001133409
PCB_93_98_100_102	0.0000017060	0.0000000415	0.0000009255	0.0000000154	0.0000038771

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_205	-.0000000177	-.0000000005	-.0000001381	-.0000000588	-.0000000021
PCB_206	-.0000001498	-.0000000041	-.0000013013	-.0000005121	-.0000000157
PCB_207	-.0000000172	-.0000000004	-.0000001444	-.0000000564	-.0000000016
PCB_208	-.0000000511	-.0000000014	-.0000004664	-.0000001790	-.0000000051
PCB_209	-.0000001053	-.0000000029	-.0000010392	-.0000003921	-.0000000114
PCB_12_13	0.0000000052	0.0000000002	0.0000000151	0.0000000189	0.0000000016
PCB_107_124	-.0000000123	0.0000000007	0.0000021701	0.0000004995	0.0000000020
PCB_110_115	0.0000037440	0.0000000328	-.0000101387	-.0000018454	-.0000000840
PCB_128_166	-.0000004279	-.0000000073	0.0000102392	0.0000016016	-.0000000413
PCB_129_138_163	-.0000041484	-.0000000822	0.0000291827	0.0000014820	-.0000003604
PCB_134_143	-.0000000717	0.0000000000	0.0000004002	0.0000000202	0.0000000001
PCB_135_151	-.0000017741	-.0000000466	-.0000091184	-.0000051168	-.0000002548
PCB_139_140	-.0000000369	0.0000000000	0.0000015479	0.0000003159	-.0000000017
PCB_147_149	-.0000042000	-.0000001336	-.0000226610	-.0000137669	-.0000008941
PCB_153_168	-.0000020612	-.0000000079	-.0000678101	-.0000108117	0.0000004125
PCB_156_157	-.0000001336	0.0000000003	0.0000087103	0.0000018641	0.0000000055
PCB_171_173	-.0000003001	-.0000000085	-.0000010407	-.0000007286	-.0000000402
PCB_18_30	0.0000002627	0.0000000036	-.0000018340	-.0000001982	0.0000000083
PCB_180_193	-.0000014149	-.0000000348	-.0000063917	-.0000031111	-.0000000976
PCB_183_185	-.0000008865	-.0000000244	-.0000053507	-.0000026282	-.0000001104
PCB_197_200	-.0000000525	-.0000000014	-.0000004193	-.0000001736	-.0000000055
PCB_198_199	-.0000003406	-.0000000082	-.0000022307	-.0000009149	-.0000000248
PCB_20_28	0.0000003375	0.0000000130	-.0000015585	0.0000005720	0.0000000889
PCB_21_33	0.0000000147	0.0000000007	-.0000001406	0.0000000263	0.0000000076
PCB_26_29	0.0000007250	0.0000000204	-.0000025711	0.0000008679	0.0000001360
PCB_40_41_71	0.0000004218	0.0000000088	-.0000022506	0.0000000694	0.0000000319
PCB_44_47_65	0.0000021395	0.0000000637	0.0000027474	0.0000046305	0.0000003520
PCB_45_51	0.0000003365	0.0000000033	-.0000019695	-.0000002167	-.0000000200
PCB_49_69	0.0000035883	0.0000000777	-.0000065992	0.0000035482	0.0000002934
PCB_50_53	0.0000004921	0.0000000100	-.0000025146	0.0000001067	0.0000000475
PCB_59_62_75	0.0000002320	0.0000000063	-.0000014719	0.0000001369	0.0000000322
PCB_61_70_74_76	0.0000006807	0.0000000188	0.0000047289	0.0000021341	0.0000000811
PCB_85_117_116	0.0000000662	0.0000000109	0.0000094903	0.0000026951	0.0000001093
PCB_86_87_97_108_119_125	0.0000015118	0.0000000364	0.0000182764	0.0000052988	0.0000001121
PCB_88_91	0.0000003408	0.0000000039	-.0000011274	-.0000001816	-.0000000160
PCB_90_101_113	0.0000019265	0.0000000623	0.0000457091	0.0000129940	0.0000003011
PCB_93_98_100_102	0.0000001305	0.0000000040	0.0000004882	0.0000003032	0.0000000194

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_205	-.0000000095	-.0000007187	-.0000000078	-.0000000007	-.0000000021
PCB_206	-.0000000926	-.0000062582	-.0000000598	-.0000000054	-.0000000201
PCB_207	-.0000000105	-.0000006840	-.0000000062	-.0000000006	-.0000000022
PCB_208	-.0000000335	-.0000021813	-.0000000197	-.0000000018	-.0000000073
PCB_209	-.0000000740	-.0000048132	-.0000000434	-.0000000039	-.0000000168
PCB_12_13	0.0000000003	0.0000002291	0.0000000050	0.0000000004	0.0000000005
PCB_107_124	0.0000001548	0.0000067105	0.0000000097	0.0000000005	0.0000000460
PCB_110_115	-.0000005026	-.0000256875	-.0000002198	0.0000000003	-.0000005173
PCB_128_166	0.0000007281	0.0000243578	-.0000001328	-.0000000133	0.0000002240
PCB_129_138_163	0.0000021083	0.0000326399	-.0000012776	-.0000001243	0.0000007653
PCB_134_143	0.0000000310	0.0000007006	-.0000000020	-.0000000001	0.0000000200
PCB_135_151	-.0000005378	-.0000623200	-.0000009112	-.0000000790	-.0000001105
PCB_139_140	0.0000001117	0.0000043550	-.0000000024	-.0000000005	0.0000000350
PCB_147_149	-.0000011348	-.0001743448	-.0000028998	-.0000002514	-.0000003650
PCB_153_168	-.0000052438	-.0001632996	0.0000012330	0.0000000898	-.0000011368
PCB_156_157	0.0000006083	0.0000258388	0.0000000106	-.0000000003	0.0000001786
PCB_171_173	-.0000000664	-.0000086638	-.0000001451	-.0000000129	-.0000000154
PCB_18_30	-.0000001264	-.0000033572	0.0000000398	0.0000000044	-.0000000551
PCB_180_193	-.0000004934	-.0000369832	-.0000004509	-.0000000416	-.0000000927
PCB_183_185	-.0000003633	-.0000317124	-.0000004033	-.0000000357	-.0000000810
PCB_197_200	-.0000000296	-.0000020996	-.0000000213	-.0000000019	-.0000000063
PCB_198_199	-.0000001652	-.0000110176	-.0000001062	-.0000000099	-.0000000292
PCB_20_28	-.0000001404	0.0000055445	0.0000002741	0.0000000241	-.0000000255
PCB_21_33	-.0000000154	0.0000003397	0.0000000213	0.0000000018	-.0000000020
PCB_26_29	-.0000002404	0.0000088789	0.0000004294	0.0000000380	-.0000000665
PCB_40_41_71	-.0000001494	-.0000013850	0.0000001162	0.0000000115	-.0000000675
PCB_44_47_65	0.0000000956	0.0000530671	0.0000011728	0.0000001053	0.0000000024
PCB_45_51	-.0000001023	-.0000053080	-.0000000201	-.0000000005	-.0000000731
PCB_49_69	-.0000004523	0.0000297407	0.0000011580	0.0000001094	-.0000003323
PCB_50_53	-.0000001809	-.0000006567	0.0000001522	0.0000000147	-.0000000764
PCB_59_62_75	-.0000001069	0.0000001311	0.0000001113	0.0000000101	-.0000000369
PCB_61_70_74_76	0.0000003247	0.0000260783	0.0000003111	0.0000000272	0.0000000796
PCB_85_117_116	0.0000005942	0.0000380466	0.0000002992	0.0000000243	0.0000002166
PCB_86_87_97_108_119_125	0.0000013177	0.0000714902	0.0000004256	0.0000000401	0.0000003271
PCB_88_91	-.0000000461	-.0000032244	-.0000000217	0.0000000000	-.0000000480
PCB_90_101_113	0.0000031111	0.0001751049	0.0000010883	0.0000000927	0.0000008709
PCB_93_98_100_102	0.0000000316	0.0000038404	0.0000000642	0.0000000060	0.0000000090

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_205	-.0000000096	0.0000000004	-.0000000005	0.0000000202	0.0000000023
PCB_206	-.0000000879	-.0000000012	-.0000000048	0.0000001670	0.0000000168
PCB_207	-.0000000094	-.0000000003	-.0000000005	0.0000000208	0.0000000019
PCB_208	-.0000000309	-.0000000010	-.0000000018	0.0000000561	0.0000000054
PCB_209	-.0000000699	-.0000000019	-.0000000042	0.0000001028	0.0000000107
PCB_12_13	0.0000000022	-.0000000016	-.0000000001	-.0000000032	-.0000000012
PCB_107_124	0.0000001201	0.0000000190	0.0000000142	0.0000002407	0.0000000181
PCB_110_115	-.0000013210	0.0000000965	-.0000001266	-.0000110072	-.0000005911
PCB_128_166	0.0000005006	0.0000001300	0.0000000773	0.0000017300	0.0000001486
PCB_129_138_163	0.0000012263	0.0000005524	0.0000002844	0.0000108516	0.0000009101
PCB_134_143	0.0000000876	0.0000000100	0.0000000037	0.0000003378	0.0000000342
PCB_135_151	-.0000005155	0.0000001847	-.0000000157	0.0000027870	0.0000003738
PCB_139_140	0.0000000938	0.0000000174	0.0000000108	0.0000002449	0.0000000210
PCB_147_149	-.0000017205	0.0000007443	-.0000000327	0.0000049437	0.0000009400
PCB_153_168	-.0000029501	-.0000012681	-.0000004296	0.0000004413	-.0000005708
PCB_156_157	0.0000004286	0.0000000708	0.0000000593	0.0000010268	0.0000000662
PCB_171_173	-.0000001118	0.0000000240	0.0000000008	0.0000004020	0.0000000438
PCB_18_30	-.0000001177	-.0000000217	-.0000000171	-.0000008053	-.0000000603
PCB_180_193	-.0000006194	-.0000000216	-.0000000094	0.0000019563	0.0000001225
PCB_183_185	-.0000003980	0.0000000424	-.0000000127	0.0000011233	0.0000001253
PCB_197_200	-.0000000275	0.0000000003	-.0000000015	0.0000000646	0.0000000067
PCB_198_199	-.0000001573	-.0000000086	-.0000000067	0.0000004817	0.0000000371
PCB_20_28	0.0000000612	-.0000000967	-.0000000213	-.0000004330	-.0000000767
PCB_21_33	-.0000000046	-.0000000106	-.0000000015	-.0000000212	-.0000000073
PCB_26_29	-.0000000474	-.0000001636	-.0000000364	-.0000014205	-.0000001849
PCB_40_41_71	-.0000000838	-.0000000382	-.0000000248	-.0000010532	-.0000000847
PCB_44_47_65	0.0000005944	-.0000002844	-.0000000402	-.0000031658	-.0000004008
PCB_45_51	-.0000001438	0.0000000164	-.0000000190	-.0000011255	-.0000000644
PCB_49_69	-.0000001065	-.0000002689	-.0000001278	-.0000081379	-.0000007241
PCB_50_53	-.0000001332	-.0000000625	-.0000000280	-.0000012495	-.0000001118
PCB_59_62_75	-.0000000286	-.0000000394	-.0000000160	-.0000005151	-.0000000534
PCB_61_70_74_76	0.0000003489	-.0000000236	0.0000000141	-.0000007827	-.0000000850
PCB_85_117_116	0.0000005633	-.0000000397	0.0000000571	0.0000011254	0.0000000143
PCB_86_87_97_108_119_125	0.0000011024	0.0000001132	0.0000000874	-.0000012006	-.0000000483
PCB_88_91	-.0000000562	0.0000000260	-.0000000133	-.0000009349	-.0000000369
PCB_90_101_113	0.0000025796	0.0000001325	0.0000002520	0.0000005362	-.0000000908
PCB_93_98_100_102	0.0000000702	-.0000000089	-.0000000002	-.0000001277	-.0000000124

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_205	0.0000001309	0.0000000026	0.0000000489	-.0000000255	0.0000001549
PCB_206	0.0000010343	0.0000000246	0.0000003887	-.0000002696	0.0000012862
PCB_207	0.0000001144	0.0000000036	0.0000000415	-.0000000306	0.0000001461
PCB_208	0.0000003442	0.0000000086	0.0000001314	-.0000001008	0.0000004351
PCB_209	0.0000007210	0.0000000133	0.0000002867	-.0000002237	0.0000009025
PCB_12_13	-.0000000606	0.0000000015	-.0000000252	-.0000000075	-.0000000565
PCB_107_124	0.0000001619	0.0000000540	-.0000001745	0.0000005846	0.0000001757
PCB_110_115	-.0000203558	-.0000032438	0.0000014514	-.0000054422	-.0000298794
PCB_128_166	0.0000035143	0.0000003131	0.0000001040	0.0000030359	0.0000043249
PCB_129_138_163	0.0000312444	0.0000021399	0.0000046427	0.0000105401	0.0000376828
PCB_134_143	0.0000007098	0.0000000889	0.0000001343	0.0000001685	0.0000006117
PCB_135_151	0.0000159081	0.0000003854	0.0000057248	-.0000010146	0.0000160139
PCB_139_140	0.0000003731	0.0000000541	-.0000000580	0.0000004593	0.0000003872
PCB_147_149	0.0000433167	0.0000001137	0.0000164799	-.0000001990	0.0000407189
PCB_153_168	-.0000019791	0.0000016014	-.0000035911	-.0000171155	0.0000095617
PCB_156_157	0.0000008517	0.0000002178	-.0000006378	0.0000022393	0.0000013610
PCB_171_173	0.0000023152	0.0000000462	0.0000007644	-.0000000708	0.0000027020
PCB_18_30	-.0000018156	-.0000001911	-.0000001502	-.0000005862	-.0000022429
PCB_180_193	0.0000084271	0.0000003732	0.0000023832	-.0000015834	0.0000116590
PCB_183_185	0.0000067179	0.0000001451	0.0000023922	-.0000008300	0.0000078516
PCB_197_200	0.0000003735	0.0000000098	0.0000001398	-.0000000868	0.0000004517
PCB_198_199	0.0000021517	0.0000000951	0.0000006825	-.0000005111	0.0000028319
PCB_20_28	-.0000033794	0.0000000462	-.0000011809	-.0000009634	-.0000036632
PCB_21_33	-.0000002722	0.0000000054	-.0000000975	-.0000001032	-.0000001982
PCB_26_29	-.0000070527	-.0000001528	-.0000020440	-.0000016999	-.0000072276
PCB_40_41_71	-.0000028647	-.0000002019	-.0000004990	-.0000008222	-.0000038285
PCB_44_47_65	-.0000181927	-.0000002653	-.0000060036	-.0000013259	-.0000203508
PCB_45_51	-.0000014962	-.0000002909	0.0000000193	-.0000002571	-.0000025916
PCB_49_69	-.0000258911	-.0000015245	-.0000062924	-.0000029084	-.0000317368
PCB_50_53	-.0000037810	-.0000002434	-.0000006900	-.0000011703	-.0000045789
PCB_59_62_75	-.0000018463	-.0000000618	-.0000004989	-.0000005345	-.0000022533
PCB_61_70_74_76	-.0000050380	-.0000000996	-.0000018471	0.0000009008	-.0000059059
PCB_85_117_116	-.0000024426	0.0000003608	-.0000018995	0.0000014841	-.0000011693
PCB_86_87_97_108_119_125	-.0000090857	-.0000003443	-.0000026923	0.0000035740	-.0000121454
PCB_88_91	-.0000013810	-.0000002643	0.0000002007	-.0000002059	-.0000025897
PCB_90_101_113	-.0000158028	0.0000002401	-.0000081764	0.0000102561	-.0000157482
PCB_93_98_100_102	-.0000009506	-.0000000081	-.0000002826	0.0000000020	-.0000011953

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_205	0.0000000002	0.0000000321	-.0000000000	0.0000002174	-.0000000002
PCB_206	0.0000000020	0.0000002568	0.0000000002	0.0000017730	-.0000000018
PCB_207	0.0000000003	0.0000000288	0.0000000001	0.0000002000	-.0000000002
PCB_208	0.0000000008	0.0000000864	0.0000000001	0.0000006008	-.0000000006
PCB_209	0.0000000014	0.0000001796	0.0000000001	0.0000012312	-.0000000015
PCB_12_13	0.0000000001	-.0000000141	0.0000000001	-.0000000636	0.0000000002
PCB_107_124	0.0000000004	0.0000000469	0.0000000012	0.0000003379	0.0000000040
PCB_110_115	-.0000001456	-.0000044045	-.0000000905	-.0000389898	-.0000001366
PCB_128_166	0.0000000053	0.0000009742	0.0000000053	0.0000058051	0.0000000154
PCB_129_138_163	0.0000000608	0.0000077797	0.0000000346	0.0000500944	0.0000000692
PCB_134_143	0.0000000019	0.0000001667	0.0000000027	0.0000022246	0.0000000050
PCB_135_151	0.0000000042	0.0000037954	-.0000000000	0.0000286460	-.0000000074
PCB_139_140	0.0000000006	0.0000000911	0.0000000012	0.0000007723	0.0000000034
PCB_147_149	-.0000000419	0.0000097644	-.0000000383	0.0000670480	-.0000000671
PCB_153_168	0.0000001720	-.0000018217	0.0000000696	-.0000050699	0.0000000274
PCB_156_157	0.0000000040	0.0000003110	0.0000000044	0.0000009884	0.0000000141
PCB_171_173	0.0000000021	0.0000005763	-.0000000007	0.0000033171	-.0000000029
PCB_18_30	-.0000000062	-.0000004535	-.0000000045	-.0000035699	-.0000000080
PCB_180_193	0.0000000268	0.0000022488	0.0000000050	0.0000121369	-.0000000062
PCB_183_185	0.0000000081	0.0000016592	-.0000000004	0.0000107372	-.0000000089
PCB_197_200	0.0000000007	0.0000000938	0.0000000001	0.0000006610	-.0000000005
PCB_198_199	0.0000000063	0.0000005492	0.0000000019	0.0000038221	-.0000000013
PCB_20_28	0.0000000050	-.0000008421	0.0000000057	-.0000038581	0.0000000087
PCB_21_33	0.0000000010	-.0000000563	0.0000000006	-.0000003124	0.0000000004
PCB_26_29	0.0000000026	-.0000016684	0.0000000029	-.0000103966	0.0000000016
PCB_40_41_71	-.0000000080	-.0000007620	-.0000000042	-.0000051594	-.0000000052
PCB_44_47_65	-.0000000030	-.0000044400	0.0000000087	-.0000274643	0.0000000235
PCB_45_51	-.0000000138	-.0000005047	-.0000000094	-.0000047453	-.0000000124
PCB_49_69	-.0000000547	-.0000067936	-.0000000301	-.0000501393	-.0000000320
PCB_50_53	-.0000000077	-.0000009224	-.0000000045	-.0000064984	-.0000000071
PCB_59_62_75	-.0000000014	-.0000005054	-.0000000003	-.0000030792	0.0000000000
PCB_61_70_74_76	-.0000000064	-.0000012616	0.0000000008	-.0000077164	0.0000000076
PCB_85_117_116	0.0000000163	-.0000002961	0.0000000145	-.0000009337	0.0000000260
PCB_86_87_97_108_119_125	-.0000000329	-.0000019181	-.0000000041	-.0000104499	0.0000000137
PCB_88_91	-.0000000140	-.0000003868	-.0000000077	-.0000028630	-.0000000099
PCB_90_101_113	-.0000000050	-.0000032301	0.0000000167	-.0000238745	0.0000000630
PCB_93_98_100_102	-.0000000009	-.0000002215	0.0000000008	-.0000009731	0.0000000023

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_205	-.0000000001	-.0000000002	-.0000000029	0.0000000002	0.0000000188
PCB_206	-.0000000015	-.0000000017	-.0000000252	0.0000000021	0.0000001077
PCB_207	-.0000000002	-.0000000002	-.0000000025	0.0000000003	0.0000000133
PCB_208	-.0000000005	-.0000000005	-.0000000088	0.0000000008	0.0000000290
PCB_209	-.0000000010	-.0000000011	-.0000000216	0.0000000014	0.0000000394
PCB_12_13	-.0000000001	0.0000000001	0.0000000019	0.0000000001	-.0000000171
PCB_107_124	-.0000000007	-.0000000005	0.0000000560	0.0000000005	0.0000006414
PCB_110_115	0.0000001128	0.0000000567	-.0000012721	-.0000001484	-.0000142615
PCB_128_166	-.0000000055	-.0000000064	0.0000002335	0.0000000066	0.0000041859
PCB_129_138_163	-.0000000595	-.0000000626	0.0000009225	0.0000000653	0.0000213857
PCB_134_143	0.0000000000	0.0000000003	0.0000000499	0.0000000029	0.0000004161
PCB_135_151	0.0000000003	-.0000000186	-.0000001104	0.0000000097	0.0000038681
PCB_139_140	-.0000000006	-.0000000006	0.0000000448	0.0000000009	0.0000005640
PCB_147_149	0.0000000315	-.0000000616	-.0000007327	-.0000000294	0.0000097353
PCB_153_168	-.0000001360	-.0000000409	-.0000004693	0.0000001559	-.0000141288
PCB_156_157	-.0000000055	-.0000000030	0.0000002066	0.0000000039	0.0000027478
PCB_171_173	-.0000000021	-.0000000042	-.0000000328	0.0000000021	0.0000006899
PCB_18_30	0.0000000051	0.0000000032	-.0000000921	-.0000000067	-.0000013436
PCB_180_193	-.0000000252	-.0000000186	-.0000000965	0.0000000245	0.0000023666
PCB_183_185	-.0000000061	-.0000000109	-.0000001176	0.0000000089	0.0000014149
PCB_197_200	-.0000000005	-.0000000005	-.0000000074	0.0000000007	0.0000000511
PCB_198_199	-.0000000051	-.0000000037	-.0000000261	0.0000000063	0.0000004067
PCB_20_28	-.0000000025	0.0000000064	0.0000000637	0.0000000046	-.0000015935
PCB_21_33	-.0000000007	0.0000000004	0.0000000030	0.0000000009	-.0000001187
PCB_26_29	-.0000000014	0.0000000116	-.0000000121	0.0000000005	-.0000033499
PCB_40_41_71	0.0000000065	0.0000000051	-.0000000717	-.0000000087	-.0000018891
PCB_44_47_65	0.0000000063	0.0000000308	0.0000002047	-.0000000057	-.0000063613
PCB_45_51	0.0000000097	0.0000000010	-.0000001395	-.0000000144	-.0000014263
PCB_49_69	0.0000000429	0.0000000361	-.0000004299	-.0000000614	-.0000130168
PCB_50_53	0.0000000057	0.0000000068	-.0000000869	-.0000000089	-.0000023061
PCB_59_62_75	0.0000000013	0.0000000027	-.0000000170	-.0000000019	-.0000011303
PCB_61_70_74_76	0.0000000052	0.0000000084	0.0000001034	-.0000000067	-.0000009084
PCB_85_117_116	-.0000000131	0.0000000052	0.0000003311	0.0000000159	0.0000019426
PCB_86_87_97_108_119_125	0.0000000289	0.0000000266	0.0000003063	-.0000000297	0.0000003185
PCB_88_91	0.0000000121	0.0000000042	-.0000001032	-.0000000135	-.0000011905
PCB_90_101_113	0.0000000020	0.0000000258	0.0000009525	-.0000000053	0.0000056877
PCB_93_98_100_102	0.0000000015	0.0000000026	0.0000000246	-.0000000006	-.0000002669

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_205	-.0000000003	-.0000000309	0.0000000019	0.0000000838	-.0000000006
PCB_206	-.0000000019	-.0000002711	0.0000000155	0.0000006800	-.0000000037
PCB_207	-.0000000003	-.0000000305	0.0000000018	0.0000000761	-.0000000003
PCB_208	-.0000000007	-.0000000972	0.0000000051	0.0000002292	-.0000000011
PCB_209	-.0000000016	-.0000001915	0.0000000098	0.0000004795	-.0000000028
PCB_12_13	0.0000000006	-.0000000112	-.0000000001	-.0000000353	0.0000000008
PCB_107_124	0.0000000028	0.0000000063	0.0000000190	0.0000000357	0.0000000007
PCB_110_115	0.0000000069	0.0000020271	-.0000005860	-.0000115262	-.0000001425
PCB_128_166	-.0000000101	-.0000001556	0.0000001240	0.0000019670	-.0000000191
PCB_129_138_163	-.0000000141	-.0000021849	0.0000008695	0.0000184849	-.0000001064
PCB_134_143	0.0000000039	-.0000010035	0.0000000224	0.0000003184	0.0000000092
PCB_135_151	0.0000000088	-.0000063144	0.0000002940	0.0000093887	-.0000000446
PCB_139_140	0.0000000014	-.0000001349	0.0000000174	0.0000001572	0.0000000007
PCB_147_149	-.0000000410	-.0000099650	0.0000005653	0.0000244747	-.0000002544
PCB_153_168	-.0000000131	0.0000078850	-.0000002799	0.0000006165	0.0000002444
PCB_156_157	0.0000000030	0.0000007336	0.0000000837	0.0000004994	-.0000000064
PCB_171_173	-.0000000065	-.0000000655	0.0000000385	0.0000014850	-.0000000152
PCB_18_30	-.0000000056	0.0000005788	-.0000000648	-.0000010593	-.0000000037
PCB_180_193	-.0000000090	0.0000005277	0.0000002051	0.0000061105	-.0000000403
PCB_183_185	-.0000000166	-.0000011788	0.0000001027	0.0000042870	-.0000000327
PCB_197_200	-.0000000005	-.0000001173	0.0000000062	0.0000002437	-.0000000012
PCB_198_199	0.0000000003	-.0000005628	0.0000000469	0.0000014558	-.0000000041
PCB_20_28	0.0000000262	-.0000005344	-.0000000302	-.0000019978	0.0000000436
PCB_21_33	0.0000000016	-.0000000133	-.0000000011	-.0000001300	0.0000000030
PCB_26_29	0.0000000238	0.0000006417	-.0000001090	-.0000039631	0.0000000478
PCB_40_41_71	0.0000000078	0.0000005882	-.0000000739	-.0000017654	0.0000000086
PCB_44_47_65	0.0000000475	0.0000022080	-.0000002886	-.0000109671	0.0000001244
PCB_45_51	-.0000000126	0.0000016407	-.0000000940	-.0000010889	-.0000000195
PCB_49_69	-.0000000265	0.0000101112	-.0000007287	-.0000160489	0.0000000406
PCB_50_53	0.0000000136	0.0000006547	-.0000000759	-.0000021513	0.0000000111
PCB_59_62_75	0.0000000069	0.0000003466	-.0000000414	-.0000011431	0.0000000128
PCB_61_70_74_76	0.0000000113	0.0000005994	-.0000000812	-.0000033255	0.0000000262
PCB_85_117_116	0.0000000321	-.0000009658	0.0000001026	-.0000011566	0.0000000432
PCB_86_87_97_108_119_125	0.0000000426	-.0000026984	-.0000000602	-.0000061081	0.0000000355
PCB_88_91	-.0000000079	0.0000001245	-.0000000732	-.0000010136	-.0000000110
PCB_90_101_113	-.0000000024	0.0000037498	-.0000000624	-.0000099905	0.0000000545
PCB_93_98_100_102	0.0000000043	-.0000003179	-.0000000114	-.0000006119	0.0000000094

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_205	0.0000000103	0.0000000011	0.0000001051	0.0000000532	0.0000003256
PCB_206	0.0000000710	0.0000000094	0.0000009020	0.0000004542	0.0000027590
PCB_207	0.0000000081	0.0000000011	0.0000001038	0.0000000519	0.0000003099
PCB_208	0.0000000213	0.0000000033	0.0000003085	0.0000001562	0.0000009472
PCB_209	0.0000000393	0.0000000068	0.0000006373	0.0000003287	0.0000020112
PCB_12_13	-.0000000075	-.0000000002	-.0000000281	-.0000000194	-.0000001127
PCB_107_124	0.0000002038	-.0000000024	0.0000000352	-.0000001135	-.0000009637
PCB_110_115	-.0000048928	-.0000002082	-.0000207113	-.0000076213	-.0000312952
PCB_128_166	0.0000014264	0.0000000062	0.0000022888	0.0000005991	0.0000013789
PCB_129_138_163	0.0000078539	0.0000001637	0.0000240306	0.0000085773	0.0000426463
PCB_134_143	0.0000000687	0.0000000041	0.0000002199	0.0000000940	0.0000006038
PCB_135_151	0.0000014265	0.0000000958	0.0000098551	0.0000047804	0.0000314983
PCB_139_140	0.0000001748	-.0000000003	0.0000001482	-.0000000111	-.0000003044
PCB_147_149	0.0000040298	0.0000001980	0.0000228372	0.0000121695	0.0000808856
PCB_153_168	-.0000038829	0.0000002502	0.0000141420	0.0000074540	0.0000374176
PCB_156_157	0.0000009422	-.0000000053	0.0000008638	-.0000001640	-.0000025105
PCB_171_173	0.0000003177	0.0000000154	0.0000018302	0.0000008608	0.0000050721
PCB_18_30	-.0000004560	-.0000000118	-.0000014898	-.0000004645	-.0000022952
PCB_180_193	0.0000012753	0.0000000823	0.0000093623	0.0000038893	0.0000224776
PCB_183_185	0.0000006742	0.0000000503	0.0000052715	0.0000026207	0.0000157716
PCB_197_200	0.0000000272	0.0000000033	0.0000003134	0.0000001560	0.0000009574
PCB_198_199	0.0000002154	0.0000000212	0.0000021122	0.0000009442	0.0000056529
PCB_20_28	-.0000006739	-.0000000094	-.0000018990	-.0000010480	-.0000056023
PCB_21_33	-.0000000421	0.0000000001	-.0000000530	-.0000000460	-.0000002832
PCB_26_29	-.0000012432	-.0000000262	-.0000038718	-.0000018848	-.0000105850
PCB_40_41_71	-.0000006900	-.0000000189	-.0000023985	-.0000009729	-.0000046764
PCB_44_47_65	-.0000026936	-.0000000980	-.0000123524	-.0000059712	-.0000350984
PCB_45_51	-.0000004458	-.0000000196	-.0000020065	-.0000005682	-.0000027020
PCB_49_69	-.0000047415	-.0000001779	-.0000207819	-.0000082011	-.0000466436
PCB_50_53	-.0000008111	-.0000000211	-.0000026151	-.0000011590	-.0000055539
PCB_59_62_75	-.0000004218	-.0000000089	-.0000013220	-.0000005748	-.0000029822
PCB_61_70_74_76	-.0000004783	-.0000000395	-.0000041904	-.0000020346	-.0000124462
PCB_85_117_116	0.0000005300	-.0000000072	-.0000001119	-.0000009893	-.0000074350
PCB_86_87_97_108_119_125	-.0000004534	-.0000001023	-.0000095743	-.0000048701	-.0000277784
PCB_88_91	-.0000004641	-.0000000195	-.0000021924	-.0000006494	-.0000028739
PCB_90_101_113	0.0000013243	-.0000001517	-.0000117919	-.0000070940	-.0000502583
PCB_93_98_100_102	-.0000001552	-.0000000063	-.0000008328	-.0000003910	-.0000021802

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_205	0.0000000133	0.0000000266	0.0000001870	0.0000000886	0.0000001192
PCB_206	0.0000001136	0.0000002244	0.0000015941	0.0000007589	0.0000010130
PCB_207	0.0000000129	0.0000000252	0.0000001803	0.0000000860	0.0000001140
PCB_208	0.0000000391	0.0000000770	0.0000005483	0.0000002615	0.0000003485
PCB_209	0.0000000823	0.0000001630	0.0000011573	0.0000005514	0.0000007386
PCB_12_13	-.0000000041	-.0000000093	-.0000000597	-.0000000269	-.0000000392
PCB_107_124	-.0000000320	-.0000000710	-.0000005000	-.0000002492	-.0000003653
PCB_110_115	-.0000017059	-.0000026238	-.0000216494	-.0000106354	-.0000115243
PCB_128_166	0.0000000963	0.0000001574	0.0000010137	0.0000003896	0.0000003923
PCB_129_138_163	0.0000019599	0.0000036387	0.0000261251	0.0000120538	0.0000151182
PCB_134_143	0.0000000333	0.0000000714	0.0000004511	0.0000002264	0.0000002768
PCB_135_151	0.0000012682	0.0000026712	0.0000181690	0.0000085526	0.0000116863
PCB_139_140	-.0000000060	-.0000000163	-.0000001256	-.0000000675	-.0000001166
PCB_147_149	0.0000031086	0.0000067534	0.0000450316	0.0000209236	0.0000293420
PCB_153_168	0.0000018040	0.0000025831	0.0000242535	0.0000126224	0.0000140369
PCB_156_157	-.0000000706	-.0000001836	-.0000012242	-.0000006445	-.0000010036
PCB_171_173	0.0000002064	0.0000004138	0.0000029003	0.0000013537	0.0000018241
PCB_18_30	-.0000001154	-.0000002044	-.0000015187	-.0000007180	-.0000008516
PCB_180_193	0.0000009528	0.0000018003	0.0000132477	0.0000062583	0.0000081469
PCB_183_185	0.0000006439	0.0000012933	0.0000090618	0.0000042722	0.0000057483
PCB_197_200	0.0000000394	0.0000000786	0.0000005548	0.0000002638	0.0000003530
PCB_198_199	0.0000002395	0.0000004600	0.0000033348	0.0000015917	0.0000020826
PCB_20_28	-.0000002144	-.0000004578	-.0000029713	-.0000013217	-.0000018991
PCB_21_33	-.0000000092	-.0000000247	-.0000001387	-.0000000584	-.0000000942
PCB_26_29	-.0000004277	-.0000008985	-.0000059657	-.0000027210	-.0000037404
PCB_40_41_71	-.0000002171	-.0000003978	-.0000028474	-.0000013322	-.0000016783
PCB_44_47_65	-.0000014169	-.0000028936	-.0000198183	-.0000091936	-.0000125466
PCB_45_51	-.0000001536	-.0000002506	-.0000019474	-.0000009552	-.0000010831
PCB_49_69	-.0000020597	-.0000039856	-.0000281056	-.0000132372	-.0000171991
PCB_50_53	-.0000002536	-.0000004767	-.0000033524	-.0000015659	-.0000019854
PCB_59_62_75	-.0000001279	-.0000002548	-.0000017191	-.0000007854	-.0000010576
PCB_61_70_74_76	-.0000005053	-.0000010160	-.0000071551	-.0000033710	-.0000045404
PCB_85_117_116	-.0000002315	-.0000005691	-.0000036456	-.0000016984	-.0000026116
PCB_86_87_97_108_119_125	-.0000011554	-.0000021609	-.0000161892	-.0000077613	-.0000100197
PCB_88_91	-.0000001565	-.0000002335	-.0000019905	-.0000009707	-.0000010620
PCB_90_101_113	-.0000019271	-.0000040137	-.0000283089	-.0000135700	-.0000186124
PCB_93_98_100_102	-.0000000880	-.0000001696	-.0000012239	-.0000005687	-.0000007584

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_205	0.0000000002	0.0000000021	0.0000000002	0.0000000002	0.0000018412
PCB_206	0.0000000011	0.0000000191	0.0000000021	0.0000000022	0.0000156652
PCB_207	0.0000000001	0.0000000022	0.0000000003	0.0000000003	0.0000017608
PCB_208	0.0000000002	0.0000000067	0.0000000008	0.0000000008	0.0000053835
PCB_209	0.0000000001	0.0000000141	0.0000000014	0.0000000015	0.0000114284
PCB_12_13	-.0000000003	-.0000000002	0.0000000001	0.0000000001	-.0000006082
PCB_107_124	0.0000000130	-.0000000097	0.0000000010	0.0000000007	-.0000057422
PCB_110_115	-.0000002487	-.0000002931	-.0000001437	-.0000001500	-.0001823178
PCB_128_166	0.0000000809	-.0000000153	0.0000000092	0.0000000082	0.0000052663
PCB_129_138_163	0.0000004149	0.0000001958	0.0000000794	0.0000000726	0.0002334796
PCB_134_143	0.0000000020	0.0000000007	0.0000000029	0.0000000030	0.0000034848
PCB_135_151	0.0000000449	0.0000001548	0.0000000150	0.0000000116	0.0001772641
PCB_139_140	0.0000000103	-.0000000057	0.0000000013	0.0000000011	-.0000019491
PCB_147_149	0.0000001358	0.0000002935	-.0000000073	-.0000000246	0.0004517162
PCB_153_168	-.0000002534	0.0000006139	0.0000001262	0.0000001471	0.0002368239
PCB_156_157	0.0000000594	-.0000000247	0.0000000056	0.0000000047	-.0000157503
PCB_171_173	0.0000000135	0.0000000289	0.0000000029	0.0000000025	0.0000283022
PCB_18_30	-.0000000241	-.0000000141	-.0000000073	-.0000000071	-.0000128410
PCB_180_193	0.0000000572	0.0000001774	0.0000000250	0.0000000257	0.0001270484
PCB_183_185	0.0000000220	0.0000000956	0.0000000101	0.0000000098	0.0000887125
PCB_197_200	0.0000000005	0.0000000065	0.0000000007	0.0000000008	0.0000054263
PCB_198_199	0.0000000068	0.0000000431	0.0000000062	0.0000000067	0.0000322045
PCB_20_28	-.0000000325	-.0000000103	0.0000000023	0.0000000036	-.0000297811
PCB_21_33	-.0000000020	0.0000000016	0.0000000006	0.0000000008	-.0000014635
PCB_26_29	-.0000000590	-.0000000251	-.0000000035	-.0000000008	-.0000575546
PCB_40_41_71	-.0000000344	-.0000000268	-.0000000093	-.0000000096	-.0000256698
PCB_44_47_65	-.0000001164	-.0000001603	-.0000000133	-.0000000095	-.0001944378
PCB_45_51	-.0000000228	-.0000000325	-.0000000137	-.0000000151	-.0000154140
PCB_49_69	-.0000002218	-.0000002803	-.0000000676	-.0000000681	-.0002603837
PCB_50_53	-.0000000395	-.0000000237	-.0000000100	-.0000000098	-.0000304780
PCB_59_62_75	-.0000000208	-.0000000117	-.0000000027	-.0000000026	-.0000160317
PCB_61_70_74_76	-.0000000155	-.0000000792	-.0000000075	-.0000000072	-.0000700918
PCB_85_117_116	0.0000000409	-.0000000184	0.0000000144	0.0000000167	-.0000422228
PCB_86_87_97_108_119_125	-.0000000019	-.0000002207	-.0000000281	-.0000000290	-.0001598989
PCB_88_91	-.0000000254	-.0000000363	-.0000000129	-.0000000139	-.0000166877
PCB_90_101_113	0.0000001299	-.0000003411	-.0000000055	-.0000000033	-.0002904566
PCB_93_98_100_102	-.0000000072	-.0000000129	-.0000000009	-.0000000007	-.0000121870

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_205	0.0000000003	0.0000000055	0.0000000140	0.0000000088	0.0000000002
PCB_206	0.0000000028	0.0000000458	0.0000001256	0.0000000748	0.0000000021
PCB_207	0.0000000004	0.0000000052	0.0000000146	0.0000000085	0.0000000003
PCB_208	0.0000000010	0.0000000155	0.0000000437	0.0000000256	0.0000000008
PCB_209	0.0000000019	0.0000000321	0.0000000901	0.0000000540	0.0000000014
PCB_12_13	0.0000000001	-.0000000020	-.0000000021	-.0000000029	0.0000000001
PCB_107_124	0.0000000006	0.0000000053	-.0000000200	-.0000000151	0.0000000004
PCB_110_115	-.0000001491	-.0000010526	-.0000027933	-.0000011284	-.0000001478
PCB_128_166	0.0000000081	0.0000001445	0.0000001567	0.0000000975	0.0000000059
PCB_129_138_163	0.0000000844	0.0000013351	0.0000025176	0.0000014738	0.0000000631
PCB_134_143	0.0000000029	0.0000000220	0.0000000355	0.0000000165	0.0000000018
PCB_135_151	0.0000000219	0.0000005900	0.0000012006	0.0000008483	0.0000000044
PCB_139_140	0.0000000010	0.0000000127	0.0000000011	-.0000000003	0.0000000007
PCB_147_149	0.0000000104	0.0000014710	0.0000024117	0.0000021387	-.0000000403
PCB_153_168	0.0000001444	0.0000003697	0.0000030668	0.0000009890	0.0000001720
PCB_156_157	0.0000000042	0.0000000481	0.0000000066	-.0000000166	0.0000000042
PCB_171_173	0.0000000040	0.0000000982	0.0000002156	0.0000001438	0.0000000022
PCB_18_30	-.0000000075	-.0000000809	-.0000001735	-.0000000837	-.0000000063
PCB_180_193	0.0000000306	0.0000004361	0.0000012153	0.0000006635	0.0000000271
PCB_183_185	0.0000000137	0.0000002832	0.0000006726	0.0000004332	0.0000000085
PCB_197_200	0.0000000010	0.0000000163	0.0000000432	0.0000000260	0.0000000007
PCB_198_199	0.0000000077	0.0000001023	0.0000002935	0.0000001602	0.0000000064
PCB_20_28	0.0000000016	-.0000001218	-.0000001502	-.0000001619	0.0000000044
PCB_21_33	0.0000000006	-.0000000069	0.0000000035	-.0000000072	0.0000000009
PCB_26_29	-.0000000049	-.0000002528	-.0000003531	-.0000003091	0.0000000019
PCB_40_41_71	-.0000000098	-.0000001293	-.0000002846	-.0000001543	-.0000000084
PCB_44_47_65	-.0000000202	-.0000007074	-.0000013753	-.0000009997	-.0000000044
PCB_45_51	-.0000000140	-.0000000917	-.0000002970	-.0000001026	-.0000000137
PCB_49_69	-.0000000758	-.0000011157	-.0000025712	-.0000014372	-.0000000556
PCB_50_53	-.0000000106	-.0000001551	-.0000002925	-.0000001772	-.0000000082
PCB_59_62_75	-.0000000030	-.0000000759	-.0000001397	-.0000000937	-.0000000017
PCB_61_70_74_76	-.0000000105	-.0000002192	-.0000005346	-.0000003412	-.0000000067
PCB_85_117_116	0.0000000121	-.0000000428	0.0000000117	-.0000001401	0.0000000159
PCB_86_87_97_108_119_125	-.0000000361	-.0000004540	-.0000013335	-.0000007588	-.0000000338
PCB_88_91	-.0000000135	-.0000000932	-.0000003031	-.0000001114	-.0000000140
PCB_90_101_113	-.0000000213	-.0000006143	-.0000017694	-.0000012204	-.0000000046
PCB_93_98_100_102	-.0000000015	-.0000000420	-.0000000946	-.0000000637	-.0000000010

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_205	0.0000000455	0.0000000260	0.0000000341	0.0000000226	0.0000000296
PCB_206	0.0000003952	0.0000002254	0.0000002974	0.0000001953	0.0000002565
PCB_207	0.0000000453	0.0000000257	0.0000000341	0.0000000222	0.0000000292
PCB_208	0.0000001365	0.0000000778	0.0000001029	0.0000000675	0.0000000888
PCB_209	0.0000002855	0.0000001635	0.0000002157	0.0000001426	0.0000001874
PCB_12_13	-.0000000114	-.0000000071	-.0000000084	-.0000000065	-.0000000082
PCB_107_124	-.0000001038	-.0000000678	-.0000000916	-.0000000749	-.0000001003
PCB_110_115	-.0000070334	-.0000035494	-.0000049807	-.0000026419	-.0000034851
PCB_128_166	0.0000003071	0.0000001411	0.0000001589	0.0000000404	0.0000000329
PCB_129_138_163	0.0000069761	0.0000037457	0.0000048355	0.0000027894	0.0000035919
PCB_134_143	0.0000001215	0.0000000567	0.0000000854	0.0000000481	0.0000000611
PCB_135_151	0.0000042391	0.0000024090	0.0000031262	0.0000020950	0.0000027212
PCB_139_140	-.0000000181	-.0000000179	-.0000000247	-.0000000269	-.0000000378
PCB_147_149	0.0000098253	0.0000057436	0.0000072218	0.0000050894	0.0000065403
PCB_153_168	0.0000080521	0.0000043002	0.0000062313	0.0000036993	0.0000050561
PCB_156_157	-.0000002092	-.0000001514	-.0000002139	-.0000002060	-.0000002768
PCB_171_173	0.0000006966	0.0000003994	0.0000005128	0.0000003381	0.0000004397
PCB_18_30	-.0000004455	-.0000002282	-.0000003079	-.0000001645	-.0000002151
PCB_180_193	0.0000034562	0.0000019409	0.0000025527	0.0000015956	0.0000021092
PCB_183_185	0.0000021901	0.0000012528	0.0000016307	0.0000010799	0.0000014090
PCB_197_200	0.0000001368	0.0000000778	0.0000001027	0.0000000674	0.0000000884
PCB_198_199	0.0000008632	0.0000004841	0.0000006440	0.0000004078	0.0000005386
PCB_20_28	-.0000006046	-.0000003711	-.0000004353	-.0000003170	-.0000003952
PCB_21_33	-.0000000170	-.0000000119	-.0000000106	-.0000000117	-.0000000131
PCB_26_29	-.0000013253	-.0000007620	-.0000009415	-.0000006383	-.0000008055
PCB_40_41_71	-.0000007666	-.0000004171	-.0000005492	-.0000003237	-.0000004188
PCB_44_47_65	-.0000046269	-.0000026718	-.0000033898	-.0000022649	-.0000029215
PCB_45_51	-.0000006457	-.0000003245	-.0000004647	-.0000002329	-.0000003145
PCB_49_69	-.0000073090	-.0000040107	-.0000052956	-.0000032187	-.0000042050
PCB_50_53	-.0000008683	-.0000004727	-.0000006174	-.0000003751	-.0000004792
PCB_59_62_75	-.0000004131	-.0000002345	-.0000002963	-.0000001874	-.0000002392
PCB_61_70_74_76	-.0000017306	-.0000009908	-.0000012888	-.0000008532	-.0000011163
PCB_85_117_116	-.0000005852	-.0000004061	-.0000004762	-.0000004520	-.0000005722
PCB_86_87_97_108_119_125	-.0000041855	-.0000023664	-.0000031369	-.0000020384	-.0000026878
PCB_88_91	-.0000006747	-.0000003445	-.0000004817	-.0000002448	-.0000003311
PCB_90_101_113	-.0000066154	-.0000038572	-.0000050639	-.0000035372	-.0000046598
PCB_93_98_100_102	-.0000002992	-.0000001734	-.0000002198	-.0000001446	-.0000001882

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_205	0.0000000633	0.0000000002	0.0000000049	0.0000000423	0.0000000048
PCB_206	0.0000005509	0.0000000021	0.0000000423	0.0000003669	0.0000000417
PCB_207	0.0000000629	0.0000000003	0.0000000048	0.0000000417	0.0000000048
PCB_208	0.0000001906	0.0000000008	0.0000000146	0.0000001269	0.0000000145
PCB_209	0.0000004006	0.0000000014	0.0000000308	0.0000002681	0.0000000304
PCB_12_13	-.0000000160	0.0000000001	-.0000000015	-.0000000117	-.0000000013
PCB_107_124	-.0000001865	0.0000000004	-.0000000147	-.0000001440	-.0000000164
PCB_110_115	-.0000086270	-.0000001477	-.0000005646	-.0000049840	-.0000006166
PCB_128_166	0.0000001999	0.0000000060	0.0000000184	0.0000000448	0.0000000050
PCB_129_138_163	0.0000085081	0.0000000636	0.0000006524	0.0000051264	0.0000005857
PCB_134_143	0.0000001445	0.0000000019	0.0000000102	0.0000000823	0.0000000104
PCB_135_151	0.0000058042	0.0000000045	0.0000004665	0.0000038644	0.0000004333
PCB_139_140	-.0000000597	0.0000000007	-.0000000046	-.0000000550	-.0000000061
PCB_147_149	0.0000135996	-.0000000399	0.0000011596	0.0000093207	0.0000010194
PCB_153_168	0.0000114585	0.0000001707	0.0000007146	0.0000073079	0.0000008978
PCB_156_157	-.0000004679	0.0000000043	-.0000000382	-.0000003968	-.0000000444
PCB_171_173	0.0000009483	0.0000000023	0.0000000755	0.0000006290	0.0000000707
PCB_18_30	-.0000005325	-.0000000063	-.0000000375	-.0000003046	-.0000000361
PCB_180_193	0.0000046812	0.0000000271	0.0000003485	0.0000030198	0.0000003464
PCB_183_185	0.0000030205	0.0000000085	0.0000002375	0.0000020133	0.0000002277
PCB_197_200	0.0000001900	0.0000000007	0.0000000146	0.0000001263	0.0000000144
PCB_198_199	0.0000011827	0.0000000064	0.0000000882	0.0000007700	0.0000000882
PCB_20_28	-.0000008100	0.0000000043	-.0000000762	-.0000005699	-.0000000602
PCB_21_33	-.0000000219	0.0000000009	-.0000000033	-.0000000186	-.0000000017
PCB_26_29	-.0000017253	0.0000000017	-.0000001503	-.0000011494	-.0000001261
PCB_40_41_71	-.0000009678	-.0000000084	-.0000000728	-.0000005990	-.0000000690
PCB_44_47_65	-.0000062582	-.0000000046	-.0000005140	-.0000041826	-.0000004627
PCB_45_51	-.0000007923	-.0000000137	-.0000000488	-.0000004436	-.0000000546
PCB_49_69	-.0000095085	-.0000000559	-.0000007182	-.0000059861	-.0000006822
PCB_50_53	-.0000010922	-.0000000082	-.0000000853	-.0000006846	-.0000000789
PCB_59_62_75	-.0000005299	-.0000000017	-.0000000434	-.0000003419	-.0000000380
PCB_61_70_74_76	-.0000023938	-.0000000067	-.0000001873	-.0000015942	-.0000001807
PCB_85_117_116	-.0000010050	0.0000000159	-.0000001005	-.0000008250	-.0000000872
PCB_86_87_97_108_119_125	-.0000058322	-.0000000336	-.0000004370	-.0000038610	-.0000004464
PCB_88_91	-.0000008347	-.0000000140	-.0000000522	-.0000004744	-.0000000578
PCB_90_101_113	-.0000096599	-.0000000042	-.0000007595	-.0000066582	-.0000007502
PCB_93_98_100_102	-.0000004077	-.0000000010	-.0000000326	-.0000002716	-.0000000303

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_205	0.0000000146	0.0000000308	-.0000000015	-.0000000147	-.0000005646
PCB_206	0.0000001269	0.0000002681	-.0000000117	-.0000001440	-.0000049840
PCB_207	0.0000000145	0.0000000304	-.0000000013	-.0000000164	-.0000006166
PCB_208	0.0000000440	0.0000000929	-.0000000039	-.0000000526	-.0000017189
PCB_209	0.0000000929	0.0000001967	-.0000000084	-.0000001170	-.0000033590
PCB_12_13	-.0000000039	-.0000000084	0.0000000011	0.0000000012	0.0000000773
PCB_107_124	-.0000000526	-.0000001170	0.0000000012	0.0000002623	-.0000015711
PCB_110_115	-.0000017189	-.0000033590	0.0000000773	-.0000015711	0.0002620757
PCB_128_166	-.0000000014	-.0000000324	-.0000000355	0.0000011818	-.0000182157
PCB_129_138_163	0.0000016887	0.0000033992	-.0000002935	0.0000038849	-.0001806303
PCB_134_143	0.0000000282	0.0000000513	-.0000000011	0.0000000739	-.0000051123
PCB_135_151	0.0000013156	0.0000027659	-.0000001652	-.0000006432	-.0000564458
PCB_139_140	-.0000000213	-.0000000503	-.0000000015	0.0000001925	-.0000025055
PCB_147_149	0.0000031296	0.0000066819	-.0000005326	-.0000013153	-.0000998138
PCB_153_168	0.0000026577	0.0000055178	0.0000001323	-.0000078166	-.0002107462
PCB_156_157	-.0000001478	-.0000003371	-.0000000030	0.0000009998	-.0000087966
PCB_171_173	0.0000002141	0.0000004516	-.0000000294	-.0000000973	-.0000094319
PCB_18_30	-.0000001018	-.0000001983	0.0000000102	-.0000002545	0.0000139492
PCB_180_193	0.0000010421	0.0000021779	-.0000000920	-.0000007251	-.0000536777
PCB_183_185	0.0000006908	0.0000014577	-.0000000808	-.0000005543	-.0000288242
PCB_197_200	0.0000000437	0.0000000920	-.0000000041	-.0000000456	-.0000017560
PCB_198_199	0.0000002666	0.0000005584	-.0000000205	-.0000002419	-.0000128299
PCB_20_28	-.0000001850	-.0000004014	0.0000000572	-.0000001792	0.0000040402
PCB_21_33	-.0000000052	-.0000000119	0.0000000044	-.0000000257	0.0000000465
PCB_26_29	-.0000003771	-.0000007925	0.0000000904	-.0000004244	0.0000218184
PCB_40_41_71	-.0000002019	-.0000004113	0.0000000283	-.0000002483	0.0000172789
PCB_44_47_65	-.0000014077	-.0000029834	0.0000002300	0.0000000905	0.0000569791
PCB_45_51	-.0000001555	-.0000003002	-.0000000030	-.0000001972	0.0000183038
PCB_49_69	-.0000020323	-.0000041826	0.0000002228	-.0000010286	0.0001344754
PCB_50_53	-.0000002288	-.0000004659	0.0000000395	-.0000003168	0.0000218186
PCB_59_62_75	-.0000001134	-.0000002360	0.0000000230	-.0000001593	0.0000062652
PCB_61_70_74_76	-.0000005482	-.0000011564	0.0000000616	0.0000004968	0.0000222545
PCB_85_117_116	-.0000002813	-.0000006404	0.0000000598	0.0000009669	-.0000074027
PCB_86_87_97_108_119_125	-.0000013426	-.0000028289	0.0000001107	0.0000019742	0.0000723229
PCB_88_91	-.0000001649	-.0000003249	0.0000000003	-.0000001279	0.0000203411
PCB_90_101_113	-.0000023163	-.0000049618	0.0000001892	0.0000046909	0.0000584630
PCB_93_98_100_102	-.0000000920	-.0000001960	0.0000000136	0.0000000468	0.0000039568

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_205	0.0000000184	0.0000006524	0.0000000102	0.0000004665	-.0000000046
PCB_206	0.0000000448	0.0000051264	0.0000000823	0.0000038644	-.0000000550
PCB_207	0.0000000050	0.0000005857	0.0000000104	0.0000004333	-.0000000061
PCB_208	-.0000000014	0.0000016887	0.0000000282	0.0000013156	-.0000000213
PCB_209	-.0000000324	0.0000033992	0.0000000513	0.0000027659	-.0000000503
PCB_12_13	-.0000000355	-.0000002935	-.0000000011	-.0000001652	-.0000000015
PCB_107_124	0.0000011818	0.0000038849	0.0000000739	-.0000006432	0.0000001925
PCB_110_115	-.0000182157	-.0001806303	-.0000051123	-.0000564458	-.0000025055
PCB_128_166	0.0000075819	0.0000356455	0.0000005244	0.0000053370	0.0000009970
PCB_129_138_163	0.0000356455	0.0002458948	0.0000041045	0.0000793990	0.0000041908
PCB_134_143	0.0000005244	0.0000041045	0.0000002516	0.0000018285	0.0000000972
PCB_135_151	0.0000053370	0.0000793990	0.0000018285	0.0000512932	0.0000002266
PCB_139_140	0.0000009970	0.0000041908	0.0000000972	0.0000002266	0.0000001548
PCB_147_149	0.0000162667	0.0002028901	0.0000030684	0.0001293718	0.0000007322
PCB_153_168	-.0000347307	-.0000299519	0.0000009800	0.0000323691	-.0000050385
PCB_156_157	0.0000050519	0.0000189550	0.0000002572	-.0000011557	0.0000007480
PCB_171_173	0.0000010816	0.0000134875	0.0000001613	0.0000075459	0.0000000298
PCB_18_30	-.0000020609	-.0000150721	-.0000003698	-.0000047973	-.0000002746
PCB_180_193	0.0000028582	0.0000561789	0.0000007417	0.0000321861	-.0000001209
PCB_183_185	0.0000018561	0.0000356447	0.0000005459	0.0000230543	-.0000000945
PCB_197_200	0.0000000378	0.0000018752	0.0000000348	0.0000013767	-.0000000152
PCB_198_199	0.0000003300	0.0000123443	0.0000002247	0.0000081509	-.0000000700
PCB_20_28	-.0000032549	-.0000204875	0.0000000095	-.0000082566	-.0000002452
PCB_21_33	-.0000002485	-.0000013482	-.0000000098	-.0000005408	-.0000000276
PCB_26_29	-.0000059980	-.0000429456	-.0000005695	-.0000179828	-.0000005911
PCB_40_41_71	-.0000031046	-.0000223655	-.0000003587	-.0000077193	-.0000003152
PCB_44_47_65	-.0000109964	-.0001045691	-.0000010758	-.0000536113	-.0000006585
PCB_45_51	-.0000018995	-.0000157388	-.0000005178	-.0000052760	-.0000002391
PCB_49_69	-.0000201453	-.0001772632	-.0000035001	-.0000784334	-.0000019075
PCB_50_53	-.0000037962	-.0000272393	-.0000004872	-.0000095230	-.0000004114
PCB_59_62_75	-.0000020291	-.0000131851	-.0000001470	-.0000048534	-.0000001893
PCB_61_70_74_76	-.0000010632	-.0000266744	-.0000004118	-.0000181105	0.0000001278
PCB_85_117_116	0.0000031177	0.0000044480	0.0000003539	-.0000085681	0.0000006154
PCB_86_87_97_108_119_125	0.0000026599	-.0000459131	-.0000006452	-.0000365293	0.0000009150
PCB_88_91	-.0000015316	-.0000154958	-.0000003538	-.0000048275	-.0000001812
PCB_90_101_113	0.0000129784	-.0000358408	-.0000008835	-.0000683880	0.0000026531
PCB_93_98_100_102	-.0000004593	-.0000058020	-.0000000057	-.0000029874	-.0000000040

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_205	0.0000011596	0.0000007146	-.0000000382	0.0000000755	-.0000000375
PCB_206	0.0000093207	0.0000073079	-.0000003968	0.0000006290	-.0000003046
PCB_207	0.0000010194	0.0000008978	-.0000000444	0.0000000707	-.0000000361
PCB_208	0.0000031296	0.0000026577	-.0000001478	0.0000002141	-.0000001018
PCB_209	0.0000066819	0.0000055178	-.0000003371	0.0000004516	-.0000001983
PCB_12_13	-.0000005326	0.0000001323	-.0000000030	-.0000000294	0.0000000102
PCB_107_124	-.0000013153	-.0000078166	0.0000009998	-.0000000973	-.0000002545
PCB_110_115	-.0000998138	-.0002107462	-.0000087966	-.0000094319	0.0000139492
PCB_128_166	0.0000162667	-.0000347307	0.0000050519	0.0000010816	-.0000020609
PCB_129_138_163	0.0002028901	-.0000299519	0.0000189550	0.0000134875	-.0000150721
PCB_134_143	0.0000030684	0.0000009800	0.0000002572	0.0000001613	-.0000003698
PCB_135_151	0.0001293718	0.0000323691	-.0000011557	0.0000075459	-.0000047973
PCB_139_140	0.0000007322	-.0000050385	0.0000007480	0.0000000298	-.0000002746
PCB_147_149	0.0003633580	0.0000104435	-.0000020579	0.0000197561	-.0000103156
PCB_153_168	0.0000104435	0.0005838367	-.0000285611	0.0000059448	-.0000019392
PCB_156_157	-.0000020579	-.0000285611	0.0000040690	-.0000000233	-.0000011765
PCB_171_173	0.0000197561	0.0000059448	-.0000000233	0.0000012716	-.0000007347
PCB_18_30	-.0000103156	-.0000019392	-.0000011765	-.0000007347	0.0000010556
PCB_180_193	0.0000747507	0.0000595537	-.0000009775	0.0000055175	-.0000034992
PCB_183_185	0.0000581178	0.0000288497	-.0000011762	0.0000037663	-.0000020226
PCB_197_200	0.0000032983	0.0000023287	-.0000001213	0.0000002196	-.0000001137
PCB_198_199	0.0000186258	0.0000164976	-.0000005770	0.0000013204	-.0000008026
PCB_20_28	-.0000279146	0.0000161851	-.0000011794	-.0000016029	0.0000007733
PCB_21_33	-.0000020695	0.0000019285	-.0000001077	-.0000000886	0.0000000477
PCB_26_29	-.0000526100	0.0000159710	-.0000023284	-.0000029993	0.0000022149
PCB_40_41_71	-.0000189491	-.0000008922	-.0000014208	-.0000013730	0.0000013532
PCB_44_47_65	-.0001489899	-.0000026975	-.0000018805	-.0000090454	0.0000053506
PCB_45_51	-.0000068056	-.0000093080	-.0000010821	-.0000007770	0.0000012967
PCB_49_69	-.0001860684	-.0000293858	-.0000072895	-.0000124446	0.0000112481
PCB_50_53	-.0000245440	-.0000009769	-.0000016902	-.0000016462	0.0000016294
PCB_59_62_75	-.0000134693	0.0000060864	-.0000009034	-.0000008687	0.0000006943
PCB_61_70_74_76	-.0000449869	-.0000251020	0.0000011301	-.0000029473	0.0000015361
PCB_85_117_116	-.0000310125	-.0000172050	0.0000037351	-.0000013924	-.0000008311
PCB_86_87_97_108_119_125	-.0000859137	-.0001306283	0.0000059188	-.0000063082	0.0000029313
PCB_88_91	-.0000073433	-.0000165750	-.0000008420	-.0000008482	0.0000012107
PCB_90_101_113	-.0001681076	-.0001883435	0.0000166810	-.0000101327	0.0000021421
PCB_93_98_100_102	-.0000084932	-.0000031729	0.0000000168	-.0000005595	0.0000002789

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_205	0.0000003485	0.0000002375	0.0000000146	0.0000000882	-.0000000762
PCB_206	0.0000030198	0.0000020133	0.0000001263	0.0000007700	-.0000005699
PCB_207	0.0000003464	0.0000002277	0.0000000144	0.0000000882	-.0000000602
PCB_208	0.0000010421	0.0000006908	0.0000000437	0.0000002666	-.0000001850
PCB_209	0.0000021779	0.0000014577	0.0000000920	0.0000005584	-.0000004014
PCB_12_13	-.0000000920	-.0000000808	-.0000000041	-.0000000205	0.0000000572
PCB_107_124	-.0000007251	-.0000005543	-.0000000456	-.0000002419	-.0000001792
PCB_110_115	-.0000536777	-.0000288242	-.0000017560	-.0000128299	0.0000040402
PCB_128_166	0.0000028582	0.0000018561	0.0000000378	0.0000003300	-.0000032549
PCB_129_138_163	0.0000561789	0.0000356447	0.0000018752	0.0000123443	-.0000204875
PCB_134_143	0.0000007417	0.0000005459	0.0000000348	0.0000002247	0.0000000095
PCB_135_151	0.0000321861	0.0000230543	0.0000013767	0.0000081509	-.0000082566
PCB_139_140	-.0000001209	-.0000000945	-.0000000152	-.0000000700	-.0000002452
PCB_147_149	0.0000747507	0.0000581178	0.0000032983	0.0000186258	-.0000279146
PCB_153_168	0.0000595537	0.0000288497	0.0000023287	0.0000164976	0.0000161851
PCB_156_157	-.0000009775	-.0000011762	-.0000001213	-.0000005770	-.0000011794
PCB_171_173	0.0000055175	0.0000037663	0.0000002196	0.0000013204	-.0000016029
PCB_18_30	-.0000034992	-.0000020226	-.0000001137	-.0000008026	0.0000007733
PCB_180_193	0.0000277669	0.0000169546	0.0000010456	0.0000066669	-.0000049191
PCB_183_185	0.0000169546	0.0000115987	0.0000007001	0.0000042079	-.0000041341
PCB_197_200	0.0000010456	0.0000007001	0.0000000438	0.0000002662	-.0000001997
PCB_198_199	0.0000066669	0.0000042079	0.0000002662	0.0000016789	-.0000010437
PCB_20_28	-.0000049191	-.0000041341	-.0000001997	-.0000010437	0.0000036187
PCB_21_33	-.0000001338	-.0000002039	-.0000000072	-.0000000224	0.0000002500
PCB_26_29	-.0000103990	-.0000080765	-.0000004150	-.0000023551	0.0000054001
PCB_40_41_71	-.0000059922	-.0000038250	-.0000002135	-.0000013814	0.0000020198
PCB_44_47_65	-.0000360032	-.0000260066	-.0000014655	-.0000086240	0.0000136848
PCB_45_51	-.0000049718	-.0000024368	-.0000001636	-.0000012227	0.0000001784
PCB_49_69	-.0000565015	-.0000363726	-.0000021439	-.0000136810	0.0000148065
PCB_50_53	-.0000066797	-.0000045518	-.0000002455	-.0000015397	0.0000025338
PCB_59_62_75	-.0000032820	-.0000023256	-.0000001230	-.0000007363	0.0000016047
PCB_61_70_74_76	-.0000135663	-.0000091240	-.0000005548	-.0000033463	0.0000030118
PCB_85_117_116	-.0000041081	-.0000046341	-.0000002691	-.0000011916	0.0000020826
PCB_86_87_97_108_119_125	-.0000326418	-.0000206299	-.0000013041	-.0000081532	0.0000039586
PCB_88_91	-.0000053862	-.0000025827	-.0000001664	-.0000012660	0.0000002683
PCB_90_101_113	-.0000497255	-.0000347894	-.0000022692	-.0000133653	0.0000054031
PCB_93_98_100_102	-.0000024013	-.0000016199	-.0000000923	-.0000005606	0.0000007894

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_205	-.0000000033	-.0000001503	-.0000000728	-.0000005140	-.0000000488
PCB_206	-.0000000186	-.0000011494	-.0000005990	-.0000041826	-.0000004436
PCB_207	-.0000000017	-.0000001261	-.0000000690	-.0000004627	-.0000000546
PCB_208	-.0000000052	-.0000003771	-.0000002019	-.0000014077	-.0000001555
PCB_209	-.0000000119	-.0000007925	-.0000004113	-.0000029834	-.0000003002
PCB_12_13	0.0000000044	0.0000000904	0.0000000283	0.0000002300	-.0000000030
PCB_107_124	-.0000000257	-.0000004244	-.0000002483	0.0000000905	-.0000001972
PCB_110_115	0.0000000465	0.0000218184	0.0000172789	0.0000569791	0.0000183038
PCB_128_166	-.0000002485	-.0000059980	-.0000031046	-.0000109964	-.0000018995
PCB_129_138_163	-.0000013482	-.0000429456	-.0000223655	-.0001045691	-.0000157388
PCB_134_143	-.0000000098	-.0000005695	-.0000003587	-.0000010758	-.0000005178
PCB_135_151	-.0000005408	-.0000179828	-.0000077193	-.0000536113	-.0000052760
PCB_139_140	-.0000000276	-.0000005911	-.0000003152	-.0000006585	-.0000002391
PCB_147_149	-.0000020695	-.0000526100	-.0000189491	-.0001489899	-.0000068056
PCB_153_168	0.0000019285	0.0000159710	-.0000008922	-.0000026975	-.0000093080
PCB_156_157	-.0000001077	-.0000023284	-.0000014208	-.0000018805	-.0000010821
PCB_171_173	-.0000000886	-.0000029993	-.0000013730	-.0000090454	-.0000007770
PCB_18_30	0.0000000477	0.0000022149	0.0000013532	0.0000053506	0.0000012967
PCB_180_193	-.0000001338	-.0000103990	-.0000059922	-.0000360032	-.0000049718
PCB_183_185	-.0000002039	-.0000080765	-.0000038250	-.0000260066	-.0000024368
PCB_197_200	-.0000000072	-.0000004150	-.0000002135	-.0000014655	-.0000001636
PCB_198_199	-.0000000224	-.0000023551	-.0000013814	-.0000086240	-.0000012227
PCB_20_28	0.0000002500	0.0000054001	0.0000020198	0.0000136848	0.0000001784
PCB_21_33	0.0000000241	0.0000004055	0.0000001031	0.0000008394	-.0000000465
PCB_26_29	0.0000004055	0.0000097633	0.0000039468	0.0000241211	0.0000015154
PCB_40_41_71	0.0000001031	0.0000039468	0.0000022602	0.0000104799	0.0000016592
PCB_44_47_65	0.0000008394	0.0000241211	0.0000104799	0.0000689730	0.0000048756
PCB_45_51	-.0000000465	0.0000015154	0.0000016592	0.0000048756	0.0000023137
PCB_49_69	0.0000007351	0.0000318673	0.0000176486	0.0000914817	0.0000146501
PCB_50_53	0.0000001619	0.0000050927	0.0000026481	0.0000126674	0.0000017088
PCB_59_62_75	0.0000000954	0.0000027274	0.0000013261	0.0000070905	0.0000007349
PCB_61_70_74_76	0.0000001419	0.0000060272	0.0000028493	0.0000198592	0.0000019038
PCB_85_117_116	0.0000001906	0.0000026895	-.0000003043	0.0000097000	-.0000021544
PCB_86_87_97_108_119_125	0.0000000780	0.0000096181	0.0000052550	0.0000375081	0.0000037452
PCB_88_91	-.0000000373	0.0000015352	0.0000015597	0.0000050920	0.0000019115
PCB_90_101_113	0.0000001751	0.0000133881	0.0000047212	0.0000611205	0.0000029017
PCB_93_98_100_102	0.0000000421	0.0000013244	0.0000005943	0.0000040689	0.0000002257

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_205	-.0000007182	-.0000000853	-.0000000434	-.0000001873	-.0000001005
PCB_206	-.0000059861	-.0000006846	-.0000003419	-.0000015942	-.0000008250
PCB_207	-.0000006822	-.0000000789	-.0000000380	-.0000001807	-.0000000872
PCB_208	-.0000020323	-.0000002288	-.0000001134	-.0000005482	-.0000002813
PCB_209	-.0000041826	-.0000004659	-.0000002360	-.0000011564	-.0000006404
PCB_12_13	0.0000002228	0.0000000395	0.0000000230	0.0000000616	0.0000000598
PCB_107_124	-.0000010286	-.0000003168	-.0000001593	0.0000004968	0.0000009669
PCB_110_115	0.0001344754	0.0000218186	0.0000062652	0.0000222545	-.0000074027
PCB_128_166	-.0000201453	-.0000037962	-.0000020291	-.0000010632	0.0000031177
PCB_129_138_163	-.0001772632	-.0000272393	-.0000131851	-.0000266744	0.0000044480
PCB_134_143	-.0000035001	-.0000004872	-.0000001470	-.0000004118	0.0000003539
PCB_135_151	-.0000784334	-.0000095230	-.0000048534	-.0000181105	-.0000085681
PCB_139_140	-.0000019075	-.0000004114	-.0000001893	0.0000001278	0.0000006154
PCB_147_149	-.0001860684	-.0000245440	-.0000134693	-.0000449869	-.0000310125
PCB_153_168	-.0000293858	-.0000009769	0.0000060864	-.0000251020	-.0000172050
PCB_156_157	-.0000072895	-.0000016902	-.0000009034	0.0000011301	0.0000037351
PCB_171_173	-.0000124446	-.0000016462	-.0000008687	-.0000029473	-.0000013924
PCB_18_30	0.0000112481	0.0000016294	0.0000006943	0.0000015361	-.0000008311
PCB_180_193	-.0000565015	-.0000066797	-.0000032820	-.0000135663	-.0000041081
PCB_183_185	-.0000363726	-.0000045518	-.0000023256	-.0000091240	-.0000046341
PCB_197_200	-.0000021439	-.0000002455	-.0000001230	-.0000005548	-.0000002691
PCB_198_199	-.0000136810	-.0000015397	-.0000007363	-.0000033463	-.0000011916
PCB_20_28	0.0000148065	0.0000025338	0.0000016047	0.0000030118	0.0000020826
PCB_21_33	0.0000007351	0.0000001619	0.0000000954	0.0000001419	0.0000001906
PCB_26_29	0.0000318673	0.0000050927	0.0000027274	0.0000060272	0.0000026895
PCB_40_41_71	0.0000176486	0.0000026481	0.0000013261	0.0000028493	-.0000003043
PCB_44_47_65	0.0000914817	0.0000126674	0.0000070905	0.0000198592	0.0000097000
PCB_45_51	0.0000146501	0.0000017088	0.0000007349	0.0000019038	-.0000021544
PCB_49_69	0.0001565667	0.0000202686	0.0000103863	0.0000279174	0.0000005395
PCB_50_53	0.0000202686	0.0000033000	0.0000015481	0.0000033677	0.0000001977
PCB_59_62_75	0.0000103863	0.0000015481	0.0000009055	0.0000017140	0.0000001466
PCB_61_70_74_76	0.0000279174	0.0000033677	0.0000017140	0.0000072534	0.0000036943
PCB_85_117_116	0.0000005395	0.0000001977	0.0000001466	0.0000036943	0.0000077798
PCB_86_87_97_108_119_125	0.0000515729	0.0000065732	0.0000022396	0.0000166659	0.0000107848
PCB_88_91	0.0000130657	0.0000016964	0.0000006172	0.0000020407	-.0000013383
PCB_90_101_113	0.0000727854	0.0000059979	0.0000023920	0.0000284491	0.0000250765
PCB_93_98_100_102	0.0000050251	0.0000007151	0.0000003799	0.0000012542	0.0000007492

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_205	-.0000004370	-.0000000522	-.0000007595	-.0000000326
PCB_206	-.0000038610	-.0000004744	-.0000066582	-.0000002716
PCB_207	-.0000004464	-.0000000578	-.0000007502	-.0000000303
PCB_208	-.0000013426	-.0000001649	-.0000023163	-.0000000920
PCB_209	-.0000028289	-.0000003249	-.0000049618	-.0000001960
PCB_12_13	0.0000001107	0.0000000003	0.0000001892	0.0000000136
PCB_107_124	0.0000019742	-.0000001279	0.0000046909	0.0000000468
PCB_110_115	0.0000723229	0.0000203411	0.0000584630	0.0000039568
PCB_128_166	0.0000026599	-.0000015316	0.0000129784	-.0000004593
PCB_129_138_163	-.0000459131	-.0000154958	-.0000358408	-.0000058020
PCB_134_143	-.0000006452	-.0000003538	-.0000008835	-.0000000057
PCB_135_151	-.0000365293	-.0000048275	-.0000683880	-.0000029874
PCB_139_140	0.0000009150	-.0000001812	0.0000026531	-.0000000040
PCB_147_149	-.0000859137	-.0000073433	-.0001681076	-.0000084932
PCB_153_168	-.0001306283	-.0000165750	-.0001883435	-.0000031729
PCB_156_157	0.0000059188	-.0000008420	0.0000166810	0.0000000168
PCB_171_173	-.0000063082	-.0000008482	-.0000101327	-.0000005595
PCB_18_30	0.0000029313	0.0000012107	0.0000021421	0.0000002789
PCB_180_193	-.0000326418	-.0000053862	-.0000497255	-.0000024013
PCB_183_185	-.0000206299	-.0000025827	-.0000347894	-.0000016199
PCB_197_200	-.0000013041	-.0000001664	-.0000022692	-.0000000923
PCB_198_199	-.0000081532	-.0000012660	-.0000133653	-.0000005606
PCB_20_28	0.0000039586	0.0000002683	0.0000054031	0.0000007894
PCB_21_33	0.0000000780	-.0000000373	0.0000001751	0.0000000421
PCB_26_29	0.0000096181	0.0000015352	0.0000133881	0.0000013244
PCB_40_41_71	0.0000052550	0.0000015597	0.0000047212	0.0000005943
PCB_44_47_65	0.0000375081	0.0000050920	0.0000611205	0.0000040689
PCB_45_51	0.0000037452	0.0000019115	0.0000029017	0.0000002257
PCB_49_69	0.0000515729	0.0000130657	0.0000727854	0.0000050251
PCB_50_53	0.0000065732	0.0000016964	0.0000059979	0.0000007151
PCB_59_62_75	0.0000022396	0.0000006172	0.0000023920	0.0000003799
PCB_61_70_74_76	0.0000166659	0.0000020407	0.0000284491	0.0000012542
PCB_85_117_116	0.0000107848	-.0000013383	0.0000250765	0.0000007492
PCB_86_87_97_108_119_125	0.0000505928	0.0000057393	0.0000783622	0.0000029339
PCB_88_91	0.0000057393	0.0000019519	0.0000048183	0.0000003528
PCB_90_101_113	0.0000783622	0.0000048183	0.0001565022	0.0000043574
PCB_93_98_100_102	0.0000029339	0.0000003528	0.0000043574	0.0000002778

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Total Variance 0.0035917905

Eigenvalues of the Covariance Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	0.00210480	0.00132487	0.5860	0.5860
2	0.00077994	0.00019999	0.2171	0.8031
3	0.00057995	0.00050821	0.1615	0.9646
4	0.00007174	0.00003156	0.0200	0.9846
5	0.00004018		0.0112	0.9958

Eigenvectors

		Prin1	Prin2
PCB_1	PCB 1	0.001091	-.000722
PCB_2	PCB 2	-.000070	0.000018
PCB_3	PCB 3	-.000009	-.000015
PCB_4	PCB 4	0.018012	-.015896
PCB_5	PCB 5	-.000044	0.000027
PCB_6	PCB 6	0.001469	-.001258
PCB_7	PCB 7	0.000180	-.000198
PCB_8	PCB 8	0.004307	-.000336
PCB_9	PCB 9	0.000347	-.000264
PCB_10	PCB 10	0.001476	-.001085
PCB_11	PCB 11	-.004161	-.000649

Eigenvectors

	Prin3	Prin4	Prin5
PCB_1	-.000501	0.003045	-.002467
PCB_2	0.000436	-.000411	-.000102
PCB_3	0.000264	0.000141	-.000446
PCB_4	-.020040	0.040857	0.019883
PCB_5	0.000393	-.000038	-.000056
PCB_6	0.001782	0.002382	-.003019
PCB_7	-.000062	0.001353	-.000495
PCB_8	0.007485	0.016447	-.019633
PCB_9	0.000076	0.001449	-.000830
PCB_10	-.002175	0.006886	-.001931
PCB_11	0.005160	-.007000	0.000448

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_14	PCB 14	-.000062	0.000002
PCB_15	PCB 15	0.000909	-.000062
PCB_16	PCB 16	0.001687	-.003309
PCB_17	PCB 17	0.026688	-.024224
PCB_19	PCB 19	0.011514	-.011604
PCB_22	PCB 22	0.005140	-.007408
PCB_23	PCB 23	-.000056	0.000007
PCB_24	PCB 24	0.000565	-.000999
PCB_25	PCB 25	0.019098	-.020548
PCB_27	PCB 27	0.028052	-.025620
PCB_31	PCB 31	0.015709	-.021615
PCB_32	PCB 32	0.022845	-.024590
PCB_34	PCB 34	0.000382	-.000290
PCB_35	PCB 35	-.000062	0.000002
PCB_37	PCB 37	0.000271	-.000783
PCB_38	PCB 38	0.000130	-.000192
PCB_39	PCB 39	0.000060	-.000052
PCB_42	PCB 42	0.014721	-.021380
PCB_43	PCB 43	-.000341	-.001160
PCB_46	PCB 46	0.001583	-.003121
PCB_48	PCB 48	-.000038	-.001738
PCB_52	PCB 52	0.294629	-.319259
PCB_54	PCB 54	0.002043	-.001902
PCB_55	PCB 55	-.000486	-.000339
PCB_56	PCB 56	-.002149	-.005094
PCB_57	PCB 57	0.005124	-.004369
PCB_58	PCB 58	0.001767	-.001874
PCB_60	PCB 60	-.004778	-.000936
PCB_63	PCB 63	0.003467	-.001453
PCB_64	PCB 64	0.009622	-.027738
PCB_66	PCB 66	0.055793	-.005506
PCB_67	PCB 67	0.005141	-.004904
PCB_68	PCB 68	0.010116	-.005221
PCB_72	PCB 72	0.014400	-.011595
PCB_77	PCB 77	-.002116	-.001521
PCB_78	PCB 78	-.000006	-.000052
PCB_79	PCB 79	0.003160	0.000733
PCB_81	PCB 81	-.000103	0.000078
PCB_82	PCB 82	0.001458	0.004554
PCB_83	PCB 83	0.005390	-.000453
PCB_84	PCB 84	0.011330	-.029546
PCB_89	PCB 89	-.000387	-.000598

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_14	0.000453	-.000277	0.000299
PCB_15	0.002518	-.000487	-.002997
PCB_16	0.000416	-.012928	0.004758
PCB_17	-.028838	0.016952	0.015560
PCB_19	-.014607	0.005823	0.025449
PCB_22	0.008135	-.030514	-.009213
PCB_23	0.000418	-.000289	-.000172
PCB_24	-.000513	-.005563	0.007217
PCB_25	0.007774	-.028065	-.018771
PCB_27	0.010670	-.092272	-.036274
PCB_31	0.020654	-.031844	-.042509
PCB_32	-.001929	-.023678	-.015957
PCB_34	0.000510	-.001077	-.000627
PCB_35	0.000453	-.000277	0.000299
PCB_37	0.002459	-.003568	-.008440
PCB_38	0.000176	-.000584	-.000567
PCB_39	0.000186	-.000202	-.000304
PCB_42	-.021055	0.041918	-.013094
PCB_43	0.004871	-.019998	-.001139
PCB_46	-.001391	-.005026	0.006094
PCB_48	0.000015	-.006787	0.003592
PCB_52	-.232695	0.477924	0.061262
PCB_54	-.002319	0.002921	0.004786
PCB_55	0.000413	0.001105	0.005002
PCB_56	-.008530	0.007423	-.012552
PCB_57	0.004562	-.001565	-.009855
PCB_58	0.001168	0.001281	-.005311
PCB_60	0.000588	-.005589	-.005281
PCB_63	0.004270	-.004207	-.008783
PCB_64	-.038024	0.065820	-.021437
PCB_66	0.054460	-.072323	-.137817
PCB_67	0.003090	-.002679	-.005443
PCB_68	0.009224	-.004518	-.012054
PCB_72	0.013286	-.006007	-.012032
PCB_77	0.002493	-.004846	-.003721
PCB_78	0.000286	0.000754	-.001041
PCB_79	-.002108	-.010778	0.001565
PCB_81	-.000154	-.000246	-.000132
PCB_82	-.030763	0.012141	0.000154
PCB_83	0.002531	-.015987	-.030484
PCB_84	-.036985	-.025569	-.001643
PCB_89	-.000654	-.001166	0.000220

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_92	PCB 92	0.069244	-.002899
PCB_94	PCB 94	0.001284	-.000866
PCB_95	PCB 95	0.051278	-.091892
PCB_96	PCB 96	0.000746	-.001374
PCB_99	PCB 99	0.166335	0.130044
PCB_103	PCB 103	0.005778	-.003448
PCB_104	PCB 104	0.000147	-.000056
PCB_105	PCB 105	0.035545	0.140411
PCB_109	PCB 109	0.016056	0.023008
PCB_111	PCB 111	0.000666	-.000411
PCB_114	PCB 114	0.002376	0.010066
PCB_118	PCB 118	0.199835	0.351697
PCB_120	PCB 120	0.002381	-.001508
PCB_121	PCB 121	0.000215	-.000142
PCB_122	PCB 122	0.000479	0.003004
PCB_123	PCB 123	0.002301	0.006909
PCB_126	PCB 126	-.000240	0.001740
PCB_127	PCB 127	0.000094	0.001012
PCB_130	PCB 130	-.008126	0.019297
PCB_131	PCB 131	-.000867	0.001854
PCB_132	PCB 132	-.044443	0.034123
PCB_133	PCB 133	-.001369	0.003057
PCB_136	PCB 136	-.014534	0.001511
PCB_137	PCB 137	0.004970	0.036967
PCB_141	PCB 141	-.050623	0.037906
PCB_142	PCB 142	-.000060	-.000001
PCB_144	PCB 144	-.010426	0.010812
PCB_145	PCB 145	-.000011	0.000050
PCB_146	PCB 146	-.073823	0.071203
PCB_148	PCB 148	0.000030	0.000183
PCB_150	PCB 150	0.000047	-.000009
PCB_152	PCB 152	0.000075	-.000025
PCB_154	PCB 154	0.000516	0.003088
PCB_155	PCB 155	-.000067	0.000022
PCB_158	PCB 158	-.009396	0.049890
PCB_159	PCB 159	0.000037	0.000079
PCB_161	PCB 161	0.010032	-.015893
PCB_162	PCB 1611	-.000729	0.001748
PCB_164	PCB 164	-.027195	0.019008
PCB_165	PCB 165	0.000140	-.000166
PCB_167	PCB 167	-.004256	0.016129
PCB_169	PCB 169	-.000331	-.000034

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_92	0.047624	-.054997	-.079149
PCB_94	0.001432	-.005071	-.003922
PCB_95	-.191146	0.122860	-.054265
PCB_96	-.001584	-.001874	0.001201
PCB_99	0.243632	-.297879	0.061331
PCB_103	-.003462	0.000656	-.003656
PCB_104	0.000104	0.000012	-.000454
PCB_105	0.053207	0.042347	0.079149
PCB_109	0.023901	0.022089	0.013353
PCB_111	0.001639	-.002196	0.000390
PCB_114	0.002368	0.005771	0.002078
PCB_118	0.310943	0.058081	0.209568
PCB_120	0.004948	-.002633	-.002868
PCB_121	0.000376	-.000262	-.000263
PCB_122	0.001720	-.000165	-.002117
PCB_123	0.004850	0.004219	-.021378
PCB_126	-.001635	0.003523	-.002834
PCB_127	0.000335	0.000218	0.000688
PCB_130	0.019708	-.007071	-.039808
PCB_131	-.000126	0.000194	-.008101
PCB_132	-.017044	0.059901	-.112903
PCB_133	0.007837	-.000444	-.012682
PCB_136	-.028973	-.008992	-.043032
PCB_137	0.009419	0.068744	-.021252
PCB_141	0.015124	0.018210	0.011142
PCB_142	0.000452	-.000306	0.000281
PCB_144	-.003669	-.004571	-.010444
PCB_145	0.000285	-.000238	-.000518
PCB_146	-.008019	-.120916	-.574869
PCB_148	0.000419	0.000050	-.001031
PCB_150	-.000363	0.000099	-.000757
PCB_152	-.000050	-.000467	-.000398
PCB_154	0.004087	-.000711	-.009160
PCB_155	0.000430	-.000340	-.000113
PCB_158	0.018914	0.029735	-.005458
PCB_159	0.000136	-.001461	-.001862
PCB_161	0.011371	0.169968	0.392527
PCB_162	0.000809	-.003380	-.001093
PCB_164	-.007298	0.005275	0.004745
PCB_165	0.000736	-.001307	-.003607
PCB_167	0.006190	0.014523	0.028313
PCB_169	0.000263	-.000458	-.000060

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_170	PCB 170	-.033627	0.017738
PCB_172	PCB 172	-.016249	0.000983
PCB_174	PCB 174	-.099032	-.008328
PCB_175	PCB 175	-.004081	0.000035
PCB_176	PCB 176	-.008138	0.000145
PCB_177	PCB 177	-.057455	-.002458
PCB_178	PCB 178	-.027226	-.002425
PCB_179	PCB 179	-.036259	-.003552
PCB_181	PCB 181	-.000137	0.000938
PCB_182	PCB 182	-.000602	-.000394
PCB_184	PCB 184	-.000075	0.000060
PCB_186	PCB 186	-.000072	0.000044
PCB_187	PCB 187	-.561111	-.081049
PCB_188	PCB 188	-.000099	0.000039
PCB_189	PCB 189	-.001826	0.001265
PCB_190	PCB 190	-.004334	0.000566
PCB_191	PCB 191	-.002734	0.000455
PCB_192	PCB 192	-.000062	0.000002
PCB_194	PCB 194	-.014123	-.000458
PCB_195	PCB 195	-.007991	-.000617
PCB_196	PCB 196	-.010469	-.001176
PCB_201	PCB 201	-.006854	-.001488
PCB_202	PCB 202	-.008956	-.002167
PCB_203	PCB 203	-.019355	-.003256
PCB_204	PCB 204	-.000062	0.000004
PCB_205	PCB 205	-.001506	-.000195
PCB_206	PCB 206	-.012792	-.003204
PCB_207	PCB 207	-.001450	-.000390
PCB_208	PCB 208	-.004385	-.001319
PCB_209	PCB 209	-.009223	-.003120
PCB_12_13	PCB 12/13	0.000473	-.000276
PCB_107_124	PCB 107/124	0.003240	0.016255
PCB_110_115	PCB 110/115	0.211284	-.092005
PCB_128_166	PCB 128/166	-.011231	0.092687
PCB_129_138_163	PCB 129/138/163	-.234346	0.374528
PCB_134_143	PCB 134/143	-.004328	0.006267
PCB_135_151	PCB 135/151	-.149297	0.039214
PCB_139_140	PCB 139/140	0.000294	0.012800
PCB_147_149	PCB 147/149	-.370567	0.129457
PCB_153_168	PCB 153/168	-.215690	-.629371
PCB_156_157	PCB 156/157	0.007360	0.066415
PCB_171_173	PCB 171/173	-.023628	0.006714

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_170	0.023057	-.020450	0.120663
PCB_172	0.001561	0.004568	0.028663
PCB_174	-.036077	-.038113	0.063614
PCB_175	-.000087	-.002352	0.002086
PCB_176	-.003134	-.005046	-.001459
PCB_177	-.009095	-.031859	0.023076
PCB_178	-.002699	-.017430	0.004368
PCB_179	-.012619	-.025559	0.003036
PCB_181	0.000429	0.000908	0.002314
PCB_182	0.000462	-.001675	0.002431
PCB_184	0.000382	-.000230	-.000118
PCB_186	0.000428	-.000386	-.000108
PCB_187	-.179461	-.227456	0.263139
PCB_188	0.000373	-.000242	-.000083
PCB_189	0.000498	0.000694	0.001387
PCB_190	0.004270	-.008891	0.010761
PCB_191	-.000114	-.001017	0.004474
PCB_192	0.000453	-.000277	0.000299
PCB_194	0.004421	-.011970	0.010788
PCB_195	0.001141	-.006376	0.008196
PCB_196	0.002828	-.010673	0.007501
PCB_201	-.000418	-.005124	0.003124
PCB_202	-.000195	-.007906	0.005048
PCB_203	0.003377	-.018404	0.014410
PCB_204	0.000452	-.000277	0.000300
PCB_205	-.000203	-.000792	0.000860
PCB_206	-.000209	-.010739	0.008598
PCB_207	0.000159	-.001277	0.000946
PCB_208	0.000076	-.004309	0.002995
PCB_209	-.000618	-.008747	0.007141
PCB_12_13	0.000669	-.001530	-.000917
PCB_107_124	0.004953	0.013038	-.005800
PCB_110_115	-.499923	-.413768	0.302698
PCB_128_166	0.016895	0.066963	0.032822
PCB_129_138_163	0.144237	0.328570	0.138105
PCB_134_143	0.007250	-.005062	-.055671
PCB_135_151	-.047821	-.038209	-.158694
PCB_139_140	0.004251	0.012239	-.011101
PCB_147_149	-.296800	0.328408	-.200487
PCB_153_168	0.551383	0.039783	0.047399
PCB_156_157	0.022530	0.042827	0.037821
PCB_171_173	-.004796	0.005754	0.031821

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_18_30	PCB 18/30	0.014171	-.021778
PCB_180_193	PCB 180/193	-.108026	0.002093
PCB_183_185	PCB 183/185	-.073303	0.002157
PCB_197_200	PCB 197/200	-.004454	-.000736
PCB_198_199	PCB 198/199	-.027146	-.003641
PCB_20_28	PCB 20/28	0.023621	-.033977
PCB_21_33	PCB 21/33	0.001213	-.002807
PCB_26_29	PCB 26/29	0.050500	-.061362
PCB_40_41_71	PCB 40/41/71	0.024232	-.030918
PCB_44_47_65	PCB 44/47/65	0.161915	-.097107
PCB_45_51	PCB 45/51	0.016749	-.021299
PCB_49_69	PCB 49/69	0.235159	-.206047
PCB_50_53	PCB 50/53	0.029362	-.035877
PCB_59_62_75	PCB 59/62/75	0.013927	-.022671
PCB_61_70_74_76	PCB 61/70/74/76	0.057669	0.002968
PCB_85_117_116	PCB 85/117/116	0.028192	0.052785
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.135261	0.100220
PCB_88_91	PCB 88/91	0.018196	-.011159
PCB_90_101_113	PCB 90/101/113	0.227051	0.230017
PCB_93_98_100_102	PCB 93/98/100/102	0.010115	-.001785

Eigenvectors

	Prin3	Prin4	Prin5
PCB_18_30	-.019541	-.006067	0.020793
PCB_180_193	0.036097	-.083820	0.212537
PCB_183_185	-.010403	-.016112	0.051477
PCB_197_200	-.000133	-.004080	0.001731
PCB_198_199	0.007560	-.030920	0.019214
PCB_20_28	0.033462	-.061292	-.087130
PCB_21_33	0.003515	-.010146	0.001170
PCB_26_29	0.028416	-.109517	-.016723
PCB_40_41_71	-.015462	-.003120	-.027049
PCB_44_47_65	0.075809	-.081448	-.177970
PCB_45_51	-.039088	0.079273	0.023100
PCB_49_69	-.075446	0.222456	0.010186
PCB_50_53	-.015987	-.048283	-.000688
PCB_59_62_75	0.004289	0.000183	-.027925
PCB_61_70_74_76	0.007493	0.019648	-.052165
PCB_85_117_116	0.068447	-.123849	-.006272
PCB_86_87_97_108_119_125	-.061349	-.110374	-.162805

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_88_91	-.043058	0.023208	-.020068
PCB_90_101_113	0.084230	0.083961	0.082313
PCB_93_98_100_102	0.002187	-.012828	-.029706

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Observations	8
Variables	157

Simple Statistics

	PCB_1	PCB_2	PCB_3	PCB_4	PCB_5	PCB_6
Mean	0.0000782349	2.9506301E-6	4.8449189E-6	0.0017786076	6.4062773E-6	0.0002566798
StD	0.0000429702	6.8270315E-6	6.1905977E-6	0.0008443518	6.5152393E-6	0.0001238449

Simple Statistics

	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11	PCB_14
Mean	0.0000352630	0.0006569327	0.0000618100	0.0001884952	0.0001584822	0.0000197209
StD	0.0000153000	0.0003504167	0.0000307983	0.0000938115	0.0001604207	0.0000321139

Simple Statistics

	PCB_15	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
Mean	0.0000604870	0.0007956817	0.0046602098	0.0025167522	0.0007998639	7.0873136E-6
StD	0.0000290550	0.0003316317	0.0025392742	0.0013490176	0.0004348305	6.4527621E-6

Simple Statistics

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32	PCB_34
Mean	2.8458502E-6	0.0010010513	0.0049872079	0.0019878720	0.0034977739	0.0000677846
StD	6.8717002E-6	0.0004788477	0.0034157015	0.0010724139	0.0018855523	0.0000343964

Simple Statistics

	PCB_35	PCB_37	PCB_38	PCB_39	PCB_42	PCB_43
Mean	4.0592325E-6	0.0001931152	0.0000168680	0.0000177884	0.0056147166	0.0004384830
StD	6.9699754E-6	0.0000898344	0.0000111907	0.0000050827	0.0022568330	0.0004488520

Simple Statistics

	PCB_46	PCB_48	PCB_52	PCB_54	PCB_55	PCB_56
Mean	0.0016771047	0.0009831821	0.0232772821	0.0003106576	2.8458502E-6	0.0022239855
StD	0.0010119170	0.0003178892	0.0098156228	0.0001948242	6.8717002E-6	0.0004461766

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_57	PCB_58	PCB_60	PCB_63	PCB_64	PCB_66
Mean	0.0003271382	0.0001935090	0.0012610805	0.0007977939	0.0075057077	0.0147742605
StD	0.0001836494	0.0001002628	0.0003380996	0.0002165811	0.0026082959	0.0031481148

Simple Statistics

	PCB_67	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
Mean	0.0002167134	0.0011448104	0.0013309226	0.0003572724	0.0000868952	0.0004881467
StD	0.0001049263	0.0006063687	0.0008711999	0.0001566556	0.0001075486	0.0002086375

Simple Statistics

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89	PCB_92
Mean	0.0000541948	0.0058923684	0.0031443074	0.0132644982	0.0003557199	0.0137609275
StD	0.0000476183	0.0012539861	0.0008951307	0.0017498594	0.0000842586	0.0023599977

Simple Statistics

	PCB_94	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104
Mean	0.0006838888	0.0380068347	0.0005269278	0.0426449863	0.0009062571	0.0000288419
StD	0.0002442743	0.0071183547	0.0002475638	0.0065686243	0.0003776611	0.0000113864

Simple Statistics

	PCB_105	PCB_109	PCB_111	PCB_114	PCB_118	PCB_120
Mean	0.0201123978	0.0045558721	0.0000772167	0.0013410697	0.0626674063	0.0002972170
StD	0.0066911758	0.0010365952	0.0000485003	0.0005705834	0.0186651331	0.0001665743

Simple Statistics

	PCB_121	PCB_122	PCB_123	PCB_126	PCB_127	PCB_130
Mean	0.0000359069	0.0005293757	0.0018855250	0.0003206250	0.0001360218	0.0046357784
StD	0.0000187118	0.0001456928	0.0007342262	0.0001810460	0.0000530037	0.0009506677

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_131	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
Mean	0.0010452731	0.0156933146	0.0010915293	0.0057159755	0.0050759570	0.0079348071
StD	0.0002883429	0.0045812043	0.0001103387	0.0006925470	0.0013650485	0.0023471944

Simple Statistics

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148	PCB_150
Mean	2.8458502E-6	0.0024569198	0.0000267353	0.0103933338	0.0000813781	0.0000855147
StD	6.8717002E-6	0.0009406817	0.0000033867	0.0018973952	0.0000145011	0.0000163038

Simple Statistics

	PCB_152	PCB_154	PCB_155	PCB_158	PCB_159	PCB_161
Mean	0.0000651125	0.0006988648	5.1233826E-6	0.0085843439	0.0000713965	2.8458502E-6
StD	0.0000111136	0.0000766304	6.0147868E-6	0.0020319497	0.0001335370	6.8717002E-6

Simple Statistics

	PCB_162	PCB_164	PCB_165	PCB_167	PCB_169	PCB_170
Mean	0.0003110873	0.0046924552	0.0000310559	0.0028721407	0.0000110089	0.0055928946
StD	0.0001634066	0.0012144887	0.0000308681	0.0010422183	0.0000078555	0.0024280881

Simple Statistics

	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178
Mean	0.0009560114	0.0040569730	0.0002971816	0.0008156045	0.0034477684	0.0013131426
StD	0.0006897543	0.0029462549	0.0001540772	0.0004338797	0.0021063001	0.0010660992

Simple Statistics

	PCB_179	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
Mean	0.0019193660	0.0001618532	0.0000116639	8.403426E-6	5.2999524E-6	0.0110419843
StD	0.0014663623	0.0000478089	0.0000248921	4.6838993E-6	5.887567E-6	0.0111726912

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192	PCB_194
Mean	9.6612426E-6	0.0002817755	0.0006624728	0.0002384342	0.0006552108	0.0007050212
StD	6.3859381E-6	0.0000855473	0.0003848789	0.0001428973	0.0018441823	0.0005046125

Simple Statistics

	PCB_195	PCB_196	PCB_201	PCB_202	PCB_203	PCB_204
Mean	0.0004308293	0.0005686070	0.0002287282	0.0002696949	0.0009874279	3.2204712E-6
StD	0.0003511473	0.0005214977	0.0002576084	0.0003582775	0.0010145164	6.715788E-6

Simple Statistics

	PCB_205	PCB_206	PCB_207	PCB_208	PCB_209	PCB_12_13
Mean	0.0000639377	0.0003779042	0.0000477564	0.0001223247	0.0001584276	0.0000432257
StD	0.0000535165	0.0004515588	0.0000545643	0.0001792869	0.0002845958	0.0000185423

Simple Statistics

	PCB_107_124	PCB_110_115	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151
Mean	0.0020330543	0.0839674586	0.0130937236	0.0835066389	0.0027069690	0.0164627791
StD	0.0007170672	0.0060736813	0.0035079201	0.0171989848	0.0002567620	0.0036188517

Simple Statistics

	PCB_139_140	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
Mean	0.0016910501	0.0423656116	0.0580526158	0.0092078496	0.0024029864	0.0024406148
StD	0.0003951381	0.0081038756	0.0110997591	0.0036105885	0.0008720678	0.0014127048

Simple Statistics

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28	PCB_21_33
Mean	0.0090793980	0.0049095138	0.0002243843	0.0010254000	0.0058901929	0.0005270770
StD	0.0071826745	0.0028774996	0.0002467840	0.0012079095	0.0025064657	0.0002529935

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Simple Statistics

	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51	PCB_49_69	PCB_50_53
Mean	0.0030881147	0.0101611004	0.0351977719	0.0067629101	0.0346658361	0.0087065415
StD	0.0021972790	0.0041676498	0.0125877288	0.0033325417	0.0183574497	0.0058194413

Simple Statistics

	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113
Mean	0.0026698163	0.0188422269	0.0117103477	0.0439705777	0.0120568064	0.0638351494
StD	0.0019263692	0.0030123153	0.0020834437	0.0068829293	0.0019157465	0.0065629841

Simple Statistics

	PCB_93_98_100_102
Mean	0.0034073853
StD	0.0006858617

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_1	PCB 1	0.0000000018	-.0000000001	-.0000000001
PCB_2	PCB 2	-.0000000001	0.0000000000	0.0000000000
PCB_3	PCB 3	-.0000000001	0.0000000000	0.0000000000
PCB_4	PCB 4	0.0000000239	-.0000000034	-.0000000027
PCB_5	PCB 5	0.0000000000	0.0000000000	0.0000000000
PCB_6	PCB 6	0.0000000034	-.0000000003	-.0000000003
PCB_7	PCB 7	0.0000000005	-.0000000000	-.0000000000
PCB_8	PCB 8	0.0000000130	-.0000000009	-.0000000005
PCB_9	PCB 9	0.0000000009	-.0000000001	-.0000000001
PCB_10	PCB 10	0.0000000024	-.0000000004	-.0000000003
PCB_11	PCB 11	-.0000000029	0.0000000010	0.0000000009
PCB_14	PCB 14	-.0000000001	0.0000000000	0.0000000000
PCB_15	PCB 15	0.0000000008	0.0000000000	0.0000000000
PCB_16	PCB 16	0.0000000044	-.0000000002	-.0000000001
PCB_17	PCB 17	0.0000000062	-.0000000087	-.0000000089
PCB_19	PCB 19	0.0000000137	-.0000000050	-.0000000048
PCB_22	PCB 22	0.0000000058	0.0000000002	0.0000000003
PCB_23	PCB 23	-.0000000001	0.0000000000	0.0000000000
PCB_24	PCB 24	-.0000000001	0.0000000000	0.0000000000
PCB_25	PCB 25	0.0000000014	-.0000000012	-.0000000013
PCB_27	PCB 27	-.0000000125	-.0000000118	-.0000000125
PCB_31	PCB 31	0.0000000102	-.0000000003	-.0000000001
PCB_32	PCB 32	0.0000000028	-.0000000047	-.0000000050
PCB_34	PCB 34	0.0000000000	-.0000000001	-.0000000001
PCB_35	PCB 35	-.0000000001	0.0000000000	0.0000000000
PCB_37	PCB 37	0.0000000016	0.0000000002	0.0000000003
PCB_38	PCB 38	-.0000000003	0.0000000000	-.0000000000
PCB_39	PCB 39	0.0000000000	0.0000000000	0.0000000000
PCB_42	PCB 42	-.0000000086	-.0000000028	-.0000000035
PCB_43	PCB 43	0.0000000024	-.0000000001	-.0000000000
PCB_46	PCB 46	-.0000000129	-.0000000013	-.0000000019
PCB_48	PCB 48	-.0000000006	0.0000000010	0.0000000008
PCB_52	PCB 52	-.0000001294	-.0000000164	-.0000000211
PCB_54	PCB 54	-.0000000009	-.0000000007	-.0000000007
PCB_55	PCB 55	-.0000000001	0.0000000000	0.0000000000
PCB_56	PCB 56	0.0000000043	0.0000000017	0.0000000017
PCB_57	PCB 57	-.0000000014	-.0000000006	-.0000000006
PCB_58	PCB 58	-.0000000008	-.0000000002	-.0000000003
PCB_60	PCB 60	0.0000000030	0.0000000017	0.0000000017
PCB_63	PCB 63	0.0000000026	-.0000000007	-.0000000007

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_1	0.0000000239	0.0000000000	0.0000000034	0.0000000005	0.0000000130
PCB_2	-.0000000034	0.0000000000	-.0000000003	-.0000000000	-.0000000009
PCB_3	-.0000000027	0.0000000000	-.0000000003	-.0000000000	-.0000000005
PCB_4	0.0000007129	-.0000000014	0.0000001016	0.0000000123	0.0000002236
PCB_5	-.0000000014	0.0000000000	-.0000000001	-.0000000000	0.0000000003
PCB_6	0.0000001016	-.0000000001	0.0000000153	0.0000000019	0.0000000343
PCB_7	0.0000000123	-.0000000000	0.0000000019	0.0000000002	0.0000000047
PCB_8	0.0000002236	0.0000000003	0.0000000343	0.0000000047	0.0000001228
PCB_9	0.0000000242	-.0000000000	0.0000000037	0.0000000005	0.0000000092
PCB_10	0.0000000787	-.0000000002	0.0000000111	0.0000000013	0.0000000222
PCB_11	-.0000000492	0.0000000008	-.0000000035	-.0000000005	-.0000000182
PCB_14	-.0000000031	-.0000000000	-.0000000009	-.0000000002	-.0000000051
PCB_15	0.0000000156	0.0000000001	0.0000000024	0.0000000003	0.0000000057
PCB_16	0.0000002266	0.0000000002	0.0000000351	0.0000000040	0.0000000525
PCB_17	0.0000016542	-.0000000085	0.0000002307	0.0000000243	0.0000002454
PCB_19	0.0000009919	-.0000000040	0.0000001429	0.0000000160	0.0000002236
PCB_22	0.0000002556	0.0000000005	0.0000000409	0.0000000046	0.0000000486
PCB_23	-.0000000005	0.0000000000	0.0000000000	0.0000000000	-.0000000006
PCB_24	-.0000000034	0.0000000000	-.0000000004	-.0000000000	-.0000000010
PCB_25	0.0000002952	-.0000000012	0.0000000399	0.0000000040	0.0000000261
PCB_27	0.0000018723	-.0000000134	0.0000002396	0.0000000228	0.0000000830
PCB_31	0.0000006379	0.0000000005	0.0000000981	0.0000000106	0.0000001050
PCB_32	0.0000012035	-.0000000051	0.0000001731	0.0000000180	0.0000001429
PCB_34	0.0000000213	-.0000000001	0.0000000030	0.0000000003	0.0000000024
PCB_35	-.0000000034	0.0000000000	-.0000000003	-.0000000000	-.0000000009
PCB_37	0.0000000325	0.0000000003	0.0000000057	0.0000000007	0.0000000092
PCB_38	-.0000000013	-.0000000000	-.0000000002	-.0000000001	-.0000000025
PCB_39	0.0000000007	0.0000000000	0.0000000002	0.0000000000	0.0000000002
PCB_42	0.0000010087	-.0000000043	0.0000001317	0.0000000116	-.0000000490
PCB_43	0.0000000251	0.0000000000	-.0000000003	-.0000000007	-.0000000300
PCB_46	0.0000003906	-.0000000026	0.0000000512	0.0000000042	-.0000000505
PCB_48	0.0000000950	0.0000000009	0.0000000178	0.0000000019	0.0000000064
PCB_52	0.0000033945	-.0000000282	0.0000003899	0.0000000319	-.0000005170
PCB_54	0.0000001065	-.0000000007	0.0000000143	0.0000000014	0.0000000107
PCB_55	-.0000000034	0.0000000000	-.0000000004	-.0000000000	-.0000000010
PCB_56	0.0000000716	0.0000000021	0.0000000186	0.0000000021	0.0000000269
PCB_57	0.0000000398	-.0000000008	0.0000000029	0.0000000000	-.0000000173
PCB_58	0.0000000389	-.0000000003	0.0000000046	0.0000000003	-.0000000071
PCB_60	0.0000000239	0.0000000019	0.0000000114	0.0000000015	0.0000000228
PCB_63	0.0000001301	-.0000000006	0.0000000172	0.0000000018	0.0000000175

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_1	0.0000000009	0.0000000024	-.0000000029	-.0000000001	0.0000000008
PCB_2	-.0000000001	-.0000000004	0.0000000010	0.0000000000	0.0000000000
PCB_3	-.0000000001	-.0000000003	0.0000000009	0.0000000000	0.0000000000
PCB_4	0.0000000242	0.0000000787	-.0000000492	-.0000000031	0.0000000156
PCB_5	-.0000000000	-.0000000002	0.0000000008	-.0000000000	0.0000000001
PCB_6	0.0000000037	0.0000000111	-.0000000035	-.0000000009	0.0000000024
PCB_7	0.0000000005	0.0000000013	-.0000000005	-.0000000002	0.0000000003
PCB_8	0.0000000092	0.0000000222	-.0000000182	-.0000000051	0.0000000057
PCB_9	0.0000000009	0.0000000026	-.0000000009	-.0000000004	0.0000000005
PCB_10	0.0000000026	0.0000000088	-.0000000053	-.0000000001	0.0000000017
PCB_11	-.0000000009	-.0000000053	0.0000000257	-.0000000000	0.0000000005
PCB_14	-.0000000004	-.0000000001	-.0000000000	0.0000000010	-.0000000001
PCB_15	0.0000000005	0.0000000017	0.0000000005	-.0000000001	0.0000000008
PCB_16	0.0000000079	0.0000000260	0.0000000105	0.0000000004	0.0000000068
PCB_17	0.0000000532	0.0000001947	-.0000000692	0.0000000025	0.0000000151
PCB_19	0.0000000344	0.0000001134	-.0000000501	-.0000000058	0.0000000124
PCB_22	0.0000000088	0.0000000298	0.0000000208	0.0000000015	0.0000000100
PCB_23	0.0000000000	-.0000000000	0.0000000009	0.0000000000	0.0000000001
PCB_24	-.0000000001	-.0000000004	0.0000000010	0.0000000000	0.0000000000
PCB_25	0.0000000083	0.0000000358	-.0000000064	0.0000000051	0.0000000049
PCB_27	0.0000000505	0.0000002304	-.0000001133	0.0000000267	0.0000000113
PCB_31	0.0000000210	0.0000000759	0.0000000367	0.0000000070	0.0000000217
PCB_32	0.0000000388	0.0000001434	-.0000000090	0.0000000038	0.0000000173
PCB_34	0.0000000007	0.0000000025	-.0000000007	0.0000000001	0.0000000002
PCB_35	-.0000000001	-.0000000004	0.0000000010	-.0000000000	-.0000000000
PCB_37	0.0000000011	0.0000000037	0.0000000064	0.0000000005	0.0000000023
PCB_38	-.0000000001	-.0000000001	0.0000000005	0.0000000002	-.0000000001
PCB_39	0.0000000001	0.0000000001	0.0000000006	-.0000000000	0.0000000001
PCB_42	0.0000000236	0.0000001281	0.0000000325	0.0000000379	0.0000000165
PCB_43	-.0000000017	0.0000000047	-.0000000037	0.0000000130	0.0000000005
PCB_46	0.0000000094	0.0000000514	0.0000000181	0.0000000108	0.0000000039
PCB_48	0.0000000036	0.0000000118	0.0000000334	0.0000000019	0.0000000056
PCB_52	0.0000000643	0.0000004565	-.0000000116	0.0000000891	0.0000000484
PCB_54	0.0000000033	0.0000000128	-.0000000056	0.0000000002	0.0000000003
PCB_55	-.0000000001	-.0000000004	0.0000000010	0.0000000000	0.0000000000
PCB_56	0.0000000040	0.0000000081	0.0000000447	0.0000000028	0.0000000077
PCB_57	0.0000000001	0.0000000055	-.0000000084	0.0000000026	-.0000000012
PCB_58	0.0000000007	0.0000000052	-.0000000011	0.0000000017	0.0000000002
PCB_60	0.0000000027	0.0000000020	0.0000000427	-.0000000004	0.0000000059
PCB_63	0.0000000036	0.0000000152	-.0000000077	0.0000000030	0.0000000013

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_1	0.0000000044	0.0000000062	0.0000000137	0.0000000058	-.0000000001
PCB_2	-.0000000002	-.0000000087	-.0000000050	0.0000000002	0.0000000000
PCB_3	-.0000000001	-.0000000089	-.0000000048	0.0000000003	0.0000000000
PCB_4	0.0000002266	0.0000016542	0.0000009919	0.0000002556	-.0000000005
PCB_5	0.0000000002	-.0000000085	-.0000000040	0.0000000005	0.0000000000
PCB_6	0.0000000351	0.0000002307	0.0000001429	0.0000000409	0.0000000000
PCB_7	0.0000000040	0.0000000243	0.0000000160	0.0000000046	0.0000000000
PCB_8	0.0000000525	0.0000002454	0.0000002236	0.0000000486	-.0000000006
PCB_9	0.0000000079	0.0000000532	0.0000000344	0.0000000088	0.0000000000
PCB_10	0.0000000260	0.0000001947	0.0000001134	0.0000000298	-.0000000000
PCB_11	0.0000000105	-.0000000692	-.0000000501	0.0000000208	0.0000000009
PCB_14	0.0000000004	0.0000000025	-.0000000058	0.0000000015	0.0000000000
PCB_15	0.0000000068	0.0000000151	0.0000000124	0.0000000100	0.0000000001
PCB_16	0.0000001100	0.0000006552	0.0000003571	0.0000001343	0.0000000010
PCB_17	0.0000006552	0.0000064479	0.0000033139	0.0000006714	0.0000000008
PCB_19	0.0000003571	0.0000033139	0.0000018198	0.0000003733	-.0000000001
PCB_22	0.0000001343	0.0000006714	0.0000003733	0.0000001891	0.0000000017
PCB_23	0.0000000010	0.0000000008	-.0000000001	0.0000000017	0.0000000000
PCB_24	-.0000000002	-.0000000087	-.0000000051	0.0000000002	0.0000000000
PCB_25	0.0000001340	0.0000011270	0.0000005545	0.0000001525	0.0000000006
PCB_27	0.0000007855	0.0000083176	0.0000040248	0.0000007907	0.0000000006
PCB_31	0.0000003357	0.0000019093	0.0000010282	0.0000004403	0.0000000035
PCB_32	0.0000005299	0.0000046774	0.0000023929	0.0000006071	0.0000000027
PCB_34	0.0000000087	0.0000000866	0.0000000439	0.0000000093	0.0000000000
PCB_35	-.0000000003	-.0000000074	-.0000000041	0.0000000000	0.0000000000
PCB_37	0.0000000210	0.0000000333	0.0000000224	0.0000000333	0.0000000004
PCB_38	0.0000000007	0.0000000119	0.0000000029	0.0000000008	0.0000000000
PCB_39	0.0000000009	0.0000000009	0.0000000008	0.0000000015	0.0000000000
PCB_42	0.0000005681	0.0000046696	0.0000020704	0.0000006576	0.0000000047
PCB_43	0.0000000232	0.0000001085	0.0000000065	0.0000000411	-.0000000000
PCB_46	0.0000002389	0.0000022066	0.0000009840	0.0000002577	0.0000000022
PCB_48	0.0000000876	0.0000003624	0.0000001716	0.0000001161	0.0000000017
PCB_52	0.0000020242	0.0000189821	0.0000082580	0.0000020362	0.0000000160
PCB_54	0.0000000437	0.0000004811	0.0000002398	0.0000000394	0.0000000000
PCB_55	-.0000000002	-.0000000087	-.0000000051	0.0000000002	0.0000000000
PCB_56	0.0000000823	0.0000000423	0.0000000539	0.0000001309	0.0000000020
PCB_57	0.0000000120	0.0000002732	0.0000001064	0.0000000122	-.0000000002
PCB_58	0.0000000200	0.0000002068	0.0000000901	0.0000000239	0.0000000001
PCB_60	0.0000000528	-.0000000935	-.0000000243	0.0000000901	0.0000000018
PCB_63	0.0000000479	0.0000004503	0.0000002220	0.0000000547	-.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_1	-.0000000001	0.0000000014	-.0000000125	0.0000000102	0.0000000028
PCB_2	0.0000000000	-.0000000012	-.0000000118	-.0000000003	-.0000000047
PCB_3	0.0000000000	-.0000000013	-.0000000125	-.0000000001	-.0000000050
PCB_4	-.0000000034	0.0000002952	0.0000018723	0.0000006379	0.0000012035
PCB_5	0.0000000000	-.0000000012	-.0000000134	0.0000000005	-.0000000051
PCB_6	-.0000000004	0.0000000399	0.0000002396	0.0000000981	0.0000001731
PCB_7	-.0000000000	0.0000000040	0.0000000228	0.0000000106	0.0000000180
PCB_8	-.0000000010	0.0000000261	0.0000000830	0.0000001050	0.0000001429
PCB_9	-.0000000001	0.0000000083	0.0000000505	0.0000000210	0.0000000388
PCB_10	-.0000000004	0.0000000358	0.0000002304	0.0000000759	0.0000001434
PCB_11	0.0000000010	-.0000000064	-.0000001133	0.0000000367	-.0000000090
PCB_14	0.0000000000	0.0000000051	0.0000000267	0.0000000070	0.0000000038
PCB_15	0.0000000000	0.0000000049	0.0000000113	0.0000000217	0.0000000173
PCB_16	-.0000000002	0.0000001340	0.0000007855	0.0000003357	0.0000005299
PCB_17	-.0000000087	0.0000011270	0.0000083176	0.0000019093	0.0000046774
PCB_19	-.0000000051	0.0000005545	0.0000040248	0.0000010282	0.0000023929
PCB_22	0.0000000002	0.0000001525	0.0000007907	0.0000004403	0.0000006071
PCB_23	0.0000000000	0.0000000006	0.0000000006	0.0000000035	0.0000000027
PCB_24	0.0000000000	-.0000000013	-.0000000119	-.0000000004	-.0000000048
PCB_25	-.0000000013	0.0000002293	0.0000015619	0.0000004323	0.0000008534
PCB_27	-.0000000119	0.0000015619	0.0000116670	0.0000024703	0.0000060179
PCB_31	-.0000000004	0.0000004323	0.0000024703	0.0000011501	0.0000016114
PCB_32	-.0000000048	0.0000008534	0.0000060179	0.0000016114	0.0000035553
PCB_34	-.0000000001	0.0000000153	0.0000001126	0.0000000258	0.0000000637
PCB_35	0.0000000000	-.0000000013	-.0000000111	-.0000000006	-.0000000039
PCB_37	0.0000000002	0.0000000154	0.0000000249	0.0000000691	0.0000000522
PCB_38	0.0000000000	0.0000000028	0.0000000216	0.0000000029	0.0000000095
PCB_39	0.0000000000	0.0000000004	-.0000000012	0.0000000028	0.0000000023
PCB_42	-.0000000029	0.0000010211	0.0000068361	0.0000018336	0.0000036266
PCB_43	-.0000000002	0.0000000788	0.0000003770	0.0000001646	0.0000000981
PCB_46	-.0000000013	0.0000004475	0.0000032208	0.0000007716	0.0000016824
PCB_48	0.0000000009	0.0000000939	0.0000004647	0.0000002868	0.0000003473
PCB_52	-.0000000166	0.0000039691	0.0000292040	0.0000065523	0.0000142213
PCB_54	-.0000000007	0.0000000831	0.0000006454	0.0000001281	0.0000003398
PCB_55	0.0000000000	-.0000000013	-.0000000119	-.0000000004	-.0000000048
PCB_56	0.0000000016	0.0000000499	-.0000000265	0.0000003197	0.0000001453
PCB_57	-.0000000006	0.0000000508	0.0000004184	0.0000000271	0.0000001967
PCB_58	-.0000000002	0.0000000437	0.0000003115	0.0000000685	0.0000001587
PCB_60	0.0000000017	0.0000000030	-.0000002660	0.0000001700	0.0000000304
PCB_63	-.0000000007	0.0000000885	0.0000005990	0.0000001416	0.0000003317

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_1	0.0000000000	-.0000000001	0.0000000016	-.0000000003	0.0000000000
PCB_2	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_3	-.0000000001	0.0000000000	0.0000000003	-.0000000000	0.0000000000
PCB_4	0.0000000213	-.0000000034	0.0000000325	-.0000000013	0.0000000007
PCB_5	-.0000000001	0.0000000000	0.0000000003	-.0000000000	0.0000000000
PCB_6	0.0000000030	-.0000000003	0.0000000057	-.0000000002	0.0000000002
PCB_7	0.0000000003	-.0000000000	0.0000000007	-.0000000001	0.0000000000
PCB_8	0.0000000024	-.0000000009	0.0000000092	-.0000000025	0.0000000002
PCB_9	0.0000000007	-.0000000001	0.0000000011	-.0000000001	0.0000000001
PCB_10	0.0000000025	-.0000000004	0.0000000037	-.0000000001	0.0000000001
PCB_11	-.0000000007	0.0000000010	0.0000000064	0.0000000005	0.0000000006
PCB_14	0.0000000001	-.0000000000	0.0000000005	0.0000000002	-.0000000000
PCB_15	0.0000000002	-.0000000000	0.0000000023	-.0000000001	0.0000000001
PCB_16	0.0000000087	-.0000000003	0.0000000210	0.0000000007	0.0000000009
PCB_17	0.0000000866	-.0000000074	0.0000000333	0.0000000119	0.0000000009
PCB_19	0.0000000439	-.0000000041	0.0000000224	0.0000000029	0.0000000008
PCB_22	0.0000000093	0.0000000000	0.0000000333	0.0000000008	0.0000000015
PCB_23	0.0000000000	0.0000000000	0.0000000004	0.0000000000	0.0000000000
PCB_24	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_25	0.0000000153	-.0000000013	0.0000000154	0.0000000028	0.0000000004
PCB_27	0.0000001126	-.0000000111	0.0000000249	0.0000000216	-.0000000012
PCB_31	0.0000000258	-.0000000006	0.0000000691	0.0000000029	0.0000000028
PCB_32	0.0000000637	-.0000000039	0.0000000522	0.0000000095	0.0000000023
PCB_34	0.0000000012	-.0000000001	0.0000000005	0.0000000002	0.0000000000
PCB_35	-.0000000001	0.0000000000	0.0000000001	0.0000000000	0.0000000000
PCB_37	0.0000000005	0.0000000001	0.0000000081	-.0000000000	0.0000000004
PCB_38	0.0000000002	0.0000000000	-.0000000000	0.0000000001	0.0000000000
PCB_39	0.0000000000	0.0000000000	0.0000000004	0.0000000000	0.0000000000
PCB_42	0.0000000653	-.0000000039	0.0000000772	0.0000000184	0.0000000024
PCB_43	0.0000000023	-.0000000002	0.0000000083	0.0000000023	0.0000000000
PCB_46	0.0000000302	-.0000000015	0.0000000199	0.0000000081	0.0000000006
PCB_48	0.0000000050	0.0000000007	0.0000000224	0.0000000013	0.0000000012
PCB_52	0.0000002510	-.0000000248	0.0000001492	0.0000000642	-.0000000034
PCB_54	0.0000000064	-.0000000006	-.0000000003	0.0000000010	-.0000000001
PCB_55	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_56	0.0000000009	0.0000000016	0.0000000306	0.0000000001	0.0000000018
PCB_57	0.0000000041	-.0000000005	-.0000000020	0.0000000015	-.0000000002
PCB_58	0.0000000030	-.0000000002	0.0000000017	0.0000000009	0.0000000000
PCB_60	-.0000000010	0.0000000016	0.0000000249	-.0000000003	0.0000000016
PCB_63	0.0000000064	-.0000000006	0.0000000052	0.0000000013	0.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_1	-.0000000086	0.0000000024	-.0000000129	-.0000000006	-.0000001294
PCB_2	-.0000000028	-.0000000001	-.0000000013	0.0000000010	-.0000000164
PCB_3	-.0000000035	-.0000000000	-.0000000019	0.0000000008	-.0000000211
PCB_4	0.0000010087	0.0000000251	0.0000003906	0.0000000950	0.0000033945
PCB_5	-.0000000043	0.0000000000	-.0000000026	0.0000000009	-.0000000282
PCB_6	0.0000001317	-.0000000003	0.0000000512	0.0000000178	0.0000003899
PCB_7	0.0000000116	-.0000000007	0.0000000042	0.0000000019	0.0000000319
PCB_8	-.0000000490	-.0000000300	-.0000000505	0.0000000064	-.0000005170
PCB_9	0.0000000236	-.0000000017	0.0000000094	0.0000000036	0.0000000643
PCB_10	0.0000001281	0.0000000047	0.0000000514	0.0000000118	0.0000004565
PCB_11	0.0000000325	-.0000000037	0.0000000181	0.0000000334	-.0000000116
PCB_14	0.0000000379	0.0000000130	0.0000000108	0.0000000019	0.0000000891
PCB_15	0.0000000165	0.0000000005	0.0000000039	0.0000000056	0.0000000484
PCB_16	0.0000005681	0.0000000232	0.0000002389	0.0000000876	0.0000020242
PCB_17	0.0000046696	0.0000001085	0.0000022066	0.0000003624	0.0000189821
PCB_19	0.0000020704	0.0000000065	0.0000009840	0.0000001716	0.0000082580
PCB_22	0.0000006576	0.0000000411	0.0000002577	0.0000001161	0.0000020362
PCB_23	0.0000000047	-.0000000000	0.0000000022	0.0000000017	0.0000000160
PCB_24	-.0000000029	-.0000000002	-.0000000013	0.0000000009	-.0000000166
PCB_25	0.0000010211	0.0000000788	0.0000004475	0.0000000939	0.0000039691
PCB_27	0.0000068361	0.0000003770	0.0000032208	0.0000004647	0.0000292040
PCB_31	0.0000018336	0.0000001646	0.0000007716	0.0000002868	0.0000065523
PCB_32	0.0000036266	0.0000000981	0.0000016824	0.0000003473	0.0000142213
PCB_34	0.0000000653	0.0000000023	0.0000000302	0.0000000050	0.0000002510
PCB_35	-.0000000039	-.0000000002	-.0000000015	0.0000000007	-.0000000248
PCB_37	0.0000000772	0.0000000083	0.0000000199	0.0000000224	0.0000001492
PCB_38	0.0000000184	0.0000000023	0.0000000081	0.0000000013	0.0000000642
PCB_39	0.0000000024	0.0000000000	0.0000000006	0.0000000012	-.0000000034
PCB_42	0.0000050933	0.0000004684	0.0000021590	0.0000004814	0.0000188941
PCB_43	0.0000004684	0.0000002015	0.0000001154	0.0000000282	0.0000006066
PCB_46	0.0000021590	0.0000001154	0.0000010240	0.0000002068	0.0000093742
PCB_48	0.0000004814	0.0000000282	0.0000002068	0.0000001011	0.0000017564
PCB_52	0.0000188941	0.0000006066	0.0000093742	0.0000017564	0.0000963465
PCB_54	0.0000003482	0.0000000062	0.0000001750	0.0000000243	0.0000015783
PCB_55	-.0000000029	-.0000000002	-.0000000013	0.0000000009	-.0000000166
PCB_56	0.0000002454	0.0000000841	0.0000000579	0.0000001061	-.0000000731
PCB_57	0.0000002769	0.0000000196	0.0000001142	0.0000000002	0.0000009662
PCB_58	0.0000002151	0.0000000208	0.0000000931	0.0000000148	0.0000008064
PCB_60	0.0000000629	0.0000000114	-.0000000104	0.0000000773	-.0000005474
PCB_63	0.0000004106	0.0000000472	0.0000001537	0.0000000242	0.0000011360

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_1	-.0000000009	-.0000000001	0.0000000043	-.0000000014	-.0000000008
PCB_2	-.0000000007	0.0000000000	0.0000000017	-.0000000006	-.0000000002
PCB_3	-.0000000007	0.0000000000	0.0000000017	-.0000000006	-.0000000003
PCB_4	0.0000001065	-.0000000034	0.0000000716	0.0000000398	0.0000000389
PCB_5	-.0000000007	0.0000000000	0.0000000021	-.0000000008	-.0000000003
PCB_6	0.0000000143	-.0000000004	0.0000000186	0.0000000029	0.0000000046
PCB_7	0.0000000014	-.0000000000	0.0000000021	0.0000000000	0.0000000003
PCB_8	0.0000000107	-.0000000010	0.0000000269	-.0000000173	-.0000000071
PCB_9	0.0000000033	-.0000000001	0.0000000040	0.0000000001	0.0000000007
PCB_10	0.0000000128	-.0000000004	0.0000000081	0.0000000055	0.0000000052
PCB_11	-.0000000056	0.0000000010	0.0000000447	-.0000000084	-.0000000011
PCB_14	0.0000000002	0.0000000000	0.0000000028	0.0000000026	0.0000000017
PCB_15	0.0000000003	0.0000000000	0.0000000077	-.0000000012	0.0000000002
PCB_16	0.0000000437	-.0000000002	0.0000000823	0.0000000120	0.0000000200
PCB_17	0.0000004811	-.0000000087	0.0000000423	0.0000002732	0.0000002068
PCB_19	0.0000002398	-.0000000051	0.0000000539	0.0000001064	0.0000000901
PCB_22	0.0000000394	0.0000000002	0.0000001309	0.0000000122	0.0000000239
PCB_23	0.0000000000	0.0000000000	0.0000000020	-.0000000002	0.0000000001
PCB_24	-.0000000007	0.0000000000	0.0000000016	-.0000000006	-.0000000002
PCB_25	0.0000000831	-.0000000013	0.0000000499	0.0000000508	0.0000000437
PCB_27	0.0000006454	-.0000000119	-.0000000265	0.0000004184	0.0000003115
PCB_31	0.0000001281	-.0000000004	0.0000003197	0.0000000271	0.0000000685
PCB_32	0.0000003398	-.0000000048	0.0000001453	0.0000001967	0.0000001587
PCB_34	0.0000000064	-.0000000001	0.0000000009	0.0000000041	0.0000000030
PCB_35	-.0000000006	0.0000000000	0.0000000016	-.0000000005	-.0000000002
PCB_37	-.0000000003	0.0000000002	0.0000000306	-.0000000020	0.0000000017
PCB_38	0.0000000010	0.0000000000	0.0000000001	0.0000000015	0.0000000009
PCB_39	-.0000000001	0.0000000000	0.0000000018	-.0000000002	0.0000000000
PCB_42	0.0000003482	-.0000000029	0.0000002454	0.0000002769	0.0000002151
PCB_43	0.0000000062	-.0000000002	0.0000000841	0.0000000196	0.0000000208
PCB_46	0.0000001750	-.0000000013	0.0000000579	0.0000001142	0.0000000931
PCB_48	0.0000000243	0.0000000009	0.0000001061	0.0000000002	0.0000000148
PCB_52	0.0000015783	-.0000000166	-.0000000731	0.0000009662	0.0000008064
PCB_54	0.0000000380	-.0000000007	-.0000000053	0.0000000203	0.0000000156
PCB_55	-.0000000007	0.0000000000	0.0000000016	-.0000000006	-.0000000002
PCB_56	-.0000000053	0.0000000016	0.0000001991	-.0000000341	0.0000000025
PCB_57	0.0000000203	-.0000000006	-.0000000341	0.0000000337	0.0000000149
PCB_58	0.0000000156	-.0000000002	0.0000000025	0.0000000149	0.0000000101
PCB_60	-.0000000157	0.0000000017	0.0000001320	-.0000000258	-.0000000045
PCB_63	0.0000000306	-.0000000007	0.0000000111	0.0000000298	0.0000000185

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_1	0.0000000030	0.0000000026	-.0000000064	0.0000000399	0.0000000001
PCB_2	0.0000000017	-.0000000007	-.0000000002	-.0000000087	-.0000000002
PCB_3	0.0000000017	-.0000000007	-.0000000009	-.0000000080	-.0000000002
PCB_4	0.0000000239	0.0000001301	0.0000011448	0.0000017370	0.0000000506
PCB_5	0.0000000019	-.0000000006	-.0000000019	-.0000000073	-.0000000002
PCB_6	0.0000000114	0.0000000172	0.0000001623	0.0000002348	0.0000000067
PCB_7	0.0000000015	0.0000000018	0.0000000149	0.0000000236	0.0000000006
PCB_8	0.0000000228	0.0000000175	-.0000000530	0.0000002152	-.0000000001
PCB_9	0.0000000027	0.0000000036	0.0000000290	0.0000000489	0.0000000012
PCB_10	0.0000000020	0.0000000152	0.0000001458	0.0000002025	0.0000000064
PCB_11	0.0000000427	-.0000000077	0.0000001067	-.0000000885	0.0000000001
PCB_14	-.0000000004	0.0000000030	0.0000000404	0.0000000454	0.0000000020
PCB_15	0.0000000059	0.0000000013	0.0000000323	0.0000000183	0.0000000009
PCB_16	0.0000000528	0.0000000479	0.0000007196	0.0000006350	0.0000000261
PCB_17	-.0000000935	0.0000004503	0.0000049029	0.0000058603	0.0000002061
PCB_19	-.0000000243	0.0000002220	0.0000022088	0.0000029016	0.0000000964
PCB_22	0.0000000901	0.0000000547	0.0000009257	0.0000007937	0.0000000319
PCB_23	0.0000000018	-.0000000001	0.0000000088	-.0000000003	0.0000000002
PCB_24	0.0000000017	-.0000000007	-.0000000003	-.0000000089	-.0000000002
PCB_25	0.0000000030	0.0000000885	0.0000011344	0.0000011642	0.0000000471
PCB_27	-.0000002660	0.0000005990	0.0000070502	0.0000076549	0.0000003052
PCB_31	0.0000001700	0.0000001416	0.0000023993	0.0000019168	0.0000000934
PCB_32	0.0000000304	0.0000003317	0.0000040806	0.0000044359	0.0000001608
PCB_34	-.0000000010	0.0000000064	0.0000000694	0.0000000855	0.0000000029
PCB_35	0.0000000016	-.0000000006	-.0000000017	-.0000000073	-.0000000002
PCB_37	0.0000000249	0.0000000052	0.0000001371	0.0000000839	0.0000000037
PCB_38	-.0000000003	0.0000000013	0.0000000192	0.0000000183	0.0000000007
PCB_39	0.0000000016	0.0000000001	0.0000000055	0.0000000033	0.0000000001
PCB_42	0.0000000629	0.0000004106	0.0000056713	0.0000054921	0.0000002222
PCB_43	0.0000000114	0.0000000472	0.0000005134	0.0000007289	0.0000000306
PCB_46	-.0000000104	0.0000001537	0.0000023668	0.0000019287	0.0000000910
PCB_48	0.0000000773	0.0000000242	0.0000006721	0.0000003151	0.0000000209
PCB_52	-.0000005474	0.0000011360	0.0000203577	0.0000124465	0.0000007621
PCB_54	-.0000000157	0.0000000306	0.0000003479	0.0000003763	0.0000000151
PCB_55	0.0000000017	-.0000000007	-.0000000003	-.0000000089	-.0000000002
PCB_56	0.0000001320	0.0000000111	0.0000005056	0.0000002258	0.0000000185
PCB_57	-.0000000258	0.0000000298	0.0000002580	0.0000004267	0.0000000103
PCB_58	-.0000000045	0.0000000185	0.0000002318	0.0000002537	0.0000000096
PCB_60	0.0000001143	-.0000000021	0.0000002673	0.0000000426	0.0000000036
PCB_63	-.0000000021	0.0000000469	0.0000004309	0.0000006694	0.0000000190

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_1	-.0000000019	-.0000000072	-.0000000009	0.0000000007	0.0000000012
PCB_2	-.0000000023	-.0000000024	0.0000000009	0.0000000004	0.0000000008
PCB_3	-.0000000024	-.0000000027	0.0000000008	0.0000000004	0.0000000008
PCB_4	0.0000002273	0.0000003047	-.0000000095	0.0000000165	-.0000000406
PCB_5	-.0000000028	-.0000000035	0.0000000007	0.0000000005	0.0000000007
PCB_6	0.0000000237	0.0000000325	0.0000000013	0.0000000044	-.0000000029
PCB_7	0.0000000017	0.0000000021	0.0000000001	0.0000000006	-.0000000002
PCB_8	-.0000000241	-.0000000655	-.0000000097	0.0000000085	-.0000000075
PCB_9	0.0000000040	0.0000000048	-.0000000000	0.0000000010	-.0000000008
PCB_10	0.0000000288	0.0000000404	-.0000000007	0.0000000017	-.0000000050
PCB_11	-.0000000318	-.0000000232	0.0000000222	0.0000000111	0.0000000156
PCB_14	0.0000000097	0.0000000148	0.0000000014	-.0000000011	-.0000000005
PCB_15	-.0000000025	-.0000000014	0.0000000020	0.0000000024	0.0000000019
PCB_16	0.0000000772	0.0000001398	0.0000000246	0.0000000185	-.0000000061
PCB_17	0.0000011686	0.0000017360	-.0000000049	-.0000000083	-.0000002457
PCB_19	0.0000005106	0.0000007363	-.0000000162	0.0000000058	-.0000001173
PCB_22	0.0000000740	0.0000001526	0.0000000406	0.0000000304	0.0000000200
PCB_23	-.0000000007	0.0000000001	0.0000000009	0.0000000006	0.0000000006
PCB_24	-.0000000023	-.0000000024	0.0000000009	0.0000000004	0.0000000008
PCB_25	0.0000002229	0.0000003510	0.0000000149	0.0000000028	-.0000000396
PCB_27	0.0000017296	0.0000026265	-.0000000110	-.0000000549	-.0000003954
PCB_31	0.0000002268	0.0000004462	0.0000000870	0.0000000562	-.0000000167
PCB_32	0.0000008244	0.0000012859	0.0000000448	0.0000000265	-.0000001178
PCB_34	0.0000000168	0.0000000249	0.0000000002	-.0000000002	-.0000000028
PCB_35	-.0000000021	-.0000000024	0.0000000007	0.0000000003	0.0000000008
PCB_37	-.0000000041	0.0000000041	0.0000000107	0.0000000079	0.0000000097
PCB_38	0.0000000049	0.0000000077	0.0000000006	-.0000000003	-.0000000004
PCB_39	-.0000000006	-.0000000003	0.0000000007	0.0000000004	0.0000000007
PCB_42	0.0000011018	0.0000017698	0.0000001299	0.0000000118	-.0000001413
PCB_43	0.0000001117	0.0000001598	0.0000000185	-.0000000149	-.0000000125
PCB_46	0.0000004567	0.0000007618	0.0000000438	0.0000000048	-.0000000905
PCB_48	0.0000000240	0.0000000868	0.0000000423	0.0000000242	0.0000000077
PCB_52	0.0000037883	0.0000066021	0.0000002421	0.0000000558	-.0000010584
PCB_54	0.0000000880	0.0000001326	-.0000000024	-.0000000029	-.0000000252
PCB_55	-.0000000023	-.0000000024	0.0000000009	0.0000000004	0.0000000008
PCB_56	-.0000000659	-.0000000493	0.0000000567	0.0000000304	0.0000000308
PCB_57	0.0000001043	0.0000001453	-.0000000044	-.0000000081	-.0000000061
PCB_58	0.0000000553	0.0000000853	0.0000000027	-.0000000016	-.0000000064
PCB_60	-.0000000780	-.0000000787	0.0000000467	0.0000000303	0.0000000439
PCB_63	0.0000001169	0.0000001619	0.0000000027	-.0000000041	-.0000000102

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_1	-.0000000008	0.0000000222	0.0000000025	-.0000000133	-.0000000007
PCB_2	0.0000000003	-.0000000018	-.0000000030	-.0000000031	0.0000000006
PCB_3	0.0000000003	-.0000000008	-.0000000028	-.0000000034	0.0000000005
PCB_4	-.0000000255	-.0000001255	0.0000003944	0.0000003990	-.0000000355
PCB_5	0.0000000002	0.0000000011	-.0000000028	-.0000000031	0.0000000005
PCB_6	-.0000000027	-.0000000170	0.0000000420	0.0000000380	-.0000000034
PCB_7	-.0000000003	0.0000000006	0.0000000035	0.0000000024	-.0000000004
PCB_8	-.0000000074	0.0000002056	-.0000000075	-.0000000277	-.0000000057
PCB_9	-.0000000007	0.0000000011	0.0000000065	0.0000000059	-.0000000008
PCB_10	-.0000000029	-.0000000245	0.0000000503	0.0000000541	-.0000000041
PCB_11	0.0000000069	-.0000000848	-.0000000475	-.0000000332	0.0000000119
PCB_14	0.0000000001	-.0000000213	0.0000000188	0.0000000246	-.0000000001
PCB_15	-.0000000001	-.0000000039	0.0000000053	-.0000000001	0.0000000003
PCB_16	-.0000000027	-.0000002139	0.0000001607	0.0000002372	-.0000000013
PCB_17	-.0000000643	-.0000016447	0.0000015358	0.0000023418	-.0000001132
PCB_19	-.0000000373	-.0000005667	0.0000006973	0.0000009999	-.0000000610
PCB_22	0.0000000001	-.0000003149	0.0000001767	0.0000001412	0.0000000021
PCB_23	0.0000000002	-.0000000048	-.0000000005	-.0000000001	0.0000000004
PCB_24	0.0000000003	-.0000000018	-.0000000031	-.0000000031	0.0000000006
PCB_25	-.0000000098	-.0000004019	0.0000003661	0.0000005467	-.0000000164
PCB_27	-.0000000883	-.0000026069	0.0000025105	0.0000040232	-.0000001607
PCB_31	-.0000000058	-.0000007500	0.0000006171	0.0000008926	-.0000000012
PCB_32	-.0000000359	-.0000014934	0.0000011150	0.0000015129	-.0000000667
PCB_34	-.0000000008	-.0000000255	0.0000000210	0.0000000291	-.0000000015
PCB_35	0.0000000003	-.0000000013	-.0000000035	-.0000000042	0.0000000005
PCB_37	0.0000000013	-.0000000455	0.0000000142	-.0000000070	0.0000000030
PCB_38	0.0000000001	-.0000000120	0.0000000052	0.0000000085	-.0000000000
PCB_39	0.0000000002	-.0000000026	-.0000000009	-.0000000026	0.0000000003
PCB_42	-.0000000240	-.0000023585	0.0000016788	0.0000025392	-.0000000468
PCB_43	0.0000000000	-.0000001954	0.0000002671	0.0000003611	-.0000000005
PCB_46	-.0000000118	-.0000010108	0.0000006915	0.0000012309	-.0000000230
PCB_48	0.0000000051	-.0000002626	0.0000001002	0.0000002100	0.0000000117
PCB_52	-.0000001631	-.0000083400	0.0000066535	0.0000128959	-.0000002627
PCB_54	-.0000000050	-.0000001197	0.0000001197	0.0000002204	-.0000000087
PCB_55	0.0000000003	-.0000000018	-.0000000031	-.0000000031	0.0000000006
PCB_56	0.0000000109	-.0000001406	0.0000000457	0.0000000917	0.0000000238
PCB_57	-.0000000034	-.0000001526	0.0000000907	0.0000000587	-.0000000096
PCB_58	-.0000000016	-.0000001049	0.0000000760	0.0000000989	-.0000000037
PCB_60	0.0000000112	-.0000001002	-.0000000724	-.0000001360	0.0000000221
PCB_63	-.0000000045	-.0000001600	0.0000001438	0.0000001438	-.0000000092

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_1	0.0000000160	0.0000000012	-.0000002058	-.0000000029	0.0000000564
PCB_2	-.0000000077	-.0000000010	0.0000000092	-.0000000004	-.0000000254
PCB_3	-.0000000074	-.0000000010	0.0000000011	-.0000000006	-.0000000227
PCB_4	0.0000013089	0.0000001359	-.0000006470	0.0000000835	-.0000001574
PCB_5	-.0000000074	-.0000000009	-.0000000085	-.0000000007	-.0000000221
PCB_6	0.0000001562	0.0000000169	-.0000001176	0.0000000095	-.0000001665
PCB_7	0.0000000154	0.0000000017	-.0000000284	0.0000000006	-.0000000164
PCB_8	0.0000000794	0.0000000179	-.0000013275	-.0000000171	0.0000000599
PCB_9	0.0000000288	0.0000000037	-.0000000451	0.0000000015	-.0000000423
PCB_10	0.0000001589	0.0000000161	-.0000000177	0.0000000113	-.0000000324
PCB_11	-.0000000979	-.0000000132	0.0000004357	-.0000000000	-.0000007251
PCB_14	0.0000000405	0.0000000030	0.0000001069	0.0000000040	0.0000000500
PCB_15	0.0000000195	0.0000000002	-.0000000607	0.0000000002	-.0000000729
PCB_16	0.0000005224	0.0000000488	0.0000006971	0.0000000496	-.0000009560
PCB_17	0.0000047562	0.0000005420	0.0000083845	0.0000005035	-.0000015508
PCB_19	0.0000021920	0.0000002643	0.0000023805	0.0000002122	-.0000013248
PCB_22	0.0000005870	0.0000000413	0.0000005055	0.0000000499	-.0000015484
PCB_23	0.0000000001	-.0000000003	0.0000000184	0.0000000003	-.0000000320
PCB_24	-.0000000079	-.0000000010	0.0000000095	-.0000000004	-.0000000254
PCB_25	0.0000010248	0.0000001032	0.0000018869	0.0000001064	-.0000004640
PCB_27	0.0000069707	0.0000007637	0.0000147303	0.0000007747	-.0000005601
PCB_31	0.0000016135	0.0000001481	0.0000024149	0.0000001618	-.0000039526
PCB_32	0.0000035304	0.0000003679	0.0000063115	0.0000003730	-.0000028007
PCB_34	0.0000000659	0.0000000073	0.0000001197	0.0000000070	-.0000000211
PCB_35	-.0000000093	-.0000000009	0.0000000071	-.0000000005	-.0000000292
PCB_37	0.0000000644	-.0000000001	-.0000000302	0.0000000029	-.0000002836
PCB_38	0.0000000150	0.0000000014	0.0000000711	0.0000000022	0.0000000025
PCB_39	-.0000000002	-.0000000002	0.0000000014	-.0000000000	-.0000000225
PCB_42	0.0000049068	0.0000004554	0.0000116491	0.0000005345	-.0000012681
PCB_43	0.0000004948	0.0000000494	0.0000009489	0.0000000441	0.0000001938
PCB_46	0.0000019480	0.0000001958	0.0000057775	0.0000002428	-.0000012598
PCB_48	0.0000003156	0.0000000224	0.0000011432	0.0000000417	-.0000013970
PCB_52	0.0000177818	0.0000016924	0.0000522523	0.0000022436	-.0000068602
PCB_54	0.0000003424	0.0000000420	0.0000008034	0.0000000406	-.0000000949
PCB_55	-.0000000079	-.0000000010	0.0000000095	-.0000000004	-.0000000254
PCB_56	0.0000000261	-.0000000008	0.0000001987	0.0000000041	-.0000022240
PCB_57	0.0000003341	0.0000000279	0.0000006267	0.0000000320	0.0000006035
PCB_58	0.0000002167	0.0000000202	0.0000004908	0.0000000234	0.0000000185
PCB_60	-.0000001060	-.0000000227	-.0000001055	-.0000000126	-.0000015166
PCB_63	0.0000004653	0.0000000460	0.0000005685	0.0000000400	0.0000002683

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_1	-.0000000014	-.0000000002	0.0000001153	0.0000000232	-.0000000003
PCB_2	-.0000000010	-.0000000000	-.0000000179	-.0000000042	-.0000000001
PCB_3	-.0000000011	-.0000000000	-.0000000122	-.0000000032	-.0000000001
PCB_4	0.0000001600	0.0000000031	-.0000003277	0.0000000603	0.0000000071
PCB_5	-.0000000013	-.0000000000	-.0000000037	-.0000000024	-.0000000002
PCB_6	0.0000000187	0.0000000004	-.0000000711	-.0000000081	0.0000000002
PCB_7	0.0000000015	0.0000000000	0.0000000035	-.0000000002	-.0000000000
PCB_8	-.0000000115	-.0000000006	0.0000009819	0.0000000860	-.0000000056
PCB_9	0.0000000033	0.0000000001	0.0000000073	-.0000000017	-.0000000001
PCB_10	0.0000000203	0.0000000004	-.0000000830	0.0000000023	0.0000000011
PCB_11	-.0000000086	-.0000000001	-.0000006375	-.0000001274	-.0000000019
PCB_14	0.0000000067	0.0000000001	-.0000001060	0.0000000070	0.0000000009
PCB_15	0.0000000003	-.0000000001	-.0000000283	-.0000000066	-.0000000003
PCB_16	0.0000000731	0.0000000016	-.0000011828	-.0000001547	0.0000000021
PCB_17	0.0000007897	0.0000000233	-.0000072666	-.0000005947	0.0000000557
PCB_19	0.0000003466	0.0000000101	-.0000022343	-.0000002382	0.0000000189
PCB_22	0.0000000764	0.0000000011	-.0000016646	-.0000002014	0.0000000030
PCB_23	0.0000000001	0.0000000000	-.0000000312	-.0000000057	-.0000000000
PCB_24	-.0000000010	-.0000000000	-.0000000180	-.0000000043	-.0000000001
PCB_25	0.0000001620	0.0000000041	-.0000018937	-.0000001295	0.0000000116
PCB_27	0.0000011693	0.0000000332	-.0000114064	-.0000007489	0.0000000916
PCB_31	0.0000002289	0.0000000044	-.0000038821	-.0000005231	0.0000000053
PCB_32	0.0000005781	0.0000000161	-.0000068932	-.0000006552	0.0000000417
PCB_34	0.0000000112	0.0000000003	-.0000001132	-.0000000076	0.0000000009
PCB_35	-.0000000011	-.0000000000	-.0000000136	-.0000000040	-.0000000001
PCB_37	0.0000000042	-.0000000002	-.0000002896	-.0000000343	-.0000000002
PCB_38	0.0000000032	0.0000000001	-.0000000618	-.0000000031	0.0000000004
PCB_39	-.0000000000	-.0000000000	-.0000000180	-.0000000029	-.0000000000
PCB_42	0.0000008049	0.0000000206	-.0000119409	-.0000007074	0.0000000689
PCB_43	0.0000000823	0.0000000013	-.0000009381	0.0000001249	0.0000000076
PCB_46	0.0000003378	0.0000000097	-.0000050293	-.0000004980	0.0000000258
PCB_48	0.0000000479	0.0000000011	-.0000016146	-.0000002499	-.0000000001
PCB_52	0.0000028856	0.0000000790	-.0000408502	-.0000047736	0.0000002092
PCB_54	0.0000000598	0.0000000019	-.0000005267	-.0000000558	0.0000000039
PCB_55	-.0000000010	-.0000000000	-.0000000180	-.0000000043	-.0000000001
PCB_56	-.0000000009	-.0000000007	-.0000010828	-.0000002092	-.0000000075
PCB_57	0.0000000576	0.0000000016	-.0000006422	0.0000000395	0.0000000087
PCB_58	0.0000000367	0.0000000010	-.0000004825	-.0000000171	0.0000000037
PCB_60	-.0000000231	-.0000000010	-.0000009063	-.0000001786	-.0000000056
PCB_63	0.0000000743	0.0000000019	-.0000007277	0.0000000339	0.0000000076

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_1	0.0000000131	0.0000001598	-.0000000011	-.0000000001	0.0000000015
PCB_2	-.0000000016	-.0000000668	-.0000000003	-.0000000000	-.0000000002
PCB_3	-.0000000010	-.0000000559	-.0000000004	-.0000000000	-.0000000001
PCB_4	0.0000000294	-.0000015384	0.0000000313	0.0000000039	-.0000000288
PCB_5	-.0000000001	-.0000000441	-.0000000006	-.0000000001	0.0000000001
PCB_6	0.0000000027	-.0000003529	0.0000000024	0.0000000003	-.0000000041
PCB_7	0.0000000015	-.0000000184	0.0000000000	0.0000000000	-.0000000003
PCB_8	0.0000001104	0.0000016930	-.0000000183	-.0000000019	0.0000000153
PCB_9	0.0000000027	-.0000000172	-.0000000000	0.0000000000	-.0000000004
PCB_10	-.0000000012	-.0000002693	0.0000000045	0.0000000005	-.0000000042
PCB_11	-.0000000546	-.0000020348	-.0000000030	-.0000000005	-.0000000087
PCB_14	-.0000000094	-.0000003008	0.0000000029	0.0000000004	-.0000000020
PCB_15	-.0000000002	-.0000002063	-.0000000005	-.0000000001	-.0000000010
PCB_16	-.0000000804	-.0000037417	0.0000000144	0.0000000017	-.0000000271
PCB_17	-.0000005526	-.0000138177	0.0000002165	0.0000000265	-.0000001917
PCB_19	-.0000001421	-.0000038591	0.0000000781	0.0000000096	-.0000000712
PCB_22	-.0000001180	-.0000054151	0.0000000204	0.0000000019	-.0000000396
PCB_23	-.0000000026	-.0000000990	0.0000000000	-.0000000000	-.0000000005
PCB_24	-.0000000016	-.0000000663	-.0000000003	-.0000000000	-.0000000002
PCB_25	-.0000001471	-.0000046541	0.0000000457	0.0000000057	-.0000000448
PCB_27	-.0000009315	-.0000219292	0.0000003384	0.0000000425	-.0000002794
PCB_31	-.0000002840	-.0000124807	0.0000000402	0.0000000049	-.0000000829
PCB_32	-.0000005344	-.0000151818	0.0000001700	0.0000000196	-.0000001744
PCB_34	-.0000000089	-.0000002186	0.0000000034	0.0000000004	-.0000000029
PCB_35	-.0000000013	-.0000000458	-.0000000003	-.0000000000	-.0000000001
PCB_37	-.0000000188	-.0000011774	0.0000000013	0.0000000000	-.0000000065
PCB_38	-.0000000056	-.0000001334	0.0000000014	0.0000000002	-.0000000012
PCB_39	-.0000000013	-.0000000636	0.0000000000	-.0000000000	-.0000000003
PCB_42	-.0000009637	-.0000300531	0.0000002666	0.0000000327	-.0000002633
PCB_43	-.0000000813	-.0000031582	0.0000000256	0.0000000039	-.0000000148
PCB_46	-.0000004210	-.0000115735	0.0000001015	0.0000000125	-.0000001069
PCB_48	-.0000001247	-.0000051873	0.0000000080	0.0000000010	-.0000000295
PCB_52	-.0000034109	-.0000936127	0.0000008090	0.0000001024	-.0000008762
PCB_54	-.0000000426	-.0000008694	0.0000000149	0.0000000019	-.0000000127
PCB_55	-.0000000016	-.0000000663	-.0000000003	-.0000000000	-.0000000002
PCB_56	-.0000000776	-.0000049567	-.0000000165	-.0000000017	-.0000000127
PCB_57	-.0000000557	-.0000009441	0.0000000295	0.0000000033	-.0000000188
PCB_58	-.0000000408	-.0000010501	0.0000000137	0.0000000016	-.0000000114
PCB_60	-.0000000620	-.0000039550	-.0000000112	-.0000000016	-.0000000141
PCB_63	-.0000000542	-.0000016561	0.0000000274	0.0000000033	-.0000000200

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_1	0.0000000208	-.0000000019	0.0000000001	0.0000000136	0.0000000041
PCB_2	-.0000000023	0.0000000008	-.0000000001	-.0000000010	-.0000000002
PCB_3	-.0000000015	0.0000000008	-.0000000001	-.0000000003	-.0000000000
PCB_4	0.0000002759	-.0000001104	-.0000000108	-.0000001584	-.0000000593
PCB_5	-.0000000004	0.0000000008	-.0000000001	0.0000000007	0.0000000002
PCB_6	0.0000000431	-.0000000140	-.0000000018	-.0000000213	-.0000000077
PCB_7	0.0000000065	-.0000000014	-.0000000002	-.0000000007	-.0000000004
PCB_8	0.0000001940	-.0000000113	-.0000000004	0.0000001106	0.0000000285
PCB_9	0.0000000130	-.0000000029	-.0000000003	-.0000000017	-.0000000008
PCB_10	0.0000000253	-.0000000132	-.0000000013	-.0000000243	-.0000000087
PCB_11	-.0000000572	0.0000000136	-.0000000042	-.0000000590	-.0000000161
PCB_14	-.0000000172	-.0000000011	-.0000000008	-.0000000171	-.0000000050
PCB_15	0.0000000062	-.0000000015	-.0000000004	-.0000000019	-.0000000009
PCB_16	-.0000000015	-.0000000325	-.0000000113	-.0000001804	-.0000000593
PCB_17	-.0000000142	-.0000003543	-.0000000549	-.0000014324	-.0000004642
PCB_19	0.0000002220	-.0000001887	-.0000000207	-.0000005192	-.0000001743
PCB_22	-.0000000049	-.0000000438	-.0000000119	-.0000002212	-.0000000676
PCB_23	-.0000000022	0.0000000002	-.0000000002	-.0000000032	-.0000000009
PCB_24	-.0000000023	0.0000000009	-.0000000001	-.0000000010	-.0000000002
PCB_25	-.0000000820	-.0000000661	-.0000000149	-.0000003325	-.0000001076
PCB_27	-.0000005357	-.0000004758	-.0000000812	-.0000021937	-.0000007177
PCB_31	-.0000000926	-.0000001112	-.0000000337	-.0000005671	-.0000001868
PCB_32	-.0000000835	-.0000002683	-.0000000446	-.0000011887	-.0000003739
PCB_34	-.0000000016	-.0000000050	-.0000000007	-.0000000212	-.0000000066
PCB_35	-.0000000017	0.0000000007	-.0000000001	-.0000000005	0.0000000000
PCB_37	-.0000000033	-.0000000027	-.0000000024	-.0000000304	-.0000000090
PCB_38	-.0000000069	-.0000000005	-.0000000003	-.0000000094	-.0000000027
PCB_39	-.0000000003	0.0000000001	-.0000000001	-.0000000017	-.0000000004
PCB_42	-.0000008309	-.0000002539	-.0000000877	-.0000019414	-.0000006068
PCB_43	-.0000001684	-.0000000195	-.0000000104	-.0000001705	-.0000000501
PCB_46	-.0000003591	-.0000001067	-.0000000344	-.0000008160	-.0000002627
PCB_48	-.0000000937	-.0000000079	-.0000000135	-.0000002051	-.0000000657
PCB_52	-.0000032405	-.0000008998	-.0000002911	-.0000067450	-.0000023083
PCB_54	-.0000000153	-.0000000240	-.0000000042	-.0000001078	-.0000000363
PCB_55	-.0000000023	0.0000000009	-.0000000001	-.0000000010	-.0000000002
PCB_56	-.0000000579	0.0000000055	-.0000000126	-.0000001017	-.0000000308
PCB_57	-.0000000434	-.0000000221	-.0000000017	-.0000001176	-.0000000326
PCB_58	-.0000000346	-.0000000137	-.0000000027	-.0000000812	-.0000000247
PCB_60	-.0000000214	0.0000000152	-.0000000084	-.0000000681	-.0000000169
PCB_63	-.0000000210	-.0000000307	-.0000000055	-.0000001405	-.0000000411

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_1	-.0000000903	0.0000000005	0.0000000005	0.0000000347	0.0000000081
PCB_2	0.0000000167	0.0000000002	0.0000000011	-.0000000027	0.0000000071
PCB_3	0.0000000144	0.0000000002	0.0000000010	-.0000000012	0.0000000076
PCB_4	-.0000023278	-.0000000171	0.0000000769	0.0000000104	-.0000010062
PCB_5	0.0000000065	0.0000000002	0.0000000009	0.0000000007	0.0000000084
PCB_6	-.0000002973	-.0000000019	0.0000000110	-.0000000002	-.0000001122
PCB_7	-.0000000398	-.0000000003	0.0000000001	0.0000000028	-.0000000095
PCB_8	-.0000010655	-.0000000078	-.0000000562	0.0000002373	0.0000000349
PCB_9	-.0000000783	-.0000000006	-.0000000003	0.0000000039	-.0000000199
PCB_10	-.0000002412	-.0000000020	0.0000000123	-.0000000094	-.0000001265
PCB_11	0.0000003196	0.0000000045	0.0000000361	-.0000001145	0.0000000770
PCB_14	0.0000000162	0.0000000013	0.0000000186	-.0000000195	-.0000000389
PCB_15	-.0000000214	-.0000000003	0.0000000049	0.0000000039	-.0000000017
PCB_16	-.0000005560	-.0000000050	0.0000001013	-.0000002043	-.0000004408
PCB_17	-.0000054288	-.0000000626	0.0000004115	-.0000017752	-.0000048539
PCB_19	-.0000030695	-.0000000397	0.0000001173	-.0000005682	-.0000021159
PCB_22	-.0000000947	0.0000000033	0.0000001618	-.0000002374	-.0000004058
PCB_23	0.0000000113	0.0000000001	0.0000000019	-.0000000053	0.0000000003
PCB_24	0.0000000169	0.0000000002	0.0000000011	-.0000000028	0.0000000072
PCB_25	-.0000008252	-.0000000086	0.0000001729	-.0000004031	-.0000009925
PCB_27	-.0000063863	-.0000000976	0.0000008053	-.0000028416	-.0000072931
PCB_31	-.0000007290	-.0000000174	0.0000004371	-.0000006716	-.0000013178
PCB_32	-.0000027828	-.0000000287	0.0000004324	-.0000014887	-.0000034425
PCB_34	-.0000000597	-.0000000004	0.0000000073	-.0000000263	-.0000000667
PCB_35	0.0000000206	0.0000000003	0.0000000008	-.0000000023	0.0000000082
PCB_37	0.0000000252	0.0000000022	0.0000000327	-.0000000252	-.0000000159
PCB_38	0.0000000065	0.0000000004	0.0000000048	-.0000000139	-.0000000186
PCB_39	0.0000000070	0.0000000002	0.0000000015	-.0000000022	0.0000000016
PCB_42	-.0000029591	0.0000000034	0.0000010381	-.0000024613	-.0000049070
PCB_43	0.0000001305	0.0000000159	0.0000002734	-.0000001631	-.0000004439
PCB_46	-.0000012062	-.0000000237	0.0000003259	-.0000011511	-.0000021060
PCB_48	-.0000000466	-.0000000016	0.0000001286	-.0000002885	-.0000002797
PCB_52	-.0000150000	-.0000004640	0.0000020358	-.0000097610	-.0000193026
PCB_54	-.0000004295	-.0000000078	0.0000000230	-.0000001488	-.0000003799
PCB_55	0.0000000169	0.0000000002	0.0000000011	-.0000000028	0.0000000072
PCB_56	0.0000004528	0.0000000079	0.0000001995	-.0000001262	0.0000000931
PCB_57	-.0000001219	0.0000000067	0.0000000370	-.0000001363	-.0000003419
PCB_58	-.0000000700	0.0000000008	0.0000000417	-.0000001030	-.0000002184
PCB_60	0.0000003850	0.0000000124	0.0000000983	-.0000000839	0.0000002056
PCB_63	-.0000003898	0.0000000063	0.0000000851	-.0000001384	-.0000004329

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_1	-.0000000001	0.0000000138	0.0000000001	0.0000000050	0.0000000002
PCB_2	0.0000000000	0.0000000031	0.0000000000	0.0000000084	-.0000000000
PCB_3	0.0000000000	0.0000000036	0.0000000000	0.0000000084	-.0000000000
PCB_4	-.0000000034	-.0000003263	-.0000000009	-.0000007263	0.0000000036
PCB_5	0.0000000000	0.0000000044	0.0000000000	0.0000000080	-.0000000000
PCB_6	-.0000000004	-.0000000361	-.0000000001	-.0000000707	0.0000000004
PCB_7	-.0000000000	-.0000000031	-.0000000000	-.0000000067	0.0000000000
PCB_8	-.0000000010	0.0000000287	0.0000000002	-.0000000701	0.0000000002
PCB_9	-.0000000001	-.0000000075	-.0000000000	-.0000000148	0.0000000001
PCB_10	-.0000000004	-.0000000422	-.0000000001	-.0000000892	0.0000000004
PCB_11	0.0000000010	0.0000000349	-.0000000001	0.0000001491	-.0000000003
PCB_14	0.0000000000	-.0000000007	0.0000000000	-.0000000149	0.0000000003
PCB_15	0.0000000000	0.0000000030	-.0000000000	0.0000000050	0.0000000001
PCB_16	-.0000000002	-.0000001366	-.0000000006	-.0000002185	0.0000000012
PCB_17	-.0000000087	-.0000019598	-.0000000058	-.0000033043	0.0000000086
PCB_19	-.0000000051	-.0000008971	-.0000000026	-.0000015464	0.0000000032
PCB_22	0.0000000002	-.0000000949	-.0000000007	-.0000000605	0.0000000020
PCB_23	0.0000000000	0.0000000003	-.0000000000	0.0000000043	-.0000000000
PCB_24	0.0000000000	0.0000000031	0.0000000000	0.0000000085	-.0000000000
PCB_25	-.0000000013	-.0000003323	-.0000000010	-.0000006204	0.0000000027
PCB_27	-.0000000119	-.0000028295	-.0000000081	-.0000051416	0.0000000134
PCB_31	-.0000000004	-.0000003699	-.0000000018	-.0000006559	0.0000000040
PCB_32	-.0000000048	-.0000013551	-.0000000045	-.0000020154	0.0000000071
PCB_34	-.0000000001	-.0000000258	-.0000000001	-.0000000413	0.0000000002
PCB_35	0.0000000000	0.0000000031	0.0000000000	0.0000000092	-.0000000000
PCB_37	0.0000000002	0.0000000157	-.0000000000	0.0000000446	0.0000000004
PCB_38	0.0000000000	-.0000000054	-.0000000000	-.0000000072	0.0000000001
PCB_39	0.0000000000	0.0000000014	-.0000000000	0.0000000053	0.0000000000
PCB_42	-.0000000029	-.0000014678	-.0000000049	-.0000026002	0.0000000166
PCB_43	-.0000000002	0.0000000482	0.0000000005	-.0000001887	0.0000000048
PCB_46	-.0000000013	-.0000008053	-.0000000028	-.0000013123	0.0000000033
PCB_48	0.0000000009	-.0000000704	-.0000000006	-.0000000533	0.0000000006
PCB_52	-.0000000166	-.0000082055	-.0000000294	-.0000143229	0.0000000055
PCB_54	-.0000000007	-.0000001654	-.0000000005	-.0000002925	0.0000000003
PCB_55	0.0000000000	0.0000000031	0.0000000000	0.0000000085	-.0000000000
PCB_56	0.0000000016	0.0000001546	0.0000000002	0.0000002501	0.0000000013
PCB_57	-.0000000006	-.0000001119	-.0000000003	-.0000001547	0.0000000015
PCB_58	-.0000000002	-.0000000700	-.0000000002	-.0000001166	0.0000000008
PCB_60	0.0000000017	0.0000001456	0.0000000001	0.0000003637	0.0000000006
PCB_63	-.0000000007	-.0000001064	-.0000000002	-.0000002086	0.0000000024

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_1	0.0000000001	0.0000000001	0.0000000022	-.0000000001	0.0000000301
PCB_2	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000012
PCB_3	-.0000000000	-.0000000000	-.0000000001	0.0000000000	0.0000000004
PCB_4	0.0000000037	0.0000000033	0.0000000258	-.0000000031	-.0000004512
PCB_5	-.0000000000	-.0000000000	0.0000000000	0.0000000000	0.0000000021
PCB_6	0.0000000003	0.0000000004	0.0000000036	-.0000000003	-.0000000604
PCB_7	0.0000000000	0.0000000000	0.0000000004	-.0000000000	-.0000000035
PCB_8	-.0000000006	0.0000000002	0.0000000103	-.0000000010	0.0000001830
PCB_9	0.0000000000	0.0000000001	0.0000000008	-.0000000001	-.0000000082
PCB_10	0.0000000005	0.0000000004	0.0000000026	-.0000000003	-.0000000643
PCB_11	-.0000000008	-.0000000006	-.0000000026	0.0000000009	-.0000001116
PCB_14	0.0000000004	0.0000000002	0.0000000009	0.0000000000	-.0000000310
PCB_15	-.0000000000	-.0000000001	0.0000000005	0.0000000000	-.0000000044
PCB_16	0.0000000009	0.0000000009	0.0000000048	-.0000000002	-.0000004230
PCB_17	0.0000000136	0.0000000156	0.0000000223	-.0000000078	-.0000034886
PCB_19	0.0000000048	0.0000000070	0.0000000156	-.0000000047	-.0000013549
PCB_22	0.0000000014	0.0000000004	0.0000000082	0.0000000001	-.0000004648
PCB_23	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000064
PCB_24	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000012
PCB_25	0.0000000036	0.0000000031	0.0000000058	-.0000000011	-.0000007670
PCB_27	0.0000000233	0.0000000232	0.0000000091	-.0000000102	-.0000052465
PCB_31	0.0000000032	0.0000000028	0.0000000090	-.0000000003	-.0000012918
PCB_32	0.0000000099	0.0000000097	0.0000000173	-.0000000042	-.0000027598
PCB_34	0.0000000002	0.0000000002	0.0000000004	-.0000000001	-.0000000494
PCB_35	-.0000000000	-.0000000000	-.0000000001	0.0000000000	0.0000000001
PCB_37	0.0000000001	-.0000000002	0.0000000021	0.0000000002	-.0000000555
PCB_38	0.0000000001	0.0000000001	0.0000000000	0.0000000000	-.0000000192
PCB_39	-.0000000000	-.0000000000	0.0000000001	0.0000000000	-.0000000028
PCB_42	0.0000000209	0.0000000154	0.0000000334	-.0000000020	-.0000042623
PCB_43	0.0000000052	0.0000000034	0.0000000158	0.0000000001	-.0000002982
PCB_46	0.0000000056	0.0000000054	-.0000000078	-.0000000010	-.0000018846
PCB_48	-.0000000000	0.0000000000	-.0000000012	0.0000000008	-.0000004543
PCB_52	0.0000000320	0.0000000344	-.0000002137	-.0000000144	-.0000164704
PCB_54	0.0000000008	0.0000000012	-.0000000009	-.0000000006	-.0000002744
PCB_55	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000012
PCB_56	-.0000000003	-.0000000002	0.0000000055	0.0000000015	-.0000001836
PCB_57	0.0000000023	0.0000000013	0.0000000051	-.0000000004	-.0000002339
PCB_58	0.0000000011	0.0000000007	0.0000000015	-.0000000002	-.0000001739
PCB_60	-.0000000010	-.0000000011	0.0000000049	0.0000000014	-.0000001022
PCB_63	0.0000000028	0.0000000019	0.0000000101	-.0000000006	-.0000002929

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_1	-.0000000007	-.0000000001	-.0000000006	0.0000000031	-.0000000006
PCB_2	0.0000000009	0.0000000000	0.0000000007	0.0000000031	-.0000000000
PCB_3	0.0000000008	0.0000000000	0.0000000007	0.0000000034	-.0000000000
PCB_4	-.0000000436	-.0000000034	-.0000000625	-.0000005563	-.0000000047
PCB_5	0.0000000008	0.0000000000	0.0000000007	0.0000000037	-.0000000001
PCB_6	-.0000000034	-.0000000004	-.0000000072	-.0000000671	-.0000000009
PCB_7	-.0000000003	-.0000000000	-.0000000007	-.0000000062	-.0000000001
PCB_8	-.0000000073	-.0000000010	-.0000000094	-.0000000060	-.0000000046
PCB_9	-.0000000008	-.0000000001	-.0000000017	-.0000000128	-.0000000002
PCB_10	-.0000000051	-.0000000004	-.0000000071	-.0000000687	-.0000000004
PCB_11	0.0000000188	0.0000000010	0.0000000121	0.0000000216	0.0000000002
PCB_14	-.0000000003	0.0000000000	-.0000000011	-.0000000177	0.0000000000
PCB_15	0.0000000013	0.0000000000	0.0000000016	-.0000000030	-.0000000004
PCB_16	0.0000000023	-.0000000002	-.0000000119	-.0000002577	-.0000000016
PCB_17	-.0000001666	-.0000000087	-.0000002854	-.0000025870	0.0000000168
PCB_19	-.0000000862	-.0000000051	-.0000001372	-.0000011457	0.0000000026
PCB_22	0.0000000138	0.0000000002	-.0000000007	-.0000002449	-.0000000024
PCB_23	0.0000000007	0.0000000000	0.0000000005	-.0000000006	-.0000000000
PCB_24	0.0000000009	0.0000000000	0.0000000007	0.0000000031	-.0000000000
PCB_25	-.0000000229	-.0000000013	-.0000000430	-.0000005206	0.0000000012
PCB_27	-.0000002498	-.0000000119	-.0000003785	-.0000037546	0.0000000243
PCB_31	0.0000000123	-.0000000004	-.0000000163	-.0000007370	-.0000000099
PCB_32	-.0000000843	-.0000000048	-.0000001747	-.0000018602	0.0000000119
PCB_34	-.0000000021	-.0000000001	-.0000000040	-.0000000354	0.0000000003
PCB_35	0.0000000008	0.0000000000	0.0000000006	0.0000000037	-.0000000000
PCB_37	0.0000000070	0.0000000002	0.0000000052	-.0000000166	-.0000000008
PCB_38	-.0000000001	0.0000000000	-.0000000009	-.0000000095	0.0000000002
PCB_39	0.0000000005	0.0000000000	0.0000000003	0.0000000001	-.0000000000
PCB_42	-.0000000659	-.0000000029	-.0000001938	-.0000025864	0.0000000170
PCB_43	-.0000000054	-.0000000002	-.0000000171	-.0000001966	-.0000000034
PCB_46	-.0000000357	-.0000000013	-.0000000803	-.0000011094	0.0000000087
PCB_48	0.0000000211	0.0000000009	0.0000000077	-.0000001779	-.0000000015
PCB_52	-.0000004118	-.0000000166	-.0000005660	-.0000100078	0.0000000634
PCB_54	-.0000000142	-.0000000007	-.0000000219	-.0000001992	0.0000000014
PCB_55	0.0000000009	0.0000000000	0.0000000007	0.0000000031	-.0000000000
PCB_56	0.0000000394	0.0000000016	0.0000000280	0.0000000156	-.0000000078
PCB_57	-.0000000134	-.0000000006	-.0000000226	-.0000001709	0.0000000043
PCB_58	-.0000000052	-.0000000002	-.0000000101	-.0000001112	0.0000000012
PCB_60	0.0000000392	0.0000000017	0.0000000268	0.0000000632	-.0000000032
PCB_63	-.0000000129	-.0000000007	-.0000000277	-.0000002261	0.0000000019

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_1	0.0000000125	-.0000000001	-.0000000062	-.0000000023	-.0000000410
PCB_2	-.0000000007	0.0000000001	0.0000000118	0.0000000041	0.0000000199
PCB_3	-.0000000000	0.0000000000	0.0000000115	0.0000000039	0.0000000179
PCB_4	-.0000002666	-.0000000030	-.0000012484	-.0000003528	-.0000013103
PCB_5	0.0000000008	0.0000000000	0.0000000116	0.0000000039	0.0000000164
PCB_6	-.0000000386	-.0000000003	-.0000001361	-.0000000373	-.0000001247
PCB_7	-.0000000025	-.0000000000	-.0000000126	-.0000000038	-.0000000144
PCB_8	0.0000000871	-.0000000011	-.0000000574	-.0000000417	-.0000003183
PCB_9	-.0000000059	-.0000000001	-.0000000262	-.0000000081	-.0000000291
PCB_10	-.0000000370	-.0000000003	-.0000001532	-.0000000422	-.0000001479
PCB_11	-.0000000612	0.0000000012	0.0000001962	0.0000000771	0.0000004411
PCB_14	-.0000000181	-.0000000000	-.0000000343	-.0000000031	-.0000000072
PCB_15	-.0000000034	0.0000000000	-.0000000020	0.0000000008	0.0000000105
PCB_16	-.0000002317	0.0000000001	-.0000003923	-.0000000778	-.0000000410
PCB_17	-.0000018217	-.0000000059	-.0000050670	-.0000013479	-.0000036642
PCB_19	-.0000007406	-.0000000037	-.0000023996	-.0000006762	-.0000020221
PCB_22	-.0000002783	0.0000000007	-.0000003509	-.0000000441	0.0000001468
PCB_23	-.0000000034	0.0000000000	0.0000000045	0.0000000022	0.0000000154
PCB_24	-.0000000007	0.0000000001	0.0000000119	0.0000000041	0.0000000200
PCB_25	-.0000004090	-.0000000009	-.0000009974	-.0000002327	-.0000005436
PCB_27	-.0000026933	-.0000000092	-.0000075895	-.0000019615	-.0000052599
PCB_31	-.0000007608	0.0000000004	-.0000012830	-.0000002274	0.0000000105
PCB_32	-.0000014765	-.0000000022	-.0000034704	-.0000008643	-.0000019445
PCB_34	-.0000000264	-.0000000001	-.0000000688	-.0000000176	-.0000000468
PCB_35	-.0000000005	0.0000000001	0.0000000119	0.0000000040	0.0000000189
PCB_37	-.0000000345	0.0000000003	0.0000000119	0.0000000162	0.0000001085
PCB_38	-.0000000100	0.0000000000	-.0000000138	-.0000000020	0.0000000010
PCB_39	-.0000000020	0.0000000000	0.0000000042	0.0000000019	0.0000000105
PCB_42	-.0000022192	-.0000000007	-.0000043777	-.0000008866	-.0000014890
PCB_43	-.0000002195	-.0000000004	-.0000004665	-.0000000396	-.0000001492
PCB_46	-.0000009456	-.0000000004	-.0000019043	-.0000004357	-.0000006433
PCB_48	-.0000002424	0.0000000012	-.0000001190	0.0000000173	0.0000004282
PCB_52	-.0000076319	-.0000000141	-.0000179320	-.0000045713	-.0000079079
PCB_54	-.0000001373	-.0000000005	-.0000003948	-.0000001087	-.0000002865
PCB_55	-.0000000007	0.0000000001	0.0000000119	0.0000000041	0.0000000200
PCB_56	-.0000001643	0.0000000018	0.0000002060	0.0000001359	0.0000007741
PCB_57	-.0000001151	-.0000000003	-.0000003309	-.0000000811	-.0000002844
PCB_58	-.0000000922	-.0000000001	-.0000002118	-.0000000467	-.0000001106
PCB_60	-.0000000843	0.0000000020	0.0000003768	0.0000001551	0.0000007741
PCB_63	-.0000001661	-.0000000004	-.0000004366	-.0000000957	-.0000003212

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_1	-.0000000016	-.0000000050	-.0000000260	-.0000000155	-.0000000209
PCB_2	0.0000000010	0.0000000029	0.0000000142	0.0000000072	0.0000000099
PCB_3	0.0000000009	0.0000000026	0.0000000129	0.0000000064	0.0000000088
PCB_4	-.0000000675	-.0000001753	-.0000009182	-.0000004538	-.0000005741
PCB_5	0.0000000009	0.0000000024	0.0000000120	0.0000000057	0.0000000079
PCB_6	-.0000000062	-.0000000157	-.0000000857	-.0000000431	-.0000000515
PCB_7	-.0000000007	-.0000000018	-.0000000096	-.0000000052	-.0000000064
PCB_8	-.0000000131	-.0000000445	-.0000002000	-.0000001297	-.0000001737
PCB_9	-.0000000014	-.0000000038	-.0000000196	-.0000000106	-.0000000129
PCB_10	-.0000000078	-.0000000198	-.0000001049	-.0000000506	-.0000000635
PCB_11	0.0000000223	0.0000000653	0.0000003135	0.0000001640	0.0000002280
PCB_14	-.0000000006	-.0000000002	-.0000000059	0.0000000011	0.0000000025
PCB_15	0.0000000006	0.0000000019	0.0000000078	0.0000000032	0.0000000056
PCB_16	-.0000000044	0.0000000002	-.0000000318	0.0000000023	0.0000000294
PCB_17	-.0000002121	-.0000005035	-.0000026801	-.0000011489	-.0000014023
PCB_19	-.0000001121	-.0000002793	-.0000014618	-.0000006780	-.0000008373
PCB_22	0.0000000057	0.0000000341	0.0000000956	0.0000000741	0.0000001372
PCB_23	0.0000000008	0.0000000023	0.0000000108	0.0000000058	0.0000000082
PCB_24	0.0000000010	0.0000000029	0.0000000143	0.0000000073	0.0000000099
PCB_25	-.0000000337	-.0000000709	-.0000004065	-.0000001551	-.0000001742
PCB_27	-.0000003157	-.0000007389	-.0000039121	-.0000016317	-.0000020065
PCB_31	-.0000000092	0.0000000214	-.0000000325	0.0000000459	0.0000001625
PCB_32	-.0000001178	-.0000002502	-.0000014535	-.0000005637	-.0000006288
PCB_34	-.0000000027	-.0000000062	-.0000000344	-.0000000141	-.0000000168
PCB_35	0.0000000010	0.0000000028	0.0000000134	0.0000000068	0.0000000094
PCB_37	0.0000000056	0.0000000184	0.0000000781	0.0000000423	0.0000000625
PCB_38	-.0000000001	0.0000000004	0.0000000002	0.0000000019	0.0000000031
PCB_39	0.0000000006	0.0000000017	0.0000000076	0.0000000040	0.0000000057
PCB_42	-.0000001054	-.0000001665	-.0000011440	-.0000002593	-.0000001943
PCB_43	-.0000000088	-.0000000074	-.0000001126	-.0000000141	0.0000000057
PCB_46	-.0000000498	-.0000000879	-.0000005174	-.0000001389	-.0000001227
PCB_48	0.0000000188	0.0000000663	0.0000002977	0.0000001718	0.0000002575
PCB_52	-.0000005964	-.0000012543	-.0000062909	-.0000022597	-.0000026222
PCB_54	-.0000000172	-.0000000417	-.0000002117	-.0000000921	-.0000001143
PCB_55	0.0000000010	0.0000000029	0.0000000143	0.0000000073	0.0000000099
PCB_56	0.0000000398	0.0000001227	0.0000005518	0.0000002835	0.0000004200
PCB_57	-.0000000155	-.0000000361	-.0000002067	-.0000000773	-.0000001029
PCB_58	-.0000000069	-.0000000137	-.0000000843	-.0000000276	-.0000000311
PCB_60	0.0000000414	0.0000001210	0.0000005615	0.0000002851	0.0000004036
PCB_63	-.0000000170	-.0000000379	-.0000002278	-.0000000875	-.0000001059

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_1	0.0000000006	-.0000000004	-.0000000001	-.0000000001	-.0000001272
PCB_2	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000751
PCB_3	0.0000000001	0.0000000000	0.0000000000	0.0000000000	0.0000000679
PCB_4	-.0000000145	-.0000000136	-.0000000024	-.0000000030	-.0000044727
PCB_5	0.0000000001	-.0000000000	0.0000000000	0.0000000000	0.0000000622
PCB_6	-.0000000018	-.0000000021	-.0000000003	-.0000000003	-.0000004084
PCB_7	-.0000000001	-.0000000002	-.0000000000	-.0000000000	-.0000000473
PCB_8	0.0000000046	-.0000000037	-.0000000005	-.0000000007	-.0000011499
PCB_9	-.0000000002	-.0000000005	-.0000000001	-.0000000001	-.0000001002
PCB_10	-.0000000020	-.0000000015	-.0000000003	-.0000000003	-.0000005055
PCB_11	-.0000000011	-.0000000005	0.0000000007	0.0000000009	0.0000016798
PCB_14	-.0000000009	-.0000000002	-.0000000000	-.0000000000	-.0000000010
PCB_15	-.0000000001	-.0000000002	0.0000000000	0.0000000000	0.0000000560
PCB_16	-.0000000100	-.0000000060	-.0000000003	-.0000000002	0.0000000392
PCB_17	-.0000000905	-.0000000424	-.0000000073	-.0000000080	-.0000129241
PCB_19	-.0000000376	-.0000000214	-.0000000040	-.0000000045	-.0000073191
PCB_22	-.0000000122	-.0000000063	-.0000000001	0.0000000000	0.0000008841
PCB_23	-.0000000001	-.0000000000	0.0000000000	0.0000000000	0.0000000602
PCB_24	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000754
PCB_25	-.0000000203	-.0000000081	-.0000000011	-.0000000012	-.0000017854
PCB_27	-.0000001396	-.0000000493	-.0000000102	-.0000000111	-.0000187999
PCB_31	-.0000000354	-.0000000150	-.0000000008	-.0000000005	0.0000004455
PCB_32	-.0000000717	-.0000000314	-.0000000043	-.0000000046	-.0000064147
PCB_34	-.0000000013	-.0000000006	-.0000000001	-.0000000001	-.0000001600
PCB_35	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000696
PCB_37	-.0000000012	-.0000000009	0.0000000001	0.0000000002	0.0000004931
PCB_38	-.0000000004	-.0000000001	-.0000000000	0.0000000000	0.0000000110
PCB_39	-.0000000000	-.0000000001	0.0000000000	0.0000000000	0.0000000434
PCB_42	-.0000001047	-.0000000403	-.0000000034	-.0000000033	-.0000037381
PCB_43	-.0000000111	-.0000000035	-.0000000003	-.0000000002	-.0000003107
PCB_46	-.0000000454	-.0000000141	-.0000000016	-.0000000014	-.0000020660
PCB_48	-.0000000094	-.0000000042	0.0000000005	0.0000000007	0.0000017550
PCB_52	-.0000003903	-.0000000916	-.0000000170	-.0000000171	-.0000285981
PCB_54	-.0000000069	-.0000000027	-.0000000006	-.0000000006	-.0000010708
PCB_55	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000754
PCB_56	-.0000000047	-.0000000035	0.0000000010	0.0000000014	0.0000029961
PCB_57	-.0000000061	-.0000000021	-.0000000005	-.0000000006	-.0000008637
PCB_58	-.0000000047	-.0000000014	-.0000000002	-.0000000002	-.0000003385
PCB_60	-.0000000005	-.0000000027	0.0000000011	0.0000000014	0.0000030940
PCB_63	-.0000000080	-.0000000045	-.0000000006	-.0000000007	-.0000009594

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_1	-.0000000001	0.0000000006	-.0000000011	0.0000000002	-.0000000304
PCB_2	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000019
PCB_3	0.0000000000	0.0000000003	0.0000000021	0.0000000007	-.0000000030
PCB_4	-.0000000032	-.0000000328	-.0000001885	-.0000000730	0.0000005279
PCB_5	0.0000000000	0.0000000003	0.0000000021	0.0000000007	-.0000000045
PCB_6	-.0000000003	-.0000000036	-.0000000198	-.0000000080	0.0000000725
PCB_7	-.0000000000	-.0000000003	-.0000000018	-.0000000008	0.0000000073
PCB_8	-.0000000008	0.0000000029	-.0000000121	-.0000000052	-.0000000297
PCB_9	-.0000000001	-.0000000006	-.0000000040	-.0000000017	0.0000000163
PCB_10	-.0000000004	-.0000000042	-.0000000231	-.0000000089	0.0000000687
PCB_11	0.0000000009	0.0000000030	0.0000000407	0.0000000117	0.0000000274
PCB_14	-.0000000000	-.0000000014	-.0000000036	-.0000000008	-.0000000144
PCB_15	0.0000000000	0.0000000002	0.0000000006	-.0000000001	0.0000000072
PCB_16	-.0000000003	-.0000000147	-.0000000445	-.0000000224	0.0000003222
PCB_17	-.0000000090	-.0000001771	-.0000007459	-.0000003076	0.0000031549
PCB_19	-.0000000051	-.0000000778	-.0000003710	-.0000001484	0.0000014866
PCB_22	0.0000000000	-.0000000126	-.0000000343	-.0000000168	0.0000002965
PCB_23	0.0000000000	0.0000000000	0.0000000011	0.0000000003	0.0000000036
PCB_24	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000018
PCB_25	-.0000000014	-.0000000360	-.0000001373	-.0000000554	0.0000005310
PCB_27	-.0000000126	-.0000002714	-.0000011145	-.0000004477	0.0000043140
PCB_31	-.0000000008	-.0000000484	-.0000001581	-.0000000652	0.0000008785
PCB_32	-.0000000052	-.0000001235	-.0000004927	-.0000002070	0.0000023578
PCB_34	-.0000000001	-.0000000024	-.0000000100	-.0000000040	0.0000000399
PCB_35	0.0000000000	0.0000000003	0.0000000020	0.0000000007	-.0000000027
PCB_37	0.0000000002	0.0000000003	0.0000000076	0.0000000018	0.0000000106
PCB_38	0.0000000000	-.0000000007	-.0000000015	-.0000000006	0.0000000063
PCB_39	0.0000000000	0.0000000001	0.0000000010	0.0000000003	0.0000000000
PCB_42	-.0000000038	-.0000001724	-.0000005371	-.0000002314	0.0000022856
PCB_43	-.0000000003	-.0000000183	-.0000000568	-.0000000076	-.0000003268
PCB_46	-.0000000017	-.0000000772	-.0000002497	-.0000001132	0.0000014134
PCB_48	0.0000000008	-.0000000092	0.0000000056	-.0000000058	0.0000002751
PCB_52	-.0000000206	-.0000007025	-.0000024248	-.0000011595	0.0000153288
PCB_54	-.0000000007	-.0000000144	-.0000000593	-.0000000248	0.0000002680
PCB_55	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000018
PCB_56	0.0000000015	0.0000000023	0.0000000524	0.0000000223	-.0000001294
PCB_57	-.0000000006	-.0000000112	-.0000000460	-.0000000180	0.0000001087
PCB_58	-.0000000003	-.0000000078	-.0000000288	-.0000000112	0.0000000949
PCB_60	0.0000000016	0.0000000093	0.0000000793	0.0000000261	-.0000000818
PCB_63	-.0000000007	-.0000000148	-.0000000588	-.0000000212	0.0000000912

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_1	-.0000000055	-.0000000038	-.0000000060	-.0000000039	-.0000000056
PCB_2	0.0000000033	0.0000000023	0.0000000035	0.0000000017	0.0000000024
PCB_3	0.0000000030	0.0000000021	0.0000000032	0.0000000016	0.0000000022
PCB_4	-.0000002374	-.0000001527	-.0000002362	-.0000001116	-.0000001649
PCB_5	0.0000000027	0.0000000019	0.0000000029	0.0000000014	0.0000000019
PCB_6	-.0000000229	-.0000000141	-.0000000227	-.0000000106	-.0000000164
PCB_7	-.0000000025	-.0000000016	-.0000000026	-.0000000013	-.0000000019
PCB_8	-.0000000477	-.0000000335	-.0000000536	-.0000000316	-.0000000450
PCB_9	-.0000000051	-.0000000032	-.0000000053	-.0000000026	-.0000000039
PCB_10	-.0000000275	-.0000000176	-.0000000271	-.0000000125	-.0000000185
PCB_11	0.0000000691	0.0000000511	0.0000000758	0.0000000396	0.0000000546
PCB_14	-.0000000032	-.0000000012	-.0000000013	0.0000000000	-.0000000001
PCB_15	0.0000000013	0.0000000012	0.0000000015	0.0000000007	0.0000000008
PCB_16	-.0000000284	-.0000000090	-.0000000167	-.0000000003	-.0000000048
PCB_17	-.0000007542	-.0000004640	-.0000007082	-.0000002820	-.0000004216
PCB_19	-.0000003915	-.0000002490	-.0000003866	-.0000001648	-.0000002456
PCB_22	0.0000000063	0.0000000162	0.0000000189	0.0000000169	0.0000000162
PCB_23	0.0000000023	0.0000000018	0.0000000026	0.0000000014	0.0000000019
PCB_24	0.0000000033	0.0000000023	0.0000000035	0.0000000018	0.0000000025
PCB_25	-.0000001293	-.0000000736	-.0000001114	-.0000000392	-.0000000602
PCB_27	-.0000011305	-.0000006941	-.0000010419	-.0000004018	-.0000005911
PCB_31	-.0000000769	-.0000000194	-.0000000419	0.0000000089	-.0000000025
PCB_32	-.0000004274	-.0000002489	-.0000003863	-.0000001394	-.0000002207
PCB_34	-.0000000096	-.0000000058	-.0000000089	-.0000000035	-.0000000053
PCB_35	0.0000000032	0.0000000023	0.0000000033	0.0000000017	0.0000000023
PCB_37	0.0000000158	0.0000000132	0.0000000191	0.0000000099	0.0000000128
PCB_38	-.0000000006	-.0000000000	0.0000000001	0.0000000004	0.0000000005
PCB_39	0.0000000018	0.0000000013	0.0000000019	0.0000000010	0.0000000013
PCB_42	-.0000004490	-.0000002185	-.0000003174	-.0000000746	-.0000001287
PCB_43	-.0000000525	-.0000000219	-.0000000299	-.0000000066	-.0000000119
PCB_46	-.0000002007	-.0000001047	-.0000001553	-.0000000360	-.0000000586
PCB_48	0.0000000455	0.0000000435	0.0000000630	0.0000000408	0.0000000538
PCB_52	-.0000022637	-.0000013005	-.0000019068	-.0000005564	-.0000008039
PCB_54	-.0000000613	-.0000000382	-.0000000578	-.0000000224	-.0000000327
PCB_55	0.0000000033	0.0000000023	0.0000000035	0.0000000018	0.0000000025
PCB_56	0.0000001084	0.0000000875	0.0000001249	0.0000000675	0.0000000896
PCB_57	-.0000000494	-.0000000313	-.0000000445	-.0000000196	-.0000000289
PCB_58	-.0000000254	-.0000000144	-.0000000210	-.0000000071	-.0000000111
PCB_60	0.0000001254	0.0000000940	0.0000001371	0.0000000683	0.0000000919
PCB_63	-.0000000625	-.0000000364	-.0000000538	-.0000000226	-.0000000347

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_1	-.0000000115	-.0000000001	-.0000000006	-.0000000075	-.0000000009
PCB_2	0.0000000068	0.0000000000	0.0000000004	0.0000000031	0.0000000004
PCB_3	0.0000000062	0.0000000000	0.0000000003	0.0000000027	0.0000000003
PCB_4	-.0000004509	-.0000000032	-.0000000217	-.0000002081	-.0000000259
PCB_5	0.0000000057	0.0000000000	0.0000000003	0.0000000024	0.0000000003
PCB_6	-.0000000434	-.0000000003	-.0000000019	-.0000000206	-.0000000026
PCB_7	-.0000000049	-.0000000000	-.0000000002	-.0000000024	-.0000000003
PCB_8	-.0000001040	-.0000000009	-.0000000052	-.0000000552	-.0000000069
PCB_9	-.0000000102	-.0000000001	-.0000000005	-.0000000049	-.0000000006
PCB_10	-.0000000515	-.0000000004	-.0000000025	-.0000000233	-.0000000029
PCB_11	0.0000001484	0.0000000010	0.0000000080	0.0000000684	0.0000000082
PCB_14	-.0000000019	0.0000000000	-.0000000001	-.0000000012	-.0000000001
PCB_15	0.0000000038	0.0000000000	0.0000000002	0.0000000011	0.0000000001
PCB_16	-.0000000247	-.0000000002	-.0000000002	-.0000000067	-.0000000011
PCB_17	-.0000013568	-.0000000084	-.0000000633	-.0000005296	-.0000000656
PCB_19	-.0000007462	-.0000000048	-.0000000348	-.0000003056	-.0000000378
PCB_22	0.0000000452	0.0000000002	0.0000000038	0.0000000179	0.0000000018
PCB_23	0.0000000051	0.0000000000	0.0000000003	0.0000000024	0.0000000003
PCB_24	0.0000000069	0.0000000000	0.0000000004	0.0000000031	0.0000000004
PCB_25	-.0000002061	-.0000000012	-.0000000095	-.0000000792	-.0000000099
PCB_27	-.0000019751	-.0000000115	-.0000000947	-.0000007502	-.0000000923
PCB_31	-.0000000534	-.0000000002	0.0000000006	-.0000000100	-.0000000019
PCB_32	-.0000007331	-.0000000045	-.0000000318	-.0000002791	-.0000000349
PCB_34	-.0000000171	-.0000000001	-.0000000008	-.0000000068	-.0000000008
PCB_35	0.0000000064	0.0000000000	0.0000000003	0.0000000028	0.0000000003
PCB_37	0.0000000393	0.0000000002	0.0000000022	0.0000000154	0.0000000018
PCB_38	0.0000000003	0.0000000000	0.0000000000	0.0000000004	0.0000000001
PCB_39	0.0000000037	0.0000000000	0.0000000002	0.0000000016	0.0000000002
PCB_42	-.0000005620	-.0000000028	-.0000000242	-.0000001906	-.0000000242
PCB_43	-.0000000513	-.0000000002	-.0000000030	-.0000000327	-.0000000037
PCB_46	-.0000002786	-.0000000012	-.0000000119	-.0000000746	-.0000000096
PCB_48	0.0000001325	0.0000000010	0.0000000078	0.0000000669	0.0000000078
PCB_52	-.0000033920	-.0000000160	-.0000001579	-.0000009177	-.0000001181
PCB_54	-.0000001104	-.0000000006	-.0000000052	-.0000000403	-.0000000050
PCB_55	0.0000000069	0.0000000000	0.0000000004	0.0000000031	0.0000000004
PCB_56	0.0000002505	0.0000000017	0.0000000139	0.0000001049	0.0000000126
PCB_57	-.0000000874	-.0000000006	-.0000000044	-.0000000386	-.0000000047
PCB_58	-.0000000395	-.0000000002	-.0000000018	-.0000000154	-.0000000019
PCB_60	0.0000002700	0.0000000017	0.0000000147	0.0000001125	0.0000000135
PCB_63	-.0000001038	-.0000000007	-.0000000050	-.0000000486	-.0000000059

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_1	-.0000000032	-.0000000053	-.0000000002	0.0000000108	-.0000000314
PCB_2	0.0000000012	0.0000000019	-.0000000000	-.0000000012	-.0000000165
PCB_3	0.0000000011	0.0000000017	-.0000000000	-.0000000007	-.0000000157
PCB_4	-.0000000822	-.0000001262	0.0000000081	-.0000000941	-.0000019220
PCB_5	0.0000000009	0.0000000015	-.0000000000	0.0000000002	-.0000000186
PCB_6	-.0000000082	-.0000000124	0.0000000012	-.0000000141	-.0000004081
PCB_7	-.0000000010	-.0000000015	0.0000000001	-.0000000003	-.0000000520
PCB_8	-.0000000230	-.0000000372	-.0000000002	0.0000000939	-.0000007671
PCB_9	-.0000000019	-.0000000030	0.0000000003	-.0000000007	-.0000001045
PCB_10	-.0000000091	-.0000000139	0.0000000010	-.0000000156	-.0000002076
PCB_11	0.0000000274	0.0000000439	0.0000000008	-.0000000543	-.0000005500
PCB_14	-.0000000003	-.0000000004	0.0000000001	-.0000000122	0.0000001028
PCB_15	0.0000000004	0.0000000006	0.0000000001	-.0000000027	-.0000001169
PCB_16	-.0000000016	0.0000000005	0.0000000049	-.0000001352	-.0000013173
PCB_17	-.0000001975	-.0000002845	0.0000000416	-.0000009680	-.0000040979
PCB_19	-.0000001168	-.0000001725	0.0000000198	-.0000003389	-.0000029474
PCB_22	0.0000000077	0.0000000151	0.0000000057	-.0000001826	-.0000018451
PCB_23	0.0000000010	0.0000000016	0.0000000001	-.0000000029	-.0000000283
PCB_24	0.0000000012	0.0000000019	-.0000000000	-.0000000012	-.0000000164
PCB_25	-.0000000287	-.0000000400	0.0000000080	-.0000002341	-.0000006603
PCB_27	-.0000002762	-.0000003965	0.0000000559	-.0000014830	-.0000018801
PCB_31	-.0000000002	0.0000000090	0.0000000158	-.0000004381	-.0000037563
PCB_32	-.0000001020	-.0000001403	0.0000000327	-.0000008553	-.0000044538
PCB_34	-.0000000025	-.0000000036	0.0000000006	-.0000000147	-.0000000499
PCB_35	0.0000000011	0.0000000018	-.0000000000	-.0000000008	-.0000000156
PCB_37	0.0000000060	0.0000000097	0.0000000005	-.0000000282	-.0000003654
PCB_38	0.0000000002	0.0000000005	0.0000000001	-.0000000069	0.0000000151
PCB_39	0.0000000006	0.0000000010	0.0000000000	-.0000000017	-.0000000238
PCB_42	-.0000000606	-.0000000695	0.0000000373	-.0000013956	-.0000019041
PCB_43	-.0000000116	-.0000000177	0.0000000016	-.0000001166	0.0000012140
PCB_46	-.0000000221	-.0000000213	0.0000000177	-.0000005835	-.0000012821
PCB_48	0.0000000279	0.0000000471	0.0000000043	-.0000001634	-.0000013598
PCB_52	-.0000002920	-.0000003351	0.0000001467	-.0000047427	-.0000100899
PCB_54	-.0000000148	-.0000000210	0.0000000031	-.0000000703	-.0000002034
PCB_55	0.0000000012	0.0000000019	-.0000000000	-.0000000012	-.0000000164
PCB_56	0.0000000418	0.0000000669	0.0000000026	-.0000000963	-.0000014981
PCB_57	-.0000000147	-.0000000220	0.0000000017	-.0000000831	0.0000003605
PCB_58	-.0000000055	-.0000000076	0.0000000016	-.0000000584	0.0000000188
PCB_60	0.0000000442	0.0000000699	0.0000000011	-.0000000741	-.0000014796
PCB_63	-.0000000185	-.0000000277	0.0000000029	-.0000000969	0.0000000371

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_1	0.0000000230	0.0000001991	0.0000000006	0.0000000000	0.0000000106
PCB_2	-.0000000006	0.0000000217	-.0000000000	0.0000000201	-.0000000008
PCB_3	0.0000000010	0.0000000317	-.0000000000	0.0000000190	-.0000000004
PCB_4	-.0000011865	-.0000057268	0.0000000379	-.0000004099	0.0000000215
PCB_5	0.0000000032	0.0000000445	0.0000000003	0.0000000187	0.0000000001
PCB_6	-.0000001603	-.0000007104	0.0000000071	0.0000000040	0.0000000037
PCB_7	-.0000000130	-.0000000498	0.0000000007	-.0000000008	0.0000000012
PCB_8	0.0000001954	0.0000011432	0.0000000202	-.0000001916	0.0000000706
PCB_9	-.0000000250	-.0000001188	0.0000000020	-.0000000064	0.0000000021
PCB_10	-.0000001560	-.0000007621	0.0000000043	-.0000000426	-.0000000008
PCB_11	-.0000001540	-.0000002598	0.0000000020	0.0000004798	-.0000000312
PCB_14	-.0000000614	-.0000002715	0.0000000003	0.0000000351	-.0000000057
PCB_15	-.0000000271	-.0000000021	0.0000000004	0.0000000470	0.0000000007
PCB_16	-.0000008388	-.0000035496	0.0000000219	0.0000004001	-.0000000541
PCB_17	-.0000061729	-.0000354282	0.0000001251	-.0000018189	-.0000004356
PCB_19	-.0000025427	-.0000149884	0.0000000892	-.0000011290	-.0000001215
PCB_22	-.0000010318	-.0000037153	0.0000000149	0.0000008298	-.0000000570
PCB_23	-.0000000110	-.0000000284	0.0000000000	0.0000000199	-.0000000015
PCB_24	-.0000000005	0.0000000218	-.0000000001	0.0000000199	-.0000000008
PCB_25	-.0000014257	-.0000072874	0.0000000285	0.0000000428	-.0000001093
PCB_27	-.0000091346	-.0000524981	0.0000001758	-.0000027201	-.0000007716
PCB_31	-.0000026571	-.0000111166	0.0000001076	0.0000015258	-.0000001885
PCB_32	-.0000050499	-.0000266216	0.0000000706	-.0000001525	-.0000003628
PCB_34	-.0000000885	-.0000004989	0.0000000013	-.0000000176	-.0000000062
PCB_35	0.0000000020	0.0000000243	0.0000000002	0.0000000175	-.0000000005
PCB_37	-.0000001503	-.0000002514	-.0000000007	0.0000002525	-.0000000065
PCB_38	-.0000000305	-.0000001617	-.0000000002	0.0000000088	-.0000000036
PCB_39	-.0000000063	-.0000000088	-.0000000000	0.0000000161	-.0000000004
PCB_42	-.0000076649	-.0000374751	0.0000000557	0.0000015978	-.0000006701
PCB_43	-.0000006714	-.0000030716	0.0000000417	0.0000004904	-.0000000443
PCB_46	-.0000031698	-.0000166120	0.0000000406	0.0000001703	-.0000003275
PCB_48	-.0000008240	-.0000030376	0.0000000198	0.0000008041	-.0000000845
PCB_52	-.0000272239	-.0001431584	0.0000002769	-.0000030657	-.0000030944
PCB_54	-.0000004491	-.0000027721	0.0000000130	-.0000002130	-.0000000403
PCB_55	-.0000000005	0.0000000218	-.0000000001	0.0000000199	-.0000000008
PCB_56	-.0000004668	-.0000006624	0.0000000571	0.0000013149	-.0000000343
PCB_57	-.0000004207	-.0000023553	-.0000000221	-.0000001395	-.0000000291
PCB_58	-.0000003151	-.0000016417	0.0000000001	0.0000000097	-.0000000267
PCB_60	-.0000002698	0.0000003166	0.0000000100	0.0000011179	-.0000000169
PCB_63	-.0000005830	-.0000030013	0.0000000004	0.0000000101	-.0000000272

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_1	-.0000000446	0.0000000888	0.0000000718	-.0000000071	0.0000000018
PCB_2	0.0000000478	0.0000000329	-.0000000087	0.0000000054	-.0000000019
PCB_3	0.0000000452	0.0000000368	-.0000000053	0.0000000050	-.0000000021
PCB_4	-.0000039062	-.0000043315	-.0000001532	-.0000004191	0.0000008401
PCB_5	0.0000000439	0.0000000400	-.0000000009	0.0000000048	-.0000000020
PCB_6	-.0000004139	-.0000004933	-.0000000339	-.0000000405	0.0000001197
PCB_7	-.0000000392	-.0000000389	0.0000000032	-.0000000041	0.0000000127
PCB_8	-.0000004283	0.0000002253	0.0000005451	-.0000000543	0.0000000946
PCB_9	-.0000000888	-.0000000938	0.0000000037	-.0000000082	0.0000000254
PCB_10	-.0000004672	-.0000005535	-.0000000433	-.0000000498	0.0000001014
PCB_11	0.0000009033	0.0000003191	-.0000003328	0.0000001095	0.0000000221
PCB_14	-.0000000766	-.0000001558	-.0000000602	-.0000000084	0.0000000069
PCB_15	0.0000000313	0.0000000252	-.0000000040	0.0000000015	0.0000000209
PCB_16	-.0000007777	-.0000020015	-.0000006342	-.0000000712	0.0000004287
PCB_17	-.0000150786	-.0000236187	-.0000044722	-.0000014585	0.0000031112
PCB_19	-.0000075988	-.0000105367	-.0000014632	-.0000007205	0.0000015466
PCB_22	-.0000004357	-.0000016138	-.0000008154	-.0000000274	0.0000004961
PCB_23	0.0000000288	0.0000000024	-.0000000156	0.0000000034	0.0000000037
PCB_24	0.0000000481	0.0000000331	-.0000000087	0.0000000054	-.0000000020
PCB_25	-.0000026673	-.0000046542	-.0000011018	-.0000002659	0.0000006363
PCB_27	-.0000221021	-.0000354660	-.0000070555	-.0000022133	0.0000041944
PCB_31	-.0000026284	-.0000063424	-.0000021385	-.0000002110	0.0000013368
PCB_32	-.0000095540	-.0000163325	-.0000039458	-.0000008952	0.0000024357
PCB_34	-.0000002031	-.0000003195	-.0000000678	-.0000000192	0.0000000413
PCB_35	0.0000000424	0.0000000333	-.0000000073	0.0000000054	-.0000000028
PCB_37	0.0000002149	0.0000000534	-.0000001198	0.0000000207	0.0000000637
PCB_38	-.0000000294	-.0000000859	-.0000000357	-.0000000024	0.0000000065
PCB_39	0.0000000213	0.0000000110	-.0000000083	0.0000000027	0.0000000021
PCB_42	-.0000102988	-.0000220705	-.0000067217	-.0000010443	0.0000028292
PCB_43	-.0000013352	-.0000020340	-.0000006152	-.0000001131	0.0000000922
PCB_46	-.0000046039	-.0000101639	-.0000029292	-.0000004544	0.0000013000
PCB_48	0.0000003417	-.0000012992	-.0000008591	0.0000000496	0.0000003459
PCB_52	-.0000421333	-.0000928495	-.0000236243	-.0000047980	0.0000122360
PCB_54	-.0000011920	-.0000019397	-.0000003488	-.0000001160	0.0000002298
PCB_55	0.0000000481	0.0000000331	-.0000000087	0.0000000054	-.0000000020
PCB_56	0.0000011651	0.0000002523	-.0000005936	0.0000001743	0.0000001924
PCB_57	-.0000009548	-.0000013430	-.0000003353	-.0000001062	0.0000001067
PCB_58	-.0000005618	-.0000009824	-.0000002730	-.0000000562	0.0000001117
PCB_60	0.0000017155	0.0000011279	-.0000004064	0.0000002036	0.0000000872
PCB_63	-.0000012780	-.0000018378	-.0000004105	-.0000001268	0.0000002080

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_1	-.0000000377	-.0000000347	-.0000000036	-.0000000153	0.0000000238
PCB_2	0.0000000439	0.0000000192	0.0000000017	0.0000000082	-.0000000024
PCB_3	0.0000000415	0.0000000173	0.0000000015	0.0000000073	-.0000000023
PCB_4	-.0000037458	-.0000012121	-.0000001067	-.0000005650	0.0000016432
PCB_5	0.0000000400	0.0000000158	0.0000000013	0.0000000067	-.0000000014
PCB_6	-.0000003983	-.0000001085	-.0000000102	-.0000000563	0.0000002519
PCB_7	-.0000000421	-.0000000125	-.0000000012	-.0000000064	0.0000000272
PCB_8	-.0000005599	-.0000002854	-.0000000301	-.0000001344	0.0000002702
PCB_9	-.0000000882	-.0000000249	-.0000000025	-.0000000133	0.0000000557
PCB_10	-.0000004442	-.0000001383	-.0000000119	-.0000000644	0.0000001923
PCB_11	0.0000008458	0.0000004291	0.0000000378	0.0000001770	0.0000000676
PCB_14	-.0000000235	-.0000000087	0.0000000001	-.0000000018	0.0000000106
PCB_15	0.0000000035	0.0000000099	0.0000000007	0.0000000032	0.0000000415
PCB_16	-.0000007735	-.0000000380	-.0000000008	-.0000000387	0.0000007894
PCB_17	-.0000135002	-.0000034810	-.0000002751	-.0000016385	0.0000053496
PCB_19	-.0000069341	-.0000018868	-.0000001607	-.0000009158	0.0000028252
PCB_22	-.0000003977	0.0000001723	0.0000000161	0.0000000364	0.0000010108
PCB_23	0.0000000246	0.0000000149	0.0000000013	0.0000000060	0.0000000070
PCB_24	0.0000000441	0.0000000193	0.0000000017	0.0000000082	-.0000000025
PCB_25	-.0000023104	-.0000005409	-.0000000383	-.0000002509	0.0000010665
PCB_27	-.0000195854	-.0000052364	-.0000003930	-.0000023536	0.0000065592
PCB_31	-.0000022881	-.0000000216	0.0000000060	-.0000000997	0.0000024676
PCB_32	-.0000085127	-.0000017914	-.0000001366	-.0000009026	0.0000043527
PCB_34	-.0000001736	-.0000000432	-.0000000034	-.0000000207	0.0000000741
PCB_35	0.0000000430	0.0000000188	0.0000000016	0.0000000076	-.0000000020
PCB_37	0.0000001744	0.0000001093	0.0000000097	0.0000000435	0.0000001412
PCB_38	-.0000000141	0.0000000010	0.0000000004	0.0000000006	0.0000000101
PCB_39	0.0000000211	0.0000000111	0.0000000009	0.0000000043	0.0000000069
PCB_42	-.0000083492	-.0000015119	-.0000000728	-.0000006668	0.0000046493
PCB_43	-.0000003563	-.0000001529	-.0000000060	-.0000000634	0.0000002628
PCB_46	-.0000041774	-.0000007115	-.0000000372	-.0000003250	0.0000019350
PCB_48	0.0000002466	0.0000003932	0.0000000384	0.0000001528	0.0000006021
PCB_52	-.0000452277	-.0000095174	-.0000005657	-.0000039166	0.0000149924
PCB_54	-.0000010937	-.0000002862	-.0000000221	-.0000001310	0.0000003534
PCB_55	0.0000000441	0.0000000193	0.0000000017	0.0000000082	-.0000000025
PCB_56	0.0000014008	0.0000007541	0.0000000640	0.0000002828	0.0000005460
PCB_57	-.0000007506	-.0000002512	-.0000000181	-.0000001011	0.0000001862
PCB_58	-.0000004437	-.0000001058	-.0000000068	-.0000000469	0.0000001867
PCB_60	0.0000016388	0.0000007805	0.0000000657	0.0000003116	0.0000003340
PCB_63	-.0000009241	-.0000002805	-.0000000212	-.0000001258	0.0000004318

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_1	0.0000000018	-.0000000214	-.0000000497	-.0000000515	-.0000000323
PCB_2	0.0000000003	-.0000000041	-.0000000050	-.0000000380	-.0000000070
PCB_3	0.0000000003	-.0000000051	-.0000000074	-.0000000415	-.0000000087
PCB_4	0.0000001318	0.0000010008	0.0000013741	0.0000057795	0.0000014877
PCB_5	0.0000000004	-.0000000066	-.0000000113	-.0000000453	-.0000000105
PCB_6	0.0000000224	0.0000001326	0.0000001708	0.0000006959	0.0000001965
PCB_7	0.0000000025	0.0000000117	0.0000000119	0.0000000609	0.0000000173
PCB_8	0.0000000238	-.0000000638	-.0000003188	-.0000000465	-.0000000577
PCB_9	0.0000000050	0.0000000258	0.0000000276	0.0000001357	0.0000000401
PCB_10	0.0000000155	0.0000001284	0.0000001841	0.0000007190	0.0000001880
PCB_11	0.0000000179	0.0000000125	0.0000000698	-.0000003412	0.0000000042
PCB_14	-.0000000001	0.0000000198	0.0000000631	0.0000001781	0.0000000294
PCB_15	0.0000000054	0.0000000111	0.0000000032	0.0000000004	0.0000000051
PCB_16	0.0000000777	0.0000005381	0.0000008537	0.0000025388	0.0000007673
PCB_17	0.0000003890	0.0000050527	0.0000085124	0.0000281131	0.0000078315
PCB_19	0.0000002143	0.0000023391	0.0000035854	0.0000127154	0.0000036069
PCB_22	0.0000001074	0.0000006020	0.0000009485	0.0000023764	0.0000007773
PCB_23	0.0000000012	0.0000000040	0.0000000076	0.0000000002	0.0000000043
PCB_24	0.0000000003	-.0000000041	-.0000000050	-.0000000382	-.0000000070
PCB_25	0.0000000838	0.0000009981	0.0000017438	0.0000054916	0.0000014833
PCB_27	0.0000004431	0.0000071991	0.0000125355	0.0000407299	0.0000110058
PCB_31	0.0000002498	0.0000017353	0.0000026542	0.0000076238	0.0000023352
PCB_32	0.0000003537	0.0000038602	0.0000065226	0.0000200142	0.0000057832
PCB_34	0.0000000054	0.0000000694	0.0000001211	0.0000003873	0.0000001074
PCB_35	0.0000000003	-.0000000042	-.0000000056	-.0000000384	-.0000000066
PCB_37	0.0000000185	0.0000000454	0.0000000730	0.0000000620	0.0000000360
PCB_38	0.0000000005	0.0000000164	0.0000000393	0.0000001003	0.0000000263
PCB_39	0.0000000010	0.0000000013	0.0000000029	-.0000000051	0.0000000011
PCB_42	0.0000003643	0.0000046461	0.0000090298	0.0000263925	0.0000069951
PCB_43	0.0000000089	0.0000002203	0.0000006565	0.0000022252	0.0000003384
PCB_46	0.0000001553	0.0000021978	0.0000039907	0.0000115795	0.0000032919
PCB_48	0.0000000719	0.0000004228	0.0000007294	0.0000015802	0.0000005679
PCB_52	0.0000012231	0.0000199163	0.0000342693	0.0001015851	0.0000290070
PCB_54	0.0000000239	0.0000003910	0.0000006539	0.0000021861	0.0000006124
PCB_55	0.0000000003	-.0000000041	-.0000000050	-.0000000382	-.0000000070
PCB_56	0.0000000772	0.0000001021	0.0000001111	-.0000002543	0.0000000525
PCB_57	0.0000000041	0.0000002620	0.0000006075	0.0000017926	0.0000004237
PCB_58	0.0000000127	0.0000002058	0.0000004025	0.0000011834	0.0000003090
PCB_60	0.0000000567	-.0000000399	-.0000000589	-.0000009707	-.0000001246
PCB_63	0.0000000268	0.0000003554	0.0000007303	0.0000023926	0.0000005700

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_1	-.0000001294	-.0000000654	-.0000000228	0.0000000399	0.0000000520
PCB_2	-.0000000497	-.0000000126	-.0000000026	-.0000000076	-.0000000033
PCB_3	-.0000000558	-.0000000153	-.0000000035	-.0000000059	-.0000000014
PCB_4	0.0000074988	0.0000023150	0.0000005950	0.0000008033	-.0000001869
PCB_5	-.0000000671	-.0000000195	-.0000000052	-.0000000014	0.0000000014
PCB_6	0.0000008534	0.0000002796	0.0000000663	0.0000001267	-.0000000326
PCB_7	0.0000000666	0.0000000220	0.0000000038	0.0000000164	-.0000000004
PCB_8	-.0000008130	-.0000002946	-.0000001852	0.0000005185	0.0000002800
PCB_9	0.0000001446	0.0000000498	0.0000000080	0.0000000391	-.0000000026
PCB_10	0.0000009689	0.0000003039	0.0000000832	0.0000000813	-.0000000386
PCB_11	-.0000004108	-.0000000333	0.0000000142	-.0000001700	-.0000001552
PCB_14	0.0000002991	0.0000000741	0.0000000369	-.0000000342	-.0000000093
PCB_15	0.0000000140	0.0000000109	0.0000000055	0.0000000061	-.0000000090
PCB_16	0.0000035773	0.0000012493	0.0000003864	0.0000000834	-.0000003845
PCB_17	0.0000391112	0.0000128224	0.0000036491	0.0000010679	-.0000028732
PCB_19	0.0000170464	0.0000056848	0.0000014996	0.0000012550	-.0000011489
PCB_22	0.0000036484	0.0000012885	0.0000004468	-.0000000316	-.0000004739
PCB_23	0.0000000077	0.0000000069	0.0000000034	-.0000000072	-.0000000089
PCB_24	-.0000000501	-.0000000126	-.0000000026	-.0000000078	-.0000000034
PCB_25	0.0000079994	0.0000025887	0.0000008231	0.0000000484	-.0000006312
PCB_27	0.0000587479	0.0000190717	0.0000057718	0.0000007047	-.0000044528
PCB_31	0.0000113311	0.0000040523	0.0000013554	0.0000005315	-.0000013753
PCB_32	0.0000286186	0.0000095224	0.0000028287	0.0000003064	-.0000024741
PCB_34	0.0000005450	0.0000001760	0.0000000516	0.0000000076	-.0000000393
PCB_35	-.0000000540	-.0000000137	-.0000000034	-.0000000039	-.0000000025
PCB_37	0.0000001667	0.0000000657	0.0000000401	-.0000000595	-.0000000532
PCB_38	0.0000001556	0.0000000476	0.0000000174	-.0000000172	-.0000000139
PCB_39	-.0000000067	-.0000000006	0.0000000005	-.0000000036	-.0000000030
PCB_42	0.0000393539	0.0000124250	0.0000041999	-.0000016269	-.0000032192
PCB_43	0.0000034024	0.0000008162	0.0000004188	0.0000000167	-.0000000041
PCB_46	0.0000172844	0.0000058041	0.0000018532	-.0000004392	-.0000017565
PCB_48	0.0000024588	0.0000009702	0.0000003483	-.0000001565	-.0000004884
PCB_52	0.0001556442	0.0000535373	0.0000168747	-.0000040789	-.0000171310
PCB_54	0.0000030476	0.0000010221	0.0000002875	0.0000001009	-.0000002472
PCB_55	-.0000000501	-.0000000126	-.0000000026	-.0000000078	-.0000000034
PCB_56	-.0000003769	0.0000000520	0.0000001074	0.0000002232	-.0000002341
PCB_57	0.0000027294	0.0000007471	0.0000002503	-.0000002836	-.0000001016
PCB_58	0.0000017932	0.0000005546	0.0000001872	-.0000000726	-.0000001320
PCB_60	-.0000013927	-.0000003288	-.0000000491	-.0000001450	-.0000001250
PCB_63	0.0000033699	0.0000009502	0.0000003118	-.0000000725	-.0000001056

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_1	0.0000000786	0.0000000086	0.0000000813	0.0000000058
PCB_2	-.0000000285	-.0000000030	-.0000000288	-.0000000025
PCB_3	-.0000000241	-.0000000031	-.0000000237	-.0000000024
PCB_4	-.0000004391	0.0000009363	-.0000000450	0.0000003819
PCB_5	-.0000000183	-.0000000034	-.0000000195	-.0000000021
PCB_6	-.0000001676	0.0000001231	-.0000001358	0.0000000473
PCB_7	-.0000000108	0.0000000115	-.0000000067	0.0000000047
PCB_8	0.0000006440	0.0000000150	0.0000005290	0.0000000503
PCB_9	-.0000000217	0.0000000225	-.0000000244	0.0000000099
PCB_10	-.0000000865	0.0000001148	-.0000000286	0.0000000451
PCB_11	-.0000008635	0.0000000046	-.0000008829	-.0000000335
PCB_14	-.0000000492	0.0000000358	-.0000000407	0.0000000109
PCB_15	-.0000000856	0.0000000164	-.0000000371	0.0000000020
PCB_16	-.0000013742	0.0000004578	-.0000011271	0.0000001392
PCB_17	-.0000046015	0.0000036588	-.0000043196	0.0000014283
PCB_19	-.0000017804	0.0000016532	-.0000017235	0.0000006842
PCB_22	-.0000022567	0.0000005692	-.0000017596	0.0000001298
PCB_23	-.0000000415	0.0000000029	-.0000000362	-.0000000007
PCB_24	-.0000000284	-.0000000031	-.0000000289	-.0000000026
PCB_25	-.0000014209	0.0000008122	-.0000011184	0.0000002859
PCB_27	-.0000061113	0.0000052081	-.0000048712	0.0000020222
PCB_31	-.0000050476	0.0000014470	-.0000040115	0.0000004185
PCB_32	-.0000058010	0.0000028819	-.0000050084	0.0000009880
PCB_34	-.0000000757	0.0000000527	-.0000000733	0.0000000196
PCB_35	-.0000000269	-.0000000037	-.0000000323	-.0000000025
PCB_37	-.0000004448	0.0000000762	-.0000003190	0.0000000066
PCB_38	-.0000000359	0.0000000146	-.0000000387	0.0000000042
PCB_39	-.0000000288	0.0000000026	-.0000000280	-.0000000003
PCB_42	-.0000083134	0.0000041022	-.0000069740	0.0000013231
PCB_43	-.0000005981	0.0000004689	-.0000007366	0.0000001680
PCB_46	-.0000035674	0.0000015698	-.0000029282	0.0000005245
PCB_48	-.0000019188	0.0000003490	-.0000016377	0.0000000688
PCB_52	-.0000254379	0.0000126087	-.0000136314	0.0000043702
PCB_54	-.0000002587	0.0000002506	-.0000002543	0.0000001062
PCB_55	-.0000000284	-.0000000031	-.0000000289	-.0000000026
PCB_56	-.0000022051	0.0000002150	-.0000021657	0.0000000144
PCB_57	-.0000000906	0.0000002591	-.0000000510	0.0000000850
PCB_58	-.0000002973	0.0000001768	-.0000002410	0.0000000578
PCB_60	-.0000017194	0.0000000825	-.0000016565	-.0000000436
PCB_63	-.0000003538	0.0000003878	-.0000003891	0.0000001386

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_64	PCB 64	-.0000000064	-.0000000002	-.0000000009
PCB_66	PCB 66	0.0000000399	-.0000000087	-.0000000080
PCB_67	PCB 67	0.0000000001	-.0000000002	-.0000000002
PCB_68	PCB 68	-.0000000019	-.0000000023	-.0000000024
PCB_72	PCB 72	-.0000000072	-.0000000024	-.0000000027
PCB_77	PCB 77	-.0000000009	0.0000000009	0.0000000008
PCB_78	PCB 78	0.0000000007	0.0000000004	0.0000000004
PCB_79	PCB 79	0.0000000012	0.0000000008	0.0000000008
PCB_81	PCB 81	-.0000000008	0.0000000003	0.0000000003
PCB_82	PCB 82	0.0000000222	-.0000000018	-.0000000008
PCB_83	PCB 83	0.0000000025	-.0000000030	-.0000000028
PCB_84	PCB 84	-.0000000133	-.0000000031	-.0000000034
PCB_89	PCB 89	-.0000000007	0.0000000006	0.0000000005
PCB_92	PCB 92	0.0000000160	-.0000000077	-.0000000074
PCB_94	PCB 94	0.0000000012	-.0000000010	-.0000000010
PCB_95	PCB 95	-.0000002058	0.0000000092	0.0000000011
PCB_96	PCB 96	-.0000000029	-.0000000004	-.0000000006
PCB_99	PCB 99	0.0000000564	-.0000000254	-.0000000227
PCB_103	PCB 103	-.0000000014	-.0000000010	-.0000000011
PCB_104	PCB 104	-.0000000002	-.0000000000	-.0000000000
PCB_105	PCB 105	0.0000001153	-.0000000179	-.0000000122
PCB_109	PCB 109	0.0000000232	-.0000000042	-.0000000032
PCB_111	PCB 111	-.0000000003	-.0000000001	-.0000000001
PCB_114	PCB 114	0.0000000131	-.0000000016	-.0000000010
PCB_118	PCB 118	0.0000001598	-.0000000668	-.0000000559
PCB_120	PCB 120	-.0000000011	-.0000000003	-.0000000004
PCB_121	PCB 121	-.0000000001	-.0000000000	-.0000000000
PCB_122	PCB 122	0.0000000015	-.0000000002	-.0000000001
PCB_123	PCB 123	0.0000000208	-.0000000023	-.0000000015
PCB_126	PCB 126	-.0000000019	0.0000000008	0.0000000008
PCB_127	PCB 127	0.0000000001	-.0000000001	-.0000000001
PCB_130	PCB 130	0.0000000136	-.0000000010	-.0000000003
PCB_131	PCB 131	0.0000000041	-.0000000002	-.0000000000
PCB_132	PCB 132	-.0000000903	0.0000000167	0.0000000144
PCB_133	PCB 133	0.0000000005	0.0000000002	0.0000000002
PCB_136	PCB 136	0.0000000005	0.0000000011	0.0000000010
PCB_137	PCB 137	0.0000000347	-.0000000027	-.0000000012
PCB_141	PCB 141	0.0000000081	0.0000000071	0.0000000076
PCB_142	PCB 142	-.0000000001	0.0000000000	0.0000000000
PCB_144	PCB 144	0.0000000138	0.0000000031	0.0000000036

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_64	0.0000011448	-.0000000019	0.0000001623	0.0000000149	-.0000000530
PCB_66	0.0000017370	-.0000000073	0.0000002348	0.0000000236	0.0000002152
PCB_67	0.0000000506	-.0000000002	0.0000000067	0.0000000006	-.0000000001
PCB_68	0.0000002273	-.0000000028	0.0000000237	0.0000000017	-.0000000241
PCB_72	0.0000003047	-.0000000035	0.0000000325	0.0000000021	-.0000000655
PCB_77	-.0000000095	0.0000000007	0.0000000013	0.0000000001	-.0000000097
PCB_78	0.0000000165	0.0000000005	0.0000000044	0.0000000006	0.0000000085
PCB_79	-.0000000406	0.0000000007	-.0000000029	-.0000000002	-.0000000075
PCB_81	-.0000000255	0.0000000002	-.0000000027	-.0000000003	-.0000000074
PCB_82	-.0000001255	0.0000000011	-.0000000170	0.0000000006	0.0000002056
PCB_83	0.0000003944	-.0000000028	0.0000000420	0.0000000035	-.0000000075
PCB_84	0.0000003990	-.0000000031	0.0000000380	0.0000000024	-.0000000277
PCB_89	-.0000000355	0.0000000005	-.0000000034	-.0000000004	-.0000000057
PCB_92	0.0000013089	-.0000000074	0.0000001562	0.0000000154	0.0000000794
PCB_94	0.0000001359	-.0000000009	0.0000000169	0.0000000017	0.0000000179
PCB_95	-.0000006470	-.0000000085	-.0000001176	-.0000000284	-.0000013275
PCB_96	0.0000000835	-.0000000007	0.0000000095	0.0000000006	-.0000000171
PCB_99	-.0000001574	-.0000000221	-.0000001665	-.0000000164	0.0000000599
PCB_103	0.0000001600	-.0000000013	0.0000000187	0.0000000015	-.0000000115
PCB_104	0.0000000031	-.0000000000	0.0000000004	0.0000000000	-.0000000006
PCB_105	-.0000003277	-.0000000037	-.0000000711	0.0000000035	0.0000009819
PCB_109	0.0000000603	-.0000000024	-.0000000081	-.0000000002	0.0000000860
PCB_111	0.0000000071	-.0000000002	0.0000000002	-.0000000000	-.0000000056
PCB_114	0.0000000294	-.0000000001	0.0000000027	0.0000000015	0.0000001104
PCB_118	-.0000015384	-.0000000441	-.0000003529	-.0000000184	0.0000016930
PCB_120	0.0000000313	-.0000000006	0.0000000024	0.0000000000	-.0000000183
PCB_121	0.0000000039	-.0000000001	0.0000000003	0.0000000000	-.0000000019
PCB_122	-.0000000288	0.0000000001	-.0000000041	-.0000000003	0.0000000153
PCB_123	0.0000002759	-.0000000004	0.0000000431	0.0000000065	0.0000001940
PCB_126	-.0000001104	0.0000000008	-.0000000140	-.0000000014	-.0000000113
PCB_127	-.0000000108	-.0000000001	-.0000000018	-.0000000002	-.0000000004
PCB_130	-.0000001584	0.0000000007	-.0000000213	-.0000000007	0.0000001106
PCB_131	-.0000000593	0.0000000002	-.0000000077	-.0000000004	0.0000000285
PCB_132	-.0000023278	0.0000000065	-.0000002973	-.0000000398	-.0000010655
PCB_133	-.0000000171	0.0000000002	-.0000000019	-.0000000003	-.0000000078
PCB_136	0.0000000769	0.0000000009	0.0000000110	0.0000000001	-.0000000562
PCB_137	0.0000000104	0.0000000007	-.0000000002	0.0000000028	0.0000002373
PCB_141	-.0000010062	0.0000000084	-.0000001122	-.0000000095	0.0000000349
PCB_142	-.0000000034	0.0000000000	-.0000000004	-.0000000000	-.0000000010
PCB_144	-.0000003263	0.0000000044	-.0000000361	-.0000000031	0.0000000287

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_64	0.0000000290	0.0000001458	0.0000001067	0.0000000404	0.0000000323
PCB_66	0.0000000489	0.0000002025	-.0000000885	0.0000000454	0.0000000183
PCB_67	0.0000000012	0.0000000064	0.0000000001	0.0000000020	0.0000000009
PCB_68	0.0000000040	0.0000000288	-.0000000318	0.0000000097	-.0000000025
PCB_72	0.0000000048	0.0000000404	-.0000000232	0.0000000148	-.0000000014
PCB_77	-.0000000000	-.0000000007	0.0000000222	0.0000000014	0.0000000020
PCB_78	0.0000000010	0.0000000017	0.0000000111	-.0000000011	0.0000000024
PCB_79	-.0000000008	-.0000000050	0.0000000156	-.0000000005	0.0000000019
PCB_81	-.0000000007	-.0000000029	0.0000000069	0.0000000001	-.0000000001
PCB_82	0.0000000011	-.0000000245	-.0000000848	-.0000000213	-.0000000039
PCB_83	0.0000000065	0.0000000503	-.0000000475	0.0000000188	0.0000000053
PCB_84	0.0000000059	0.0000000541	-.0000000332	0.0000000246	-.0000000001
PCB_89	-.0000000008	-.0000000041	0.0000000119	-.0000000001	0.0000000003
PCB_92	0.0000000288	0.0000001589	-.0000000979	0.0000000405	0.0000000195
PCB_94	0.0000000037	0.0000000161	-.0000000132	0.0000000030	0.0000000002
PCB_95	-.0000000451	-.0000000177	0.0000004357	0.0000001069	-.0000000607
PCB_96	0.0000000015	0.0000000113	-.0000000000	0.0000000040	0.0000000002
PCB_99	-.0000000423	-.0000000324	-.0000007251	0.0000000500	-.0000000729
PCB_103	0.0000000033	0.0000000203	-.0000000086	0.0000000067	0.0000000003
PCB_104	0.0000000001	0.0000000004	-.0000000001	0.0000000001	-.0000000001
PCB_105	0.0000000073	-.0000000830	-.0000006375	-.0000001060	-.0000000283
PCB_109	-.0000000017	0.0000000023	-.0000001274	0.0000000070	-.0000000066
PCB_111	-.0000000001	0.0000000011	-.0000000019	0.0000000009	-.0000000003
PCB_114	0.0000000027	-.0000000012	-.0000000546	-.0000000094	-.0000000002
PCB_118	-.0000000172	-.0000002693	-.0000020348	-.0000003008	-.0000002063
PCB_120	-.0000000000	0.0000000045	-.0000000030	0.0000000029	-.0000000005
PCB_121	0.0000000000	0.0000000005	-.0000000005	0.0000000004	-.0000000001
PCB_122	-.0000000004	-.0000000042	-.0000000087	-.0000000020	-.0000000010
PCB_123	0.0000000130	0.0000000253	-.0000000572	-.0000000172	0.0000000062
PCB_126	-.0000000029	-.0000000132	0.0000000136	-.0000000011	-.0000000015
PCB_127	-.0000000003	-.0000000013	-.0000000042	-.0000000008	-.0000000004
PCB_130	-.0000000017	-.0000000243	-.0000000590	-.0000000171	-.0000000019
PCB_131	-.0000000008	-.0000000087	-.0000000161	-.0000000050	-.0000000009
PCB_132	-.0000000783	-.0000002412	0.0000003196	0.0000000162	-.0000000214
PCB_133	-.0000000006	-.0000000020	0.0000000045	0.0000000013	-.0000000003
PCB_136	-.0000000003	0.0000000123	0.0000000361	0.0000000186	0.0000000049
PCB_137	0.0000000039	-.0000000094	-.0000001145	-.0000000195	0.0000000039
PCB_141	-.0000000199	-.0000001265	0.0000000770	-.0000000389	-.0000000017
PCB_142	-.0000000001	-.0000000004	0.0000000010	0.0000000000	0.0000000000
PCB_144	-.0000000075	-.0000000422	0.0000000349	-.0000000007	0.0000000030

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_64	0.0000007196	0.0000049029	0.0000022088	0.0000009257	0.0000000088
PCB_66	0.0000006350	0.0000058603	0.0000029016	0.0000007937	-.0000000003
PCB_67	0.0000000261	0.0000002061	0.0000000964	0.0000000319	0.0000000002
PCB_68	0.0000000772	0.0000011686	0.0000005106	0.0000000740	-.0000000007
PCB_72	0.0000001398	0.0000017360	0.0000007363	0.0000001526	0.0000000001
PCB_77	0.0000000246	-.0000000049	-.0000000162	0.0000000406	0.0000000009
PCB_78	0.0000000185	-.0000000083	0.0000000058	0.0000000304	0.0000000006
PCB_79	-.0000000061	-.0000002457	-.0000001173	0.0000000200	0.0000000006
PCB_81	-.0000000027	-.0000000643	-.0000000373	0.0000000001	0.0000000002
PCB_82	-.0000002139	-.0000016447	-.0000005667	-.0000003149	-.0000000048
PCB_83	0.0000001607	0.0000015358	0.0000006973	0.0000001767	-.0000000005
PCB_84	0.0000002372	0.0000023418	0.0000009999	0.0000001412	-.0000000001
PCB_89	-.0000000013	-.0000001132	-.0000000610	0.0000000021	0.0000000004
PCB_92	0.0000005224	0.0000047562	0.0000021920	0.0000005870	0.0000000001
PCB_94	0.0000000488	0.0000005420	0.0000002643	0.0000000413	-.0000000003
PCB_95	0.0000006971	0.0000083845	0.0000023805	0.0000005055	0.0000000184
PCB_96	0.0000000496	0.0000005035	0.0000002122	0.0000000499	0.0000000003
PCB_99	-.0000009560	-.0000015508	-.0000013248	-.0000015484	-.0000000320
PCB_103	0.0000000731	0.0000007897	0.0000003466	0.0000000764	0.0000000001
PCB_104	0.0000000016	0.0000000233	0.0000000101	0.0000000011	0.0000000000
PCB_105	-.0000011828	-.0000072666	-.0000022343	-.0000016646	-.0000000312
PCB_109	-.0000001547	-.0000005947	-.0000002382	-.0000002014	-.0000000057
PCB_111	0.0000000021	0.0000000557	0.0000000189	0.0000000030	-.0000000000
PCB_114	-.0000000804	-.0000005526	-.0000001421	-.0000001180	-.0000000026
PCB_118	-.0000037417	-.0000138177	-.0000038591	-.0000054151	-.0000000990
PCB_120	0.0000000144	0.0000002165	0.0000000781	0.0000000204	0.0000000000
PCB_121	0.0000000017	0.0000000265	0.0000000096	0.0000000019	-.0000000000
PCB_122	-.0000000271	-.0000001917	-.0000000712	-.0000000396	-.0000000005
PCB_123	-.0000000015	-.0000000142	0.0000002220	-.0000000049	-.0000000022
PCB_126	-.0000000325	-.0000003543	-.0000001887	-.0000000438	0.0000000002
PCB_127	-.0000000113	-.0000000549	-.0000000207	-.0000000119	-.0000000002
PCB_130	-.0000001804	-.0000014324	-.0000005192	-.0000002212	-.0000000032
PCB_131	-.0000000593	-.0000004642	-.0000001743	-.0000000676	-.0000000009
PCB_132	-.0000005560	-.0000054288	-.0000030695	-.0000000947	0.0000000113
PCB_133	-.0000000050	-.0000000626	-.0000000397	0.0000000033	0.0000000001
PCB_136	0.0000001013	0.0000004115	0.0000001173	0.0000001618	0.0000000019
PCB_137	-.0000002043	-.0000017752	-.0000005682	-.0000002374	-.0000000053
PCB_141	-.0000004408	-.0000048539	-.0000021159	-.0000004058	0.0000000003
PCB_142	-.0000000002	-.0000000087	-.0000000051	0.0000000002	0.0000000000
PCB_144	-.0000001366	-.0000019598	-.0000008971	-.0000000949	0.0000000003

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_64	-.0000000003	0.0000011344	0.0000070502	0.0000023993	0.0000040806
PCB_66	-.0000000089	0.0000011642	0.0000076549	0.0000019168	0.0000044359
PCB_67	-.0000000002	0.0000000471	0.0000003052	0.0000000934	0.0000001608
PCB_68	-.0000000023	0.0000002229	0.0000017296	0.0000002268	0.0000008244
PCB_72	-.0000000024	0.0000003510	0.0000026265	0.0000004462	0.0000012859
PCB_77	0.0000000009	0.0000000149	-.0000000110	0.0000000870	0.0000000448
PCB_78	0.0000000004	0.0000000028	-.0000000549	0.0000000562	0.0000000265
PCB_79	0.0000000008	-.0000000396	-.0000003954	-.0000000167	-.0000001178
PCB_81	0.0000000003	-.0000000098	-.0000000883	-.0000000058	-.0000000359
PCB_82	-.0000000018	-.0000004019	-.0000026069	-.0000007500	-.0000014934
PCB_83	-.0000000031	0.0000003661	0.0000025105	0.0000006171	0.0000011150
PCB_84	-.0000000031	0.0000005467	0.0000040232	0.0000008926	0.0000015129
PCB_89	0.0000000006	-.0000000164	-.0000001607	-.0000000012	-.0000000667
PCB_92	-.0000000079	0.0000010248	0.0000069707	0.0000016135	0.0000035304
PCB_94	-.0000000010	0.0000001032	0.0000007637	0.0000001481	0.0000003679
PCB_95	0.0000000095	0.0000018869	0.0000147303	0.0000024149	0.0000063115
PCB_96	-.0000000004	0.0000001064	0.0000007747	0.0000001618	0.0000003730
PCB_99	-.0000000254	-.0000004640	-.0000005601	-.0000039526	-.0000028007
PCB_103	-.0000000010	0.0000001620	0.0000011693	0.0000002289	0.0000005781
PCB_104	-.0000000000	0.0000000041	0.0000000332	0.0000000044	0.0000000161
PCB_105	-.0000000180	-.0000018937	-.0000114064	-.0000038821	-.0000068932
PCB_109	-.0000000043	-.0000001295	-.0000007489	-.0000005231	-.0000006552
PCB_111	-.0000000001	0.0000000116	0.0000000916	0.0000000053	0.0000000417
PCB_114	-.0000000016	-.0000001471	-.0000009315	-.0000002840	-.0000005344
PCB_118	-.0000000663	-.0000046541	-.0000219292	-.0000124807	-.0000151818
PCB_120	-.0000000003	0.0000000457	0.0000003384	0.0000000402	0.0000001700
PCB_121	-.0000000000	0.0000000057	0.0000000425	0.0000000049	0.0000000196
PCB_122	-.0000000002	-.0000000448	-.0000002794	-.0000000829	-.0000001744
PCB_123	-.0000000023	-.0000000820	-.0000005357	-.0000000926	-.0000000835
PCB_126	0.0000000009	-.0000000661	-.0000004758	-.0000001112	-.0000002683
PCB_127	-.0000000001	-.0000000149	-.0000000812	-.0000000337	-.0000000446
PCB_130	-.0000000010	-.0000003325	-.0000021937	-.0000005671	-.0000011887
PCB_131	-.0000000002	-.0000001076	-.0000007177	-.0000001868	-.0000003739
PCB_132	0.0000000169	-.0000008252	-.0000063863	-.0000007290	-.0000027828
PCB_133	0.0000000002	-.0000000086	-.0000000976	-.0000000174	-.0000000287
PCB_136	0.0000000011	0.0000001729	0.0000008053	0.0000004371	0.0000004324
PCB_137	-.0000000028	-.0000004031	-.0000028416	-.0000006716	-.0000014887
PCB_141	0.0000000072	-.0000009925	-.0000072931	-.0000013178	-.0000034425
PCB_142	0.0000000000	-.0000000013	-.0000000119	-.0000000004	-.0000000048
PCB_144	0.0000000031	-.0000003323	-.0000028295	-.0000003699	-.0000013551

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_64	0.0000000694	-.0000000017	0.0000001371	0.0000000192	0.0000000055
PCB_66	0.0000000855	-.0000000073	0.0000000839	0.0000000183	0.0000000033
PCB_67	0.0000000029	-.0000000002	0.0000000037	0.0000000007	0.0000000001
PCB_68	0.0000000168	-.0000000021	-.0000000041	0.0000000049	-.0000000006
PCB_72	0.0000000249	-.0000000024	0.0000000041	0.0000000077	-.0000000003
PCB_77	0.0000000002	0.0000000007	0.0000000107	0.0000000006	0.0000000007
PCB_78	-.0000000002	0.0000000003	0.0000000079	-.0000000003	0.0000000004
PCB_79	-.0000000028	0.0000000008	0.0000000097	-.0000000004	0.0000000007
PCB_81	-.0000000008	0.0000000003	0.0000000013	0.0000000001	0.0000000002
PCB_82	-.0000000255	-.0000000013	-.0000000455	-.0000000120	-.0000000026
PCB_83	0.0000000210	-.0000000035	0.0000000142	0.0000000052	-.0000000009
PCB_84	0.0000000291	-.0000000042	-.0000000070	0.0000000085	-.0000000026
PCB_89	-.0000000015	0.0000000005	0.0000000030	-.0000000000	0.0000000003
PCB_92	0.0000000659	-.0000000093	0.0000000644	0.0000000150	-.0000000002
PCB_94	0.0000000073	-.0000000009	-.0000000001	0.0000000014	-.0000000002
PCB_95	0.0000001197	0.0000000071	-.0000000302	0.0000000711	0.0000000014
PCB_96	0.0000000070	-.0000000005	0.0000000029	0.0000000022	-.0000000000
PCB_99	-.0000000211	-.0000000292	-.0000002836	0.0000000025	-.0000000225
PCB_103	0.0000000112	-.0000000011	0.0000000042	0.0000000032	-.0000000000
PCB_104	0.0000000003	-.0000000000	-.0000000002	0.0000000001	-.0000000000
PCB_105	-.0000001132	-.0000000136	-.0000002896	-.0000000618	-.0000000180
PCB_109	-.0000000076	-.0000000040	-.0000000343	-.0000000031	-.0000000029
PCB_111	0.0000000009	-.0000000001	-.0000000002	0.0000000004	-.0000000000
PCB_114	-.0000000089	-.0000000013	-.0000000188	-.0000000056	-.0000000013
PCB_118	-.0000002186	-.0000000458	-.0000011774	-.0000001334	-.0000000636
PCB_120	0.0000000034	-.0000000003	0.0000000013	0.0000000014	0.0000000000
PCB_121	0.0000000004	-.0000000000	0.0000000000	0.0000000002	-.0000000000
PCB_122	-.0000000029	-.0000000001	-.0000000065	-.0000000012	-.0000000003
PCB_123	-.0000000016	-.0000000017	-.0000000033	-.0000000069	-.0000000003
PCB_126	-.0000000050	0.0000000007	-.0000000027	-.0000000005	0.0000000001
PCB_127	-.0000000007	-.0000000001	-.0000000024	-.0000000003	-.0000000001
PCB_130	-.0000000212	-.0000000005	-.0000000304	-.0000000094	-.0000000017
PCB_131	-.0000000066	0.0000000000	-.0000000090	-.0000000027	-.0000000004
PCB_132	-.0000000597	0.0000000206	0.0000000252	0.0000000065	0.0000000070
PCB_133	-.0000000004	0.0000000003	0.0000000022	0.0000000004	0.0000000002
PCB_136	0.0000000073	0.0000000008	0.0000000327	0.0000000048	0.0000000015
PCB_137	-.0000000263	-.0000000023	-.0000000252	-.0000000139	-.0000000022
PCB_141	-.0000000667	0.0000000082	-.0000000159	-.0000000186	0.0000000016
PCB_142	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_144	-.0000000258	0.0000000031	0.0000000157	-.0000000054	0.0000000014

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_64	0.0000056713	0.0000005134	0.0000023668	0.0000006721	0.0000203577
PCB_66	0.0000054921	0.0000007289	0.0000019287	0.0000003151	0.0000124465
PCB_67	0.0000002222	0.0000000306	0.0000000910	0.0000000209	0.0000007621
PCB_68	0.0000011018	0.0000001117	0.0000004567	0.0000000240	0.0000037883
PCB_72	0.0000017698	0.0000001598	0.0000007618	0.0000000868	0.0000066021
PCB_77	0.0000001299	0.0000000185	0.0000000438	0.0000000423	0.0000002421
PCB_78	0.0000000118	-.0000000149	0.0000000048	0.0000000242	0.0000000558
PCB_79	-.0000001413	-.0000000125	-.0000000905	0.0000000077	-.0000010584
PCB_81	-.0000000240	0.0000000000	-.0000000118	0.0000000051	-.0000001631
PCB_82	-.0000023585	-.0000001954	-.0000010108	-.0000002626	-.0000083400
PCB_83	0.0000016788	0.0000002671	0.0000006915	0.0000001002	0.0000066535
PCB_84	0.0000025392	0.0000003611	0.0000012309	0.0000002100	0.0000128959
PCB_89	-.0000000468	-.0000000005	-.0000000230	0.0000000117	-.0000002627
PCB_92	0.0000049068	0.0000004948	0.0000019480	0.0000003156	0.0000177818
PCB_94	0.0000004554	0.0000000494	0.0000001958	0.0000000224	0.0000016924
PCB_95	0.0000116491	0.0000009489	0.0000057775	0.0000011432	0.0000522523
PCB_96	0.0000005345	0.0000000441	0.0000002428	0.0000000417	0.0000022436
PCB_99	-.0000012681	0.0000001938	-.0000012598	-.0000013970	-.0000068602
PCB_103	0.0000008049	0.0000000823	0.0000003378	0.0000000479	0.0000028856
PCB_104	0.0000000206	0.0000000013	0.0000000097	0.0000000011	0.0000000790
PCB_105	-.0000119409	-.0000009381	-.0000050293	-.0000016146	-.0000408502
PCB_109	-.0000007074	0.0000001249	-.0000004980	-.0000002499	-.0000047736
PCB_111	0.0000000689	0.0000000076	0.0000000258	-.0000000001	0.0000002092
PCB_114	-.0000009637	-.0000000813	-.0000004210	-.0000001247	-.0000034109
PCB_118	-.0000300531	-.0000031582	-.0000115735	-.0000051873	-.0000936127
PCB_120	0.0000002666	0.0000000256	0.0000001015	0.0000000080	0.0000008090
PCB_121	0.0000000327	0.0000000039	0.0000000125	0.0000000010	0.0000001024
PCB_122	-.0000002633	-.0000000148	-.0000001069	-.0000000295	-.0000008762
PCB_123	-.0000008309	-.0000001684	-.0000003591	-.0000000937	-.0000032405
PCB_126	-.0000002539	-.0000000195	-.0000001067	-.0000000079	-.0000008998
PCB_127	-.0000000877	-.0000000104	-.0000000344	-.0000000135	-.0000002911
PCB_130	-.0000019414	-.0000001705	-.0000008160	-.0000002051	-.0000067450
PCB_131	-.0000006068	-.0000000501	-.0000002627	-.0000000657	-.0000023083
PCB_132	-.0000029591	0.0000001305	-.0000012062	-.0000000466	-.0000150000
PCB_133	0.0000000034	0.0000000159	-.0000000237	-.0000000016	-.0000004640
PCB_136	0.0000010381	0.0000002734	0.0000003259	0.0000001286	0.0000020358
PCB_137	-.0000024613	-.0000001631	-.0000011511	-.0000002885	-.0000097610
PCB_141	-.0000049070	-.0000004439	-.0000021060	-.0000002797	-.0000193026
PCB_142	-.0000000029	-.0000000002	-.0000000013	0.0000000009	-.0000000166
PCB_144	-.0000014678	0.0000000482	-.0000008053	-.0000000704	-.0000082055

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_64	0.0000003479	-.0000000003	0.0000005056	0.0000002580	0.0000002318
PCB_66	0.0000003763	-.0000000089	0.0000002258	0.0000004267	0.0000002537
PCB_67	0.0000000151	-.0000000002	0.0000000185	0.0000000103	0.0000000096
PCB_68	0.0000000880	-.0000000023	-.0000000659	0.0000001043	0.0000000553
PCB_72	0.0000001326	-.0000000024	-.0000000493	0.0000001453	0.0000000853
PCB_77	-.0000000024	0.0000000009	0.0000000567	-.0000000044	0.0000000027
PCB_78	-.0000000029	0.0000000004	0.0000000304	-.0000000081	-.0000000016
PCB_79	-.0000000252	0.0000000008	0.0000000308	-.0000000061	-.0000000064
PCB_81	-.0000000050	0.0000000003	0.0000000109	-.0000000034	-.0000000016
PCB_82	-.0000001197	-.0000000018	-.0000001406	-.0000001526	-.0000001049
PCB_83	0.0000001197	-.0000000031	0.0000000457	0.0000000907	0.0000000760
PCB_84	0.0000002204	-.0000000031	0.0000000917	0.0000000587	0.0000000989
PCB_89	-.0000000087	0.0000000006	0.0000000238	-.0000000096	-.0000000037
PCB_92	0.0000003424	-.0000000079	0.0000000261	0.0000003341	0.0000002167
PCB_94	0.0000000420	-.0000000010	-.0000000008	0.0000000279	0.0000000202
PCB_95	0.0000008034	0.0000000095	0.0000001987	0.0000006267	0.0000004908
PCB_96	0.0000000406	-.0000000004	0.0000000041	0.0000000320	0.0000000234
PCB_99	-.0000000949	-.0000000254	-.0000022240	0.0000006035	0.0000000185
PCB_103	0.0000000598	-.0000000010	-.0000000009	0.0000000576	0.0000000367
PCB_104	0.0000000019	-.0000000000	-.0000000007	0.0000000016	0.0000000010
PCB_105	-.0000005267	-.0000000180	-.0000010828	-.0000006422	-.0000004825
PCB_109	-.0000000558	-.0000000043	-.0000002092	0.0000000395	-.0000000171
PCB_111	0.0000000039	-.0000000001	-.0000000075	0.0000000087	0.0000000037
PCB_114	-.0000000426	-.0000000016	-.0000000776	-.0000000557	-.0000000408
PCB_118	-.0000008694	-.0000000663	-.0000049567	-.0000009441	-.0000010501
PCB_120	0.0000000149	-.0000000003	-.0000000165	0.0000000295	0.0000000137
PCB_121	0.0000000019	-.0000000000	-.0000000017	0.0000000033	0.0000000016
PCB_122	-.0000000127	-.0000000002	-.0000000127	-.0000000188	-.0000000114
PCB_123	-.0000000153	-.0000000023	-.0000000579	-.0000000434	-.0000000346
PCB_126	-.0000000240	0.0000000009	0.0000000055	-.0000000221	-.0000000137
PCB_127	-.0000000042	-.0000000001	-.0000000126	-.0000000017	-.0000000027
PCB_130	-.0000001078	-.0000000010	-.0000001017	-.0000001176	-.0000000812
PCB_131	-.0000000363	-.0000000002	-.0000000308	-.0000000326	-.0000000247
PCB_132	-.0000004295	0.0000000169	0.0000004528	-.0000001219	-.0000000700
PCB_133	-.0000000078	0.0000000002	0.0000000079	0.0000000067	0.0000000008
PCB_136	0.0000000230	0.0000000011	0.0000001995	0.0000000370	0.0000000417
PCB_137	-.0000001488	-.0000000028	-.0000001262	-.0000001363	-.0000001030
PCB_141	-.0000003799	0.0000000072	0.0000000931	-.0000003419	-.0000002184
PCB_142	-.0000000007	0.0000000000	0.0000000016	-.0000000006	-.0000000002
PCB_144	-.0000001654	0.0000000031	0.0000001546	-.0000001119	-.0000000700

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_64	0.0000002673	0.0000004309	0.0000068032	0.0000059104	0.0000002516
PCB_66	0.0000000426	0.0000006694	0.0000059104	0.0000099106	0.0000002610
PCB_67	0.0000000036	0.0000000190	0.0000002516	0.0000002610	0.0000000110
PCB_68	-.0000000780	0.0000001169	0.0000010451	0.0000016304	0.0000000472
PCB_72	-.0000000787	0.0000001619	0.0000018044	0.0000022243	0.0000000750
PCB_77	0.0000000467	0.0000000027	0.0000002247	0.0000000580	0.0000000054
PCB_78	0.0000000303	-.0000000041	0.0000000797	-.0000000533	-.0000000001
PCB_79	0.0000000439	-.0000000102	-.0000000509	-.0000000453	-.0000000070
PCB_81	0.0000000112	-.0000000045	-.0000000074	-.0000000518	-.0000000013
PCB_82	-.0000001002	-.0000001600	-.0000028526	-.0000023359	-.0000000945
PCB_83	-.0000000724	0.0000001438	0.0000017477	0.0000018600	0.0000000851
PCB_84	-.0000001360	0.0000001438	0.0000024166	0.0000012829	0.0000001245
PCB_89	0.0000000221	-.0000000092	-.0000000173	-.0000001198	-.0000000023
PCB_92	-.0000001060	0.0000004653	0.0000051851	0.0000062755	0.0000002161
PCB_94	-.0000000227	0.0000000460	0.0000004325	0.0000005962	0.0000000215
PCB_95	-.0000001055	0.0000005685	0.0000120366	0.0000064313	0.0000004426
PCB_96	-.0000000126	0.0000000400	0.0000005594	0.0000005062	0.0000000227
PCB_99	-.0000015166	0.0000002683	-.0000048351	0.0000035929	-.0000001251
PCB_103	-.0000000231	0.0000000743	0.0000008243	0.0000010093	0.0000000351
PCB_104	-.0000000010	0.0000000019	0.0000000193	0.0000000244	0.0000000008
PCB_105	-.0000009063	-.0000007277	-.0000147697	-.0000105122	-.0000004540
PCB_109	-.0000001786	0.0000000339	-.0000011697	0.0000006637	-.0000000215
PCB_111	-.0000000056	0.0000000076	0.0000000661	0.0000001122	0.0000000026
PCB_114	-.0000000620	-.0000000542	-.0000011816	-.0000007906	-.0000000367
PCB_118	-.0000039550	-.0000016561	-.0000400003	-.0000241269	-.0000011978
PCB_120	-.0000000112	0.0000000274	0.0000002751	0.0000004075	0.0000000102
PCB_121	-.0000000016	0.0000000033	0.0000000322	0.0000000473	0.0000000013
PCB_122	-.0000000141	-.0000000200	-.0000003219	-.0000002960	-.0000000098
PCB_123	-.0000000214	-.0000000210	-.0000009227	-.0000002588	-.0000000323
PCB_126	0.0000000152	-.0000000307	-.0000002771	-.0000004417	-.0000000130
PCB_127	-.0000000084	-.0000000055	-.0000001024	-.0000000682	-.0000000036
PCB_130	-.0000000681	-.0000001405	-.0000022121	-.0000019541	-.0000000766
PCB_131	-.0000000169	-.0000000411	-.0000006830	-.0000005413	-.0000000241
PCB_132	0.0000003850	-.0000003898	-.0000015524	-.0000037029	-.0000000964
PCB_133	0.0000000124	0.0000000063	0.0000000201	0.0000001465	-.0000000000
PCB_136	0.0000000983	0.0000000851	0.0000013005	0.0000013245	0.0000000558
PCB_137	-.0000000839	-.0000001384	-.0000028056	-.0000018262	-.0000000928
PCB_141	0.0000002056	-.0000004329	-.0000048700	-.0000056073	-.0000002073
PCB_142	0.0000000017	-.0000000007	-.0000000003	-.0000000089	-.0000000002
PCB_144	0.0000001456	-.0000001064	-.0000013728	-.0000011576	-.0000000538

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_64	0.0000010451	0.0000018044	0.0000002247	0.0000000797	-.0000000509
PCB_66	0.0000016304	0.0000022243	0.0000000580	-.0000000533	-.0000000453
PCB_67	0.0000000472	0.0000000750	0.0000000054	-.0000000001	-.0000000070
PCB_68	0.0000003677	0.0000005121	-.0000000126	-.0000000290	-.0000000470
PCB_72	0.0000005121	0.0000007590	0.0000000055	-.0000000266	-.0000000612
PCB_77	-.0000000126	0.0000000055	0.0000000245	0.0000000120	0.0000000153
PCB_78	-.0000000290	-.0000000266	0.0000000120	0.0000000116	0.0000000128
PCB_79	-.0000000470	-.0000000612	0.0000000153	0.0000000128	0.0000000435
PCB_81	-.0000000144	-.0000000161	0.0000000056	0.0000000025	0.0000000062
PCB_82	-.0000004890	-.0000008596	-.0000001137	-.0000000271	-.0000000315
PCB_83	0.0000004075	0.0000006205	0.0000000021	-.0000000248	-.0000000997
PCB_84	0.0000004571	0.0000007710	0.0000000139	-.0000000456	-.0000002998
PCB_89	-.0000000332	-.0000000390	0.0000000102	0.0000000054	0.0000000083
PCB_92	0.0000012672	0.0000018757	0.0000000322	-.0000000310	-.0000001630
PCB_94	0.0000001255	0.0000001757	-.0000000040	-.0000000094	-.0000000340
PCB_95	0.0000023503	0.0000041646	0.0000004289	-.0000000887	-.0000006193
PCB_96	0.0000001246	0.0000001986	0.0000000078	-.0000000036	-.0000000257
PCB_99	0.0000015467	0.0000012493	-.0000006532	-.0000004880	-.0000003139
PCB_103	0.0000002178	0.0000003218	0.0000000061	-.0000000103	-.0000000318
PCB_104	0.0000000060	0.0000000087	0.0000000000	-.0000000004	-.0000000013
PCB_105	-.0000020604	-.0000038771	-.0000007667	-.0000002318	-.0000002226
PCB_109	0.0000001148	-.0000000305	-.0000001066	-.0000000740	-.0000000121
PCB_111	0.0000000263	0.0000000365	-.0000000006	-.0000000020	-.0000000003
PCB_114	-.0000001742	-.0000003298	-.0000000614	-.0000000146	-.0000000160
PCB_118	-.0000033488	-.0000076022	-.0000025938	-.0000010371	-.0000010048
PCB_120	0.0000000898	0.0000001290	0.0000000018	-.0000000045	0.0000000012
PCB_121	0.0000000107	0.0000000152	0.0000000001	-.0000000007	-.0000000006
PCB_122	-.0000000566	-.0000000964	-.0000000127	-.0000000045	-.0000000074
PCB_123	-.0000001393	-.0000002855	-.0000000611	0.0000000070	0.0000000161
PCB_126	-.0000000825	-.0000001158	0.0000000063	0.0000000027	0.0000000060
PCB_127	-.0000000106	-.0000000205	-.0000000058	-.0000000016	0.0000000021
PCB_130	-.0000004086	-.0000006838	-.0000000837	-.0000000112	0.0000000132
PCB_131	-.0000001199	-.0000002049	-.0000000242	-.0000000036	0.0000000123
PCB_132	-.0000008336	-.0000008646	0.0000002145	0.0000000924	0.0000006098
PCB_133	0.0000000126	0.0000000120	0.0000000055	-.0000000001	0.0000000161
PCB_136	0.0000001791	0.0000003053	0.0000000697	0.0000000058	0.0000000154
PCB_137	-.0000004697	-.0000008519	-.0000001221	-.0000000169	0.0000000379
PCB_141	-.0000013058	-.0000019351	-.0000000141	0.0000000685	0.0000002571
PCB_142	-.0000000023	-.0000000024	0.0000000009	0.0000000004	0.0000000008
PCB_144	-.0000004051	-.0000006285	0.0000000302	0.0000000204	0.0000001233

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_64	-.0000000074	-.0000028526	0.0000017477	0.0000024166	-.0000000173
PCB_66	-.0000000518	-.0000023359	0.0000018600	0.0000012829	-.0000001198
PCB_67	-.0000000013	-.0000000945	0.0000000851	0.0000001245	-.0000000023
PCB_68	-.0000000144	-.0000004890	0.0000004075	0.0000004571	-.0000000332
PCB_72	-.0000000161	-.0000008596	0.0000006205	0.0000007710	-.0000000390
PCB_77	0.0000000056	-.0000001137	0.0000000021	0.0000000139	0.0000000102
PCB_78	0.0000000025	-.0000000271	-.0000000248	-.0000000456	0.0000000054
PCB_79	0.0000000062	-.0000000315	-.0000000997	-.0000002998	0.0000000083
PCB_81	0.0000000023	-.0000000124	-.0000000225	-.0000000294	0.0000000037
PCB_82	-.0000000124	0.0000015725	-.0000005894	-.0000006367	-.0000000032
PCB_83	-.0000000225	-.0000005894	0.0000008013	0.0000012311	-.0000000373
PCB_84	-.0000000294	-.0000006367	0.0000012311	0.0000030620	-.0000000273
PCB_89	0.0000000037	-.0000000032	-.0000000373	-.0000000273	0.0000000071
PCB_92	-.0000000568	-.0000019742	0.0000018580	0.0000023215	-.0000001040
PCB_94	-.0000000070	-.0000001322	0.0000001862	0.0000003150	-.0000000116
PCB_95	0.0000000511	-.0000066779	0.0000032249	0.0000084032	0.0000000533
PCB_96	-.0000000036	-.0000002426	0.0000001865	0.0000003259	-.0000000070
PCB_99	-.0000001603	0.0000017060	0.0000005713	-.0000007331	-.0000003188
PCB_103	-.0000000071	-.0000003548	0.0000002857	0.0000003993	-.0000000150
PCB_104	-.0000000002	-.0000000091	0.0000000063	0.0000000117	-.0000000004
PCB_105	-.0000001176	0.0000080879	-.0000024641	-.0000033925	-.0000001393
PCB_109	-.0000000243	0.0000006009	0.0000000374	-.0000004331	-.0000000469
PCB_111	-.0000000007	-.0000000412	0.0000000231	0.0000000095	-.0000000022
PCB_114	-.0000000109	0.0000006920	-.0000002007	-.0000002911	-.0000000116
PCB_118	-.0000004182	0.0000198608	-.0000060718	-.0000091144	-.0000007003
PCB_120	-.0000000016	-.0000001622	0.0000000803	0.0000000339	-.0000000062
PCB_121	-.0000000002	-.0000000175	0.0000000109	0.0000000101	-.0000000007
PCB_122	-.0000000011	0.0000001749	-.0000000570	-.0000000337	0.0000000001
PCB_123	-.0000000154	0.0000006359	-.0000002426	-.0000006100	-.0000000214
PCB_126	0.0000000056	0.0000000982	-.0000001108	-.0000000642	0.0000000116
PCB_127	-.0000000006	0.0000000397	-.0000000226	-.0000000567	-.0000000016
PCB_130	-.0000000061	0.0000011308	-.0000004988	-.0000007480	-.0000000023
PCB_131	-.0000000008	0.0000003272	-.0000001686	-.0000002973	-.0000000003
PCB_132	0.0000001367	-.0000011875	-.0000013337	-.0000038551	0.0000001462
PCB_133	0.0000000023	-.0000000435	-.0000000190	-.0000001106	0.0000000017
PCB_136	0.0000000085	-.0000005810	0.0000003808	0.0000004684	0.0000000125
PCB_137	-.0000000174	0.0000015600	-.0000005609	-.0000011510	-.0000000178
PCB_141	0.0000000526	0.0000019842	-.0000018014	-.0000028547	0.0000000981
PCB_142	0.0000000003	-.0000000018	-.0000000031	-.0000000031	0.0000000006
PCB_144	0.0000000245	0.0000005842	-.0000005041	-.0000009891	0.0000000457

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_64	0.0000051851	0.0000004325	0.0000120366	0.0000005594	-.0000048351
PCB_66	0.0000062755	0.0000005962	0.0000064313	0.0000005062	0.0000035929
PCB_67	0.0000002161	0.0000000215	0.0000004426	0.0000000227	-.0000001251
PCB_68	0.0000012672	0.0000001255	0.0000023503	0.0000001246	0.0000015467
PCB_72	0.0000018757	0.0000001757	0.0000041646	0.0000001986	0.0000012493
PCB_77	0.0000000322	-.0000000040	0.0000004289	0.0000000078	-.0000006532
PCB_78	-.0000000310	-.0000000094	-.0000000887	-.0000000036	-.0000004880
PCB_79	-.0000001630	-.0000000340	-.0000006193	-.0000000257	-.0000003139
PCB_81	-.0000000568	-.0000000070	0.0000000511	-.0000000036	-.0000001603
PCB_82	-.0000019742	-.0000001322	-.0000066779	-.0000002426	0.0000017060
PCB_83	0.0000018580	0.0000001862	0.0000032249	0.0000001865	0.0000005713
PCB_84	0.0000023215	0.0000003150	0.0000084032	0.0000003259	-.0000007331
PCB_89	-.0000001040	-.0000000116	0.0000000533	-.0000000070	-.0000003188
PCB_92	0.0000055696	0.0000004983	0.0000083136	0.0000005123	0.0000035462
PCB_94	0.0000004983	0.0000000597	0.0000009265	0.0000000513	0.0000002801
PCB_95	0.0000083136	0.0000009265	0.0000506710	0.0000014616	-.0000061857
PCB_96	0.0000005123	0.0000000513	0.0000014616	0.0000000613	0.0000000123
PCB_99	0.0000035462	0.0000002801	-.0000061857	0.0000000123	0.0000431468
PCB_103	0.0000008427	0.0000000833	0.0000018342	0.0000000883	0.0000004396
PCB_104	0.0000000195	0.0000000024	0.0000000638	0.0000000025	0.0000000100
PCB_105	-.0000091040	-.0000005776	-.0000370218	-.0000011961	0.0000119900
PCB_109	0.0000001032	0.0000000155	-.0000038871	-.0000000770	0.0000054490
PCB_111	0.0000000850	0.0000000063	0.0000001491	0.0000000076	0.0000001677
PCB_114	-.0000006951	-.0000000442	-.0000033311	-.0000001008	0.0000010383
PCB_118	-.0000218071	-.0000011126	-.0000846792	-.0000027066	0.0000471564
PCB_120	0.0000003055	0.0000000221	0.0000005754	0.0000000283	0.0000004361
PCB_121	0.0000000370	0.0000000031	0.0000000776	0.0000000036	0.0000000542
PCB_122	-.0000002396	-.0000000139	-.0000006273	-.0000000255	0.0000000878
PCB_123	-.0000005022	-.0000000348	-.0000044216	-.0000001035	0.0000003798
PCB_126	-.0000003233	-.0000000296	-.0000000955	-.0000000253	-.0000001080
PCB_127	-.0000000682	-.0000000066	-.0000002650	-.0000000087	0.0000000815
PCB_130	-.0000016757	-.0000001373	-.0000056613	-.0000002036	0.0000006214
PCB_131	-.0000005248	-.0000000456	-.0000017962	-.0000000653	0.0000002299
PCB_132	-.0000047111	-.0000006631	-.0000024970	-.0000003605	-.0000123939
PCB_133	0.0000000111	-.0000000047	-.0000000819	-.0000000040	0.0000001450
PCB_136	0.0000009002	0.0000000711	0.0000023150	0.0000000911	-.0000009699
PCB_137	-.0000017864	-.0000001577	-.0000091209	-.0000002772	0.0000021867
PCB_141	-.0000052416	-.0000005264	-.0000116716	-.0000005566	-.0000037694
PCB_142	-.0000000079	-.0000000010	0.0000000095	-.0000000004	-.0000000254
PCB_144	-.0000014906	-.0000001659	-.0000042694	-.0000001918	-.0000006293

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_64	0.0000008243	0.0000000193	-.0000147697	-.0000011697	0.0000000661
PCB_66	0.0000010093	0.0000000244	-.0000105122	0.0000006637	0.0000001122
PCB_67	0.0000000351	0.0000000008	-.0000004540	-.0000000215	0.0000000026
PCB_68	0.0000002178	0.0000000060	-.0000020604	0.0000001148	0.0000000263
PCB_72	0.0000003218	0.0000000087	-.0000038771	-.0000000305	0.0000000365
PCB_77	0.0000000061	0.0000000000	-.0000007667	-.0000001066	-.0000000006
PCB_78	-.0000000103	-.0000000004	-.0000002318	-.0000000740	-.0000000020
PCB_79	-.0000000318	-.0000000013	-.0000002226	-.0000000121	-.0000000003
PCB_81	-.0000000071	-.0000000002	-.0000001176	-.0000000243	-.0000000007
PCB_82	-.0000003548	-.0000000091	0.0000080879	0.0000006009	-.0000000412
PCB_83	0.0000002857	0.0000000063	-.0000024641	0.0000000374	0.0000000231
PCB_84	0.0000003993	0.0000000117	-.0000033925	-.0000004331	0.0000000095
PCB_89	-.0000000150	-.0000000004	-.0000001393	-.0000000469	-.0000000022
PCB_92	0.0000008427	0.0000000195	-.0000091040	0.0000001032	0.0000000850
PCB_94	0.0000000833	0.0000000024	-.0000005776	0.0000000155	0.0000000063
PCB_95	0.0000018342	0.0000000638	-.0000370218	-.0000038871	0.0000001491
PCB_96	0.0000000883	0.0000000025	-.0000011961	-.0000000770	0.0000000076
PCB_99	0.0000004396	0.0000000100	0.0000119900	0.0000054490	0.0000001677
PCB_103	0.0000001426	0.0000000038	-.0000016686	-.0000000167	0.0000000144
PCB_104	0.0000000038	0.0000000001	-.0000000445	-.0000000019	0.0000000004
PCB_105	-.0000016686	-.0000000445	0.0000447718	0.0000038922	-.0000001770
PCB_109	-.0000000167	-.0000000019	0.0000038922	0.0000010745	0.0000000138
PCB_111	0.0000000144	0.0000000004	-.0000001770	0.0000000138	0.0000000024
PCB_114	-.0000001375	-.0000000039	0.0000037646	0.0000003361	-.0000000153
PCB_118	-.0000035947	-.0000000783	0.0001173568	0.0000112284	-.0000002998
PCB_120	0.0000000516	0.0000000013	-.0000007383	0.0000000246	0.0000000080
PCB_121	0.0000000063	0.0000000002	-.0000000813	0.0000000033	0.0000000009
PCB_122	-.0000000397	-.0000000010	0.0000009102	0.0000000563	-.0000000051
PCB_123	-.0000001222	-.0000000037	0.0000036518	0.0000002842	-.0000000137
PCB_126	-.0000000478	-.0000000010	0.0000002718	-.0000000314	-.0000000054
PCB_127	-.0000000115	-.0000000003	0.0000002628	0.0000000251	-.0000000005
PCB_130	-.0000003009	-.0000000083	0.0000060921	0.0000004065	-.0000000310
PCB_131	-.0000000921	-.0000000026	0.0000017823	0.0000001385	-.0000000083
PCB_132	-.0000005886	-.0000000193	-.0000045370	-.0000009914	-.0000000099
PCB_133	0.0000000035	-.0000000000	-.0000002347	0.0000000368	0.0000000025
PCB_136	0.0000001511	0.0000000028	-.0000031450	-.0000000759	0.0000000133
PCB_137	-.0000003671	-.0000000117	0.0000085653	0.0000008543	-.0000000342
PCB_141	-.0000008674	-.0000000236	0.0000094533	0.0000001128	-.0000000834
PCB_142	-.0000000010	-.0000000000	-.0000000180	-.0000000043	-.0000000001
PCB_144	-.0000002614	-.0000000085	0.0000024852	0.0000002823	-.0000000227

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_64	-.0000011816	-.0000400003	0.0000002751	0.0000000322	-.0000003219
PCB_66	-.0000007906	-.0000241269	0.0000004075	0.0000000473	-.0000002960
PCB_67	-.0000000367	-.0000011978	0.0000000102	0.0000000013	-.0000000098
PCB_68	-.0000001742	-.0000033488	0.0000000898	0.0000000107	-.0000000566
PCB_72	-.0000003298	-.0000076022	0.0000001290	0.0000000152	-.0000000964
PCB_77	-.0000000614	-.0000025938	0.0000000018	0.0000000001	-.0000000127
PCB_78	-.0000000146	-.0000010371	-.0000000045	-.0000000007	-.0000000045
PCB_79	-.0000000160	-.0000010048	0.0000000012	-.0000000006	-.0000000074
PCB_81	-.0000000109	-.0000004182	-.0000000016	-.0000000002	-.0000000011
PCB_82	0.0000006920	0.0000198608	-.0000001622	-.0000000175	0.0000001749
PCB_83	-.0000002007	-.0000060718	0.0000000803	0.0000000109	-.0000000570
PCB_84	-.0000002911	-.0000091144	0.0000000339	0.0000000101	-.0000000337
PCB_89	-.0000000116	-.0000007003	-.0000000062	-.0000000007	0.0000000001
PCB_92	-.0000006951	-.0000218071	0.0000003055	0.0000000370	-.0000002396
PCB_94	-.0000000442	-.0000011126	0.0000000221	0.0000000031	-.0000000139
PCB_95	-.0000033311	-.0000846792	0.0000005754	0.0000000776	-.0000006273
PCB_96	-.0000001008	-.0000027066	0.0000000283	0.0000000036	-.0000000255
PCB_99	0.0000010383	0.0000471564	0.0000004361	0.0000000542	0.0000000878
PCB_103	-.0000001375	-.0000035947	0.0000000516	0.0000000063	-.0000000397
PCB_104	-.0000000039	-.0000000783	0.0000000013	0.0000000002	-.0000000010
PCB_105	0.0000037646	0.0001173568	-.0000007383	-.0000000813	0.0000009102
PCB_109	0.0000003361	0.0000112284	0.0000000246	0.0000000033	0.0000000563
PCB_111	-.0000000153	-.0000002998	0.0000000080	0.0000000009	-.0000000051
PCB_114	0.0000003256	0.0000095017	-.0000000626	-.0000000069	0.0000000749
PCB_118	0.0000095017	0.0003483872	-.0000014458	-.0000001617	0.0000022752
PCB_120	-.0000000626	-.0000014458	0.0000000277	0.0000000030	-.0000000200
PCB_121	-.0000000069	-.0000001617	0.0000000030	0.0000000004	-.0000000021
PCB_122	0.0000000749	0.0000022752	-.0000000200	-.0000000021	0.0000000212
PCB_123	0.0000003362	0.0000094341	-.0000000514	-.0000000068	0.0000000575
PCB_126	0.0000000205	0.0000002888	-.0000000188	-.0000000020	0.0000000121
PCB_127	0.0000000203	0.0000008228	-.0000000025	-.0000000004	0.0000000044
PCB_130	0.0000005094	0.0000152524	-.0000001211	-.0000000142	0.0000001270
PCB_131	0.0000001481	0.0000045415	-.0000000330	-.0000000040	0.0000000361
PCB_132	-.0000006493	-.0000097720	-.0000000162	-.0000000139	-.0000000665
PCB_133	-.0000000195	-.0000006196	0.0000000090	0.0000000008	-.0000000065
PCB_136	-.0000002603	-.0000097118	0.0000000539	0.0000000069	-.0000000586
PCB_137	0.0000007451	0.0000206889	-.0000001389	-.0000000165	0.0000001631
PCB_141	0.0000007671	0.0000202920	-.0000002954	-.0000000375	0.0000002233
PCB_142	-.0000000016	-.0000000663	-.0000000003	-.0000000000	-.0000000002
PCB_144	0.0000002169	0.0000030470	-.0000000801	-.0000000098	0.0000000627

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_64	-.0000009227	-.0000002771	-.0000001024	-.0000022121	-.0000006830
PCB_66	-.0000002588	-.0000004417	-.0000000682	-.0000019541	-.0000005413
PCB_67	-.0000000323	-.0000000130	-.0000000036	-.0000000766	-.0000000241
PCB_68	-.0000001393	-.0000000825	-.0000000106	-.0000004086	-.0000001199
PCB_72	-.0000002855	-.0000001158	-.0000000205	-.0000006838	-.0000002049
PCB_77	-.0000000611	0.0000000063	-.0000000058	-.0000000837	-.0000000242
PCB_78	0.0000000070	0.0000000027	-.0000000016	-.0000000112	-.0000000036
PCB_79	0.0000000161	0.0000000060	0.0000000021	0.0000000132	0.0000000123
PCB_81	-.0000000154	0.0000000056	-.0000000006	-.0000000061	-.0000000008
PCB_82	0.0000006359	0.0000000982	0.0000000397	0.0000011308	0.0000003272
PCB_83	-.0000002426	-.0000001108	-.0000000226	-.0000004988	-.0000001686
PCB_84	-.0000006100	-.0000000642	-.0000000567	-.0000007480	-.0000002973
PCB_89	-.0000000214	0.0000000116	-.0000000016	-.0000000023	-.0000000003
PCB_92	-.0000005022	-.0000003233	-.0000000682	-.0000016757	-.0000005248
PCB_94	-.0000000348	-.0000000296	-.0000000066	-.0000001373	-.0000000456
PCB_95	-.0000044216	-.0000000955	-.0000002650	-.0000056613	-.0000017962
PCB_96	-.0000001035	-.0000000253	-.0000000087	-.0000002036	-.0000000653
PCB_99	0.0000003798	-.0000001080	0.0000000815	0.0000006214	0.0000002299
PCB_103	-.0000001222	-.0000000478	-.0000000115	-.0000003009	-.0000000921
PCB_104	-.0000000037	-.0000000010	-.0000000003	-.0000000083	-.0000000026
PCB_105	0.0000036518	0.0000002718	0.0000002628	0.0000060921	0.0000017823
PCB_109	0.0000002842	-.0000000314	0.0000000251	0.0000004065	0.0000001385
PCB_111	-.0000000137	-.0000000054	-.0000000005	-.0000000310	-.0000000083
PCB_114	0.0000003362	0.0000000205	0.0000000203	0.0000005094	0.0000001481
PCB_118	0.0000094341	0.0000002888	0.0000008228	0.0000152524	0.0000045415
PCB_120	-.0000000514	-.0000000188	-.0000000025	-.0000001211	-.0000000330
PCB_121	-.0000000068	-.0000000020	-.0000000004	-.0000000142	-.0000000040
PCB_122	0.0000000575	0.0000000121	0.0000000044	0.0000001270	0.0000000361
PCB_123	0.0000005391	-.0000000232	0.0000000244	0.0000005031	0.0000001530
PCB_126	-.0000000232	0.0000000328	-.0000000003	0.0000000622	0.0000000179
PCB_127	0.0000000244	-.0000000003	0.0000000028	0.0000000391	0.0000000127
PCB_130	0.0000005031	0.0000000622	0.0000000391	0.0000009038	0.0000002692
PCB_131	0.0000001530	0.0000000179	0.0000000127	0.0000002692	0.0000000831
PCB_132	-.0000007922	0.0000001072	0.0000000863	0.0000002666	0.0000002265
PCB_133	-.0000000134	-.0000000008	-.0000000001	-.0000000269	-.0000000026
PCB_136	-.0000003231	-.0000000330	-.0000000248	-.0000004534	-.0000001310
PCB_137	0.0000008052	0.0000000466	0.0000000528	0.0000012275	0.0000003713
PCB_141	0.0000007461	0.0000002687	0.0000000745	0.0000017780	0.0000005666
PCB_142	-.0000000023	0.0000000009	-.0000000001	-.0000000010	-.0000000002
PCB_144	0.0000001461	0.0000000965	0.0000000136	0.0000004930	0.0000001693

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_64	-.0000015524	0.0000000201	0.0000013005	-.0000028056	-.0000048700
PCB_66	-.0000037029	0.0000001465	0.0000013245	-.0000018262	-.0000056073
PCB_67	-.0000000964	-.0000000000	0.0000000558	-.0000000928	-.0000002073
PCB_68	-.0000008336	0.0000000126	0.0000001791	-.0000004697	-.0000013058
PCB_72	-.0000008646	0.0000000120	0.0000003053	-.0000008519	-.0000019351
PCB_77	0.0000002145	0.0000000055	0.0000000697	-.0000001221	-.0000000141
PCB_78	0.0000000924	-.0000000001	0.0000000058	-.0000000169	0.0000000685
PCB_79	0.0000006098	0.0000000161	0.0000000154	0.0000000379	0.0000002571
PCB_81	0.0000001367	0.0000000023	0.0000000085	-.0000000174	0.0000000526
PCB_82	-.0000011875	-.0000000435	-.0000005810	0.0000015600	0.0000019842
PCB_83	-.0000013337	-.0000000190	0.0000003808	-.0000005609	-.0000018014
PCB_84	-.0000038551	-.0000001106	0.0000004684	-.0000011510	-.0000028547
PCB_89	0.0000001462	0.0000000017	0.0000000125	-.0000000178	0.0000000981
PCB_92	-.0000047111	0.0000000111	0.0000009002	-.0000017864	-.0000052416
PCB_94	-.0000006631	-.0000000047	0.0000000711	-.0000001577	-.0000005264
PCB_95	-.0000024970	-.0000000819	0.0000023150	-.0000091209	-.0000116716
PCB_96	-.0000003605	-.0000000040	0.0000000911	-.0000002772	-.0000005566
PCB_99	-.0000123939	0.0000001450	-.0000009699	0.0000021867	-.0000037694
PCB_103	-.0000005886	0.0000000035	0.0000001511	-.0000003671	-.0000008674
PCB_104	-.0000000193	-.0000000000	0.0000000028	-.0000000117	-.0000000236
PCB_105	-.0000045370	-.0000002347	-.0000031450	0.0000085653	0.0000094533
PCB_109	-.0000009914	0.0000000368	-.0000000759	0.0000008543	0.0000001128
PCB_111	-.0000000099	0.0000000025	0.0000000133	-.0000000342	-.0000000834
PCB_114	-.0000006493	-.0000000195	-.0000002603	0.0000007451	0.0000007671
PCB_118	-.0000097720	-.0000006196	-.0000097118	0.0000206889	0.0000202920
PCB_120	-.0000000162	0.0000000090	0.0000000539	-.0000001389	-.0000002954
PCB_121	-.0000000139	0.0000000008	0.0000000069	-.0000000165	-.0000000375
PCB_122	-.0000000665	-.0000000065	-.0000000586	0.0000001631	0.0000002233
PCB_123	-.0000007922	-.0000000134	-.0000003231	0.0000008052	0.0000007461
PCB_126	0.0000001072	-.0000000008	-.0000000330	0.0000000466	0.0000002687
PCB_127	0.0000000863	-.0000000001	-.0000000248	0.0000000528	0.0000000745
PCB_130	0.0000002666	-.0000000269	-.0000004534	0.0000012275	0.0000017780
PCB_131	0.0000002265	-.0000000026	-.0000001310	0.0000003713	0.0000005666
PCB_132	0.0000209874	0.0000002098	0.0000005305	-.0000003299	0.0000051443
PCB_133	0.0000002098	0.0000000122	0.0000000330	-.0000000161	0.0000000168
PCB_136	0.0000005305	0.0000000330	0.0000004796	-.0000005351	-.0000007870
PCB_137	-.0000003299	-.0000000161	-.0000005351	0.0000018634	0.0000021867
PCB_141	0.0000051443	0.0000000168	-.0000007870	0.0000021867	0.0000055093
PCB_142	0.0000000169	0.0000000002	0.0000000011	-.0000000028	0.0000000072
PCB_144	0.0000018064	0.0000000467	0.0000000205	0.0000007450	0.0000017597

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_64	-.0000000003	-.0000013728	-.0000000055	-.0000020847	0.0000000178
PCB_66	-.0000000089	-.0000011576	-.0000000019	-.0000020856	0.0000000374
PCB_67	-.0000000002	-.0000000538	-.0000000002	-.0000001161	0.0000000008
PCB_68	-.0000000023	-.0000004051	-.0000000008	-.0000007284	0.0000000055
PCB_72	-.0000000024	-.0000006285	-.0000000017	-.0000010458	0.0000000070
PCB_77	0.0000000009	0.0000000302	-.0000000001	0.0000001035	0.0000000005
PCB_78	0.0000000004	0.0000000204	-.0000000001	0.0000000911	-.0000000004
PCB_79	0.0000000008	0.0000001233	0.0000000002	0.0000003597	0.0000000005
PCB_81	0.0000000003	0.0000000245	0.0000000000	0.0000000655	-.0000000001
PCB_82	-.0000000018	0.0000005842	0.0000000026	0.0000004441	-.0000000080
PCB_83	-.0000000031	-.0000005041	-.0000000012	-.0000013168	0.0000000063
PCB_84	-.0000000031	-.0000009891	-.0000000026	-.0000028732	0.0000000013
PCB_89	0.0000000006	0.0000000457	0.0000000001	0.0000000973	-.0000000002
PCB_92	-.0000000079	-.0000014906	-.0000000041	-.0000030126	0.0000000213
PCB_94	-.0000000010	-.0000001659	-.0000000003	-.0000003899	0.0000000016
PCB_95	0.0000000095	-.0000042694	-.0000000147	-.0000069960	0.0000000136
PCB_96	-.0000000004	-.0000001918	-.0000000006	-.0000003534	0.0000000013
PCB_99	-.0000000254	-.0000006293	0.0000000052	-.0000034002	0.0000000351
PCB_103	-.0000000010	-.0000002614	-.0000000007	-.0000004905	0.0000000033
PCB_104	-.0000000000	-.0000000085	-.0000000000	-.0000000148	0.0000000001
PCB_105	-.0000000180	0.0000024852	0.0000000128	0.0000014110	-.0000000393
PCB_109	-.0000000043	0.0000002823	0.0000000023	-.0000000435	0.0000000070
PCB_111	-.0000000001	-.0000000227	-.0000000000	-.0000000299	0.0000000005
PCB_114	-.0000000016	0.0000002169	0.0000000011	0.0000001140	-.0000000029
PCB_118	-.0000000663	0.0000030470	0.0000000272	-.0000000703	-.0000001108
PCB_120	-.0000000003	-.0000000801	-.0000000002	-.0000000913	0.0000000017
PCB_121	-.0000000000	-.0000000098	-.0000000000	-.0000000159	0.0000000002
PCB_122	-.0000000002	0.0000000627	0.0000000003	0.0000000308	-.0000000011
PCB_123	-.0000000023	0.0000001461	0.0000000006	0.0000002574	-.0000000028
PCB_126	0.0000000009	0.0000000965	0.0000000002	0.0000001537	-.0000000011
PCB_127	-.0000000001	0.0000000136	0.0000000001	0.0000000343	-.0000000003
PCB_130	-.0000000010	0.0000004930	0.0000000019	0.0000006246	-.0000000070
PCB_131	-.0000000002	0.0000001693	0.0000000006	0.0000002587	-.0000000018
PCB_132	0.0000000169	0.0000018064	0.0000000032	0.0000058550	-.0000000060
PCB_133	0.0000000002	0.0000000467	0.0000000002	0.0000001241	0.0000000011
PCB_136	0.0000000011	0.0000000205	0.0000000001	-.0000001085	0.0000000074
PCB_137	-.0000000028	0.0000007450	0.0000000030	0.0000008434	-.0000000049
PCB_141	0.0000000072	0.0000017597	0.0000000046	0.0000035315	-.0000000172
PCB_142	0.0000000000	0.0000000031	0.0000000000	0.0000000085	-.0000000000
PCB_144	0.0000000031	0.0000008849	0.0000000027	0.0000014492	0.0000000010

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_64	0.0000000203	0.0000000127	0.0000000355	0.0000000003	-.0000047420
PCB_66	0.0000000425	0.0000000275	0.0000001697	-.0000000066	-.0000038247
PCB_67	0.0000000010	0.0000000008	0.0000000020	-.0000000001	-.0000001668
PCB_68	0.0000000078	0.0000000055	0.0000000179	-.0000000018	-.0000008611
PCB_72	0.0000000102	0.0000000069	0.0000000164	-.0000000018	-.0000014566
PCB_77	-.0000000000	-.0000000002	0.0000000006	0.0000000008	-.0000001598
PCB_78	-.0000000008	-.0000000007	-.0000000011	0.0000000003	-.0000000224
PCB_79	-.0000000001	-.0000000011	0.0000000051	0.0000000007	0.0000001010
PCB_81	-.0000000002	-.0000000002	-.0000000005	0.0000000003	-.0000000036
PCB_82	-.0000000100	-.0000000046	-.0000000088	-.0000000020	0.0000022709
PCB_83	0.0000000090	0.0000000067	0.0000000112	-.0000000024	-.0000011449
PCB_84	0.0000000047	0.0000000100	-.0000000354	-.0000000026	-.0000020853
PCB_89	-.0000000006	-.0000000004	-.0000000012	0.0000000005	0.0000000021
PCB_92	0.0000000278	0.0000000179	0.0000000692	-.0000000061	-.0000036598
PCB_94	0.0000000023	0.0000000023	0.0000000049	-.0000000008	-.0000003316
PCB_95	0.0000000274	0.0000000342	-.0000001490	0.0000000094	-.0000128033
PCB_96	0.0000000020	0.0000000017	-.0000000000	-.0000000003	-.0000004637
PCB_99	0.0000000555	0.0000000289	0.0000002053	-.0000000204	0.0000016336
PCB_103	0.0000000044	0.0000000033	0.0000000087	-.0000000008	-.0000006540
PCB_104	0.0000000001	0.0000000001	0.0000000001	-.0000000000	-.0000000190
PCB_105	-.0000000423	-.0000000197	-.0000000394	-.0000000175	0.0000123689
PCB_109	0.0000000088	0.0000000045	0.0000000491	-.0000000034	0.0000010119
PCB_111	0.0000000007	0.0000000003	0.0000000017	-.0000000001	-.0000000581
PCB_114	-.0000000034	-.0000000016	0.0000000004	-.0000000016	0.0000010283
PCB_118	-.0000000925	-.0000000319	-.0000001860	-.0000000624	0.0000307924
PCB_120	0.0000000022	0.0000000011	0.0000000058	-.0000000002	-.0000002303
PCB_121	0.0000000003	0.0000000002	0.0000000006	-.0000000000	-.0000000281
PCB_122	-.0000000012	-.0000000005	-.0000000027	-.0000000002	0.0000002511
PCB_123	-.0000000038	-.0000000024	0.0000000095	-.0000000023	0.0000010275
PCB_126	-.0000000016	-.0000000009	-.0000000047	0.0000000007	0.0000001287
PCB_127	-.0000000002	-.0000000002	-.0000000005	-.0000000001	0.0000000877
PCB_130	-.0000000083	-.0000000053	-.0000000120	-.0000000012	0.0000018863
PCB_131	-.0000000022	-.0000000016	-.0000000014	-.0000000003	0.0000005833
PCB_132	-.0000000084	-.0000000209	-.0000000645	0.0000000159	0.0000019036
PCB_133	0.0000000011	0.0000000003	0.0000000062	0.0000000002	-.0000000123
PCB_136	0.0000000074	0.0000000042	0.0000000229	0.0000000013	-.0000008451
PCB_137	-.0000000067	-.0000000054	0.0000000130	-.0000000027	0.0000026313
PCB_141	-.0000000248	-.0000000196	-.0000000379	0.0000000057	0.0000040322
PCB_142	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000012
PCB_144	-.0000000024	-.0000000038	0.0000000208	0.0000000028	0.0000012793

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_64	0.0000000007	-.0000000003	-.0000001352	-.0000026259	0.0000000117
PCB_66	-.0000001551	-.0000000089	-.0000003810	-.0000029318	0.0000000292
PCB_67	-.0000000035	-.0000000002	-.0000000082	-.0000001063	-.0000000000
PCB_68	-.0000000511	-.0000000023	-.0000000848	-.0000006540	0.0000000102
PCB_72	-.0000000577	-.0000000024	-.0000001036	-.0000009800	0.0000000140
PCB_77	0.0000000172	0.0000000009	0.0000000100	-.0000000236	-.0000000005
PCB_78	0.0000000110	0.0000000004	0.0000000111	0.0000000218	-.0000000009
PCB_79	0.0000000195	0.0000000008	0.0000000178	0.0000001200	0.0000000007
PCB_81	0.0000000058	0.0000000003	0.0000000046	0.0000000236	0.0000000000
PCB_82	-.0000000209	-.0000000018	0.0000000503	0.0000010646	-.0000000189
PCB_83	-.0000000611	-.0000000031	-.0000000728	-.0000008733	-.0000000020
PCB_84	-.0000000861	-.0000000031	-.0000000961	-.0000014076	-.0000000124
PCB_89	0.0000000106	0.0000000006	0.0000000094	0.0000000430	-.0000000007
PCB_92	-.0000001460	-.0000000079	-.0000002498	-.0000026901	0.0000000187
PCB_94	-.0000000208	-.0000000010	-.0000000326	-.0000002679	0.0000000009
PCB_95	-.0000000371	0.0000000095	-.0000003975	-.0000061217	0.0000000871
PCB_96	-.0000000120	-.0000000004	-.0000000234	-.0000002867	0.0000000024
PCB_99	-.0000005433	-.0000000254	-.0000005605	-.0000014790	0.0000000889
PCB_103	-.0000000237	-.0000000010	-.0000000462	-.0000004444	0.0000000046
PCB_104	-.0000000007	-.0000000000	-.0000000015	-.0000000123	0.0000000002
PCB_105	-.0000002733	-.0000000180	0.0000001661	0.0000053114	-.0000000901
PCB_109	-.0000000761	-.0000000043	-.0000000643	0.0000001568	0.0000000008
PCB_111	-.0000000029	-.0000000001	-.0000000053	-.0000000412	0.0000000011
PCB_114	-.0000000215	-.0000000016	0.0000000131	0.0000004226	-.0000000083
PCB_118	-.0000012591	-.0000000663	-.0000001736	0.0000120085	-.0000000950
PCB_120	-.0000000075	-.0000000003	-.0000000172	-.0000001501	0.0000000037
PCB_121	-.0000000011	-.0000000000	-.0000000022	-.0000000189	0.0000000004
PCB_122	-.0000000026	-.0000000002	0.0000000065	0.0000001236	-.0000000025
PCB_123	-.0000000228	-.0000000023	0.0000000026	0.0000003734	-.0000000064
PCB_126	0.0000000143	0.0000000009	0.0000000166	0.0000001316	-.0000000010
PCB_127	-.0000000019	-.0000000001	0.0000000016	0.0000000428	0.0000000000
PCB_130	-.0000000061	-.0000000010	0.0000000632	0.0000009622	-.0000000139
PCB_131	-.0000000002	-.0000000002	0.0000000183	0.0000003052	-.0000000034
PCB_132	0.0000003024	0.0000000169	0.0000004022	0.0000028220	0.0000000088
PCB_133	0.0000000044	0.0000000002	-.0000000022	0.0000000060	0.0000000014
PCB_136	0.0000000198	0.0000000011	-.0000000150	-.0000004029	-.0000000021
PCB_137	-.0000000231	-.0000000028	0.0000000635	0.0000011915	-.0000000200
PCB_141	0.0000001639	0.0000000072	0.0000002836	0.0000028208	-.0000000262
PCB_142	0.0000000009	0.0000000000	0.0000000007	0.0000000031	-.0000000000
PCB_144	0.0000000738	0.0000000031	0.0000000908	0.0000009032	-.0000000125

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_64	-.0000025354	0.0000000026	-.0000041245	-.0000007122	-.0000002445
PCB_66	-.0000022921	-.0000000043	-.0000056618	-.0000011495	-.0000040451
PCB_67	-.0000000947	-.0000000001	-.0000002056	-.0000000405	-.0000000831
PCB_68	-.0000004492	-.0000000016	-.0000013262	-.0000003205	-.0000010916
PCB_72	-.0000007501	-.0000000014	-.0000018738	-.0000004329	-.0000012043
PCB_77	-.0000000911	0.0000000010	0.0000000941	0.0000000581	0.0000003657
PCB_78	-.0000000115	0.0000000005	0.0000001106	0.0000000358	0.0000002091
PCB_79	0.0000000358	0.0000000011	0.0000003141	0.0000001024	0.0000003640
PCB_81	-.0000000040	0.0000000004	0.0000000835	0.0000000294	0.0000001353
PCB_82	0.0000011897	-.0000000038	0.0000014101	0.0000001718	-.0000005629
PCB_83	-.0000006220	-.0000000033	-.0000019795	-.0000004609	-.0000014027
PCB_84	-.0000010074	-.0000000049	-.0000028682	-.0000006980	-.0000015308
PCB_89	-.0000000007	0.0000000006	0.0000001517	0.0000000517	0.0000002398
PCB_92	-.0000018817	-.0000000064	-.0000051946	-.0000011984	-.0000036197
PCB_94	-.0000001755	-.0000000009	-.0000005555	-.0000001386	-.0000004486
PCB_95	-.0000061704	0.0000000138	-.0000080976	-.0000013662	0.0000022604
PCB_96	-.0000002311	-.0000000003	-.0000005097	-.0000001151	-.0000002291
PCB_99	0.0000014915	-.0000000292	-.0000047884	-.0000017405	-.0000123921
PCB_103	-.0000003408	-.0000000007	-.0000008302	-.0000001859	-.0000005070
PCB_104	-.0000000095	-.0000000000	-.0000000214	-.0000000051	-.0000000125
PCB_105	0.0000063585	-.0000000282	0.0000051453	0.0000001356	-.0000065915
PCB_109	0.0000004760	-.0000000050	-.0000003995	-.0000001601	-.0000019142
PCB_111	-.0000000294	-.0000000001	-.0000000787	-.0000000175	-.0000000639
PCB_114	0.0000005303	-.0000000025	0.0000004162	0.0000000087	-.0000005772
PCB_118	0.0000161349	-.0000000870	0.0000075668	-.0000019179	-.0000265337
PCB_120	-.0000001183	-.0000000001	-.0000002641	-.0000000545	-.0000001694
PCB_121	-.0000000144	-.0000000000	-.0000000341	-.0000000071	-.0000000226
PCB_122	0.0000001285	-.0000000004	0.0000001509	0.0000000186	-.0000000491
PCB_123	0.0000005095	-.0000000024	0.0000003290	-.0000000401	-.0000007551
PCB_126	0.0000000806	0.0000000007	0.0000003499	0.0000000949	0.0000003531
PCB_127	0.0000000443	-.0000000001	0.0000000411	0.0000000015	-.0000000422
PCB_130	0.0000009641	-.0000000023	0.0000012636	0.0000001769	-.0000002326
PCB_131	0.0000002917	-.0000000005	0.0000004178	0.0000000678	-.0000000375
PCB_132	0.0000004587	0.0000000204	0.0000052511	0.0000017420	0.0000072854
PCB_133	-.0000000191	0.0000000004	0.0000000497	0.0000000306	0.0000000788
PCB_136	-.0000005317	0.0000000014	-.0000006033	0.0000000059	0.0000003656
PCB_137	0.0000013145	-.0000000046	0.0000013792	0.0000001678	-.0000009127
PCB_141	0.0000019971	0.0000000058	0.0000052621	0.0000012463	0.0000034914
PCB_142	-.0000000007	0.0000000001	0.0000000119	0.0000000041	0.0000000200
PCB_144	0.0000005561	0.0000000026	0.0000017779	0.0000005344	0.0000014071

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_64	-.0000000436	0.0000000322	-.0000002829	0.0000002029	0.0000004836
PCB_66	-.0000002057	-.0000004333	-.0000028552	-.0000010313	-.0000012099
PCB_67	-.0000000055	-.0000000094	-.0000000638	-.0000000194	-.0000000172
PCB_68	-.0000000602	-.0000001418	-.0000007918	-.0000003125	-.0000004026
PCB_72	-.0000000711	-.0000001540	-.0000008949	-.0000003184	-.0000003916
PCB_77	0.0000000182	0.0000000566	0.0000002601	0.0000001418	0.0000002013
PCB_78	0.0000000107	0.0000000308	0.0000001491	0.0000000721	0.0000001012
PCB_79	0.0000000213	0.0000000601	0.0000002639	0.0000001342	0.0000001813
PCB_81	0.0000000071	0.0000000201	0.0000000967	0.0000000496	0.0000000677
PCB_82	-.0000000151	-.0000001175	-.0000003326	-.0000003691	-.0000005747
PCB_83	-.0000000838	-.0000001939	-.0000010454	-.0000004380	-.0000005402
PCB_84	-.0000001096	-.0000002591	-.0000011671	-.0000005024	-.0000006047
PCB_89	0.0000000125	0.0000000347	0.0000001727	0.0000000853	0.0000001165
PCB_92	-.0000002076	-.0000004659	-.0000026270	-.0000010221	-.0000012688
PCB_94	-.0000000253	-.0000000620	-.0000003229	-.0000001395	-.0000001761
PCB_95	-.0000000046	0.0000002978	0.0000012492	0.0000015377	0.0000023604
PCB_96	-.0000000158	-.0000000313	-.0000001758	-.0000000552	-.0000000611
PCB_99	-.0000005996	-.0000017653	-.0000085112	-.0000041054	-.0000060220
PCB_103	-.0000000300	-.0000000643	-.0000003724	-.0000001320	-.0000001585
PCB_104	-.0000000008	-.0000000017	-.0000000091	-.0000000031	-.0000000038
PCB_105	-.0000002691	-.0000011324	-.0000044594	-.0000032685	-.0000048061
PCB_109	-.0000000847	-.0000002584	-.0000013076	-.0000006751	-.0000009624
PCB_111	-.0000000034	-.0000000076	-.0000000464	-.0000000159	-.0000000211
PCB_114	-.0000000232	-.0000000969	-.0000003838	-.0000002814	-.0000004121
PCB_118	-.0000012031	-.0000043500	-.0000185554	-.0000117099	-.0000170077
PCB_120	-.0000000093	-.0000000182	-.0000001240	-.0000000354	-.0000000445
PCB_121	-.0000000013	-.0000000026	-.0000000164	-.0000000052	-.0000000066
PCB_122	-.0000000015	-.0000000122	-.0000000306	-.0000000382	-.0000000586
PCB_123	-.0000000292	-.0000001125	-.0000005040	-.0000003473	-.0000004896
PCB_126	0.0000000188	0.0000000464	0.0000002596	0.0000001175	0.0000001499
PCB_127	-.0000000016	-.0000000068	-.0000000307	-.0000000208	-.0000000311
PCB_130	-.0000000013	-.0000000589	-.0000001373	-.0000002251	-.0000003586
PCB_131	0.0000000021	-.0000000104	-.0000000169	-.0000000522	-.0000000871
PCB_132	0.0000003850	0.0000011181	0.0000049104	0.0000025422	0.0000035113
PCB_133	0.0000000056	0.0000000177	0.0000000610	0.0000000409	0.0000000559
PCB_136	0.0000000157	0.0000000811	0.0000002468	0.0000002128	0.0000003412
PCB_137	-.0000000274	-.0000001482	-.0000005849	-.0000004951	-.0000007416
PCB_141	0.0000002083	0.0000004733	0.0000025487	0.0000009710	0.0000012155
PCB_142	0.0000000010	0.0000000029	0.0000000143	0.0000000073	0.0000000099
PCB_144	0.0000000873	0.0000002188	0.0000010547	0.0000004620	0.0000006065

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_64	-.0000001168	-.0000000438	-.0000000019	-.0000000012	0.0000013639
PCB_66	-.0000001095	-.0000000636	-.0000000074	-.0000000086	-.0000111718
PCB_67	-.0000000047	-.0000000017	-.0000000002	-.0000000002	-.0000002485
PCB_68	-.0000000235	-.0000000091	-.0000000019	-.0000000022	-.0000035443
PCB_72	-.0000000382	-.0000000126	-.0000000022	-.0000000024	-.0000037676
PCB_77	-.0000000028	-.0000000014	0.0000000005	0.0000000007	0.0000014745
PCB_78	0.0000000002	-.0000000003	0.0000000003	0.0000000004	0.0000008152
PCB_79	0.0000000027	0.0000000006	0.0000000006	0.0000000007	0.0000015576
PCB_81	0.0000000003	0.0000000002	0.0000000002	0.0000000003	0.0000005144
PCB_82	0.0000000536	0.0000000148	-.0000000004	-.0000000010	-.0000033529
PCB_83	-.0000000351	-.0000000097	-.0000000025	-.0000000029	-.0000049460
PCB_84	-.0000000521	-.0000000127	-.0000000029	-.0000000028	-.0000065958
PCB_89	0.0000000009	0.0000000002	0.0000000004	0.0000000005	0.0000008906
PCB_92	-.0000000966	-.0000000411	-.0000000064	-.0000000076	-.0000111705
PCB_94	-.0000000089	-.0000000042	-.0000000008	-.0000000009	-.0000015943
PCB_95	-.0000002696	-.0000000637	0.0000000016	0.0000000061	0.0000092033
PCB_96	-.0000000113	-.0000000035	-.0000000005	-.0000000005	-.0000007417
PCB_99	0.0000000393	-.0000000091	-.0000000153	-.0000000222	-.0000422561
PCB_103	-.0000000168	-.0000000066	-.0000000009	-.0000000010	-.0000015801
PCB_104	-.0000000004	-.0000000002	-.0000000000	-.0000000000	-.0000000422
PCB_105	0.0000002644	0.0000000892	-.0000000081	-.0000000125	-.0000314273
PCB_109	0.0000000162	0.0000000010	-.0000000025	-.0000000036	-.0000067037
PCB_111	-.0000000016	-.0000000005	-.0000000001	-.0000000001	-.0000001771
PCB_114	0.0000000224	0.0000000061	-.0000000007	-.0000000011	-.0000026446
PCB_118	0.0000006328	0.0000002540	-.0000000358	-.0000000501	-.0001184953
PCB_120	-.0000000059	-.0000000021	-.0000000003	-.0000000003	-.0000004053
PCB_121	-.0000000007	-.0000000003	-.0000000000	-.0000000000	-.0000000613
PCB_122	0.0000000057	0.0000000021	-.0000000000	-.0000000001	-.0000003781
PCB_123	0.0000000217	0.0000000023	-.0000000012	-.0000000017	-.0000030640
PCB_126	0.0000000052	0.0000000017	0.0000000006	0.0000000008	0.0000012144
PCB_127	0.0000000017	0.0000000010	-.0000000001	-.0000000001	-.0000001927
PCB_130	0.0000000419	0.0000000156	-.0000000000	-.0000000004	-.0000018437
PCB_131	0.0000000128	0.0000000046	0.0000000000	-.0000000001	-.0000003775
PCB_132	0.0000000192	0.0000000622	0.0000000112	0.0000000142	0.0000268122
PCB_133	-.0000000003	-.0000000008	0.0000000001	0.0000000002	0.0000004544
PCB_136	-.0000000234	-.0000000087	0.0000000004	0.0000000007	0.0000020062
PCB_137	0.0000000559	0.0000000161	-.0000000009	-.0000000019	-.0000041653
PCB_141	0.0000000997	0.0000000392	0.0000000062	0.0000000069	0.0000114162
PCB_142	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000754
PCB_144	0.0000000303	0.0000000074	0.0000000026	0.0000000029	0.0000053505

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_64	-.0000000016	-.0000001677	-.0000004635	-.0000002099	0.0000025134
PCB_66	-.0000000089	-.0000001878	-.0000007518	-.0000002520	0.0000005518
PCB_67	-.0000000002	-.0000000078	-.0000000273	-.0000000099	0.0000000704
PCB_68	-.0000000023	-.0000000458	-.0000001888	-.0000000699	0.0000003835
PCB_72	-.0000000026	-.0000000681	-.0000002571	-.0000001007	0.0000007711
PCB_77	0.0000000008	0.0000000002	0.0000000280	0.0000000077	0.0000000173
PCB_78	0.0000000004	0.0000000033	0.0000000217	0.0000000053	0.0000000494
PCB_79	0.0000000008	0.0000000116	0.0000000535	0.0000000206	-.0000001542
PCB_81	0.0000000003	0.0000000020	0.0000000152	0.0000000053	-.0000000235
PCB_82	-.0000000010	0.0000000662	0.0000001316	0.0000000684	-.0000010595
PCB_83	-.0000000032	-.0000000684	-.0000002869	-.0000001006	0.0000005531
PCB_84	-.0000000035	-.0000001191	-.0000004043	-.0000001640	0.0000014870
PCB_89	0.0000000005	0.0000000036	0.0000000279	0.0000000093	-.0000000361
PCB_92	-.0000000081	-.0000001774	-.0000006922	-.0000002750	0.0000018643
PCB_94	-.0000000010	-.0000000197	-.0000000804	-.0000000301	0.0000001856
PCB_95	0.0000000055	-.0000004471	-.0000008287	-.0000004680	0.0000073162
PCB_96	-.0000000005	-.0000000203	-.0000000667	-.0000000288	0.0000002934
PCB_99	-.0000000216	-.0000000853	-.0000007707	-.0000002588	-.0000029457
PCB_103	-.0000000011	-.0000000308	-.0000001110	-.0000000436	0.0000003141
PCB_104	-.0000000000	-.0000000009	-.0000000029	-.0000000012	0.0000000110
PCB_105	-.0000000135	0.0000003033	0.0000002122	0.0000002329	-.0000053011
PCB_109	-.0000000036	0.0000000068	-.0000000996	-.0000000030	-.0000012428
PCB_111	-.0000000001	-.0000000026	-.0000000105	-.0000000039	0.0000000149
PCB_114	-.0000000012	0.0000000257	0.0000000197	0.0000000186	-.0000004423
PCB_118	-.0000000545	0.0000006071	-.0000006518	0.0000001782	-.0000101646
PCB_120	-.0000000003	-.0000000093	-.0000000331	-.0000000130	0.0000000714
PCB_121	-.0000000000	-.0000000012	-.0000000043	-.0000000017	0.0000000079
PCB_122	-.0000000001	0.0000000066	0.0000000122	0.0000000076	-.0000001185
PCB_123	-.0000000018	0.0000000285	0.0000000007	0.0000000082	-.0000002080
PCB_126	0.0000000009	0.0000000096	0.0000000574	0.0000000190	-.0000001116
PCB_127	-.0000000001	0.0000000025	0.0000000012	0.0000000018	-.0000000296
PCB_130	-.0000000005	0.0000000597	0.0000001162	0.0000000627	-.0000008151
PCB_131	-.0000000001	0.0000000195	0.0000000410	0.0000000222	-.0000002956
PCB_132	0.0000000146	0.0000001662	0.0000007180	0.0000003614	-.0000024620
PCB_133	0.0000000002	0.0000000017	0.0000000124	0.0000000064	-.0000001171
PCB_136	0.0000000007	-.0000000289	-.0000000466	-.0000000079	-.0000002057
PCB_137	-.0000000019	0.0000000779	0.0000001135	0.0000000756	-.0000014132
PCB_141	0.0000000075	0.0000001947	0.0000007046	0.0000002909	-.0000022790
PCB_142	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000018
PCB_144	0.0000000033	0.0000000648	0.0000002702	0.0000001234	-.0000015095

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_64	-.0000002569	-.0000000719	-.0000001072	0.0000000368	0.0000000164
PCB_66	-.0000007509	-.0000004265	-.0000006327	-.0000002713	-.0000004308
PCB_67	-.0000000232	-.0000000119	-.0000000180	-.0000000052	-.0000000086
PCB_68	-.0000002063	-.0000001280	-.0000001859	-.0000000788	-.0000001158
PCB_72	-.0000002506	-.0000001484	-.0000002148	-.0000000812	-.0000001222
PCB_77	0.0000000530	0.0000000420	0.0000000625	0.0000000338	0.0000000458
PCB_78	0.0000000345	0.0000000247	0.0000000356	0.0000000176	0.0000000239
PCB_79	0.0000000772	0.0000000516	0.0000000763	0.0000000323	0.0000000430
PCB_81	0.0000000228	0.0000000162	0.0000000242	0.0000000120	0.0000000166
PCB_82	-.0000000223	-.0000000579	-.0000000932	-.0000000840	-.0000001013
PCB_83	-.0000003140	-.0000001902	-.0000002805	-.0000001099	-.0000001586
PCB_84	-.0000004701	-.0000002711	-.0000003972	-.0000001250	-.0000001664
PCB_89	0.0000000385	0.0000000277	0.0000000413	0.0000000206	0.0000000290
PCB_92	-.0000007596	-.0000004481	-.0000006523	-.0000002615	-.0000003881
PCB_94	-.0000000940	-.0000000575	-.0000000852	-.0000000349	-.0000000502
PCB_95	-.0000003338	0.0000000229	0.0000001038	0.0000003525	0.0000004882
PCB_96	-.0000000621	-.0000000340	-.0000000491	-.0000000143	-.0000000216
PCB_99	-.0000018472	-.0000013330	-.0000018548	-.0000010201	-.0000013748
PCB_103	-.0000001117	-.0000000641	-.0000000929	-.0000000341	-.0000000513
PCB_104	-.0000000029	-.0000000016	-.0000000024	-.0000000008	-.0000000012
PCB_105	-.0000006574	-.0000007165	-.0000011139	-.0000007590	-.0000009871
PCB_109	-.0000002566	-.0000001940	-.0000002800	-.0000001670	-.0000002306
PCB_111	-.0000000109	-.0000000067	-.0000000094	-.0000000041	-.0000000062
PCB_114	-.0000000595	-.0000000618	-.0000000961	-.0000000658	-.0000000862
PCB_118	-.0000030728	-.0000029200	-.0000044534	-.0000027328	-.0000036283
PCB_120	-.0000000303	-.0000000174	-.0000000238	-.0000000096	-.0000000152
PCB_121	-.0000000044	-.0000000025	-.0000000035	-.0000000014	-.0000000021
PCB_122	-.0000000027	-.0000000065	-.0000000107	-.0000000085	-.0000000099
PCB_123	-.0000000645	-.0000000693	-.0000001145	-.0000000809	-.0000001139
PCB_126	0.0000000597	0.0000000402	0.0000000613	0.0000000287	0.0000000427
PCB_127	-.0000000014	-.0000000036	-.0000000058	-.0000000047	-.0000000064
PCB_130	0.0000000343	-.0000000164	-.0000000328	-.0000000490	-.0000000586
PCB_131	0.0000000207	0.0000000018	0.0000000001	-.0000000111	-.0000000133
PCB_132	0.0000014311	0.0000009233	0.0000013476	0.0000006287	0.0000008485
PCB_133	0.0000000196	0.0000000146	0.0000000225	0.0000000092	0.0000000115
PCB_136	0.0000000128	0.0000000379	0.0000000593	0.0000000464	0.0000000567
PCB_137	-.0000000388	-.0000000784	-.0000001266	-.0000001151	-.0000001514
PCB_141	0.0000007742	0.0000004549	0.0000006571	0.0000002475	0.0000003599
PCB_142	0.0000000033	0.0000000023	0.0000000035	0.0000000018	0.0000000025
PCB_144	0.0000002929	0.0000001908	0.0000002822	0.0000001111	0.0000001564

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_64	-.0000001403	-.0000000002	-.0000000002	-.0000000105	-.0000000028
PCB_66	-.0000012381	-.0000000087	-.0000000587	-.0000006282	-.0000000763
PCB_67	-.0000000325	-.0000000002	-.0000000015	-.0000000129	-.0000000016
PCB_68	-.0000003609	-.0000000023	-.0000000181	-.0000001559	-.0000000189
PCB_72	-.0000004098	-.0000000024	-.0000000199	-.0000001654	-.0000000202
PCB_77	0.0000001247	0.0000000008	0.0000000068	0.0000000557	0.0000000067
PCB_78	0.0000000711	0.0000000004	0.0000000039	0.0000000316	0.0000000037
PCB_79	0.0000001449	0.0000000008	0.0000000077	0.0000000527	0.0000000064
PCB_81	0.0000000470	0.0000000003	0.0000000025	0.0000000206	0.0000000025
PCB_82	-.0000001990	-.0000000017	-.0000000133	-.0000001123	-.0000000133
PCB_83	-.0000005204	-.0000000030	-.0000000264	-.0000002131	-.0000000259
PCB_84	-.0000007087	-.0000000030	-.0000000366	-.0000002138	-.0000000264
PCB_89	0.0000000811	0.0000000005	0.0000000042	0.0000000362	0.0000000044
PCB_92	-.0000012188	-.0000000077	-.0000000602	-.0000005205	-.0000000642
PCB_94	-.0000001624	-.0000000010	-.0000000081	-.0000000665	-.0000000081
PCB_95	0.0000003526	0.0000000089	0.0000000264	0.0000005791	0.0000000692
PCB_96	-.0000000894	-.0000000004	-.0000000042	-.0000000289	-.0000000036
PCB_99	-.0000036674	-.0000000256	-.0000002095	-.0000017760	-.0000002137
PCB_103	-.0000001755	-.0000000010	-.0000000085	-.0000000708	-.0000000087
PCB_104	-.0000000046	-.0000000000	-.0000000002	-.0000000016	-.0000000002
PCB_105	-.0000022901	-.0000000174	-.0000001341	-.0000011627	-.0000001382
PCB_109	-.0000005655	-.0000000043	-.0000000323	-.0000003101	-.0000000369
PCB_111	-.0000000184	-.0000000001	-.0000000009	-.0000000087	-.0000000010
PCB_114	-.0000001957	-.0000000015	-.0000000114	-.0000001018	-.0000000122
PCB_118	-.0000091666	-.0000000651	-.0000005139	-.0000043087	-.0000005118
PCB_120	-.0000000466	-.0000000003	-.0000000023	-.0000000222	-.0000000027
PCB_121	-.0000000068	-.0000000000	-.0000000003	-.0000000030	-.0000000004
PCB_122	-.0000000225	-.0000000002	-.0000000015	-.0000000109	-.0000000013
PCB_123	-.0000002394	-.0000000022	-.0000000123	-.0000001320	-.0000000161
PCB_126	0.0000001197	0.0000000008	0.0000000058	0.0000000550	0.0000000067
PCB_127	-.0000000130	-.0000000001	-.0000000007	-.0000000072	-.0000000008
PCB_130	-.0000000816	-.0000000009	-.0000000062	-.0000000596	-.0000000069
PCB_131	-.0000000073	-.0000000002	-.0000000009	-.0000000136	-.0000000015
PCB_132	0.0000025387	0.0000000161	0.0000001345	0.0000010390	0.0000001294
PCB_133	0.0000000410	0.0000000002	0.0000000021	0.0000000110	0.0000000014
PCB_136	0.0000001286	0.0000000010	0.0000000073	0.0000000464	0.0000000058
PCB_137	-.0000002705	-.0000000027	-.0000000169	-.0000001806	-.0000000215
PCB_141	0.0000012306	0.0000000070	0.0000000612	0.0000004784	0.0000000588
PCB_142	0.0000000069	0.0000000000	0.0000000004	0.0000000031	0.0000000004
PCB_144	0.0000005362	0.0000000030	0.0000000262	0.0000001822	0.0000000226

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_64	0.0000000106	0.0000000454	0.0000000430	-.0000016631	-.0000052266
PCB_66	-.0000002414	-.0000003647	0.0000000379	-.0000013867	0.0000006834
PCB_67	-.0000000045	-.0000000060	0.0000000016	-.0000000547	-.0000000488
PCB_68	-.0000000589	-.0000000883	0.0000000074	-.0000002765	0.0000010993
PCB_72	-.0000000605	-.0000000870	0.0000000124	-.0000004819	0.0000008532
PCB_77	0.0000000224	0.0000000362	0.0000000011	-.0000000718	-.0000005332
PCB_78	0.0000000123	0.0000000196	0.0000000004	-.0000000170	-.0000005942
PCB_79	0.0000000196	0.0000000296	-.0000000010	-.0000000116	-.0000004582
PCB_81	0.0000000081	0.0000000128	-.0000000001	-.0000000080	-.0000000872
PCB_82	-.0000000512	-.0000000934	-.0000000181	0.0000008802	0.0000014627
PCB_83	-.0000000793	-.0000001179	0.0000000103	-.0000003299	0.0000011570
PCB_84	-.0000000710	-.0000000947	0.0000000175	-.0000004286	0.0000016604
PCB_89	0.0000000143	0.0000000225	-.0000000002	-.0000000063	-.0000002067
PCB_92	-.0000001948	-.0000002872	0.0000000310	-.0000011610	0.0000007615
PCB_94	-.0000000249	-.0000000370	0.0000000033	-.0000000839	0.0000002131
PCB_95	0.0000002907	0.0000005464	0.0000000930	-.0000040113	0.0000020747
PCB_96	-.0000000095	-.0000000120	0.0000000039	-.0000001418	0.0000000214
PCB_99	-.0000007109	-.0000011523	-.0000000480	0.0000008728	0.0000299885
PCB_103	-.0000000257	-.0000000367	0.0000000056	-.0000002079	0.0000002840
PCB_104	-.0000000006	-.0000000008	0.0000000002	-.0000000055	0.0000000085
PCB_105	-.0000004982	-.0000008540	-.0000000919	0.0000047370	0.0000115132
PCB_109	-.0000001273	-.0000002107	-.0000000107	0.0000003494	0.0000045905
PCB_111	-.0000000033	-.0000000050	0.0000000004	-.0000000224	0.0000001130
PCB_114	-.0000000437	-.0000000747	-.0000000076	0.0000003971	0.0000007061
PCB_118	-.0000017944	-.0000029894	-.0000002175	0.0000120607	0.0000452784
PCB_120	-.0000000083	-.0000000121	0.0000000016	-.0000000896	0.0000002399
PCB_121	-.0000000011	-.0000000016	0.0000000002	-.0000000100	0.0000000383
PCB_122	-.0000000049	-.0000000090	-.0000000019	0.0000000996	0.0000002376
PCB_123	-.0000000572	-.0000000958	-.0000000048	0.0000003742	-.0000010539
PCB_126	0.0000000216	0.0000000333	-.0000000020	0.0000000453	0.0000000378
PCB_127	-.0000000032	-.0000000056	-.0000000006	0.0000000278	0.0000000800
PCB_130	-.0000000299	-.0000000577	-.0000000143	0.0000006725	0.0000007500
PCB_131	-.0000000075	-.0000000154	-.0000000045	0.0000001970	0.0000002576
PCB_132	0.0000004001	0.0000006153	-.0000000135	-.0000002289	-.0000012035
PCB_133	0.0000000040	0.0000000058	-.0000000002	-.0000000251	0.0000001036
PCB_136	0.0000000211	0.0000000364	0.0000000061	-.0000003455	0.0000002254
PCB_137	-.0000000817	-.0000001456	-.0000000202	0.0000009177	0.0000013593
PCB_141	0.0000001738	0.0000002495	-.0000000330	0.0000011922	-.0000021050
PCB_142	0.0000000012	0.0000000019	-.0000000000	-.0000000012	-.0000000164
PCB_144	0.0000000663	0.0000000938	-.0000000127	0.0000003226	0.0000002551

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_64	-.0000088412	-.0000396734	0.0000000583	0.0000037770	-.0000007597
PCB_66	-.0000079770	-.0000397860	-.0000000453	0.0000011183	-.0000002955
PCB_67	-.0000003171	-.0000015682	0.0000000088	0.0000000746	-.0000000251
PCB_68	-.0000015535	-.0000089570	-.0000000232	-.0000004983	-.0000001066
PCB_72	-.0000025912	-.0000140404	-.0000000275	-.0000002895	-.0000002139
PCB_77	-.0000002927	-.0000007438	0.0000000032	0.0000005423	-.0000000338
PCB_78	-.0000000664	0.0000002023	-.0000000018	0.0000002691	-.0000000057
PCB_79	0.0000000804	0.0000013878	-.0000000290	0.0000004996	0.0000000221
PCB_81	0.0000000027	0.0000001682	-.0000000008	0.0000001376	-.0000000044
PCB_82	0.0000040247	0.0000180265	0.0000000686	-.0000020930	0.0000004043
PCB_83	-.0000022108	-.0000118072	0.0000000700	-.0000003482	-.0000001752
PCB_84	-.0000031622	-.0000194006	0.0000002748	-.0000010751	-.0000004370
PCB_89	0.0000000202	0.0000004010	0.0000000032	0.0000002406	-.0000000066
PCB_92	-.0000070660	-.0000351295	-.0000000315	-.0000002259	-.0000004688
PCB_94	-.0000005821	-.0000035101	0.0000000202	-.0000002335	-.0000000419
PCB_95	-.0000187088	-.0001018575	0.0000002702	0.0000040904	-.0000026985
PCB_96	-.0000007815	-.0000041640	0.0000000077	-.0000000088	-.0000000796
PCB_99	0.0000026942	0.0000009729	-.0000008416	-.0000131264	0.0000006926
PCB_103	-.0000011661	-.0000062419	0.0000000016	-.0000000555	-.0000000940
PCB_104	-.0000000295	-.0000001799	0.0000000003	-.0000000071	-.0000000030
PCB_105	0.0000213243	0.0000908745	0.0000003005	-.0000146020	0.0000022753
PCB_109	0.0000013840	0.0000053315	-.0000000578	-.0000017307	0.0000002728
PCB_111	-.0000001095	-.0000005733	-.0000000065	-.0000000153	-.0000000071
PCB_114	0.0000017278	0.0000076198	0.0000000238	-.0000011492	0.0000001990
PCB_118	0.0000555275	0.0002063397	0.0000003088	-.0000531829	0.0000057143
PCB_120	-.0000004332	-.0000021491	-.0000000218	0.0000000255	-.0000000298
PCB_121	-.0000000510	-.0000002653	-.0000000017	-.0000000008	-.0000000038
PCB_122	0.0000004620	0.0000019544	0.0000000151	-.0000002478	0.0000000401
PCB_123	0.0000015448	0.0000072121	-.0000000050	-.0000011109	0.0000002450
PCB_126	0.0000003135	0.0000017420	0.0000000027	0.0000001647	0.0000000051
PCB_127	0.0000001467	0.0000006289	-.0000000036	-.0000001036	0.0000000158
PCB_130	0.0000032332	0.0000150862	0.0000000273	-.0000014113	0.0000003247
PCB_131	0.0000009846	0.0000046678	0.0000000005	-.0000003640	0.0000001037
PCB_132	0.0000027918	0.0000214849	-.0000002021	0.0000069463	0.0000000252
PCB_133	-.0000000623	-.0000000359	-.0000000144	0.0000002017	0.0000000055
PCB_136	-.0000017111	-.0000068823	0.0000000414	0.0000015934	-.0000001383
PCB_137	0.0000041644	0.0000203150	0.0000000068	-.0000018629	0.0000005153
PCB_141	0.0000070044	0.0000381363	-.0000000193	0.0000011311	0.0000006022
PCB_142	-.0000000005	0.0000000218	-.0000000001	0.0000000199	-.0000000008
PCB_144	0.0000019415	0.0000124414	0.0000000002	0.0000015018	0.0000002221

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_64	-.0000080846	-.0000213441	-.0000079882	-.0000007799	0.0000033267
PCB_66	-.0000166841	-.0000228099	-.0000057304	-.0000015884	0.0000025841
PCB_67	-.0000005387	-.0000009771	-.0000002679	-.0000000503	0.0000001222
PCB_68	-.0000040003	-.0000056763	-.0000011956	-.0000004155	0.0000004863
PCB_72	-.0000051708	-.0000085049	-.0000021912	-.0000005364	0.0000008553
PCB_77	0.0000006528	0.0000000066	-.0000003898	0.0000000775	0.0000000760
PCB_78	0.0000005428	0.0000003925	-.0000000801	0.0000000555	0.0000000509
PCB_79	0.0000011608	0.0000016037	0.0000000096	0.0000001227	-.0000000891
PCB_81	0.0000003222	0.0000002474	-.0000000569	0.0000000376	-.0000000200
PCB_82	0.0000019161	0.0000081697	0.0000042502	0.0000001605	-.0000011681
PCB_83	-.0000056957	-.0000084855	-.0000015528	-.0000006049	0.0000008948
PCB_84	-.0000080415	-.0000159645	-.0000027626	-.0000008369	0.0000014914
PCB_89	0.0000005890	0.0000004319	-.0000000694	0.0000000663	-.0000000262
PCB_92	-.0000138610	-.0000220815	-.0000049701	-.0000015526	0.0000026517
PCB_94	-.0000017287	-.0000025654	-.0000004060	-.0000001735	0.0000002479
PCB_95	-.0000148977	-.0000598241	-.0000224417	-.0000012659	0.0000054556
PCB_96	-.0000012873	-.0000026240	-.0000007056	-.0000001335	0.0000002903
PCB_99	-.0000204273	-.0000075786	0.0000070433	-.0000030953	-.0000029150
PCB_103	-.0000022813	-.0000038881	-.0000009699	-.0000002336	0.0000004000
PCB_104	-.0000000625	-.0000001157	-.0000000283	-.0000000058	0.0000000100
PCB_105	0.0000005901	0.0000385181	0.0000235845	-.0000001271	-.0000059674
PCB_109	-.0000030671	0.0000016744	0.0000021549	-.0000003863	-.0000007342
PCB_111	-.0000002178	-.0000003051	-.0000000891	-.0000000248	0.0000000220
PCB_114	0.0000000728	0.0000032493	0.0000020113	-.0000000171	-.0000004529
PCB_118	-.0000243600	0.0000770566	0.0000606769	-.0000028185	-.0000160125
PCB_120	-.0000006719	-.0000010831	-.0000003715	-.0000000750	0.0000001001
PCB_121	-.0000000909	-.0000001490	-.0000000436	-.0000000100	0.0000000122
PCB_122	0.0000001660	0.0000008089	0.0000004537	0.0000000186	-.0000001353
PCB_123	-.0000002299	0.0000035426	0.0000021040	-.0000000364	-.0000002180
PCB_126	0.0000011400	0.0000011441	0.0000001375	0.0000001157	-.0000001572
PCB_127	0.0000000211	0.0000003439	0.0000001511	0.0000000016	-.0000000476
PCB_130	0.0000020787	0.0000076247	0.0000033211	0.0000001957	-.0000009476
PCB_131	0.0000007262	0.0000025253	0.0000009905	0.0000000737	-.0000003165
PCB_132	0.0000171826	0.0000241032	-.0000014855	0.0000022499	-.0000024031
PCB_133	0.0000001943	0.0000003013	-.0000000892	0.0000000255	-.0000000454
PCB_136	-.0000009565	-.0000033276	-.0000017552	-.0000000487	0.0000003923
PCB_137	0.0000017063	0.0000102761	0.0000048188	0.0000001116	-.0000012229
PCB_141	0.0000143800	0.0000249080	0.0000055898	0.0000015578	-.0000025370
PCB_142	0.0000000481	0.0000000331	-.0000000087	0.0000000054	-.0000000020
PCB_144	0.0000051307	0.0000087003	0.0000015511	0.0000005632	-.0000009672

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_64	-.0000064340	-.0000002687	0.0000000340	-.0000001929	0.0000057704
PCB_66	-.0000108175	-.0000032749	-.0000002498	-.0000015229	0.0000060951
PCB_67	-.0000003946	-.0000000834	-.0000000051	-.0000000400	0.0000002160
PCB_68	-.0000030782	-.0000010045	-.0000000744	-.0000004234	0.0000008540
PCB_72	-.0000041043	-.0000011327	-.0000000771	-.0000004794	0.0000014048
PCB_77	0.0000006477	0.0000003548	0.0000000324	0.0000001469	0.0000001692
PCB_78	0.0000003704	0.0000002030	0.0000000169	0.0000000814	0.0000001046
PCB_79	0.0000011003	0.0000004061	0.0000000321	0.0000001669	-.0000000072
PCB_81	0.0000003160	0.0000001335	0.0000000115	0.0000000562	-.0000000207
PCB_82	0.0000010660	-.0000006035	-.0000000817	-.0000002425	-.0000020531
PCB_83	-.0000046864	-.0000014690	-.0000001067	-.0000006221	0.0000013078
PCB_84	-.0000073032	-.0000020070	-.0000001295	-.0000008114	0.0000013976
PCB_89	0.0000005397	0.0000002279	0.0000000197	0.0000000968	-.0000000349
PCB_92	-.0000117455	-.0000035026	-.0000002473	-.0000014545	0.0000043659
PCB_94	-.0000013995	-.0000004433	-.0000000338	-.0000001923	0.0000004013
PCB_95	-.0000110852	0.0000011262	0.0000003151	0.0000006665	0.0000060530
PCB_96	-.0000011058	-.0000002465	-.0000000142	-.0000001028	0.0000004131
PCB_99	-.0000176371	-.0000116858	-.0000009441	-.0000041703	-.0000062864
PCB_103	-.0000017785	-.0000004848	-.0000000325	-.0000002060	0.0000006664
PCB_104	-.0000000480	-.0000000120	-.0000000008	-.0000000052	0.0000000158
PCB_105	-.0000023859	-.0000065277	-.0000007321	-.0000027857	-.0000103452
PCB_109	-.0000018160	-.0000017081	-.0000001548	-.0000006737	-.0000009558
PCB_111	-.0000001563	-.0000000546	-.0000000037	-.0000000212	0.0000000425
PCB_114	-.0000002419	-.0000005659	-.0000000632	-.0000002403	-.0000007634
PCB_118	-.0000281835	-.0000254618	-.0000026323	-.0000109149	-.0000285835
PCB_120	-.0000004726	-.0000001376	-.0000000084	-.0000000538	0.0000001968
PCB_121	-.0000000642	-.0000000200	-.0000000013	-.0000000078	0.0000000217
PCB_122	0.0000001086	-.0000000629	-.0000000086	-.0000000270	-.0000002512
PCB_123	-.0000007305	-.0000006254	-.0000000767	-.0000003101	-.0000001008
PCB_126	0.0000009602	0.0000003180	0.0000000273	0.0000001475	-.0000003181
PCB_127	0.0000000006	-.0000000347	-.0000000044	-.0000000162	-.0000000737
PCB_130	0.0000013039	-.0000002370	-.0000000475	-.0000001100	-.0000015901
PCB_131	0.0000005631	-.0000000192	-.0000000105	-.0000000132	-.0000004832
PCB_132	0.0000188205	0.0000075898	0.0000006055	0.0000029563	-.0000024061
PCB_133	0.0000003634	0.0000001137	0.0000000096	0.0000000479	0.0000000172
PCB_136	0.0000002763	0.0000003726	0.0000000452	0.0000001459	0.0000009064
PCB_137	0.0000010042	-.0000008171	-.0000001083	-.0000003518	-.0000018193
PCB_141	0.0000121427	0.0000035016	0.0000002377	0.0000014308	-.0000037466
PCB_142	0.0000000441	0.0000000193	0.0000000017	0.0000000082	-.0000000025
PCB_144	0.0000053429	0.0000014696	0.0000001092	0.0000006207	-.0000011301

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_64	0.0000005229	0.0000051216	0.0000097110	0.0000263322	0.0000073616
PCB_66	0.0000003818	0.0000045702	0.0000098558	0.0000313521	0.0000073376
PCB_67	0.0000000168	0.0000001991	0.0000003703	0.0000011375	0.0000002937
PCB_68	0.0000000316	0.0000010326	0.0000022007	0.0000070412	0.0000016738
PCB_72	0.0000000772	0.0000016868	0.0000034596	0.0000103859	0.0000026179
PCB_77	0.0000000260	0.0000000729	0.0000001855	0.0000000816	0.0000000803
PCB_78	0.0000000196	0.0000000106	-.0000000303	-.0000003583	-.0000000260
PCB_79	0.0000000114	-.0000001797	-.0000002544	-.0000013995	-.0000003272
PCB_81	0.0000000014	-.0000000335	-.0000000373	-.0000002746	-.0000000545
PCB_82	-.0000001873	-.0000021485	-.0000045946	-.0000106219	-.0000030868
PCB_83	0.0000000779	0.0000015110	0.0000027336	0.0000093800	0.0000022154
PCB_84	0.0000000774	0.0000024176	0.0000040399	0.0000149795	0.0000037663
PCB_89	0.0000000035	-.0000000672	-.0000001030	-.0000005255	-.0000001085
PCB_92	0.0000002826	0.0000043460	0.0000085486	0.0000273357	0.0000065993
PCB_94	0.0000000203	0.0000004312	0.0000008030	0.0000029073	0.0000007048
PCB_95	0.0000004325	0.0000111825	0.0000237647	0.0000627898	0.0000178175
PCB_96	0.0000000283	0.0000005146	0.0000009913	0.0000029766	0.0000007879
PCB_99	-.0000010913	-.0000025940	-.0000000205	0.0000128850	-.0000017316
PCB_103	0.0000000390	0.0000007384	0.0000015045	0.0000046723	0.0000011623
PCB_104	0.0000000007	0.0000000206	0.0000000425	0.0000001331	0.0000000348
PCB_105	-.0000010351	-.0000102512	-.0000228647	-.0000501846	-.0000149777
PCB_109	-.0000001605	-.0000009594	-.0000012982	-.0000012057	-.0000012045
PCB_111	0.0000000007	0.0000000590	0.0000001498	0.0000004258	0.0000000949
PCB_114	-.0000000758	-.0000008521	-.0000019182	-.0000041035	-.0000012436
PCB_118	-.0000032625	-.0000227695	-.0000512935	-.0001037229	-.0000316547
PCB_120	0.0000000089	0.0000002304	0.0000005610	0.0000015288	0.0000003615
PCB_121	0.0000000008	0.0000000275	0.0000000665	0.0000001943	0.0000000446
PCB_122	-.0000000230	-.0000002322	-.0000005114	-.0000011725	-.0000003352
PCB_123	-.0000000090	-.0000006033	-.0000016862	-.0000035552	-.0000009239
PCB_126	-.0000000207	-.0000002749	-.0000004528	-.0000015215	-.0000003898
PCB_127	-.0000000072	-.0000000643	-.0000001414	-.0000003882	-.0000001030
PCB_130	-.0000001320	-.0000016877	-.0000037083	-.0000094770	-.0000025872
PCB_131	-.0000000406	-.0000005383	-.0000011276	-.0000029957	-.0000008210
PCB_132	-.0000000150	-.0000024781	-.0000039859	-.0000261771	-.0000053110
PCB_133	0.0000000003	-.0000000461	0.0000000383	-.0000000912	-.0000000572
PCB_136	0.0000000802	0.0000006544	0.0000016174	0.0000041205	0.0000009320
PCB_137	-.0000001633	-.0000023121	-.0000049453	-.0000119175	-.0000035404
PCB_141	-.0000002046	-.0000045350	-.0000090764	-.0000291317	-.0000071853
PCB_142	0.0000000003	-.0000000041	-.0000000050	-.0000000382	-.0000000070
PCB_144	-.0000000637	-.0000017689	-.0000030077	-.0000096246	-.0000027321

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_64	0.0000403533	0.0000131042	0.0000045823	-.0000020828	-.0000039950
PCB_66	0.0000443605	0.0000120265	0.0000041020	-.0000014882	-.0000009972
PCB_67	0.0000016859	0.0000005308	0.0000001839	0.0000000032	-.0000001262
PCB_68	0.0000102881	0.0000029266	0.0000009553	-.0000004672	-.0000003983
PCB_72	0.0000155909	0.0000046636	0.0000015537	-.0000008331	-.0000009549
PCB_77	0.0000002492	0.0000001351	0.0000000858	-.0000001811	-.0000001599
PCB_78	-.0000004391	-.0000000646	-.0000000154	-.0000000515	-.0000000815
PCB_79	-.0000017732	-.0000006043	-.0000001456	-.0000003023	0.0000000851
PCB_81	-.0000003636	-.0000001004	-.0000000209	-.0000000558	-.0000000141
PCB_82	-.0000173835	-.0000055592	-.0000020643	0.0000022317	0.0000019686
PCB_83	0.0000140947	0.0000043125	0.0000014859	0.0000002226	-.0000008182
PCB_84	0.0000212819	0.0000073092	0.0000023228	0.0000014385	-.0000019312
PCB_89	-.0000007444	-.0000001963	-.0000000476	-.0000000491	-.0000000205
PCB_92	0.0000405476	0.0000119406	0.0000040074	-.0000015771	-.0000020773
PCB_94	0.0000040002	0.0000012145	0.0000003699	0.0000001215	-.0000001771
PCB_95	0.0000950231	0.0000322637	0.0000109457	-.0000071759	-.0000115088
PCB_96	0.0000044402	0.0000014230	0.0000004673	-.0000001530	-.0000003749
PCB_99	0.0000166349	-.0000017421	-.0000006241	-.0000058548	0.0000073826
PCB_103	0.0000068459	0.0000020512	0.0000006803	-.0000002587	-.0000003991
PCB_104	0.0000001863	0.0000000579	0.0000000177	-.0000000049	-.0000000123
PCB_105	-.0000814203	-.0000265200	-.0000100377	0.0000127248	0.0000104203
PCB_109	-.0000024975	-.0000019782	-.0000006011	0.0000002848	0.0000018115
PCB_111	0.0000006659	0.0000001728	0.0000000628	-.0000000878	-.0000000191
PCB_114	-.0000067817	-.0000022336	-.0000008515	0.0000010734	0.0000009130
PCB_118	-.0001726257	-.0000574078	-.0000236214	0.0000314065	0.0000257301
PCB_120	0.0000023934	0.0000006450	0.0000002341	-.0000003192	-.0000001024
PCB_121	0.0000002948	0.0000000803	0.0000000287	-.0000000307	-.0000000115
PCB_122	-.0000019086	-.0000005865	-.0000002168	0.0000003057	0.0000001932
PCB_123	-.0000061950	-.0000019892	-.0000008661	0.0000011555	0.0000008608
PCB_126	-.0000022845	-.0000006794	-.0000002113	-.0000000501	0.0000000937
PCB_127	-.0000005500	-.0000001799	-.0000000653	0.0000000415	0.0000000592
PCB_130	-.0000145446	-.0000045535	-.0000016299	0.0000015697	0.0000013975
PCB_131	-.0000045609	-.0000014654	-.0000005117	0.0000003989	0.0000004588
PCB_132	-.0000290291	-.0000082014	-.0000014458	-.0000030400	-.0000009502
PCB_133	-.0000000861	-.0000001270	-.0000000092	-.0000001927	0.0000000754
PCB_136	0.0000065292	0.0000018447	0.0000008528	-.0000004783	-.0000004562
PCB_137	-.0000185161	-.0000062313	-.0000021813	0.0000020199	0.0000023517
PCB_141	-.0000424629	-.0000128481	-.0000041677	0.0000014562	0.0000025071
PCB_142	-.0000000501	-.0000000126	-.0000000026	-.0000000078	-.0000000034
PCB_144	-.0000141056	-.0000047751	-.0000013431	0.0000001447	0.0000013027

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_64	-.0000129156	0.0000045977	-.0000104891	0.0000012929
PCB_66	-.0000059651	0.0000055027	-.0000067966	0.0000018603
PCB_67	-.0000003643	0.0000001827	-.0000003188	0.0000000620
PCB_68	-.0000003698	0.0000009835	-.0000004144	0.0000003652
PCB_72	-.0000017048	0.0000014904	-.0000014034	0.0000005078
PCB_77	-.0000009598	0.0000001033	-.0000008881	-.0000000016
PCB_78	-.0000005096	0.0000000025	-.0000003627	-.0000000240
PCB_79	-.0000006151	-.0000000478	-.0000004859	-.0000000762
PCB_81	-.0000001883	-.0000000208	-.0000002048	-.0000000177
PCB_82	0.0000066422	-.0000019277	0.0000056024	-.0000004237
PCB_83	-.0000010876	0.0000013458	-.0000004284	0.0000005255
PCB_84	-.0000008681	0.0000015011	-.0000006486	0.0000007926
PCB_89	-.0000002922	-.0000000474	-.0000003144	-.0000000301
PCB_92	-.0000040815	0.0000042552	-.0000023185	0.0000014831
PCB_94	-.0000000725	0.0000003698	-.0000001595	0.0000001636
PCB_95	-.0000223856	0.0000075016	-.0000231012	0.0000024508
PCB_96	-.0000006602	0.0000004019	-.0000005386	0.0000001417
PCB_99	0.0000328786	0.0000006192	0.0000304949	0.0000010857
PCB_103	-.0000007592	0.0000006760	-.0000007041	0.0000002410
PCB_104	-.0000000150	0.0000000160	-.0000000233	0.0000000064
PCB_105	0.0000377984	-.0000095662	0.0000335264	-.0000019507
PCB_109	0.0000053436	-.0000001541	0.0000045718	0.0000000987
PCB_111	-.0000000352	0.0000000685	-.0000000209	0.0000000207
PCB_114	0.0000031443	-.0000007508	0.0000028303	-.0000001463
PCB_118	0.0001118284	-.0000244209	0.0000967318	-.0000043617
PCB_120	-.0000002985	0.0000002578	-.0000002317	0.0000000730
PCB_121	-.0000000246	0.0000000304	-.0000000223	0.0000000098
PCB_122	0.0000007240	-.0000002297	0.0000005833	-.0000000483
PCB_123	0.0000024107	-.0000005582	0.0000023037	-.0000001190
PCB_126	0.0000001752	-.0000002389	0.0000000334	-.0000000832
PCB_127	0.0000002058	-.0000000666	0.0000002079	-.0000000206
PCB_130	0.0000043567	-.0000015748	0.0000040150	-.0000004254
PCB_131	0.0000012483	-.0000004683	0.0000011062	-.0000001356
PCB_132	-.0000133166	-.0000022119	-.0000113965	-.0000017804
PCB_133	-.0000001892	0.0000000578	-.0000002638	0.0000000001
PCB_136	-.0000029329	0.0000009641	-.0000028634	0.0000002546
PCB_137	0.0000064508	-.0000017753	0.0000061489	-.0000004527
PCB_141	0.0000031077	-.0000039625	0.0000024685	-.0000014968
PCB_142	-.0000000284	-.0000000031	-.0000000289	-.0000000026
PCB_144	0.0000005180	-.0000009486	-.0000000199	-.0000004024

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_145	PCB 145	0.0000000001	0.0000000000	0.0000000000
PCB_146	PCB 146	0.0000000050	0.0000000084	0.0000000084
PCB_148	PCB 148	0.0000000002	-.0000000000	-.0000000000
PCB_150	PCB 150	0.0000000001	-.0000000000	-.0000000000
PCB_152	PCB 152	0.0000000001	-.0000000000	-.0000000000
PCB_154	PCB 154	0.0000000022	-.0000000001	-.0000000001
PCB_155	PCB 155	-.0000000001	0.0000000000	0.0000000000
PCB_158	PCB 158	0.0000000301	-.0000000012	0.0000000004
PCB_159	PCB 159	-.0000000007	0.0000000009	0.0000000008
PCB_161	PCB 161	-.0000000001	0.0000000000	0.0000000000
PCB_162	PCB 1611	-.0000000006	0.0000000007	0.0000000007
PCB_164	PCB 164	0.0000000031	0.0000000031	0.0000000034
PCB_165	PCB 165	-.0000000006	-.0000000000	-.0000000000
PCB_167	PCB 167	0.0000000125	-.0000000007	-.0000000000
PCB_169	PCB 169	-.0000000001	0.0000000001	0.0000000000
PCB_170	PCB 170	-.0000000062	0.0000000118	0.0000000115
PCB_172	PCB 172	-.0000000023	0.0000000041	0.0000000039
PCB_174	PCB 174	-.0000000410	0.0000000199	0.0000000179
PCB_175	PCB 175	-.0000000016	0.0000000010	0.0000000009
PCB_176	PCB 176	-.0000000050	0.0000000029	0.0000000026
PCB_177	PCB 177	-.0000000260	0.0000000142	0.0000000129
PCB_178	PCB 178	-.0000000155	0.0000000072	0.0000000064
PCB_179	PCB 179	-.0000000209	0.0000000099	0.0000000088
PCB_181	PCB 181	0.0000000006	0.0000000000	0.0000000001
PCB_182	PCB 182	-.0000000004	0.0000000000	0.0000000000
PCB_184	PCB 184	-.0000000001	0.0000000000	0.0000000000
PCB_186	PCB 186	-.0000000001	0.0000000000	0.0000000000
PCB_187	PCB 187	-.0000001272	0.0000000751	0.0000000679
PCB_188	PCB 188	-.0000000001	0.0000000000	0.0000000000
PCB_189	PCB 189	0.0000000006	0.0000000003	0.0000000003
PCB_190	PCB 190	-.0000000011	0.0000000022	0.0000000021
PCB_191	PCB 191	0.0000000002	0.0000000007	0.0000000007
PCB_192	PCB 192	-.0000000304	-.0000000019	-.0000000030
PCB_194	PCB 194	-.0000000055	0.0000000033	0.0000000030
PCB_195	PCB 195	-.0000000038	0.0000000023	0.0000000021
PCB_196	PCB 196	-.0000000060	0.0000000035	0.0000000032
PCB_201	PCB 201	-.0000000039	0.0000000017	0.0000000016
PCB_202	PCB 202	-.0000000056	0.0000000024	0.0000000022
PCB_203	PCB 203	-.0000000115	0.0000000068	0.0000000062
PCB_204	PCB 204	-.0000000001	0.0000000000	0.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_145	-.0000000009	0.0000000000	-.0000000001	-.0000000000	0.0000000002
PCB_146	-.0000007263	0.0000000080	-.0000000707	-.0000000067	-.0000000701
PCB_148	0.0000000036	-.0000000000	0.0000000004	0.0000000000	0.0000000002
PCB_150	0.0000000037	-.0000000000	0.0000000003	0.0000000000	-.0000000006
PCB_152	0.0000000033	-.0000000000	0.0000000004	0.0000000000	0.0000000002
PCB_154	0.0000000258	0.0000000000	0.0000000036	0.0000000004	0.0000000103
PCB_155	-.0000000031	0.0000000000	-.0000000003	-.0000000000	-.0000000010
PCB_158	-.0000004512	0.0000000021	-.0000000604	-.0000000035	0.0000001830
PCB_159	-.0000000436	0.0000000008	-.0000000034	-.0000000003	-.0000000073
PCB_161	-.0000000034	0.0000000000	-.0000000004	-.0000000000	-.0000000010
PCB_162	-.0000000625	0.0000000007	-.0000000072	-.0000000007	-.0000000094
PCB_164	-.0000005563	0.0000000037	-.0000000671	-.0000000062	-.0000000060
PCB_165	-.0000000047	-.0000000001	-.0000000009	-.0000000001	-.0000000046
PCB_167	-.0000002666	0.0000000008	-.0000000386	-.0000000025	0.0000000871
PCB_169	-.0000000030	0.0000000000	-.0000000003	-.0000000000	-.0000000011
PCB_170	-.0000012484	0.0000000116	-.0000001361	-.0000000126	-.0000000574
PCB_172	-.0000003528	0.0000000039	-.0000000373	-.0000000038	-.0000000417
PCB_174	-.0000013103	0.0000000164	-.0000001247	-.0000000144	-.0000003183
PCB_175	-.0000000675	0.0000000009	-.0000000062	-.0000000007	-.0000000131
PCB_176	-.0000001753	0.0000000024	-.0000000157	-.0000000018	-.0000000445
PCB_177	-.0000009182	0.0000000120	-.0000000857	-.0000000096	-.0000002000
PCB_178	-.0000004538	0.0000000057	-.0000000431	-.0000000052	-.0000001297
PCB_179	-.0000005741	0.0000000079	-.0000000515	-.0000000064	-.0000001737
PCB_181	-.0000000145	0.0000000001	-.0000000018	-.0000000001	0.0000000046
PCB_182	-.0000000136	-.0000000000	-.0000000021	-.0000000002	-.0000000037
PCB_184	-.0000000024	0.0000000000	-.0000000003	-.0000000000	-.0000000005
PCB_186	-.0000000030	0.0000000000	-.0000000003	-.0000000000	-.0000000007
PCB_187	-.0000044727	0.0000000622	-.0000004084	-.0000000473	-.0000011499
PCB_188	-.0000000032	0.0000000000	-.0000000003	-.0000000000	-.0000000008
PCB_189	-.0000000328	0.0000000003	-.0000000036	-.0000000003	0.0000000029
PCB_190	-.0000001885	0.0000000021	-.0000000198	-.0000000018	-.0000000121
PCB_191	-.0000000730	0.0000000007	-.0000000080	-.0000000008	-.0000000052
PCB_192	0.0000005279	-.0000000045	0.0000000725	0.0000000073	-.0000000297
PCB_194	-.0000002374	0.0000000027	-.0000000229	-.0000000025	-.0000000477
PCB_195	-.0000001527	0.0000000019	-.0000000141	-.0000000016	-.0000000335
PCB_196	-.0000002362	0.0000000029	-.0000000227	-.0000000026	-.0000000536
PCB_201	-.0000001116	0.0000000014	-.0000000106	-.0000000013	-.0000000316
PCB_202	-.0000001649	0.0000000019	-.0000000164	-.0000000019	-.0000000450
PCB_203	-.0000004509	0.0000000057	-.0000000434	-.0000000049	-.0000001040
PCB_204	-.0000000032	0.0000000000	-.0000000003	-.0000000000	-.0000000009

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_145	-.0000000000	-.0000000001	-.0000000001	0.0000000000	-.0000000000
PCB_146	-.0000000148	-.0000000892	0.0000001491	-.0000000149	0.0000000050
PCB_148	0.0000000001	0.0000000004	-.0000000003	0.0000000003	0.0000000001
PCB_150	0.0000000000	0.0000000005	-.0000000008	0.0000000004	-.0000000000
PCB_152	0.0000000001	0.0000000004	-.0000000006	0.0000000002	-.0000000001
PCB_154	0.0000000008	0.0000000026	-.0000000026	0.0000000009	0.0000000005
PCB_155	-.0000000001	-.0000000003	0.0000000009	0.0000000000	0.0000000000
PCB_158	-.0000000082	-.0000000643	-.0000001116	-.0000000310	-.0000000044
PCB_159	-.0000000008	-.0000000051	0.0000000188	-.0000000003	0.0000000013
PCB_161	-.0000000001	-.0000000004	0.0000000010	0.0000000000	0.0000000000
PCB_162	-.0000000017	-.0000000071	0.0000000121	-.0000000011	0.0000000016
PCB_164	-.0000000128	-.0000000687	0.0000000216	-.0000000177	-.0000000030
PCB_165	-.0000000002	-.0000000004	0.0000000002	0.0000000000	-.0000000004
PCB_167	-.0000000059	-.0000000370	-.0000000612	-.0000000181	-.0000000034
PCB_169	-.0000000001	-.0000000003	0.0000000012	-.0000000000	0.0000000000
PCB_170	-.0000000262	-.0000001532	0.0000001962	-.0000000343	-.0000000020
PCB_172	-.0000000081	-.0000000422	0.0000000771	-.0000000031	0.0000000008
PCB_174	-.0000000291	-.0000001479	0.0000004411	-.0000000072	0.0000000105
PCB_175	-.0000000014	-.0000000078	0.0000000223	-.0000000006	0.0000000006
PCB_176	-.0000000038	-.0000000198	0.0000000653	-.0000000002	0.0000000019
PCB_177	-.0000000196	-.0000001049	0.0000003135	-.0000000059	0.0000000078
PCB_178	-.0000000106	-.0000000506	0.0000001640	0.0000000011	0.0000000032
PCB_179	-.0000000129	-.0000000635	0.0000002280	0.0000000025	0.0000000056
PCB_181	-.0000000002	-.0000000020	-.0000000011	-.0000000009	-.0000000001
PCB_182	-.0000000005	-.0000000015	-.0000000005	-.0000000002	-.0000000002
PCB_184	-.0000000001	-.0000000003	0.0000000007	-.0000000000	0.0000000000
PCB_186	-.0000000001	-.0000000003	0.0000000009	-.0000000000	0.0000000000
PCB_187	-.0000001002	-.0000005055	0.0000016798	-.0000000010	0.0000000560
PCB_188	-.0000000001	-.0000000004	0.0000000009	-.0000000000	0.0000000000
PCB_189	-.0000000006	-.0000000042	0.0000000030	-.0000000014	0.0000000002
PCB_190	-.0000000040	-.0000000231	0.0000000407	-.0000000036	0.0000000006
PCB_191	-.0000000017	-.0000000089	0.0000000117	-.0000000008	-.0000000001
PCB_192	0.0000000163	0.0000000687	0.0000000274	-.0000000144	0.0000000072
PCB_194	-.0000000051	-.0000000275	0.0000000691	-.0000000032	0.0000000013
PCB_195	-.0000000032	-.0000000176	0.0000000511	-.0000000012	0.0000000012
PCB_196	-.0000000053	-.0000000271	0.0000000758	-.0000000013	0.0000000015
PCB_201	-.0000000026	-.0000000125	0.0000000396	0.0000000000	0.0000000007
PCB_202	-.0000000039	-.0000000185	0.0000000546	-.0000000001	0.0000000008
PCB_203	-.0000000102	-.0000000515	0.0000001484	-.0000000019	0.0000000038
PCB_204	-.0000000001	-.0000000004	0.0000000010	0.0000000000	0.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_145	-.0000000006	-.0000000058	-.0000000026	-.0000000007	-.0000000000
PCB_146	-.0000002185	-.0000033043	-.0000015464	-.0000000605	0.0000000043
PCB_148	0.0000000012	0.0000000086	0.0000000032	0.0000000020	-.0000000000
PCB_150	0.0000000009	0.0000000136	0.0000000048	0.0000000014	-.0000000000
PCB_152	0.0000000009	0.0000000156	0.0000000070	0.0000000004	-.0000000000
PCB_154	0.0000000048	0.0000000223	0.0000000156	0.0000000082	-.0000000001
PCB_155	-.0000000002	-.0000000078	-.0000000047	0.0000000001	0.0000000000
PCB_158	-.0000004230	-.0000034886	-.0000013549	-.0000004648	-.0000000064
PCB_159	0.0000000023	-.0000001666	-.0000000862	0.0000000138	0.0000000007
PCB_161	-.0000000002	-.0000000087	-.0000000051	0.0000000002	0.0000000000
PCB_162	-.0000000119	-.0000002854	-.0000001372	-.0000000007	0.0000000005
PCB_164	-.0000002577	-.0000025870	-.0000011457	-.0000002449	-.0000000006
PCB_165	-.0000000016	0.0000000168	0.0000000026	-.0000000024	-.0000000000
PCB_167	-.0000002317	-.0000018217	-.0000007406	-.0000002783	-.0000000034
PCB_169	0.0000000001	-.0000000059	-.0000000037	0.0000000007	0.0000000000
PCB_170	-.0000003923	-.0000050670	-.0000023996	-.0000003509	0.0000000045
PCB_172	-.0000000778	-.0000013479	-.0000006762	-.0000000441	0.0000000022
PCB_174	-.0000000410	-.0000036642	-.0000020221	0.0000001468	0.0000000154
PCB_175	-.0000000044	-.0000002121	-.0000001121	0.0000000057	0.0000000008
PCB_176	0.0000000002	-.0000005035	-.0000002793	0.0000000341	0.0000000023
PCB_177	-.0000000318	-.0000026801	-.0000014618	0.0000000956	0.0000000108
PCB_178	0.0000000023	-.0000011489	-.0000006780	0.0000000741	0.0000000058
PCB_179	0.0000000294	-.0000014023	-.0000008373	0.0000001372	0.0000000082
PCB_181	-.0000000100	-.0000000905	-.0000000376	-.0000000122	-.0000000001
PCB_182	-.0000000060	-.0000000424	-.0000000214	-.0000000063	-.0000000000
PCB_184	-.0000000003	-.0000000073	-.0000000040	-.0000000001	0.0000000000
PCB_186	-.0000000002	-.0000000080	-.0000000045	0.0000000000	0.0000000000
PCB_187	0.0000000392	-.0000129241	-.0000073191	0.0000008841	0.0000000602
PCB_188	-.0000000003	-.0000000090	-.0000000051	0.0000000000	0.0000000000
PCB_189	-.0000000147	-.0000001771	-.0000000778	-.0000000126	0.0000000000
PCB_190	-.0000000445	-.0000007459	-.0000003710	-.0000000343	0.0000000011
PCB_191	-.0000000224	-.0000003076	-.0000001484	-.0000000168	0.0000000003
PCB_192	0.0000003222	0.0000031549	0.0000014866	0.0000002965	0.0000000036
PCB_194	-.0000000284	-.0000007542	-.0000003915	0.0000000063	0.0000000023
PCB_195	-.0000000090	-.0000004640	-.0000002490	0.0000000162	0.0000000018
PCB_196	-.0000000167	-.0000007082	-.0000003866	0.0000000189	0.0000000026
PCB_201	-.0000000003	-.0000002820	-.0000001648	0.0000000169	0.0000000014
PCB_202	-.0000000048	-.0000004216	-.0000002456	0.0000000162	0.0000000019
PCB_203	-.0000000247	-.0000013568	-.0000007462	0.0000000452	0.0000000051
PCB_204	-.0000000002	-.0000000084	-.0000000048	0.0000000002	0.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_145	0.0000000000	-.0000000010	-.0000000081	-.0000000018	-.0000000045
PCB_146	0.0000000085	-.0000006204	-.0000051416	-.0000006559	-.0000020154
PCB_148	-.0000000000	0.0000000027	0.0000000134	0.0000000040	0.0000000071
PCB_150	-.0000000000	0.0000000036	0.0000000233	0.0000000032	0.0000000099
PCB_152	-.0000000000	0.0000000031	0.0000000232	0.0000000028	0.0000000097
PCB_154	-.0000000001	0.0000000058	0.0000000091	0.0000000090	0.0000000173
PCB_155	0.0000000000	-.0000000011	-.0000000102	-.0000000003	-.0000000042
PCB_158	-.0000000012	-.0000007670	-.0000052465	-.0000012918	-.0000027598
PCB_159	0.0000000009	-.0000000229	-.0000002498	0.0000000123	-.0000000843
PCB_161	0.0000000000	-.0000000013	-.0000000119	-.0000000004	-.0000000048
PCB_162	0.0000000007	-.0000000430	-.0000003785	-.0000000163	-.0000001747
PCB_164	0.0000000031	-.0000005206	-.0000037546	-.0000007370	-.0000018602
PCB_165	-.0000000000	0.0000000012	0.0000000243	-.0000000099	0.0000000119
PCB_167	-.0000000007	-.0000004090	-.0000026933	-.0000007608	-.0000014765
PCB_169	0.0000000001	-.0000000009	-.0000000092	0.0000000004	-.0000000022
PCB_170	0.0000000119	-.0000009974	-.0000075895	-.0000012830	-.0000034704
PCB_172	0.0000000041	-.0000002327	-.0000019615	-.0000002274	-.0000008643
PCB_174	0.0000000200	-.0000005436	-.0000052599	0.0000000105	-.0000019445
PCB_175	0.0000000010	-.0000000337	-.0000003157	-.0000000092	-.0000001178
PCB_176	0.0000000029	-.0000000709	-.0000007389	0.0000000214	-.0000002502
PCB_177	0.0000000143	-.0000004065	-.0000039121	-.0000000325	-.0000014535
PCB_178	0.0000000073	-.0000001551	-.0000016317	0.0000000459	-.0000005637
PCB_179	0.0000000099	-.0000001742	-.0000020065	0.0000001625	-.0000006288
PCB_181	0.0000000000	-.0000000203	-.0000001396	-.0000000354	-.0000000717
PCB_182	0.0000000000	-.0000000081	-.0000000493	-.0000000150	-.0000000314
PCB_184	0.0000000000	-.0000000011	-.0000000102	-.0000000008	-.0000000043
PCB_186	0.0000000000	-.0000000012	-.0000000111	-.0000000005	-.0000000046
PCB_187	0.0000000754	-.0000017854	-.0000187999	0.0000004455	-.0000064147
PCB_188	0.0000000000	-.0000000014	-.0000000126	-.0000000008	-.0000000052
PCB_189	0.0000000003	-.0000000360	-.0000002714	-.0000000484	-.0000001235
PCB_190	0.0000000022	-.0000001373	-.0000011145	-.0000001581	-.0000004927
PCB_191	0.0000000007	-.0000000554	-.0000004477	-.0000000652	-.0000002070
PCB_192	-.0000000018	0.0000005310	0.0000043140	0.0000008785	0.0000023578
PCB_194	0.0000000033	-.0000001293	-.0000011305	-.0000000769	-.0000004274
PCB_195	0.0000000023	-.0000000736	-.0000006941	-.0000000194	-.0000002489
PCB_196	0.0000000035	-.0000001114	-.0000010419	-.0000000419	-.0000003863
PCB_201	0.0000000018	-.0000000392	-.0000004018	0.0000000089	-.0000001394
PCB_202	0.0000000025	-.0000000602	-.0000005911	-.0000000025	-.0000002207
PCB_203	0.0000000069	-.0000002061	-.0000019751	-.0000000534	-.0000007331
PCB_204	0.0000000000	-.0000000012	-.0000000115	-.0000000002	-.0000000045

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_145	-.0000000001	0.0000000000	-.0000000000	-.0000000000	-.0000000000
PCB_146	-.0000000413	0.0000000092	0.0000000446	-.0000000072	0.0000000053
PCB_148	0.0000000002	-.0000000000	0.0000000004	0.0000000001	0.0000000000
PCB_150	0.0000000002	-.0000000000	0.0000000001	0.0000000001	-.0000000000
PCB_152	0.0000000002	-.0000000000	-.0000000002	0.0000000001	-.0000000000
PCB_154	0.0000000004	-.0000000001	0.0000000021	0.0000000000	0.0000000001
PCB_155	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_158	-.0000000494	0.0000000001	-.0000000555	-.0000000192	-.0000000028
PCB_159	-.0000000021	0.0000000008	0.0000000070	-.0000000001	0.0000000005
PCB_161	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_162	-.0000000040	0.0000000006	0.0000000052	-.0000000009	0.0000000003
PCB_164	-.0000000354	0.0000000037	-.0000000166	-.0000000095	0.0000000001
PCB_165	0.0000000003	-.0000000000	-.0000000008	0.0000000002	-.0000000000
PCB_167	-.0000000264	-.0000000005	-.0000000345	-.0000000100	-.0000000020
PCB_169	-.0000000001	0.0000000001	0.0000000003	0.0000000000	0.0000000000
PCB_170	-.0000000688	0.0000000119	0.0000000119	-.0000000138	0.0000000042
PCB_172	-.0000000176	0.0000000040	0.0000000162	-.0000000020	0.0000000019
PCB_174	-.0000000468	0.0000000189	0.0000001085	0.0000000010	0.0000000105
PCB_175	-.0000000027	0.0000000010	0.0000000056	-.0000000001	0.0000000006
PCB_176	-.0000000062	0.0000000028	0.0000000184	0.0000000004	0.0000000017
PCB_177	-.0000000344	0.0000000134	0.0000000781	0.0000000002	0.0000000076
PCB_178	-.0000000141	0.0000000068	0.0000000423	0.0000000019	0.0000000040
PCB_179	-.0000000168	0.0000000094	0.0000000625	0.0000000031	0.0000000057
PCB_181	-.0000000013	0.0000000000	-.0000000012	-.0000000004	-.0000000000
PCB_182	-.0000000006	0.0000000000	-.0000000009	-.0000000001	-.0000000001
PCB_184	-.0000000001	0.0000000000	0.0000000001	-.0000000000	0.0000000000
PCB_186	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_187	-.0000001600	0.0000000696	0.0000004931	0.0000000110	0.0000000434
PCB_188	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000
PCB_189	-.0000000024	0.0000000003	0.0000000003	-.0000000007	0.0000000001
PCB_190	-.0000000100	0.0000000020	0.0000000076	-.0000000015	0.0000000010
PCB_191	-.0000000040	0.0000000007	0.0000000018	-.0000000006	0.0000000003
PCB_192	0.0000000399	-.0000000027	0.0000000106	0.0000000063	0.0000000000
PCB_194	-.0000000096	0.0000000032	0.0000000158	-.0000000006	0.0000000018
PCB_195	-.0000000058	0.0000000023	0.0000000132	-.0000000000	0.0000000013
PCB_196	-.0000000089	0.0000000033	0.0000000191	0.0000000001	0.0000000019
PCB_201	-.0000000035	0.0000000017	0.0000000099	0.0000000004	0.0000000010
PCB_202	-.0000000053	0.0000000023	0.0000000128	0.0000000005	0.0000000013
PCB_203	-.0000000171	0.0000000064	0.0000000393	0.0000000003	0.0000000037
PCB_204	-.0000000001	0.0000000000	0.0000000002	0.0000000000	0.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_145	-.0000000049	0.0000000005	-.0000000028	-.0000000006	-.0000000294
PCB_146	-.0000026002	-.0000001887	-.0000013123	-.0000000533	-.0000143229
PCB_148	0.0000000166	0.0000000048	0.0000000033	0.0000000006	0.0000000055
PCB_150	0.0000000209	0.0000000052	0.0000000056	-.0000000000	0.0000000320
PCB_152	0.0000000154	0.0000000034	0.0000000054	0.0000000000	0.0000000344
PCB_154	0.0000000334	0.0000000158	-.0000000078	-.0000000012	-.0000002137
PCB_155	-.0000000020	0.0000000001	-.0000000010	0.0000000008	-.0000000144
PCB_158	-.0000042623	-.0000002982	-.0000018846	-.0000004543	-.0000164704
PCB_159	-.0000000659	-.0000000054	-.0000000357	0.0000000211	-.0000004118
PCB_161	-.0000000029	-.0000000002	-.0000000013	0.0000000009	-.0000000166
PCB_162	-.0000001938	-.0000000171	-.0000000803	0.0000000077	-.0000005660
PCB_164	-.0000025864	-.0000001966	-.0000011094	-.0000001779	-.0000100078
PCB_165	0.0000000170	-.0000000034	0.0000000087	-.0000000015	0.0000000634
PCB_167	-.0000022192	-.0000002195	-.0000009456	-.0000002424	-.0000076319
PCB_169	-.0000000007	-.0000000004	-.0000000004	0.0000000012	-.0000000141
PCB_170	-.0000043777	-.0000004665	-.0000019043	-.0000001190	-.0000179320
PCB_172	-.0000008866	-.0000000396	-.0000004357	0.0000000173	-.0000045713
PCB_174	-.0000014890	-.0000001492	-.0000006433	0.0000004282	-.0000079079
PCB_175	-.0000001054	-.0000000088	-.0000000498	0.0000000188	-.0000005964
PCB_176	-.0000001665	-.0000000074	-.0000000879	0.0000000663	-.0000012543
PCB_177	-.0000011440	-.0000001126	-.0000005174	0.0000002977	-.0000062909
PCB_178	-.0000002593	-.0000000141	-.0000001389	0.0000001718	-.0000022597
PCB_179	-.0000001943	0.0000000057	-.0000001227	0.0000002575	-.0000026222
PCB_181	-.0000001047	-.0000000111	-.0000000454	-.0000000094	-.0000003903
PCB_182	-.0000000403	-.0000000035	-.0000000141	-.0000000042	-.0000000916
PCB_184	-.0000000034	-.0000000003	-.0000000016	0.0000000005	-.0000000170
PCB_186	-.0000000033	-.0000000002	-.0000000014	0.0000000007	-.0000000171
PCB_187	-.0000037381	-.0000003107	-.0000020660	0.0000017550	-.0000285981
PCB_188	-.0000000038	-.0000000003	-.0000000017	0.0000000008	-.0000000206
PCB_189	-.0000001724	-.0000000183	-.0000000772	-.0000000092	-.0000007025
PCB_190	-.0000005371	-.0000000568	-.0000002497	0.0000000056	-.0000024248
PCB_191	-.0000002314	-.0000000076	-.0000001132	-.0000000058	-.0000011595
PCB_192	0.0000022856	-.0000003268	0.0000014134	0.0000002751	0.0000153288
PCB_194	-.0000004490	-.0000000525	-.0000002007	0.0000000455	-.0000022637
PCB_195	-.0000002185	-.0000000219	-.0000001047	0.0000000435	-.0000013005
PCB_196	-.0000003174	-.0000000299	-.0000001553	0.0000000630	-.0000019068
PCB_201	-.0000000746	-.0000000066	-.0000000360	0.0000000408	-.0000005564
PCB_202	-.0000001287	-.0000000119	-.0000000586	0.0000000538	-.0000008039
PCB_203	-.0000005620	-.0000000513	-.0000002786	0.0000001325	-.0000033920
PCB_204	-.0000000028	-.0000000002	-.0000000012	0.0000000010	-.0000000160

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_145	-.0000000005	0.0000000000	0.0000000002	-.0000000003	-.0000000002
PCB_146	-.0000002925	0.0000000085	0.0000002501	-.0000001547	-.0000001166
PCB_148	0.0000000003	-.0000000000	0.0000000013	0.0000000015	0.0000000008
PCB_150	0.0000000008	-.0000000000	-.0000000003	0.0000000023	0.0000000011
PCB_152	0.0000000012	-.0000000000	-.0000000002	0.0000000013	0.0000000007
PCB_154	-.0000000009	-.0000000001	0.0000000055	0.0000000051	0.0000000015
PCB_155	-.0000000006	0.0000000000	0.0000000015	-.0000000004	-.0000000002
PCB_158	-.0000002744	-.0000000012	-.0000001836	-.0000002339	-.0000001739
PCB_159	-.0000000142	0.0000000009	0.0000000394	-.0000000134	-.0000000052
PCB_161	-.0000000007	0.0000000000	0.0000000016	-.0000000006	-.0000000002
PCB_162	-.0000000219	0.0000000007	0.0000000280	-.0000000226	-.0000000101
PCB_164	-.0000001992	0.0000000031	0.0000000156	-.0000001709	-.0000001112
PCB_165	0.0000000014	-.0000000000	-.0000000078	0.0000000043	0.0000000012
PCB_167	-.0000001373	-.0000000007	-.0000001643	-.0000001151	-.0000000922
PCB_169	-.0000000005	0.0000000001	0.0000000018	-.0000000003	-.0000000001
PCB_170	-.0000003948	0.0000000119	0.0000002060	-.0000003309	-.0000002118
PCB_172	-.0000001087	0.0000000041	0.0000001359	-.0000000811	-.0000000467
PCB_174	-.0000002865	0.0000000200	0.0000007741	-.0000002844	-.0000001106
PCB_175	-.0000000172	0.0000000010	0.0000000398	-.0000000155	-.0000000069
PCB_176	-.0000000417	0.0000000029	0.0000001227	-.0000000361	-.0000000137
PCB_177	-.0000002117	0.0000000143	0.0000005518	-.0000002067	-.0000000843
PCB_178	-.0000000921	0.0000000073	0.0000002835	-.0000000773	-.0000000276
PCB_179	-.0000001143	0.0000000099	0.0000004200	-.0000001029	-.0000000311
PCB_181	-.0000000069	0.0000000000	-.0000000047	-.0000000061	-.0000000047
PCB_182	-.0000000027	0.0000000000	-.0000000035	-.0000000021	-.0000000014
PCB_184	-.0000000006	0.0000000000	0.0000000010	-.0000000005	-.0000000002
PCB_186	-.0000000006	0.0000000000	0.0000000014	-.0000000006	-.0000000002
PCB_187	-.0000010708	0.0000000754	0.0000029961	-.0000008637	-.0000003385
PCB_188	-.0000000007	0.0000000000	0.0000000015	-.0000000006	-.0000000003
PCB_189	-.0000000144	0.0000000003	0.0000000023	-.0000000112	-.0000000078
PCB_190	-.0000000593	0.0000000022	0.0000000524	-.0000000460	-.0000000288
PCB_191	-.0000000248	0.0000000007	0.0000000223	-.0000000180	-.0000000112
PCB_192	0.0000002680	-.0000000018	-.0000001294	0.0000001087	0.0000000949
PCB_194	-.0000000613	0.0000000033	0.0000001084	-.0000000494	-.0000000254
PCB_195	-.0000000382	0.0000000023	0.0000000875	-.0000000313	-.0000000144
PCB_196	-.0000000578	0.0000000035	0.0000001249	-.0000000445	-.0000000210
PCB_201	-.0000000224	0.0000000018	0.0000000675	-.0000000196	-.0000000071
PCB_202	-.0000000327	0.0000000025	0.0000000896	-.0000000289	-.0000000111
PCB_203	-.0000001104	0.0000000069	0.0000002505	-.0000000874	-.0000000395
PCB_204	-.0000000006	0.0000000000	0.0000000017	-.0000000006	-.0000000002

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_145	0.0000000001	-.0000000002	-.0000000055	-.0000000019	-.0000000002
PCB_146	0.0000003637	-.0000002086	-.0000020847	-.0000020856	-.0000001161
PCB_148	0.0000000006	0.0000000024	0.0000000178	0.0000000374	0.0000000008
PCB_150	-.0000000010	0.0000000028	0.0000000203	0.0000000425	0.0000000010
PCB_152	-.0000000011	0.0000000019	0.0000000127	0.0000000275	0.0000000008
PCB_154	0.0000000049	0.0000000101	0.0000000355	0.0000001697	0.0000000020
PCB_155	0.0000000014	-.0000000006	0.0000000003	-.0000000066	-.0000000001
PCB_158	-.0000001022	-.0000002929	-.0000047420	-.0000038247	-.0000001668
PCB_159	0.0000000392	-.0000000129	0.0000000007	-.0000001551	-.0000000035
PCB_161	0.0000000017	-.0000000007	-.0000000003	-.0000000089	-.0000000002
PCB_162	0.0000000268	-.0000000277	-.0000001352	-.0000003810	-.0000000082
PCB_164	0.0000000632	-.0000002261	-.0000026259	-.0000029318	-.0000001063
PCB_165	-.0000000032	0.0000000019	0.0000000117	0.0000000292	-.0000000000
PCB_167	-.0000000843	-.0000001661	-.0000025354	-.0000022921	-.0000000947
PCB_169	0.0000000020	-.0000000004	0.0000000026	-.0000000043	-.0000000001
PCB_170	0.0000003768	-.0000004366	-.0000041245	-.0000056618	-.0000002056
PCB_172	0.0000001551	-.0000000957	-.0000007122	-.0000011495	-.0000000405
PCB_174	0.0000007741	-.0000003212	-.0000002445	-.0000040451	-.0000000831
PCB_175	0.0000000414	-.0000000170	-.0000000436	-.0000002057	-.0000000055
PCB_176	0.0000001210	-.0000000379	0.0000000322	-.0000004333	-.0000000094
PCB_177	0.0000005615	-.0000002278	-.0000002829	-.0000028552	-.0000000638
PCB_178	0.0000002851	-.0000000875	0.0000002029	-.0000010313	-.0000000194
PCB_179	0.0000004036	-.0000001059	0.0000004836	-.0000012099	-.0000000172
PCB_181	-.0000000005	-.0000000080	-.0000001168	-.0000001095	-.0000000047
PCB_182	-.0000000027	-.0000000045	-.0000000438	-.0000000636	-.0000000017
PCB_184	0.0000000011	-.0000000006	-.0000000019	-.0000000074	-.0000000002
PCB_186	0.0000000014	-.0000000007	-.0000000012	-.0000000086	-.0000000002
PCB_187	0.0000030940	-.0000009594	0.0000013639	-.0000111718	-.0000002485
PCB_188	0.0000000016	-.0000000007	-.0000000016	-.0000000089	-.0000000002
PCB_189	0.0000000093	-.0000000148	-.0000001677	-.0000001878	-.0000000078
PCB_190	0.0000000793	-.0000000588	-.0000004635	-.0000007518	-.0000000273
PCB_191	0.0000000261	-.0000000212	-.0000002099	-.0000002520	-.0000000099
PCB_192	-.0000000818	0.0000000912	0.0000025134	0.0000005518	0.0000000704
PCB_194	0.0000001254	-.0000000625	-.0000002569	-.0000007509	-.0000000232
PCB_195	0.0000000940	-.0000000364	-.0000000719	-.0000004265	-.0000000119
PCB_196	0.0000001371	-.0000000538	-.0000001072	-.0000006327	-.0000000180
PCB_201	0.0000000683	-.0000000226	0.0000000368	-.0000002713	-.0000000052
PCB_202	0.0000000919	-.0000000347	0.0000000164	-.0000004308	-.0000000086
PCB_203	0.0000002700	-.0000001038	-.0000001403	-.0000012381	-.0000000325
PCB_204	0.0000000017	-.0000000007	-.0000000002	-.0000000087	-.0000000002

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_145	-.0000000008	-.0000000017	-.0000000001	-.0000000001	0.0000000002
PCB_146	-.0000007284	-.0000010458	0.0000001035	0.0000000911	0.0000003597
PCB_148	0.0000000055	0.0000000070	0.0000000005	-.0000000004	0.0000000005
PCB_150	0.0000000078	0.0000000102	-.0000000000	-.0000000008	-.0000000001
PCB_152	0.0000000055	0.0000000069	-.0000000002	-.0000000007	-.0000000011
PCB_154	0.0000000179	0.0000000164	0.0000000006	-.0000000011	0.0000000051
PCB_155	-.0000000018	-.0000000018	0.0000000008	0.0000000003	0.0000000007
PCB_158	-.0000008611	-.0000014566	-.0000001598	-.0000000224	0.0000001010
PCB_159	-.0000000511	-.0000000577	0.0000000172	0.0000000110	0.0000000195
PCB_161	-.0000000023	-.0000000024	0.0000000009	0.0000000004	0.0000000008
PCB_162	-.0000000848	-.0000001036	0.0000000100	0.0000000111	0.0000000178
PCB_164	-.0000006540	-.0000009800	-.0000000236	0.0000000218	0.0000001200
PCB_165	0.0000000102	0.0000000140	-.0000000005	-.0000000009	0.0000000007
PCB_167	-.0000004492	-.0000007501	-.0000000911	-.0000000115	0.0000000358
PCB_169	-.0000000016	-.0000000014	0.0000000010	0.0000000005	0.0000000011
PCB_170	-.0000013262	-.0000018738	0.0000000941	0.0000001106	0.0000003141
PCB_172	-.0000003205	-.0000004329	0.0000000581	0.0000000358	0.0000001024
PCB_174	-.0000010916	-.0000012043	0.0000003657	0.0000002091	0.0000003640
PCB_175	-.0000000602	-.0000000711	0.0000000182	0.0000000107	0.0000000213
PCB_176	-.0000001418	-.0000001540	0.0000000566	0.0000000308	0.0000000601
PCB_177	-.0000007918	-.0000008949	0.0000002601	0.0000001491	0.0000002639
PCB_178	-.0000003125	-.0000003184	0.0000001418	0.0000000721	0.0000001342
PCB_179	-.0000004026	-.0000003916	0.0000002013	0.0000001012	0.0000001813
PCB_181	-.0000000235	-.0000000382	-.0000000028	0.0000000002	0.0000000027
PCB_182	-.0000000091	-.0000000126	-.0000000014	-.0000000003	0.0000000006
PCB_184	-.0000000019	-.0000000022	0.0000000005	0.0000000003	0.0000000006
PCB_186	-.0000000022	-.0000000024	0.0000000007	0.0000000004	0.0000000007
PCB_187	-.0000035443	-.0000037676	0.0000014745	0.0000008152	0.0000015576
PCB_188	-.0000000023	-.0000000026	0.0000000008	0.0000000004	0.0000000008
PCB_189	-.0000000458	-.0000000681	0.0000000002	0.0000000033	0.0000000116
PCB_190	-.0000001888	-.0000002571	0.0000000280	0.0000000217	0.0000000535
PCB_191	-.0000000699	-.0000001007	0.0000000077	0.0000000053	0.0000000206
PCB_192	0.0000003835	0.0000007711	0.0000000173	0.0000000494	-.0000001542
PCB_194	-.0000002063	-.0000002506	0.0000000530	0.0000000345	0.0000000772
PCB_195	-.0000001280	-.0000001484	0.0000000420	0.0000000247	0.0000000516
PCB_196	-.0000001859	-.0000002148	0.0000000625	0.0000000356	0.0000000763
PCB_201	-.0000000788	-.0000000812	0.0000000338	0.0000000176	0.0000000323
PCB_202	-.0000001158	-.0000001222	0.0000000458	0.0000000239	0.0000000430
PCB_203	-.0000003609	-.0000004098	0.0000001247	0.0000000711	0.0000001449
PCB_204	-.0000000023	-.0000000024	0.0000000008	0.0000000004	0.0000000008

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_145	0.0000000000	0.0000000026	-.0000000012	-.0000000026	0.0000000001
PCB_146	0.0000000655	0.0000004441	-.0000013168	-.0000028732	0.0000000973
PCB_148	-.0000000001	-.0000000080	0.0000000063	0.0000000013	-.0000000002
PCB_150	-.0000000002	-.0000000100	0.0000000090	0.0000000047	-.0000000006
PCB_152	-.0000000002	-.0000000046	0.0000000067	0.0000000100	-.0000000004
PCB_154	-.0000000005	-.0000000088	0.0000000112	-.0000000354	-.0000000012
PCB_155	0.0000000003	-.0000000020	-.0000000024	-.0000000026	0.0000000005
PCB_158	-.0000000036	0.0000022709	-.0000011449	-.0000020853	0.0000000021
PCB_159	0.0000000058	-.0000000209	-.0000000611	-.0000000861	0.0000000106
PCB_161	0.0000000003	-.0000000018	-.0000000031	-.0000000031	0.0000000006
PCB_162	0.0000000046	0.0000000503	-.0000000728	-.0000000961	0.0000000094
PCB_164	0.0000000236	0.0000010646	-.0000008733	-.0000014076	0.0000000430
PCB_165	0.0000000000	-.0000000189	-.0000000020	-.0000000124	-.0000000007
PCB_167	-.0000000040	0.0000011897	-.0000006220	-.0000010074	-.0000000007
PCB_169	0.0000000004	-.0000000038	-.0000000033	-.0000000049	0.0000000006
PCB_170	0.0000000835	0.0000014101	-.0000019795	-.0000028682	0.0000001517
PCB_172	0.0000000294	0.0000001718	-.0000004609	-.0000006980	0.0000000517
PCB_174	0.0000001353	-.0000005629	-.0000014027	-.0000015308	0.0000002398
PCB_175	0.0000000071	-.0000000151	-.0000000838	-.0000001096	0.0000000125
PCB_176	0.0000000201	-.0000001175	-.0000001939	-.0000002591	0.0000000347
PCB_177	0.0000000967	-.0000003326	-.0000010454	-.0000011671	0.0000001727
PCB_178	0.0000000496	-.0000003691	-.0000004380	-.0000005024	0.0000000853
PCB_179	0.0000000677	-.0000005747	-.0000005402	-.0000006047	0.0000001165
PCB_181	0.0000000003	0.0000000536	-.0000000351	-.0000000521	0.0000000009
PCB_182	0.0000000002	0.0000000148	-.0000000097	-.0000000127	0.0000000002
PCB_184	0.0000000002	-.0000000004	-.0000000025	-.0000000029	0.0000000004
PCB_186	0.0000000003	-.0000000010	-.0000000029	-.0000000028	0.0000000005
PCB_187	0.0000005144	-.0000033529	-.0000049460	-.0000065958	0.0000008906
PCB_188	0.0000000003	-.0000000010	-.0000000032	-.0000000035	0.0000000005
PCB_189	0.0000000020	0.0000000662	-.0000000684	-.0000001191	0.0000000036
PCB_190	0.0000000152	0.0000001316	-.0000002869	-.0000004043	0.0000000279
PCB_191	0.0000000053	0.0000000684	-.0000001006	-.0000001640	0.0000000093
PCB_192	-.0000000235	-.0000010595	0.0000005531	0.0000014870	-.0000000361
PCB_194	0.0000000228	-.0000000223	-.0000003140	-.0000004701	0.0000000385
PCB_195	0.0000000162	-.0000000579	-.0000001902	-.0000002711	0.0000000277
PCB_196	0.0000000242	-.0000000932	-.0000002805	-.0000003972	0.0000000413
PCB_201	0.0000000120	-.0000000840	-.0000001099	-.0000001250	0.0000000206
PCB_202	0.0000000166	-.0000001013	-.0000001586	-.0000001664	0.0000000290
PCB_203	0.0000000470	-.0000001990	-.0000005204	-.0000007087	0.0000000811
PCB_204	0.0000000003	-.0000000017	-.0000000030	-.0000000030	0.0000000005

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_145	-.0000000041	-.0000000003	-.0000000147	-.0000000006	0.0000000052
PCB_146	-.0000030126	-.0000003899	-.0000069960	-.0000003534	-.0000034002
PCB_148	0.0000000213	0.0000000016	0.0000000136	0.0000000013	0.0000000351
PCB_150	0.0000000278	0.0000000023	0.0000000274	0.0000000020	0.0000000555
PCB_152	0.0000000179	0.0000000023	0.0000000342	0.0000000017	0.0000000289
PCB_154	0.0000000692	0.0000000049	-.0000001490	-.0000000000	0.0000002053
PCB_155	-.0000000061	-.0000000008	0.0000000094	-.0000000003	-.0000000204
PCB_158	-.0000036598	-.0000003316	-.0000128033	-.0000004637	0.0000016336
PCB_159	-.0000001460	-.0000000208	-.0000000371	-.0000000120	-.0000005433
PCB_161	-.0000000079	-.0000000010	0.0000000095	-.0000000004	-.0000000254
PCB_162	-.0000002498	-.0000000326	-.0000003975	-.0000000234	-.0000005605
PCB_164	-.0000026901	-.0000002679	-.0000061217	-.0000002867	-.0000014790
PCB_165	0.0000000187	0.0000000009	0.0000000871	0.0000000024	0.0000000889
PCB_167	-.0000018817	-.0000001755	-.0000061704	-.0000002311	0.0000014915
PCB_169	-.0000000064	-.0000000009	0.0000000138	-.0000000003	-.0000000292
PCB_170	-.0000051946	-.0000005555	-.0000080976	-.0000005097	-.0000047884
PCB_172	-.0000011984	-.0000001386	-.0000013662	-.0000001151	-.0000017405
PCB_174	-.0000036197	-.0000004486	0.0000022604	-.0000002291	-.0000123921
PCB_175	-.0000002076	-.0000000253	-.0000000046	-.0000000158	-.0000005996
PCB_176	-.0000004659	-.0000000620	0.0000002978	-.0000000313	-.0000017653
PCB_177	-.0000026270	-.0000003229	0.0000012492	-.0000001758	-.0000085112
PCB_178	-.0000010221	-.0000001395	0.0000015377	-.0000000552	-.0000041054
PCB_179	-.0000012688	-.0000001761	0.0000023604	-.0000000611	-.0000060220
PCB_181	-.0000000966	-.0000000089	-.0000002696	-.0000000113	0.0000000393
PCB_182	-.0000000411	-.0000000042	-.0000000637	-.0000000035	-.0000000091
PCB_184	-.0000000064	-.0000000008	0.0000000016	-.0000000005	-.0000000153
PCB_186	-.0000000076	-.0000000009	0.0000000061	-.0000000005	-.0000000222
PCB_187	-.0000111705	-.0000015943	0.0000092033	-.0000007417	-.0000422561
PCB_188	-.0000000081	-.0000000010	0.0000000055	-.0000000005	-.0000000216
PCB_189	-.0000001774	-.0000000197	-.0000004471	-.0000000203	-.0000000853
PCB_190	-.0000006922	-.0000000804	-.0000008287	-.0000000667	-.0000007707
PCB_191	-.0000002750	-.0000000301	-.0000004680	-.0000000288	-.0000002588
PCB_192	0.0000018643	0.0000001856	0.0000073162	0.0000002934	-.0000029457
PCB_194	-.0000007596	-.0000000940	-.0000003338	-.0000000621	-.0000018472
PCB_195	-.0000004481	-.0000000575	0.0000000229	-.0000000340	-.0000013330
PCB_196	-.0000006523	-.0000000852	0.0000001038	-.0000000491	-.0000018548
PCB_201	-.0000002615	-.0000000349	0.0000003525	-.0000000143	-.0000010201
PCB_202	-.0000003881	-.0000000502	0.0000004882	-.0000000216	-.0000013748
PCB_203	-.0000012188	-.0000001624	0.0000003526	-.0000000894	-.0000036674
PCB_204	-.0000000077	-.0000000010	0.0000000089	-.0000000004	-.0000000256

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_145	-.0000000007	-.0000000000	0.0000000128	0.0000000023	-.0000000000
PCB_146	-.0000004905	-.0000000148	0.0000014110	-.0000000435	-.0000000299
PCB_148	0.0000000033	0.0000000001	-.0000000393	0.0000000070	0.0000000005
PCB_150	0.0000000044	0.0000000001	-.0000000423	0.0000000088	0.0000000007
PCB_152	0.0000000033	0.0000000001	-.0000000197	0.0000000045	0.0000000003
PCB_154	0.0000000087	0.0000000001	-.0000000394	0.0000000491	0.0000000017
PCB_155	-.0000000008	-.0000000000	-.0000000175	-.0000000034	-.0000000001
PCB_158	-.0000006540	-.0000000190	0.0000123689	0.0000010119	-.0000000581
PCB_159	-.0000000237	-.0000000007	-.0000002733	-.0000000761	-.0000000029
PCB_161	-.0000000010	-.0000000000	-.0000000180	-.0000000043	-.0000000001
PCB_162	-.0000000462	-.0000000015	0.0000001661	-.0000000643	-.0000000053
PCB_164	-.0000004444	-.0000000123	0.0000053114	0.0000001568	-.0000000412
PCB_165	0.0000000046	0.0000000002	-.0000000901	0.0000000008	0.0000000011
PCB_167	-.0000003408	-.0000000095	0.0000063585	0.0000004760	-.0000000294
PCB_169	-.0000000007	-.0000000000	-.0000000282	-.0000000050	-.0000000001
PCB_170	-.0000008302	-.0000000214	0.0000051453	-.0000003995	-.0000000787
PCB_172	-.0000001859	-.0000000051	0.0000001356	-.0000001601	-.0000000175
PCB_174	-.0000005070	-.0000000125	-.0000065915	-.0000019142	-.0000000639
PCB_175	-.0000000300	-.0000000008	-.0000002691	-.0000000847	-.0000000034
PCB_176	-.0000000643	-.0000000017	-.0000011324	-.0000002584	-.0000000076
PCB_177	-.0000003724	-.0000000091	-.0000044594	-.0000013076	-.0000000464
PCB_178	-.0000001320	-.0000000031	-.0000032685	-.0000006751	-.0000000159
PCB_179	-.0000001585	-.0000000038	-.0000048061	-.0000009624	-.0000000211
PCB_181	-.0000000168	-.0000000004	0.0000002644	0.0000000162	-.0000000016
PCB_182	-.0000000066	-.0000000002	0.0000000892	0.0000000010	-.0000000005
PCB_184	-.0000000009	-.0000000000	-.0000000081	-.0000000025	-.0000000001
PCB_186	-.0000000010	-.0000000000	-.0000000125	-.0000000036	-.0000000001
PCB_187	-.0000015801	-.0000000422	-.0000314273	-.0000067037	-.0000001771
PCB_188	-.0000000011	-.0000000000	-.0000000135	-.0000000036	-.0000000001
PCB_189	-.0000000308	-.0000000009	0.0000003033	0.0000000068	-.0000000026
PCB_190	-.0000001110	-.0000000029	0.0000002122	-.0000000996	-.0000000105
PCB_191	-.0000000436	-.0000000012	0.0000002329	-.0000000030	-.0000000039
PCB_192	0.0000003141	0.0000000110	-.0000053011	-.0000012428	0.0000000149
PCB_194	-.0000001117	-.0000000029	-.0000006574	-.0000002566	-.0000000109
PCB_195	-.0000000641	-.0000000016	-.0000007165	-.0000001940	-.0000000067
PCB_196	-.0000000929	-.0000000024	-.0000011139	-.0000002800	-.0000000094
PCB_201	-.0000000341	-.0000000008	-.0000007590	-.0000001670	-.0000000041
PCB_202	-.0000000513	-.0000000012	-.0000009871	-.0000002306	-.0000000062
PCB_203	-.0000001755	-.0000000046	-.0000022901	-.0000005655	-.0000000184
PCB_204	-.0000000010	-.0000000000	-.0000000174	-.0000000043	-.0000000001

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_145	0.0000000011	0.0000000272	-.0000000002	-.0000000000	0.0000000003
PCB_146	0.0000001140	-.0000000703	-.0000000913	-.0000000159	0.0000000308
PCB_148	-.0000000029	-.0000001108	0.0000000017	0.0000000002	-.0000000011
PCB_150	-.0000000034	-.0000000925	0.0000000022	0.0000000003	-.0000000012
PCB_152	-.0000000016	-.0000000319	0.0000000011	0.0000000002	-.0000000005
PCB_154	0.0000000004	-.0000001860	0.0000000058	0.0000000006	-.0000000027
PCB_155	-.0000000016	-.0000000624	-.0000000002	-.0000000000	-.0000000002
PCB_158	0.0000010283	0.0000307924	-.0000002303	-.0000000281	0.0000002511
PCB_159	-.0000000215	-.0000012591	-.0000000075	-.0000000011	-.0000000026
PCB_161	-.0000000016	-.0000000663	-.0000000003	-.0000000000	-.0000000002
PCB_162	0.0000000131	-.0000001736	-.0000000172	-.0000000022	0.0000000065
PCB_164	0.0000004226	0.0000120085	-.0000001501	-.0000000189	0.0000001236
PCB_165	-.0000000083	-.0000000950	0.0000000037	0.0000000004	-.0000000025
PCB_167	0.0000005303	0.0000161349	-.0000001183	-.0000000144	0.0000001285
PCB_169	-.0000000025	-.0000000870	-.0000000001	-.0000000000	-.0000000004
PCB_170	0.0000004162	0.0000075668	-.0000002641	-.0000000341	0.0000001509
PCB_172	0.0000000087	-.0000019179	-.0000000545	-.0000000071	0.0000000186
PCB_174	-.0000005772	-.0000265337	-.0000001694	-.0000000226	-.0000000491
PCB_175	-.0000000232	-.0000012031	-.0000000093	-.0000000013	-.0000000015
PCB_176	-.0000000969	-.0000043500	-.0000000182	-.0000000026	-.0000000122
PCB_177	-.0000003838	-.0000185554	-.0000001240	-.0000000164	-.0000000306
PCB_178	-.0000002814	-.0000117099	-.0000000354	-.0000000052	-.0000000382
PCB_179	-.0000004121	-.0000170077	-.0000000445	-.0000000066	-.0000000586
PCB_181	0.0000000224	0.0000006328	-.0000000059	-.0000000007	0.0000000057
PCB_182	0.0000000061	0.0000002540	-.0000000021	-.0000000003	0.0000000021
PCB_184	-.0000000007	-.0000000358	-.0000000003	-.0000000000	-.0000000000
PCB_186	-.0000000011	-.0000000501	-.0000000003	-.0000000000	-.0000000001
PCB_187	-.0000026446	-.0001184953	-.0000004053	-.0000000613	-.0000003781
PCB_188	-.0000000012	-.0000000545	-.0000000003	-.0000000000	-.0000000001
PCB_189	0.0000000257	0.0000006071	-.0000000093	-.0000000012	0.0000000066
PCB_190	0.0000000197	-.0000006518	-.0000000331	-.0000000043	0.0000000122
PCB_191	0.0000000186	0.0000001782	-.0000000130	-.0000000017	0.0000000076
PCB_192	-.0000004423	-.0000101646	0.0000000714	0.0000000079	-.0000001185
PCB_194	-.0000000595	-.0000030728	-.0000000303	-.0000000044	-.0000000027
PCB_195	-.0000000618	-.0000029200	-.0000000174	-.0000000025	-.0000000065
PCB_196	-.0000000961	-.0000044534	-.0000000238	-.0000000035	-.0000000107
PCB_201	-.0000000658	-.0000027328	-.0000000096	-.0000000014	-.0000000085
PCB_202	-.0000000862	-.0000036283	-.0000000152	-.0000000021	-.0000000099
PCB_203	-.0000001957	-.0000091666	-.0000000466	-.0000000068	-.0000000225
PCB_204	-.0000000015	-.0000000651	-.0000000003	-.0000000000	-.0000000002

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_145	0.0000000006	0.0000000002	0.0000000001	0.0000000019	0.0000000006
PCB_146	0.0000002574	0.0000001537	0.0000000343	0.0000006246	0.0000002587
PCB_148	-.0000000028	-.0000000011	-.0000000003	-.0000000070	-.0000000018
PCB_150	-.0000000038	-.0000000016	-.0000000002	-.0000000083	-.0000000022
PCB_152	-.0000000024	-.0000000009	-.0000000002	-.0000000053	-.0000000016
PCB_154	0.0000000095	-.0000000047	-.0000000005	-.0000000120	-.0000000014
PCB_155	-.0000000023	0.0000000007	-.0000000001	-.0000000012	-.0000000003
PCB_158	0.0000010275	0.0000001287	0.0000000877	0.0000018863	0.0000005833
PCB_159	-.0000000228	0.0000000143	-.0000000019	-.0000000061	-.0000000002
PCB_161	-.0000000023	0.0000000009	-.0000000001	-.0000000010	-.0000000002
PCB_162	0.0000000026	0.0000000166	0.0000000016	0.0000000632	0.0000000183
PCB_164	0.0000003734	0.0000001316	0.0000000428	0.0000009622	0.0000003052
PCB_165	-.0000000064	-.0000000010	0.0000000000	-.0000000139	-.0000000034
PCB_167	0.0000005095	0.0000000806	0.0000000443	0.0000009641	0.0000002917
PCB_169	-.0000000024	0.0000000007	-.0000000001	-.0000000023	-.0000000005
PCB_170	0.0000003290	0.0000003499	0.0000000411	0.0000012636	0.0000004178
PCB_172	-.0000000401	0.0000000949	0.0000000015	0.0000001769	0.0000000678
PCB_174	-.0000007551	0.0000003531	-.0000000422	-.0000002326	-.0000000375
PCB_175	-.0000000292	0.0000000188	-.0000000016	-.0000000013	0.0000000021
PCB_176	-.0000001125	0.0000000464	-.0000000068	-.0000000589	-.0000000104
PCB_177	-.0000005040	0.0000002596	-.0000000307	-.0000001373	-.0000000169
PCB_178	-.0000003473	0.0000001175	-.0000000208	-.0000002251	-.0000000522
PCB_179	-.0000004896	0.0000001499	-.0000000311	-.0000003586	-.0000000871
PCB_181	0.0000000217	0.0000000052	0.0000000017	0.0000000419	0.0000000128
PCB_182	0.0000000023	0.0000000017	0.0000000010	0.0000000156	0.0000000046
PCB_184	-.0000000012	0.0000000006	-.0000000001	-.0000000000	0.0000000000
PCB_186	-.0000000017	0.0000000008	-.0000000001	-.0000000004	-.0000000001
PCB_187	-.0000030640	0.0000012144	-.0000001927	-.0000018437	-.0000003775
PCB_188	-.0000000018	0.0000000009	-.0000000001	-.0000000005	-.0000000001
PCB_189	0.0000000285	0.0000000096	0.0000000025	0.0000000597	0.0000000195
PCB_190	0.0000000007	0.0000000574	0.0000000012	0.0000001162	0.0000000410
PCB_191	0.0000000082	0.0000000190	0.0000000018	0.0000000627	0.0000000222
PCB_192	-.0000002080	-.0000001116	-.0000000296	-.0000008151	-.0000002956
PCB_194	-.0000000645	0.0000000597	-.0000000014	0.0000000343	0.0000000207
PCB_195	-.0000000693	0.0000000402	-.0000000036	-.0000000164	0.0000000018
PCB_196	-.0000001145	0.0000000613	-.0000000058	-.0000000328	0.0000000001
PCB_201	-.0000000809	0.0000000287	-.0000000047	-.0000000490	-.0000000111
PCB_202	-.0000001139	0.0000000427	-.0000000064	-.0000000586	-.0000000133
PCB_203	-.0000002394	0.0000001197	-.0000000130	-.0000000816	-.0000000073
PCB_204	-.0000000022	0.0000000008	-.0000000001	-.0000000009	-.0000000002

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_145	0.0000000032	0.0000000002	0.0000000001	0.0000000030	0.0000000046
PCB_146	0.0000058550	0.0000001241	-.0000001085	0.0000008434	0.0000035315
PCB_148	-.0000000060	0.0000000011	0.0000000074	-.0000000049	-.0000000172
PCB_150	-.0000000084	0.0000000011	0.0000000074	-.0000000067	-.0000000248
PCB_152	-.0000000209	0.0000000003	0.0000000042	-.0000000054	-.0000000196
PCB_154	-.0000000645	0.0000000062	0.0000000229	0.0000000130	-.0000000379
PCB_155	0.0000000159	0.0000000002	0.0000000013	-.0000000027	0.0000000057
PCB_158	0.0000019036	-.0000000123	-.0000008451	0.0000026313	0.0000040322
PCB_159	0.0000003024	0.0000000044	0.0000000198	-.0000000231	0.0000001639
PCB_161	0.0000000169	0.0000000002	0.0000000011	-.0000000028	0.0000000072
PCB_162	0.0000004022	-.0000000022	-.0000000150	0.0000000635	0.0000002836
PCB_164	0.0000028220	0.0000000060	-.0000004029	0.0000011915	0.0000028208
PCB_165	0.0000000088	0.0000000014	-.0000000021	-.0000000200	-.0000000262
PCB_167	0.0000004587	-.0000000191	-.0000005317	0.0000013145	0.0000019971
PCB_169	0.0000000204	0.0000000004	0.0000000014	-.0000000046	0.0000000058
PCB_170	0.0000052511	0.0000000497	-.0000006033	0.0000013792	0.0000052621
PCB_172	0.0000017420	0.0000000306	0.0000000059	0.0000001678	0.0000012463
PCB_174	0.0000072854	0.0000000788	0.0000003656	-.0000009127	0.0000034914
PCB_175	0.0000003850	0.0000000056	0.0000000157	-.0000000274	0.0000002083
PCB_176	0.0000011181	0.0000000177	0.0000000811	-.0000001482	0.0000004733
PCB_177	0.0000049104	0.0000000610	0.0000002468	-.0000005849	0.0000025487
PCB_178	0.0000025422	0.0000000409	0.0000002128	-.0000004951	0.0000009710
PCB_179	0.0000035113	0.0000000559	0.0000003412	-.0000007416	0.0000012155
PCB_181	0.0000000192	-.0000000003	-.0000000234	0.0000000559	0.0000000997
PCB_182	0.0000000622	-.0000000008	-.0000000087	0.0000000161	0.0000000392
PCB_184	0.0000000112	0.0000000001	0.0000000004	-.0000000009	0.0000000062
PCB_186	0.0000000142	0.0000000002	0.0000000007	-.0000000019	0.0000000069
PCB_187	0.0000268122	0.0000004544	0.0000020062	-.0000041653	0.0000114162
PCB_188	0.0000000146	0.0000000002	0.0000000007	-.0000000019	0.0000000075
PCB_189	0.0000001662	0.0000000017	-.0000000289	0.0000000779	0.0000001947
PCB_190	0.0000007180	0.0000000124	-.0000000466	0.0000001135	0.0000007046
PCB_191	0.0000003614	0.0000000064	-.0000000079	0.0000000756	0.0000002909
PCB_192	-.0000024620	-.0000001171	-.0000002057	-.0000014132	-.0000022790
PCB_194	0.0000014311	0.0000000196	0.0000000128	-.0000000388	0.0000007742
PCB_195	0.0000009233	0.0000000146	0.0000000379	-.0000000784	0.0000004549
PCB_196	0.0000013476	0.0000000225	0.0000000593	-.0000001266	0.0000006571
PCB_201	0.0000006287	0.0000000092	0.0000000464	-.0000001151	0.0000002475
PCB_202	0.0000008485	0.0000000115	0.0000000567	-.0000001514	0.0000003599
PCB_203	0.0000025387	0.0000000410	0.0000001286	-.0000002705	0.0000012306
PCB_204	0.0000000161	0.0000000002	0.0000000010	-.0000000027	0.0000000070

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_145	0.0000000000	0.0000000027	0.0000000000	0.0000000034	0.0000000000
PCB_146	0.0000000085	0.0000014492	0.0000000034	0.0000036001	-.0000000014
PCB_148	-.0000000000	0.0000000010	0.0000000000	-.0000000014	0.0000000002
PCB_150	-.0000000000	-.0000000024	0.0000000000	-.0000000080	0.0000000002
PCB_152	-.0000000000	-.0000000038	0.0000000000	-.0000000122	0.0000000001
PCB_154	-.0000000001	0.0000000208	0.0000000001	0.0000000238	0.0000000010
PCB_155	0.0000000000	0.0000000028	0.0000000000	0.0000000074	-.0000000000
PCB_158	-.0000000012	0.0000012793	0.0000000047	0.0000019090	-.0000000113
PCB_159	0.0000000009	0.0000000738	0.0000000001	0.0000001872	-.0000000003
PCB_161	0.0000000000	0.0000000031	0.0000000000	0.0000000085	-.0000000000
PCB_162	0.0000000007	0.0000000908	0.0000000001	0.0000001920	-.0000000012
PCB_164	0.0000000031	0.0000009032	0.0000000026	0.0000017255	-.0000000087
PCB_165	-.0000000000	-.0000000125	-.0000000000	-.0000000017	0.0000000001
PCB_167	-.0000000007	0.0000005561	0.0000000020	0.0000008241	-.0000000075
PCB_169	0.0000000001	0.0000000026	-.0000000000	0.0000000099	-.0000000000
PCB_170	0.0000000119	0.0000017779	0.0000000039	0.0000039385	-.0000000157
PCB_172	0.0000000041	0.0000005344	0.0000000012	0.0000011552	-.0000000016
PCB_174	0.0000000200	0.0000014071	0.0000000009	0.0000038259	-.0000000099
PCB_175	0.0000000010	0.0000000873	0.0000000001	0.0000002249	-.0000000004
PCB_176	0.0000000029	0.0000002188	0.0000000002	0.0000005959	-.0000000006
PCB_177	0.0000000143	0.0000010547	0.0000000008	0.0000027886	-.0000000065
PCB_178	0.0000000073	0.0000004620	0.0000000002	0.0000013242	-.0000000015
PCB_179	0.0000000099	0.0000006065	0.0000000002	0.0000017612	-.0000000015
PCB_181	0.0000000000	0.0000000303	0.0000000001	0.0000000502	-.0000000003
PCB_182	0.0000000000	0.0000000074	0.0000000000	0.0000000148	-.0000000002
PCB_184	0.0000000000	0.0000000026	0.0000000000	0.0000000064	-.0000000000
PCB_186	0.0000000000	0.0000000029	0.0000000000	0.0000000074	-.0000000000
PCB_187	0.0000000754	0.0000053505	0.0000000034	0.0000149833	-.0000000149
PCB_188	0.0000000000	0.0000000033	0.0000000000	0.0000000083	-.0000000000
PCB_189	0.0000000003	0.0000000648	0.0000000002	0.0000001381	-.0000000005
PCB_190	0.0000000022	0.0000002702	0.0000000005	0.0000006114	-.0000000016
PCB_191	0.0000000007	0.0000001234	0.0000000003	0.0000002456	-.0000000003
PCB_192	-.0000000018	-.0000015095	-.0000000061	-.0000019852	-.0000000103
PCB_194	0.0000000033	0.0000002929	0.0000000004	0.0000008049	-.0000000018
PCB_195	0.0000000023	0.0000001908	0.0000000002	0.0000005234	-.0000000008
PCB_196	0.0000000035	0.0000002822	0.0000000003	0.0000007702	-.0000000011
PCB_201	0.0000000018	0.0000001111	0.0000000000	0.0000003227	-.0000000005
PCB_202	0.0000000025	0.0000001564	0.0000000001	0.0000004418	-.0000000009
PCB_203	0.0000000069	0.0000005362	0.0000000005	0.0000014516	-.0000000021
PCB_204	0.0000000000	0.0000000030	0.0000000000	0.0000000082	-.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_145	0.0000000000	0.0000000000	0.0000000001	0.0000000000	0.0000000047
PCB_146	-.0000000080	-.0000000122	0.0000000238	0.0000000074	0.0000019090
PCB_148	0.0000000002	0.0000000001	0.0000000010	-.0000000000	-.0000000113
PCB_150	0.0000000003	0.0000000001	0.0000000009	-.0000000000	-.0000000143
PCB_152	0.0000000001	0.0000000001	0.0000000005	-.0000000000	-.0000000112
PCB_154	0.0000000009	0.0000000005	0.0000000059	-.0000000001	-.0000000061
PCB_155	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000014
PCB_158	-.0000000143	-.0000000112	-.0000000061	-.0000000014	0.0000041288
PCB_159	-.0000000009	-.0000000009	-.0000000011	0.0000000007	0.0000000072
PCB_161	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000012
PCB_162	-.0000000017	-.0000000016	-.0000000056	0.0000000006	0.0000001438
PCB_164	-.0000000119	-.0000000096	-.0000000208	0.0000000025	0.0000021830
PCB_165	0.0000000002	0.0000000001	0.0000000003	-.0000000000	-.0000000260
PCB_167	-.0000000087	-.0000000066	-.0000000123	-.0000000009	0.0000020516
PCB_169	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000035
PCB_170	-.0000000251	-.0000000203	-.0000000388	0.0000000098	0.0000029882
PCB_172	-.0000000045	-.0000000044	-.0000000018	0.0000000036	0.0000005166
PCB_174	-.0000000215	-.0000000178	-.0000000566	0.0000000172	-.0000001364
PCB_175	-.0000000011	-.0000000009	-.0000000018	0.0000000009	0.0000000213
PCB_176	-.0000000023	-.0000000023	-.0000000039	0.0000000025	-.0000000512
PCB_177	-.0000000151	-.0000000125	-.0000000345	0.0000000123	-.0000000310
PCB_178	-.0000000054	-.0000000051	-.0000000123	0.0000000063	-.0000003178
PCB_179	-.0000000069	-.0000000064	-.0000000156	0.0000000087	-.0000005432
PCB_181	-.0000000005	-.0000000003	-.0000000004	0.0000000000	0.0000000897
PCB_182	-.0000000002	-.0000000002	-.0000000012	0.0000000000	0.0000000336
PCB_184	-.0000000000	-.0000000000	-.0000000001	0.0000000000	0.0000000006
PCB_186	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000002
PCB_187	-.0000000581	-.0000000596	-.0000000981	0.0000000656	-.0000020711
PCB_188	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000002
PCB_189	-.0000000008	-.0000000007	-.0000000006	0.0000000002	0.0000001391
PCB_190	-.0000000032	-.0000000029	-.0000000033	0.0000000019	0.0000003018
PCB_191	-.0000000009	-.0000000009	0.0000000003	0.0000000006	0.0000001647
PCB_192	-.0000000072	-.0000000015	-.0000000765	-.0000000022	-.0000022484
PCB_194	-.0000000038	-.0000000035	-.0000000067	0.0000000028	0.0000001634
PCB_195	-.0000000022	-.0000000021	-.0000000035	0.0000000020	0.0000000268
PCB_196	-.0000000031	-.0000000031	-.0000000048	0.0000000030	0.0000000240
PCB_201	-.0000000014	-.0000000013	-.0000000036	0.0000000015	-.0000000669
PCB_202	-.0000000022	-.0000000019	-.0000000059	0.0000000021	-.0000000777
PCB_203	-.0000000061	-.0000000060	-.0000000104	0.0000000059	-.0000000014
PCB_204	-.0000000000	-.0000000000	-.0000000001	0.0000000000	-.0000000011

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_145	0.0000000001	0.0000000000	0.0000000001	0.0000000026	-.0000000000
PCB_146	0.0000001872	0.0000000085	0.0000001920	0.0000017255	-.0000000017
PCB_148	-.0000000003	-.0000000000	-.0000000012	-.0000000087	0.0000000001
PCB_150	-.0000000009	-.0000000000	-.0000000017	-.0000000119	0.0000000002
PCB_152	-.0000000009	-.0000000000	-.0000000016	-.0000000096	0.0000000001
PCB_154	-.0000000011	-.0000000001	-.0000000056	-.0000000208	0.0000000003
PCB_155	0.0000000007	0.0000000000	0.0000000006	0.0000000025	-.0000000000
PCB_158	0.0000000072	-.0000000012	0.0000001438	0.0000021830	-.0000000260
PCB_159	0.0000000178	0.0000000009	0.0000000164	0.0000000711	-.0000000008
PCB_161	0.0000000009	0.0000000000	0.0000000007	0.0000000031	-.0000000000
PCB_162	0.0000000164	0.0000000007	0.0000000267	0.0000001433	-.0000000025
PCB_164	0.0000000711	0.0000000031	0.0000001433	0.0000014750	-.0000000142
PCB_165	-.0000000008	-.0000000000	-.0000000025	-.0000000142	0.0000000010
PCB_167	-.0000000008	-.0000000007	0.0000000746	0.0000010762	-.0000000104
PCB_169	0.0000000009	0.0000000001	0.0000000006	0.0000000022	0.0000000000
PCB_170	0.0000002435	0.0000000119	0.0000003035	0.0000025820	-.0000000150
PCB_172	0.0000000825	0.0000000041	0.0000000822	0.0000005981	-.0000000040
PCB_174	0.0000003817	0.0000000200	0.0000003420	0.0000015296	-.0000000111
PCB_175	0.0000000201	0.0000000010	0.0000000176	0.0000000928	-.0000000006
PCB_176	0.0000000565	0.0000000029	0.0000000463	0.0000002028	-.0000000011
PCB_177	0.0000002739	0.0000000143	0.0000002401	0.0000011111	-.0000000079
PCB_178	0.0000001361	0.0000000073	0.0000001061	0.0000003977	-.0000000006
PCB_179	0.0000001865	0.0000000099	0.0000001419	0.0000004842	-.0000000018
PCB_181	0.0000000013	0.0000000000	0.0000000038	0.0000000515	-.0000000004
PCB_182	0.0000000003	0.0000000000	0.0000000026	0.0000000225	-.0000000002
PCB_184	0.0000000006	0.0000000000	0.0000000006	0.0000000028	-.0000000000
PCB_186	0.0000000007	0.0000000000	0.0000000007	0.0000000031	-.0000000000
PCB_187	0.0000014593	0.0000000754	0.0000011889	0.0000047710	-.0000000145
PCB_188	0.0000000008	0.0000000000	0.0000000007	0.0000000033	-.0000000000
PCB_189	0.0000000065	0.0000000003	0.0000000102	0.0000000979	-.0000000007
PCB_190	0.0000000445	0.0000000022	0.0000000458	0.0000003317	-.0000000015
PCB_191	0.0000000148	0.0000000007	0.0000000164	0.0000001446	-.0000000011
PCB_192	-.0000000478	-.0000000018	-.0000000540	-.0000012653	0.0000000161
PCB_194	0.0000000642	0.0000000033	0.0000000601	0.0000003548	-.0000000009
PCB_195	0.0000000456	0.0000000023	0.0000000390	0.0000002008	-.0000000006
PCB_196	0.0000000675	0.0000000035	0.0000000571	0.0000002893	-.0000000005
PCB_201	0.0000000329	0.0000000018	0.0000000264	0.0000001029	-.0000000002
PCB_202	0.0000000457	0.0000000025	0.0000000377	0.0000001521	-.0000000004
PCB_203	0.0000001323	0.0000000069	0.0000001131	0.0000005378	-.0000000015
PCB_204	0.0000000009	0.0000000000	0.0000000007	0.0000000030	-.0000000000

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_145	0.0000000020	-.0000000000	0.0000000039	0.0000000012	0.0000000009
PCB_146	0.0000008241	0.0000000099	0.0000039385	0.0000011552	0.0000038259
PCB_148	-.0000000075	-.0000000000	-.0000000157	-.0000000016	-.0000000099
PCB_150	-.0000000087	-.0000000000	-.0000000251	-.0000000045	-.0000000215
PCB_152	-.0000000066	-.0000000000	-.0000000203	-.0000000044	-.0000000178
PCB_154	-.0000000123	-.0000000001	-.0000000388	-.0000000018	-.0000000566
PCB_155	-.0000000009	0.0000000000	0.0000000098	0.0000000036	0.0000000172
PCB_158	0.0000020516	-.0000000035	0.0000029882	0.0000005166	-.0000001364
PCB_159	-.0000000008	0.0000000009	0.0000002435	0.0000000825	0.0000003817
PCB_161	-.0000000007	0.0000000001	0.0000000119	0.0000000041	0.0000000200
PCB_162	0.0000000746	0.0000000006	0.0000003035	0.0000000822	0.0000003420
PCB_164	0.0000010762	0.0000000022	0.0000025820	0.0000005981	0.0000015296
PCB_165	-.0000000104	0.0000000000	-.0000000150	-.0000000040	-.0000000111
PCB_167	0.0000010862	-.0000000021	0.0000015408	0.0000002343	-.0000001343
PCB_169	-.0000000021	0.0000000001	0.0000000115	0.0000000042	0.0000000215
PCB_170	0.0000015408	0.0000000115	0.0000058956	0.0000015505	0.0000053700
PCB_172	0.0000002343	0.0000000042	0.0000015505	0.0000004758	0.0000018027
PCB_174	-.0000001343	0.0000000215	0.0000053700	0.0000018027	0.0000086804
PCB_175	0.0000000055	0.0000000011	0.0000003020	0.0000000994	0.0000004492
PCB_176	-.0000000463	0.0000000033	0.0000007546	0.0000002661	0.0000012640
PCB_177	-.0000000594	0.0000000154	0.0000039169	0.0000013096	0.0000061946
PCB_178	-.0000001902	0.0000000081	0.0000017346	0.0000006273	0.0000030970
PCB_179	-.0000003337	0.0000000111	0.0000022508	0.0000008394	0.0000042363
PCB_181	0.0000000476	-.0000000000	0.0000000893	0.0000000173	0.0000000239
PCB_182	0.0000000181	-.0000000000	0.0000000304	0.0000000050	0.0000000109
PCB_184	0.0000000003	0.0000000000	0.0000000092	0.0000000030	0.0000000136
PCB_186	-.0000000002	0.0000000000	0.0000000108	0.0000000036	0.0000000172
PCB_187	-.0000013537	0.0000000837	0.0000191667	0.0000067682	0.0000324438
PCB_188	-.0000000001	0.0000000000	0.0000000119	0.0000000040	0.0000000186
PCB_189	0.0000000708	0.0000000002	0.0000001947	0.0000000469	0.0000001304
PCB_190	0.0000001607	0.0000000022	0.0000008939	0.0000002566	0.0000009705
PCB_191	0.0000000753	0.0000000007	0.0000003265	0.0000000955	0.0000003180
PCB_192	-.0000009027	-.0000000008	-.0000019834	-.0000006606	-.0000007222
PCB_194	0.0000000687	0.0000000036	0.0000010515	0.0000003290	0.0000014356
PCB_195	0.0000000015	0.0000000026	0.0000006742	0.0000002240	0.0000010190
PCB_196	-.0000000020	0.0000000039	0.0000009957	0.0000003328	0.0000015110
PCB_201	-.0000000404	0.0000000019	0.0000004286	0.0000001522	0.0000007520
PCB_202	-.0000000445	0.0000000027	0.0000006127	0.0000002136	0.0000010481
PCB_203	-.0000000240	0.0000000075	0.0000019020	0.0000006415	0.0000029536
PCB_204	-.0000000007	0.0000000000	0.0000000117	0.0000000040	0.0000000197

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_145	0.0000000001	0.0000000002	0.0000000008	0.0000000002	0.0000000002
PCB_146	0.0000002249	0.0000005959	0.0000027886	0.0000013242	0.0000017612
PCB_148	-.0000000004	-.0000000006	-.0000000065	-.0000000015	-.0000000015
PCB_150	-.0000000011	-.0000000023	-.0000000151	-.0000000054	-.0000000069
PCB_152	-.0000000009	-.0000000023	-.0000000125	-.0000000051	-.0000000064
PCB_154	-.0000000018	-.0000000039	-.0000000345	-.0000000123	-.0000000156
PCB_155	0.0000000009	0.0000000025	0.0000000123	0.0000000063	0.0000000087
PCB_158	0.0000000213	-.0000000512	-.0000000310	-.0000003178	-.0000005432
PCB_159	0.0000000201	0.0000000565	0.0000002739	0.0000001361	0.0000001865
PCB_161	0.0000000010	0.0000000029	0.0000000143	0.0000000073	0.0000000099
PCB_162	0.0000000176	0.0000000463	0.0000002401	0.0000001061	0.0000001419
PCB_164	0.0000000928	0.0000002028	0.0000011111	0.0000003977	0.0000004842
PCB_165	-.0000000006	-.0000000011	-.0000000079	-.0000000006	-.0000000018
PCB_167	0.0000000055	-.0000000463	-.0000000594	-.0000001902	-.0000003337
PCB_169	0.0000000011	0.0000000033	0.0000000154	0.0000000081	0.0000000111
PCB_170	0.0000003020	0.0000007546	0.0000039169	0.0000017346	0.0000022508
PCB_172	0.0000000994	0.0000002661	0.0000013096	0.0000006273	0.0000008394
PCB_174	0.0000004492	0.0000012640	0.0000061946	0.0000030970	0.0000042363
PCB_175	0.0000000237	0.0000000661	0.0000003225	0.0000001601	0.0000002183
PCB_176	0.0000000661	0.0000001883	0.0000009043	0.0000004590	0.0000006305
PCB_177	0.0000003225	0.0000009043	0.0000044365	0.0000022137	0.0000030231
PCB_178	0.0000001601	0.0000004590	0.0000022137	0.0000011366	0.0000015594
PCB_179	0.0000002183	0.0000006305	0.0000030231	0.0000015594	0.0000021502
PCB_181	0.0000000019	0.0000000024	0.0000000198	0.0000000027	0.0000000003
PCB_182	0.0000000005	0.0000000006	0.0000000064	0.0000000007	-.0000000003
PCB_184	0.0000000007	0.0000000020	0.0000000097	0.0000000048	0.0000000065
PCB_186	0.0000000009	0.0000000025	0.0000000123	0.0000000062	0.0000000084
PCB_187	0.0000016926	0.0000048252	0.0000232427	0.0000118444	0.0000162185
PCB_188	0.0000000010	0.0000000027	0.0000000133	0.0000000067	0.0000000091
PCB_189	0.0000000079	0.0000000183	0.0000000964	0.0000000382	0.0000000474
PCB_190	0.0000000535	0.0000001399	0.0000007097	0.0000003332	0.0000004389
PCB_191	0.0000000182	0.0000000470	0.0000002326	0.0000001072	0.0000001417
PCB_192	-.0000000682	-.0000001539	-.0000006236	-.0000002524	-.0000003028
PCB_194	0.0000000766	0.0000002111	0.0000010295	0.0000005064	0.0000006859
PCB_195	0.0000000539	0.0000001511	0.0000007311	0.0000003661	0.0000004992
PCB_196	0.0000000799	0.0000002241	0.0000010850	0.0000005457	0.0000007425
PCB_201	0.0000000388	0.0000001110	0.0000005369	0.0000002744	0.0000003763
PCB_202	0.0000000540	0.0000001535	0.0000007486	0.0000003807	0.0000005203
PCB_203	0.0000001553	0.0000004369	0.0000021193	0.0000010668	0.0000014529
PCB_204	0.0000000010	0.0000000029	0.0000000140	0.0000000071	0.0000000097

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_145	0.0000000001	0.0000000000	0.0000000000	0.0000000000	0.0000000034
PCB_146	0.0000000502	0.0000000148	0.0000000064	0.0000000074	0.0000149833
PCB_148	-.0000000003	-.0000000002	-.0000000000	-.0000000000	-.0000000149
PCB_150	-.0000000005	-.0000000002	-.0000000000	-.0000000000	-.0000000581
PCB_152	-.0000000003	-.0000000002	-.0000000000	-.0000000000	-.0000000596
PCB_154	-.0000000004	-.0000000012	-.0000000001	-.0000000001	-.0000000981
PCB_155	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000656
PCB_158	0.0000000897	0.0000000336	0.0000000006	-.0000000002	-.0000020711
PCB_159	0.0000000013	0.0000000003	0.0000000006	0.0000000007	0.0000014593
PCB_161	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000754
PCB_162	0.0000000038	0.0000000026	0.0000000006	0.0000000007	0.0000011889
PCB_164	0.0000000515	0.0000000225	0.0000000028	0.0000000031	0.0000047710
PCB_165	-.0000000004	-.0000000002	-.0000000000	-.0000000000	-.0000000145
PCB_167	0.0000000476	0.0000000181	0.0000000003	-.0000000002	-.0000013537
PCB_169	-.0000000000	-.0000000000	0.0000000000	0.0000000000	0.0000000837
PCB_170	0.0000000893	0.0000000304	0.0000000092	0.0000000108	0.0000191667
PCB_172	0.0000000173	0.0000000050	0.0000000030	0.0000000036	0.0000067682
PCB_174	0.0000000239	0.0000000109	0.0000000136	0.0000000172	0.0000324438
PCB_175	0.0000000019	0.0000000005	0.0000000007	0.0000000009	0.0000016926
PCB_176	0.0000000024	0.0000000006	0.0000000020	0.0000000025	0.0000048252
PCB_177	0.0000000198	0.0000000064	0.0000000097	0.0000000123	0.0000232427
PCB_178	0.0000000027	0.0000000007	0.0000000048	0.0000000062	0.0000118444
PCB_179	0.0000000003	-.0000000003	0.0000000065	0.0000000084	0.0000162185
PCB_181	0.0000000023	0.0000000007	0.0000000001	0.0000000001	0.0000000565
PCB_182	0.0000000007	0.0000000006	0.0000000000	0.0000000000	0.0000000111
PCB_184	0.0000000001	0.0000000000	0.0000000000	0.0000000000	0.0000000509
PCB_186	0.0000000001	0.0000000000	0.0000000000	0.0000000000	0.0000000641
PCB_187	0.0000000565	0.0000000111	0.0000000509	0.0000000641	0.0001248290
PCB_188	0.0000000001	0.0000000000	0.0000000000	0.0000000000	0.0000000699
PCB_189	0.0000000036	0.0000000012	0.0000000002	0.0000000003	0.0000004600
PCB_190	0.0000000112	0.0000000029	0.0000000016	0.0000000020	0.0000036292
PCB_191	0.0000000046	0.0000000014	0.0000000005	0.0000000006	0.0000011771
PCB_192	-.0000000451	-.0000000084	-.0000000020	-.0000000019	-.0000032520
PCB_194	0.0000000081	0.0000000030	0.0000000023	0.0000000028	0.0000054005
PCB_195	0.0000000038	0.0000000011	0.0000000016	0.0000000020	0.0000038761
PCB_196	0.0000000055	0.0000000015	0.0000000024	0.0000000030	0.0000057707
PCB_201	0.0000000009	0.0000000004	0.0000000012	0.0000000015	0.0000028604
PCB_202	0.0000000018	0.0000000008	0.0000000016	0.0000000021	0.0000039632
PCB_203	0.0000000096	0.0000000028	0.0000000047	0.0000000059	0.0000112768
PCB_204	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000739

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_145	0.0000000000	0.0000000002	0.0000000005	0.0000000003	-.0000000061
PCB_146	0.0000000083	0.0000001381	0.0000006114	0.0000002456	-.0000019852
PCB_148	-.0000000000	-.0000000005	-.0000000016	-.0000000003	-.0000000103
PCB_150	-.0000000000	-.0000000008	-.0000000032	-.0000000009	-.0000000072
PCB_152	-.0000000000	-.0000000007	-.0000000029	-.0000000009	-.0000000015
PCB_154	-.0000000001	-.0000000006	-.0000000033	0.0000000003	-.0000000765
PCB_155	0.0000000000	0.0000000002	0.0000000019	0.0000000006	-.0000000022
PCB_158	-.0000000002	0.0000001391	0.0000003018	0.0000001647	-.0000022484
PCB_159	0.0000000008	0.0000000065	0.0000000445	0.0000000148	-.0000000478
PCB_161	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000018
PCB_162	0.0000000007	0.0000000102	0.0000000458	0.0000000164	-.0000000540
PCB_164	0.0000000033	0.0000000979	0.0000003317	0.0000001446	-.0000012653
PCB_165	-.0000000000	-.0000000007	-.0000000015	-.0000000011	0.0000000161
PCB_167	-.0000000001	0.0000000708	0.0000001607	0.0000000753	-.0000009027
PCB_169	0.0000000000	0.0000000002	0.0000000022	0.0000000007	-.0000000008
PCB_170	0.0000000119	0.0000001947	0.0000008939	0.0000003265	-.0000019834
PCB_172	0.0000000040	0.0000000469	0.0000002566	0.0000000955	-.0000006606
PCB_174	0.0000000186	0.0000001304	0.0000009705	0.0000003180	-.0000007222
PCB_175	0.0000000010	0.0000000079	0.0000000535	0.0000000182	-.0000000682
PCB_176	0.0000000027	0.0000000183	0.0000001399	0.0000000470	-.0000001539
PCB_177	0.0000000133	0.0000000964	0.0000007097	0.0000002326	-.0000006236
PCB_178	0.0000000067	0.0000000382	0.0000003332	0.0000001072	-.0000002524
PCB_179	0.0000000091	0.0000000474	0.0000004389	0.0000001417	-.0000003028
PCB_181	0.0000000001	0.0000000036	0.0000000112	0.0000000046	-.0000000451
PCB_182	0.0000000000	0.0000000012	0.0000000029	0.0000000014	-.0000000084
PCB_184	0.0000000000	0.0000000002	0.0000000016	0.0000000005	-.0000000020
PCB_186	0.0000000000	0.0000000003	0.0000000020	0.0000000006	-.0000000019
PCB_187	0.0000000699	0.0000004600	0.0000036292	0.0000011771	-.0000032520
PCB_188	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000024
PCB_189	0.0000000003	0.0000000073	0.0000000275	0.0000000107	-.0000000813
PCB_190	0.0000000022	0.0000000275	0.0000001481	0.0000000509	-.0000002827
PCB_191	0.0000000007	0.0000000107	0.0000000509	0.0000000204	-.0000001768
PCB_192	-.0000000024	-.0000000813	-.0000002827	-.0000001768	0.0000034010
PCB_194	0.0000000031	0.0000000295	0.0000001791	0.0000000616	-.0000002300
PCB_195	0.0000000022	0.0000000176	0.0000001205	0.0000000406	-.0000001426
PCB_196	0.0000000033	0.0000000258	0.0000001797	0.0000000602	-.0000002180
PCB_201	0.0000000016	0.0000000096	0.0000000811	0.0000000261	-.0000000550
PCB_202	0.0000000023	0.0000000138	0.0000001150	0.0000000368	-.0000000776
PCB_203	0.0000000064	0.0000000485	0.0000003470	0.0000001149	-.0000003860
PCB_204	0.0000000000	0.0000000003	0.0000000022	0.0000000007	-.0000000017

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_145	0.0000000004	0.0000000002	0.0000000003	0.0000000000	0.0000000001
PCB_146	0.0000008049	0.0000005234	0.0000007702	0.0000003227	0.0000004418
PCB_148	-.0000000018	-.0000000008	-.0000000011	-.0000000005	-.0000000009
PCB_150	-.0000000038	-.0000000022	-.0000000031	-.0000000014	-.0000000022
PCB_152	-.0000000035	-.0000000021	-.0000000031	-.0000000013	-.0000000019
PCB_154	-.0000000067	-.0000000035	-.0000000048	-.0000000036	-.0000000059
PCB_155	0.0000000028	0.0000000020	0.0000000030	0.0000000015	0.0000000021
PCB_158	0.0000001634	0.0000000268	0.0000000240	-.0000000669	-.0000000777
PCB_159	0.0000000642	0.0000000456	0.0000000675	0.0000000329	0.0000000457
PCB_161	0.0000000033	0.0000000023	0.0000000035	0.0000000018	0.0000000025
PCB_162	0.0000000601	0.0000000390	0.0000000571	0.0000000264	0.0000000377
PCB_164	0.0000003548	0.0000002008	0.0000002893	0.0000001029	0.0000001521
PCB_165	-.0000000009	-.0000000006	-.0000000005	-.0000000002	-.0000000004
PCB_167	0.0000000687	0.0000000015	-.0000000020	-.0000000404	-.0000000445
PCB_169	0.0000000036	0.0000000026	0.0000000039	0.0000000019	0.0000000027
PCB_170	0.0000010515	0.0000006742	0.0000009957	0.0000004286	0.0000006127
PCB_172	0.0000003290	0.0000002240	0.0000003328	0.0000001522	0.0000002136
PCB_174	0.0000014356	0.0000010190	0.0000015110	0.0000007520	0.0000010481
PCB_175	0.0000000766	0.0000000539	0.0000000799	0.0000000388	0.0000000540
PCB_176	0.0000002111	0.0000001511	0.0000002241	0.0000001110	0.0000001535
PCB_177	0.0000010295	0.0000007311	0.0000010850	0.0000005369	0.0000007486
PCB_178	0.0000005064	0.0000003661	0.0000005457	0.0000002744	0.0000003807
PCB_179	0.0000006859	0.0000004992	0.0000007425	0.0000003763	0.0000005203
PCB_181	0.0000000081	0.0000000038	0.0000000055	0.0000000009	0.0000000018
PCB_182	0.0000000030	0.0000000011	0.0000000015	0.0000000004	0.0000000008
PCB_184	0.0000000023	0.0000000016	0.0000000024	0.0000000012	0.0000000016
PCB_186	0.0000000028	0.0000000020	0.0000000030	0.0000000015	0.0000000021
PCB_187	0.0000054005	0.0000038761	0.0000057707	0.0000028604	0.0000039632
PCB_188	0.0000000031	0.0000000022	0.0000000033	0.0000000016	0.0000000023
PCB_189	0.0000000295	0.0000000176	0.0000000258	0.0000000096	0.0000000138
PCB_190	0.0000001791	0.0000001205	0.0000001797	0.0000000811	0.0000001150
PCB_191	0.0000000616	0.0000000406	0.0000000602	0.0000000261	0.0000000368
PCB_192	-.0000002300	-.0000001426	-.0000002180	-.0000000550	-.0000000776
PCB_194	0.0000002546	0.0000001753	0.0000002594	0.0000001233	0.0000001715
PCB_195	0.0000001753	0.0000001233	0.0000001829	0.0000000888	0.0000001231
PCB_196	0.0000002594	0.0000001829	0.0000002720	0.0000001321	0.0000001835
PCB_201	0.0000001233	0.0000000888	0.0000001321	0.0000000664	0.0000000921
PCB_202	0.0000001715	0.0000001231	0.0000001835	0.0000000921	0.0000001284
PCB_203	0.0000005014	0.0000003550	0.0000005284	0.0000002582	0.0000003589
PCB_204	0.0000000032	0.0000000023	0.0000000034	0.0000000017	0.0000000024

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_145	0.0000000005	0.0000000000	0.0000000000	0.0000000000	0.0000000000
PCB_146	0.0000014516	0.0000000082	0.0000000754	0.0000005464	0.0000000668
PCB_148	-.0000000021	-.0000000000	-.0000000001	-.0000000017	-.0000000002
PCB_150	-.0000000061	-.0000000000	-.0000000003	-.0000000033	-.0000000004
PCB_152	-.0000000060	-.0000000000	-.0000000003	-.0000000027	-.0000000003
PCB_154	-.0000000104	-.0000000001	-.0000000006	-.0000000101	-.0000000012
PCB_155	0.0000000059	0.0000000000	0.0000000003	0.0000000026	0.0000000003
PCB_158	-.0000000014	-.0000000011	-.0000000043	-.0000000800	-.0000000086
PCB_159	0.0000001323	0.0000000009	0.0000000070	0.0000000573	0.0000000069
PCB_161	0.0000000069	0.0000000000	0.0000000004	0.0000000031	0.0000000004
PCB_162	0.0000001131	0.0000000007	0.0000000058	0.0000000500	0.0000000060
PCB_164	0.0000005378	0.0000000030	0.0000000261	0.0000002031	0.0000000252
PCB_165	-.0000000015	-.0000000000	-.0000000001	-.0000000005	-.0000000001
PCB_167	-.0000000240	-.0000000007	-.0000000037	-.0000000386	-.0000000043
PCB_169	0.0000000075	0.0000000000	0.0000000004	0.0000000033	0.0000000004
PCB_170	0.0000019020	0.0000000117	0.0000000967	0.0000007937	0.0000000966
PCB_172	0.0000006415	0.0000000040	0.0000000330	0.0000002657	0.0000000323
PCB_174	0.0000029536	0.0000000197	0.0000001558	0.0000013203	0.0000001597
PCB_175	0.0000001553	0.0000000010	0.0000000082	0.0000000677	0.0000000082
PCB_176	0.0000004369	0.0000000029	0.0000000231	0.0000001910	0.0000000231
PCB_177	0.0000021193	0.0000000140	0.0000001116	0.0000009417	0.0000001139
PCB_178	0.0000010668	0.0000000071	0.0000000564	0.0000004744	0.0000000574
PCB_179	0.0000014529	0.0000000097	0.0000000771	0.0000006466	0.0000000782
PCB_181	0.0000000096	0.0000000000	0.0000000004	0.0000000029	0.0000000004
PCB_182	0.0000000028	0.0000000000	0.0000000001	0.0000000015	0.0000000002
PCB_184	0.0000000047	0.0000000000	0.0000000002	0.0000000021	0.0000000003
PCB_186	0.0000000059	0.0000000000	0.0000000003	0.0000000026	0.0000000003
PCB_187	0.0000112768	0.0000000739	0.0000005956	0.0000049486	0.0000005980
PCB_188	0.0000000064	0.0000000000	0.0000000003	0.0000000028	0.0000000003
PCB_189	0.0000000485	0.0000000003	0.0000000024	0.0000000184	0.0000000022
PCB_190	0.0000003470	0.0000000022	0.0000000178	0.0000001465	0.0000000177
PCB_191	0.0000001149	0.0000000007	0.0000000058	0.0000000455	0.0000000056
PCB_192	-.0000003860	-.0000000017	-.0000000155	-.0000000439	-.0000000070
PCB_194	0.0000005014	0.0000000032	0.0000000264	0.0000002166	0.0000000263
PCB_195	0.0000003550	0.0000000023	0.0000000187	0.0000001542	0.0000000187
PCB_196	0.0000005284	0.0000000034	0.0000000278	0.0000002296	0.0000000278
PCB_201	0.0000002582	0.0000000017	0.0000000137	0.0000001152	0.0000000139
PCB_202	0.0000003589	0.0000000024	0.0000000189	0.0000001609	0.0000000195
PCB_203	0.0000010292	0.0000000067	0.0000000541	0.0000004495	0.0000000544
PCB_204	0.0000000067	0.0000000000	0.0000000004	0.0000000030	0.0000000004

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_145	-.0000000000	-.0000000001	-.0000000000	0.0000000014	0.0000000092
PCB_146	0.0000002042	0.0000003055	-.0000000174	0.0000002932	-.0000030623
PCB_148	-.0000000007	-.0000000010	0.0000000001	-.0000000050	0.0000000289
PCB_150	-.0000000013	-.0000000020	0.0000000001	-.0000000058	0.0000000496
PCB_152	-.0000000010	-.0000000016	0.0000000001	-.0000000031	0.0000000334
PCB_154	-.0000000042	-.0000000070	-.0000000000	-.0000000083	0.0000000905
PCB_155	0.0000000010	0.0000000017	-.0000000000	-.0000000013	-.0000000115
PCB_158	-.0000000469	-.0000000995	-.0000000324	0.0000013728	0.0000020804
PCB_159	0.0000000225	0.0000000353	-.0000000003	-.0000000156	-.0000004524
PCB_161	0.0000000012	0.0000000019	-.0000000000	-.0000000012	-.0000000164
PCB_162	0.0000000192	0.0000000296	-.0000000014	0.0000000341	-.0000003790
PCB_164	0.0000000723	0.0000001008	-.0000000180	0.0000006537	-.0000002451
PCB_165	-.0000000001	-.0000000001	0.0000000001	-.0000000104	0.0000000350
PCB_167	-.0000000225	-.0000000478	-.0000000172	0.0000007100	0.0000011078
PCB_169	0.0000000013	0.0000000021	0.0000000000	-.0000000023	-.0000000230
PCB_170	0.0000003018	0.0000004564	-.0000000291	0.0000007877	-.0000038140
PCB_172	0.0000001026	0.0000001574	-.0000000061	0.0000000830	-.0000010916
PCB_174	0.0000005219	0.0000008229	-.0000000043	-.0000003942	-.0000087255
PCB_175	0.0000000266	0.0000000417	-.0000000005	-.0000000128	-.0000004397
PCB_176	0.0000000754	0.0000001188	-.0000000004	-.0000000781	-.0000012692
PCB_177	0.0000003718	0.0000005855	-.0000000040	-.0000002557	-.0000061997
PCB_178	0.0000001882	0.0000002977	0.0000000000	-.0000002449	-.0000029271
PCB_179	0.0000002569	0.0000004071	0.0000000015	-.0000003739	-.0000042323
PCB_181	0.0000000008	0.0000000007	-.0000000008	0.0000000305	0.0000000141
PCB_182	0.0000000005	0.0000000006	-.0000000003	0.0000000108	0.0000000342
PCB_184	0.0000000008	0.0000000013	-.0000000000	-.0000000004	-.0000000105
PCB_186	0.0000000010	0.0000000016	-.0000000000	-.0000000007	-.0000000140
PCB_187	0.0000019542	0.0000030809	-.0000000097	-.0000022474	-.0000329077
PCB_188	0.0000000011	0.0000000018	-.0000000000	-.0000000008	-.0000000145
PCB_189	0.0000000067	0.0000000096	-.0000000012	0.0000000391	-.0000001046
PCB_190	0.0000000565	0.0000000868	-.0000000037	0.0000000621	-.0000007413
PCB_191	0.0000000173	0.0000000259	-.0000000017	0.0000000376	-.0000001107
PCB_192	-.0000000076	0.0000000097	0.0000000237	-.0000005883	-.0000050671
PCB_194	0.0000000846	0.0000001319	-.0000000021	-.0000000177	-.0000014232
PCB_195	0.0000000606	0.0000000950	-.0000000009	-.0000000408	-.0000010189
PCB_196	0.0000000902	0.0000001415	-.0000000014	-.0000000660	-.0000014163
PCB_201	0.0000000457	0.0000000722	-.0000000000	-.0000000555	-.0000007269
PCB_202	0.0000000638	0.0000001009	-.0000000003	-.0000000690	-.0000009606
PCB_203	0.0000001769	0.0000002778	-.0000000025	-.0000001407	-.0000028090
PCB_204	0.0000000012	0.0000000019	-.0000000000	-.0000000012	-.0000000169

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_145	0.0000000074	0.0000000381	0.0000000001	0.0000000010	0.0000000009
PCB_146	0.0000028866	0.0000210051	-.0000001671	0.0000038090	0.0000003221
PCB_148	-.0000000270	-.0000001128	-.0000000007	0.0000000161	-.0000000005
PCB_150	-.0000000317	-.0000001558	-.0000000010	0.0000000035	-.0000000010
PCB_152	-.0000000198	-.0000001279	0.0000000007	-.0000000071	-.0000000011
PCB_154	-.0000000571	-.0000001559	-.0000000048	0.0000000605	0.0000000097
PCB_155	-.0000000014	0.0000000151	-.0000000001	0.0000000181	-.0000000008
PCB_158	0.0000068675	0.0000333041	0.0000000016	-.0000022194	0.0000007291
PCB_159	0.0000000088	0.0000006770	-.0000000015	0.0000004212	-.0000000070
PCB_161	-.0000000005	0.0000000218	-.0000000001	0.0000000199	-.0000000008
PCB_162	0.0000002349	0.0000017796	0.0000000008	0.0000002752	0.0000000094
PCB_164	0.0000037760	0.0000199821	-.0000000047	0.0000002501	0.0000003236
PCB_165	-.0000000363	-.0000002187	-.0000000058	-.0000000150	-.0000000039
PCB_167	0.0000035363	0.0000169891	-.0000000261	-.0000014700	0.0000003487
PCB_169	-.0000000047	0.0000000027	-.0000000003	0.0000000232	-.0000000011
PCB_170	0.0000055144	0.0000333869	-.0000000846	0.0000033502	0.0000003782
PCB_172	0.0000009227	0.0000070365	-.0000000162	0.0000016776	0.0000000518
PCB_174	0.0000002862	0.0000123751	0.0000000090	0.0000086106	-.0000002782
PCB_175	0.0000000555	0.0000008658	-.0000000012	0.0000004496	-.0000000072
PCB_176	-.0000000520	0.0000014915	-.0000000034	0.0000013653	-.0000000387
PCB_177	0.0000003093	0.0000094791	0.0000000010	0.0000061734	-.0000001754
PCB_178	-.0000003794	0.0000022158	-.0000000122	0.0000033182	-.0000001368
PCB_179	-.0000007406	0.0000019850	-.0000000019	0.0000046742	-.0000002030
PCB_181	0.0000001587	0.0000007939	-.0000000012	-.0000000356	0.0000000151
PCB_182	0.0000000626	0.0000002907	-.0000000003	-.0000000247	0.0000000033
PCB_184	0.0000000019	0.0000000269	-.0000000001	0.0000000130	-.0000000003
PCB_186	0.0000000011	0.0000000250	0.0000000000	0.0000000165	-.0000000006
PCB_187	-.0000025959	0.0000345794	-.0000002651	0.0000353045	-.0000011264
PCB_188	0.0000000012	0.0000000283	-.0000000001	0.0000000181	-.0000000006
PCB_189	0.0000002346	0.0000013665	-.0000000050	0.0000000625	0.0000000221
PCB_190	0.0000005735	0.0000041788	-.0000000188	0.0000008001	0.0000000311
PCB_191	0.0000002817	0.0000018200	-.0000000026	0.0000002726	0.0000000228
PCB_192	-.0000032880	-.0000184194	-.0000000039	-.0000012996	-.0000004572
PCB_194	0.0000003363	0.0000035434	-.0000000177	0.0000013573	-.0000000060
PCB_195	0.0000000822	0.0000017880	-.0000000087	0.0000010390	-.0000000187
PCB_196	0.0000001005	0.0000025640	-.0000000165	0.0000015450	-.0000000311
PCB_201	-.0000000713	0.0000006182	-.0000000026	0.0000007886	-.0000000321
PCB_202	-.0000000597	0.0000010182	-.0000000030	0.0000010657	-.0000000442
PCB_203	0.0000001101	0.0000046812	-.0000000283	0.0000030522	-.0000000720
PCB_204	-.0000000005	0.0000000216	-.0000000000	0.0000000196	-.0000000008

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_145	0.0000000070	0.0000000222	0.0000000069	0.0000000009	-.0000000038
PCB_146	0.0000125449	0.0000183447	0.0000015941	0.0000013998	-.0000015898
PCB_148	-.0000000426	-.0000000544	-.0000000198	-.0000000043	0.0000000034
PCB_150	-.0000000751	-.0000000889	-.0000000222	-.0000000080	0.0000000047
PCB_152	-.0000000688	-.0000000925	-.0000000152	-.0000000065	0.0000000047
PCB_154	-.0000001373	-.0000000256	-.0000000050	-.0000000140	-.0000000032
PCB_155	0.0000000404	0.0000000272	-.0000000085	0.0000000046	-.0000000018
PCB_158	0.0000054569	0.0000182290	0.0000069282	0.0000005416	-.0000022627
PCB_159	0.0000009762	0.0000008172	-.0000001087	0.0000001072	-.0000000276
PCB_161	0.0000000481	0.0000000331	-.0000000087	0.0000000054	-.0000000020
PCB_162	0.0000010813	0.0000013122	0.0000001398	0.0000001081	-.0000000739
PCB_164	0.0000067544	0.0000126530	0.0000030814	0.0000007310	-.0000013872
PCB_165	-.0000000322	-.0000000811	-.0000000431	-.0000000043	0.0000000015
PCB_167	0.0000030367	0.0000091470	0.0000035929	0.0000002539	-.0000011414
PCB_169	0.0000000483	0.0000000292	-.0000000137	0.0000000057	-.0000000009
PCB_170	0.0000184133	0.0000245383	0.0000033928	0.0000019634	-.0000023459
PCB_172	0.0000052636	0.0000060035	0.0000002411	0.0000005815	-.0000005495
PCB_174	0.0000211805	0.0000159158	-.0000030746	0.0000024029	-.0000007629
PCB_175	0.0000011421	0.0000009800	-.0000001140	0.0000001297	-.0000000587
PCB_176	0.0000030225	0.0000022748	-.0000005238	0.0000003478	-.0000001017
PCB_177	0.0000153278	0.0000117656	-.0000020474	0.0000017312	-.0000006015
PCB_178	0.0000072286	0.0000046778	-.0000015808	0.0000008249	-.0000001891
PCB_179	0.0000095629	0.0000057804	-.0000023680	0.0000011100	-.0000001572
PCB_181	0.0000002121	0.0000004585	0.0000001504	0.0000000202	-.0000000544
PCB_182	0.0000000718	0.0000001619	0.0000000496	0.0000000068	-.0000000217
PCB_184	0.0000000353	0.0000000294	-.0000000034	0.0000000039	-.0000000021
PCB_186	0.0000000421	0.0000000310	-.0000000061	0.0000000048	-.0000000020
PCB_187	0.0000788992	0.0000572588	-.0000142754	0.0000088341	-.0000022767
PCB_188	0.0000000464	0.0000000352	-.0000000063	0.0000000052	-.0000000025
PCB_189	0.0000005641	0.0000009424	0.0000001948	0.0000000576	-.0000000888
PCB_190	0.0000030600	0.0000034488	0.0000002277	0.0000003209	-.0000003003
PCB_191	0.0000010168	0.0000013868	0.0000001580	0.0000001129	-.0000001446
PCB_192	-.0000041027	-.0000117258	-.0000029824	-.0000005010	0.0000019716
PCB_194	0.0000038442	0.0000037112	-.0000002175	0.0000004322	-.0000002455
PCB_195	0.0000025844	0.0000022018	-.0000003018	0.0000002929	-.0000001254
PCB_196	0.0000038486	0.0000032278	-.0000004720	0.0000004320	-.0000001938
PCB_201	0.0000017666	0.0000011727	-.0000003658	0.0000002017	-.0000000484
PCB_202	0.0000025006	0.0000016829	-.0000004763	0.0000002826	-.0000000815
PCB_203	0.0000074749	0.0000060576	-.0000009867	0.0000008333	-.0000003360
PCB_204	0.0000000470	0.0000000323	-.0000000084	0.0000000053	-.0000000018

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_145	0.0000000112	0.0000000013	0.0000000001	0.0000000006	-.0000000046
PCB_146	0.0000120514	0.0000041289	0.0000003165	0.0000016893	-.0000014495
PCB_148	-.0000000121	-.0000000066	-.0000000004	-.0000000026	0.0000000146
PCB_150	-.0000000411	-.0000000181	-.0000000013	-.0000000072	0.0000000141
PCB_152	-.0000000427	-.0000000164	-.0000000012	-.0000000070	0.0000000104
PCB_154	-.0000000053	-.0000000323	-.0000000029	-.0000000139	0.0000000577
PCB_155	0.0000000385	0.0000000167	0.0000000015	0.0000000071	-.0000000021
PCB_158	0.0000043677	-.0000000257	-.0000000624	-.0000000361	-.0000034569
PCB_159	0.0000008672	0.0000003725	0.0000000316	0.0000001561	-.0000000115
PCB_161	0.0000000441	0.0000000193	0.0000000017	0.0000000082	-.0000000025
PCB_162	0.0000008114	0.0000003111	0.0000000251	0.0000001322	-.0000001487
PCB_164	0.0000057699	0.0000015257	0.0000000987	0.0000006238	-.0000021174
PCB_165	-.0000000248	-.0000000053	-.0000000001	-.0000000008	0.0000000028
PCB_167	0.0000019253	-.0000001304	-.0000000380	-.0000000352	-.0000019796
PCB_169	0.0000000465	0.0000000216	0.0000000019	0.0000000090	0.0000000012
PCB_170	0.0000157010	0.0000053127	0.0000004124	0.0000022560	-.0000034970
PCB_172	0.0000049318	0.0000017950	0.0000001469	0.0000007602	-.0000006858
PCB_174	0.0000190800	0.0000083847	0.0000007183	0.0000035132	-.0000008170
PCB_175	0.0000010490	0.0000004410	0.0000000372	0.0000001843	-.0000000559
PCB_176	0.0000028394	0.0000012428	0.0000001064	0.0000005180	-.0000000409
PCB_177	0.0000138480	0.0000060030	0.0000005134	0.0000025212	-.0000006290
PCB_178	0.0000067492	0.0000030194	0.0000002629	0.0000012719	-.0000000955
PCB_179	0.0000090494	0.0000041334	0.0000003602	0.0000017287	0.0000000842
PCB_181	0.0000001591	0.0000000245	0.0000000009	0.0000000113	-.0000000892
PCB_182	0.0000000447	0.0000000073	0.0000000003	0.0000000035	-.0000000468
PCB_184	0.0000000318	0.0000000131	0.0000000011	0.0000000056	-.0000000030
PCB_186	0.0000000385	0.0000000166	0.0000000014	0.0000000070	-.0000000028
PCB_187	0.0000724658	0.0000318011	0.0000027467	0.0000134012	-.0000010783
PCB_188	0.0000000425	0.0000000180	0.0000000016	0.0000000077	-.0000000032
PCB_189	0.0000004630	0.0000001339	0.0000000094	0.0000000565	-.0000001270
PCB_190	0.0000026498	0.0000009568	0.0000000783	0.0000004136	-.0000004320
PCB_191	0.0000009760	0.0000003216	0.0000000253	0.0000001356	-.0000001846
PCB_192	-.0000065933	-.0000009956	-.0000000603	-.0000004388	0.0000022114
PCB_194	0.0000034685	0.0000014255	0.0000001185	0.0000005940	-.0000002606
PCB_195	0.0000023788	0.0000010081	0.0000000852	0.0000004211	-.0000001030
PCB_196	0.0000035436	0.0000014929	0.0000001270	0.0000006280	-.0000001784
PCB_201	0.0000016343	0.0000007321	0.0000000635	0.0000003078	-.0000000311
PCB_202	0.0000022859	0.0000010136	0.0000000881	0.0000004287	-.0000000868
PCB_203	0.0000068263	0.0000029004	0.0000002480	0.0000012238	-.0000003152
PCB_204	0.0000000431	0.0000000189	0.0000000016	0.0000000080	-.0000000022

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_145	-.0000000005	-.0000000060	-.0000000096	-.0000000251	-.0000000085
PCB_146	-.0000000181	-.0000027804	-.0000045857	-.0000185737	-.0000044956
PCB_148	0.0000000006	0.0000000076	0.0000000281	0.0000000872	0.0000000138
PCB_150	0.0000000002	0.0000000129	0.0000000388	0.0000001252	0.0000000221
PCB_152	0.0000000000	0.0000000117	0.0000000287	0.0000001079	0.0000000220
PCB_154	0.0000000020	-.0000000082	0.0000000445	0.0000001962	0.0000000039
PCB_155	0.0000000002	-.0000000034	-.0000000033	-.0000000308	-.0000000059
PCB_158	-.0000002859	-.0000038784	-.0000080401	-.0000215820	-.0000059824
PCB_159	0.0000000111	-.0000000943	-.0000001517	-.0000008823	-.0000001730
PCB_161	0.0000000003	-.0000000041	-.0000000050	-.0000000382	-.0000000070
PCB_162	0.0000000017	-.0000001858	-.0000004181	-.0000016009	-.0000003549
PCB_164	-.0000001314	-.0000023818	-.0000047696	-.0000150124	-.0000037864
PCB_165	-.0000000010	0.0000000194	0.0000000621	0.0000001386	0.0000000370
PCB_167	-.0000001654	-.0000019760	-.0000040967	-.0000109759	-.0000030239
PCB_169	0.0000000006	-.0000000018	0.0000000005	-.0000000279	-.0000000033
PCB_170	-.0000001471	-.0000043063	-.0000078907	-.0000281457	-.0000067100
PCB_172	-.0000000125	-.0000010246	-.0000016588	-.0000066950	-.0000016084
PCB_174	0.0000001781	-.0000018820	-.0000028485	-.0000183163	-.0000033280
PCB_175	0.0000000078	-.0000001300	-.0000001989	-.0000010887	-.0000002172
PCB_176	0.0000000317	-.0000002535	-.0000003257	-.0000024607	-.0000004501
PCB_177	0.0000001208	-.0000014721	-.0000022004	-.0000133968	-.0000025171
PCB_178	0.0000000744	-.0000004860	-.0000004664	-.0000051070	-.0000008645
PCB_179	0.0000001220	-.0000005122	-.0000003939	-.0000062744	-.0000009705
PCB_181	-.0000000068	-.0000000973	-.0000001924	-.0000005401	-.0000001450
PCB_182	-.0000000035	-.0000000307	-.0000000688	-.0000002194	-.0000000535
PCB_184	0.0000000001	-.0000000043	-.0000000063	-.0000000337	-.0000000070
PCB_186	0.0000000002	-.0000000042	-.0000000059	-.0000000366	-.0000000070
PCB_187	0.0000008154	-.0000062005	-.0000072960	-.0000608929	-.0000110845
PCB_188	0.0000000002	-.0000000050	-.0000000067	-.0000000403	-.0000000081
PCB_189	-.0000000064	-.0000001654	-.0000003184	-.0000010505	-.0000002621
PCB_190	-.0000000108	-.0000005891	-.0000009819	-.0000038438	-.0000009106
PCB_191	-.0000000081	-.0000002562	-.0000004330	-.0000015582	-.0000003965
PCB_192	0.0000002188	0.0000030563	0.0000045510	0.0000126327	0.0000044011
PCB_194	0.0000000184	-.0000004897	-.0000007882	-.0000040493	-.0000008218
PCB_195	0.0000000195	-.0000002731	-.0000003943	-.0000023756	-.0000004627
PCB_196	0.0000000257	-.0000004105	-.0000005635	-.0000034731	-.0000006879
PCB_201	0.0000000177	-.0000001220	-.0000001321	-.0000012958	-.0000002183
PCB_202	0.0000000207	-.0000001926	-.0000002279	-.0000019078	-.0000003352
PCB_203	0.0000000544	-.0000007560	-.0000010325	-.0000065623	-.0000012869
PCB_204	0.0000000003	-.0000000040	-.0000000050	-.0000000374	-.0000000068

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_145	-.0000000395	-.0000000149	-.0000000043	0.0000000023	0.0000000061
PCB_146	-.0000259119	-.0000083495	-.0000023769	-.0000014450	0.0000014788
PCB_148	0.0000001267	0.0000000247	0.0000000120	-.0000000155	0.0000000056
PCB_150	0.0000001873	0.0000000418	0.0000000175	-.0000000180	0.0000000036
PCB_152	0.0000001440	0.0000000375	0.0000000125	0.0000000014	0.0000000004
PCB_154	0.0000002224	-.0000000162	0.0000000066	-.0000000468	0.0000000818
PCB_155	-.0000000390	-.0000000102	-.0000000017	-.0000000077	-.0000000028
PCB_158	-.0000324563	-.0000105020	-.0000035763	0.0000026647	0.0000032727
PCB_159	-.0000011786	-.0000003140	-.0000000726	-.0000001218	-.0000000400
PCB_161	-.0000000501	-.0000000126	-.0000000026	-.0000000078	-.0000000034
PCB_162	-.0000020911	-.0000005573	-.0000001541	-.0000000025	-.0000000071
PCB_164	-.0000217084	-.0000066308	-.0000021302	0.0000008764	0.0000013765
PCB_165	0.0000002179	0.0000000560	0.0000000173	-.0000000669	-.0000000112
PCB_167	-.0000164347	-.0000052627	-.0000018393	0.0000010858	0.0000015832
PCB_169	-.0000000350	-.0000000081	-.0000000012	-.0000000112	-.0000000050
PCB_170	-.0000407569	-.0000122055	-.0000038259	-.0000004942	0.0000017863
PCB_172	-.0000095143	-.0000029054	-.0000008053	-.0000004467	0.0000003467
PCB_174	-.0000245064	-.0000061210	-.0000014178	-.0000026023	-.0000013903
PCB_175	-.0000015005	-.0000004078	-.0000001029	-.0000001326	-.0000000319
PCB_176	-.0000032633	-.0000008501	-.0000001775	-.0000004482	-.0000001773
PCB_177	-.0000182290	-.0000046921	-.0000011270	-.0000018794	-.0000008130
PCB_178	-.0000066169	-.0000016381	-.0000002895	-.0000012908	-.0000005780
PCB_179	-.0000080177	-.0000018791	-.0000002708	-.0000016713	-.0000009032
PCB_181	-.0000008248	-.0000002621	-.0000000909	0.0000000389	0.0000000729
PCB_182	-.0000002856	-.0000000803	-.0000000255	0.0000000132	0.0000000092
PCB_184	-.0000000456	-.0000000126	-.0000000031	-.0000000050	-.0000000010
PCB_186	-.0000000495	-.0000000128	-.0000000030	-.0000000055	-.0000000023
PCB_187	-.0000794846	-.0000207295	-.0000041540	-.0000137976	-.0000049043
PCB_188	-.0000000549	-.0000000148	-.0000000035	-.0000000069	-.0000000019
PCB_189	-.0000015199	-.0000004718	-.0000001514	0.0000000070	0.0000000966
PCB_190	-.0000055280	-.0000016679	-.0000004949	-.0000002988	0.0000001967
PCB_191	-.0000022507	-.0000007109	-.0000002051	-.0000000370	0.0000001318
PCB_192	0.0000192304	0.0000075898	0.0000020290	-.0000004199	-.0000031425
PCB_194	-.0000055363	-.0000015380	-.0000004123	-.0000004698	-.0000000545
PCB_195	-.0000032213	-.0000008773	-.0000002150	-.0000003652	-.0000000877
PCB_196	-.0000046841	-.0000012916	-.0000003098	-.0000006019	-.0000001242
PCB_201	-.0000016855	-.0000004130	-.0000000782	-.0000002985	-.0000001429
PCB_202	-.0000025043	-.0000006205	-.0000001258	-.0000004082	-.0000001892
PCB_203	-.0000087816	-.0000023871	-.0000005552	-.0000011803	-.0000002963
PCB_204	-.0000000494	-.0000000123	-.0000000026	-.0000000072	-.0000000034

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_145	0.0000000099	-.0000000028	0.0000000052	-.0000000008
PCB_146	-.0000029784	-.0000016621	-.0000032748	-.0000009770
PCB_148	-.0000000160	0.0000000203	-.0000000222	0.0000000063
PCB_150	-.0000000039	0.0000000236	-.0000000075	0.0000000080
PCB_152	0.0000000081	0.0000000147	-.0000000064	0.0000000067
PCB_154	0.0000000243	0.0000000707	-.0000000328	0.0000000227
PCB_155	-.0000000255	-.0000000020	-.0000000258	-.0000000021
PCB_158	0.0000085042	-.0000032555	0.0000077515	-.0000009666
PCB_159	-.0000005777	-.0000000567	-.0000005325	-.0000000518
PCB_161	-.0000000284	-.0000000031	-.0000000289	-.0000000026
PCB_162	-.0000003001	-.0000001841	-.0000000972	-.0000000912
PCB_164	0.0000021891	-.0000020888	0.0000018996	-.0000007658
PCB_165	-.0000000084	0.0000000171	-.0000000165	0.0000000034
PCB_167	0.0000049014	-.0000017714	0.0000047288	-.0000005196
PCB_169	-.0000000387	-.0000000008	-.0000000404	-.0000000022
PCB_170	-.0000003454	-.0000035899	-.0000011328	-.0000015272
PCB_172	-.0000013179	-.0000006784	-.0000015859	-.0000003555
PCB_174	-.0000124894	-.0000015415	-.0000123930	-.0000011785
PCB_175	-.0000005932	-.0000000922	-.0000006146	-.0000000654
PCB_176	-.0000019794	-.0000001494	-.0000019928	-.0000001550
PCB_177	-.0000085876	-.0000011264	-.0000086930	-.0000008404
PCB_178	-.0000049329	-.0000002810	-.0000049745	-.0000003462
PCB_179	-.0000072100	-.0000002538	-.0000072538	-.0000004329
PCB_181	0.0000001900	-.0000000832	0.0000001640	-.0000000258
PCB_182	0.0000000547	-.0000000381	0.0000000715	-.0000000133
PCB_184	-.0000000159	-.0000000032	-.0000000161	-.0000000021
PCB_186	-.0000000225	-.0000000034	-.0000000235	-.0000000024
PCB_187	-.0000508312	-.0000034113	-.0000497411	-.0000039254
PCB_188	-.0000000233	-.0000000036	-.0000000246	-.0000000025
PCB_189	0.0000000965	-.0000001328	0.0000000935	-.0000000540
PCB_190	-.0000004881	-.0000004318	-.0000005874	-.0000002106
PCB_191	-.0000000840	-.0000001711	-.0000001668	-.0000000779
PCB_192	-.0000039697	0.0000011448	-.0000018418	0.0000003771
PCB_194	-.0000017731	-.0000003772	-.0000017937	-.0000002466
PCB_195	-.0000014240	-.0000001853	-.0000014492	-.0000001467
PCB_196	-.0000020747	-.0000002672	-.0000021107	-.0000002155
PCB_201	-.0000011833	-.0000000814	-.0000011883	-.0000000881
PCB_202	-.0000015560	-.0000001408	-.0000015665	-.0000001285
PCB_203	-.0000041394	-.0000004888	-.0000041267	-.0000004093
PCB_204	-.0000000281	-.0000000030	-.0000000285	-.0000000025

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

		PCB_1	PCB_2	PCB_3
PCB_205	PCB 205	-.0000000006	0.0000000004	0.0000000003
PCB_206	PCB 206	-.0000000075	0.0000000031	0.0000000027
PCB_207	PCB 207	-.0000000009	0.0000000004	0.0000000003
PCB_208	PCB 208	-.0000000032	0.0000000012	0.0000000011
PCB_209	PCB 209	-.0000000053	0.0000000019	0.0000000017
PCB_12_13	PCB 12/13	-.0000000002	-.0000000000	-.0000000000
PCB_107_124	PCB 107/124	0.0000000108	-.0000000012	-.0000000007
PCB_110_115	PCB 110/115	-.0000000314	-.0000000165	-.0000000157
PCB_128_166	PCB 128/166	0.0000000230	-.0000000006	0.0000000010
PCB_129_138_163	PCB 129/138/163	0.0000001991	0.0000000217	0.0000000317
PCB_134_143	PCB 134/143	0.0000000006	-.0000000000	-.0000000000
PCB_135_151	PCB 135/151	0.0000000000	0.0000000201	0.0000000190
PCB_139_140	PCB 139/140	0.0000000106	-.0000000008	-.0000000004
PCB_147_149	PCB 147/149	-.0000000446	0.0000000478	0.0000000452
PCB_153_168	PCB 153/168	0.0000000888	0.0000000329	0.0000000368
PCB_156_157	PCB 156/157	0.0000000718	-.0000000087	-.0000000053
PCB_171_173	PCB 171/173	-.0000000071	0.0000000054	0.0000000050
PCB_18_30	PCB 18/30	0.0000000018	-.0000000019	-.0000000021
PCB_180_193	PCB 180/193	-.0000000377	0.0000000439	0.0000000415
PCB_183_185	PCB 183/185	-.0000000347	0.0000000192	0.0000000173
PCB_197_200	PCB 197/200	-.0000000036	0.0000000017	0.0000000015
PCB_198_199	PCB 198/199	-.0000000153	0.0000000082	0.0000000073
PCB_20_28	PCB 20/28	0.0000000238	-.0000000024	-.0000000023
PCB_21_33	PCB 21/33	0.0000000018	0.0000000003	0.0000000003
PCB_26_29	PCB 26/29	-.0000000214	-.0000000041	-.0000000051
PCB_40_41_71	PCB 40/41/71	-.0000000497	-.0000000050	-.0000000074
PCB_44_47_65	PCB 44/47/65	-.0000000515	-.0000000380	-.0000000415
PCB_45_51	PCB 45/51	-.0000000323	-.0000000070	-.0000000087
PCB_49_69	PCB 49/69	-.0000001294	-.0000000497	-.0000000558
PCB_50_53	PCB 50/53	-.0000000654	-.0000000126	-.0000000153
PCB_59_62_75	PCB 59/62/75	-.0000000228	-.0000000026	-.0000000035
PCB_61_70_74_76	PCB 61/70/74/76	0.0000000399	-.0000000076	-.0000000059
PCB_85_117_116	PCB 85/117/116	0.0000000520	-.0000000033	-.0000000014
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.0000000786	-.0000000285	-.0000000241
PCB_88_91	PCB 88/91	0.0000000086	-.0000000030	-.0000000031
PCB_90_101_113	PCB 90/101/113	0.0000000813	-.0000000288	-.0000000237
PCB_93_98_100_102	PCB 93/98/100/102	0.0000000058	-.0000000025	-.0000000024

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_4	PCB_5	PCB_6	PCB_7	PCB_8
PCB_205	-.0000000217	0.0000000003	-.0000000019	-.0000000002	-.0000000052
PCB_206	-.0000002081	0.0000000024	-.0000000206	-.0000000024	-.0000000552
PCB_207	-.0000000259	0.0000000003	-.0000000026	-.0000000003	-.0000000069
PCB_208	-.0000000822	0.0000000009	-.0000000082	-.0000000010	-.0000000230
PCB_209	-.0000001262	0.0000000015	-.0000000124	-.0000000015	-.0000000372
PCB_12_13	0.0000000081	-.0000000000	0.0000000012	0.0000000001	-.0000000002
PCB_107_124	-.0000000941	0.0000000002	-.0000000141	-.0000000003	0.0000000939
PCB_110_115	-.0000019220	-.0000000186	-.0000004081	-.0000000520	-.0000007671
PCB_128_166	-.0000011865	0.0000000032	-.0000001603	-.0000000130	0.0000001954
PCB_129_138_163	-.0000057268	0.0000000445	-.0000007104	-.0000000498	0.0000011432
PCB_134_143	0.0000000379	0.0000000003	0.0000000071	0.0000000007	0.0000000202
PCB_135_151	-.0000004099	0.0000000187	0.0000000040	-.0000000008	-.0000001916
PCB_139_140	0.0000000215	0.0000000001	0.0000000037	0.0000000012	0.0000000706
PCB_147_149	-.0000039062	0.0000000439	-.0000004139	-.0000000392	-.0000004283
PCB_153_168	-.0000043315	0.0000000400	-.0000004933	-.0000000389	0.0000002253
PCB_156_157	-.0000001532	-.0000000009	-.0000000339	0.0000000032	0.0000005451
PCB_171_173	-.0000004191	0.0000000048	-.0000000405	-.0000000041	-.0000000543
PCB_18_30	0.0000008401	-.0000000020	0.0000001197	0.0000000127	0.0000000946
PCB_180_193	-.0000037458	0.0000000400	-.0000003983	-.0000000421	-.0000005599
PCB_183_185	-.0000012121	0.0000000158	-.0000001085	-.0000000125	-.0000002854
PCB_197_200	-.0000001067	0.0000000013	-.0000000102	-.0000000012	-.0000000301
PCB_198_199	-.0000005650	0.0000000067	-.0000000563	-.0000000064	-.0000001344
PCB_20_28	0.0000016432	-.0000000014	0.0000002519	0.0000000272	0.0000002702
PCB_21_33	0.0000001318	0.0000000004	0.0000000224	0.0000000025	0.0000000238
PCB_26_29	0.0000010008	-.0000000066	0.0000001326	0.0000000117	-.0000000638
PCB_40_41_71	0.0000013741	-.0000000113	0.0000001708	0.0000000119	-.0000003188
PCB_44_47_65	0.0000057795	-.0000000453	0.0000006959	0.0000000609	-.0000000465
PCB_45_51	0.0000014877	-.0000000105	0.0000001965	0.0000000173	-.0000000577
PCB_49_69	0.0000074988	-.0000000671	0.0000008534	0.0000000666	-.0000008130
PCB_50_53	0.0000023150	-.0000000195	0.0000002796	0.0000000220	-.0000002946
PCB_59_62_75	0.0000005950	-.0000000052	0.0000000663	0.0000000038	-.0000001852
PCB_61_70_74_76	0.0000008033	-.0000000014	0.0000001267	0.0000000164	0.0000005185
PCB_85_117_116	-.0000001869	0.0000000014	-.0000000326	-.0000000004	0.0000002800
PCB_86_87_97_108_119_125	-.0000004391	-.0000000183	-.0000001676	-.0000000108	0.0000006440
PCB_88_91	0.0000009363	-.0000000034	0.0000001231	0.0000000115	0.0000000150
PCB_90_101_113	-.0000000450	-.0000000195	-.0000001358	-.0000000067	0.0000005290
PCB_93_98_100_102	0.0000003819	-.0000000021	0.0000000473	0.0000000047	0.0000000503

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_9	PCB_10	PCB_11	PCB_14	PCB_15
PCB_205	-.0000000005	-.0000000025	0.0000000080	-.0000000001	0.0000000002
PCB_206	-.0000000049	-.0000000233	0.0000000684	-.0000000012	0.0000000011
PCB_207	-.0000000006	-.0000000029	0.0000000082	-.0000000001	0.0000000001
PCB_208	-.0000000019	-.0000000091	0.0000000274	-.0000000003	0.0000000004
PCB_209	-.0000000030	-.0000000139	0.0000000439	-.0000000004	0.0000000006
PCB_12_13	0.0000000003	0.0000000010	0.0000000008	0.0000000001	0.0000000001
PCB_107_124	-.0000000007	-.0000000156	-.0000000543	-.0000000122	-.0000000027
PCB_110_115	-.0000001045	-.0000002076	-.0000005500	0.0000001028	-.0000001169
PCB_128_166	-.0000000250	-.0000001560	-.0000001540	-.0000000614	-.0000000271
PCB_129_138_163	-.0000001188	-.0000007621	-.0000002598	-.0000002715	-.0000000021
PCB_134_143	0.0000000020	0.0000000043	0.0000000020	0.0000000003	0.0000000004
PCB_135_151	-.0000000064	-.0000000426	0.0000004798	0.0000000351	0.0000000470
PCB_139_140	0.0000000021	-.0000000008	-.0000000312	-.0000000057	0.0000000007
PCB_147_149	-.0000000888	-.0000004672	0.0000009033	-.0000000766	0.0000000313
PCB_153_168	-.0000000938	-.0000005535	0.0000003191	-.0000001558	0.0000000252
PCB_156_157	0.0000000037	-.0000000433	-.0000003328	-.0000000602	-.0000000040
PCB_171_173	-.0000000082	-.0000000498	0.0000001095	-.0000000084	0.0000000015
PCB_18_30	0.0000000254	0.0000001014	0.0000000221	0.0000000069	0.0000000209
PCB_180_193	-.0000000882	-.0000004442	0.0000008458	-.0000000235	0.0000000035
PCB_183_185	-.0000000249	-.0000001383	0.0000004291	-.0000000087	0.0000000099
PCB_197_200	-.0000000025	-.0000000119	0.0000000378	0.0000000001	0.0000000007
PCB_198_199	-.0000000133	-.0000000644	0.0000001770	-.0000000018	0.0000000032
PCB_20_28	0.0000000557	0.0000001923	0.0000000676	0.0000000106	0.0000000415
PCB_21_33	0.0000000050	0.0000000155	0.0000000179	-.0000000001	0.0000000054
PCB_26_29	0.0000000258	0.0000001284	0.0000000125	0.0000000198	0.0000000111
PCB_40_41_71	0.0000000276	0.0000001841	0.0000000698	0.0000000631	0.0000000032
PCB_44_47_65	0.0000001357	0.0000007190	-.0000003412	0.0000001781	0.0000000004
PCB_45_51	0.0000000401	0.0000001880	0.0000000042	0.0000000294	0.0000000051
PCB_49_69	0.0000001446	0.0000009689	-.0000004108	0.0000002991	0.0000000140
PCB_50_53	0.0000000498	0.0000003039	-.0000000333	0.0000000741	0.0000000109
PCB_59_62_75	0.0000000080	0.0000000832	0.0000000142	0.0000000369	0.0000000055
PCB_61_70_74_76	0.0000000391	0.0000000813	-.0000001700	-.0000000342	0.0000000061
PCB_85_117_116	-.0000000026	-.0000000386	-.0000001552	-.0000000093	-.0000000090
PCB_86_87_97_108_119_125	-.0000000217	-.0000000865	-.0000008635	-.0000000492	-.0000000856
PCB_88_91	0.0000000225	0.0000001148	0.0000000046	0.0000000358	0.0000000164
PCB_90_101_113	-.0000000244	-.0000000286	-.0000008829	-.0000000407	-.0000000371
PCB_93_98_100_102	0.0000000099	0.0000000451	-.0000000335	0.0000000109	0.0000000020

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
PCB_205	-.0000000002	-.0000000633	-.0000000348	0.0000000038	0.0000000003
PCB_206	-.0000000067	-.0000005296	-.0000003056	0.0000000179	0.0000000024
PCB_207	-.0000000011	-.0000000656	-.0000000378	0.0000000018	0.0000000003
PCB_208	-.0000000016	-.0000001975	-.0000001168	0.0000000077	0.0000000010
PCB_209	0.0000000005	-.0000002845	-.0000001725	0.0000000151	0.0000000016
PCB_12_13	0.0000000049	0.0000000416	0.0000000198	0.0000000057	0.0000000001
PCB_107_124	-.0000001352	-.0000009680	-.0000003389	-.0000001826	-.0000000029
PCB_110_115	-.0000013173	-.0000040979	-.0000029474	-.0000018451	-.0000000283
PCB_128_166	-.0000008388	-.0000061729	-.0000025427	-.0000010318	-.0000000110
PCB_129_138_163	-.0000035496	-.0000354282	-.0000149884	-.0000037153	-.0000000284
PCB_134_143	0.0000000219	0.0000001251	0.0000000892	0.0000000149	0.0000000000
PCB_135_151	0.0000004001	-.0000018189	-.0000011290	0.0000008298	0.0000000199
PCB_139_140	-.0000000541	-.0000004356	-.0000001215	-.0000000570	-.0000000015
PCB_147_149	-.0000007777	-.0000150786	-.0000075988	-.0000004357	0.0000000288
PCB_153_168	-.0000020015	-.0000236187	-.0000105367	-.0000016138	0.0000000024
PCB_156_157	-.0000006342	-.0000044722	-.0000014632	-.0000008154	-.0000000156
PCB_171_173	-.0000000712	-.0000014585	-.0000007205	-.0000000274	0.0000000034
PCB_18_30	0.0000004287	0.0000031112	0.0000015466	0.0000004961	0.0000000037
PCB_180_193	-.0000007735	-.0000135002	-.0000069341	-.0000003977	0.0000000246
PCB_183_185	-.0000000380	-.0000034810	-.0000018868	0.0000001723	0.0000000149
PCB_197_200	-.0000000008	-.0000002751	-.0000001607	0.0000000161	0.0000000013
PCB_198_199	-.0000000387	-.0000016385	-.0000009158	0.0000000364	0.0000000060
PCB_20_28	0.0000007894	0.0000053496	0.0000028252	0.0000010108	0.0000000070
PCB_21_33	0.0000000777	0.0000003890	0.0000002143	0.0000001074	0.0000000012
PCB_26_29	0.0000005381	0.0000050527	0.0000023391	0.0000006020	0.0000000040
PCB_40_41_71	0.0000008537	0.0000085124	0.0000035854	0.0000009485	0.0000000076
PCB_44_47_65	0.0000025388	0.0000281131	0.0000127154	0.0000023764	0.0000000002
PCB_45_51	0.0000007673	0.0000078315	0.0000036069	0.0000007773	0.0000000043
PCB_49_69	0.0000035773	0.0000391112	0.0000170464	0.0000036484	0.0000000077
PCB_50_53	0.0000012493	0.0000128224	0.0000056848	0.0000012885	0.0000000069
PCB_59_62_75	0.0000003864	0.0000036491	0.0000014996	0.0000004468	0.0000000034
PCB_61_70_74_76	0.0000000834	0.0000010679	0.0000012550	-.0000000316	-.0000000072
PCB_85_117_116	-.0000003845	-.0000028732	-.0000011489	-.0000004739	-.0000000089
PCB_86_87_97_108_119_125	-.0000013742	-.0000046015	-.0000017804	-.0000022567	-.0000000415
PCB_88_91	0.0000004578	0.0000036588	0.0000016532	0.0000005692	0.0000000029
PCB_90_101_113	-.0000011271	-.0000043196	-.0000017235	-.0000017596	-.0000000362
PCB_93_98_100_102	0.0000001392	0.0000014283	0.0000006842	0.0000001298	-.0000000007

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32
PCB_205	0.0000000004	-.0000000095	-.0000000947	0.0000000006	-.0000000318
PCB_206	0.0000000031	-.0000000792	-.0000007502	-.0000000100	-.0000002791
PCB_207	0.0000000004	-.0000000099	-.0000000923	-.0000000019	-.0000000349
PCB_208	0.0000000012	-.0000000287	-.0000002762	-.0000000002	-.0000001020
PCB_209	0.0000000019	-.0000000400	-.0000003965	0.0000000090	-.0000001403
PCB_12_13	-.0000000000	0.0000000080	0.0000000559	0.0000000158	0.0000000327
PCB_107_124	-.0000000012	-.0000002341	-.0000014830	-.0000004381	-.0000008553
PCB_110_115	-.0000000164	-.0000006603	-.0000018801	-.0000037563	-.0000044538
PCB_128_166	-.0000000005	-.0000014257	-.0000091346	-.0000026571	-.0000050499
PCB_129_138_163	0.0000000218	-.0000072874	-.0000524981	-.0000111166	-.0000266216
PCB_134_143	-.0000000001	0.0000000285	0.0000001758	0.0000001076	0.0000000706
PCB_135_151	0.0000000199	0.0000000428	-.0000027201	0.0000015258	-.0000001525
PCB_139_140	-.0000000008	-.0000001093	-.0000007716	-.0000001885	-.0000003628
PCB_147_149	0.0000000481	-.0000026673	-.0000221021	-.0000026284	-.0000095540
PCB_153_168	0.0000000331	-.0000046542	-.0000354660	-.0000063424	-.0000163325
PCB_156_157	-.0000000087	-.0000011018	-.0000070555	-.0000021385	-.0000039458
PCB_171_173	0.0000000054	-.0000002659	-.0000022133	-.0000002110	-.0000008952
PCB_18_30	-.0000000020	0.0000006363	0.0000041944	0.0000013368	0.0000024357
PCB_180_193	0.0000000441	-.0000023104	-.0000195854	-.0000022881	-.0000085127
PCB_183_185	0.0000000193	-.0000005409	-.0000052364	-.0000000216	-.0000017914
PCB_197_200	0.0000000017	-.0000000383	-.0000003930	0.0000000060	-.0000001366
PCB_198_199	0.0000000082	-.0000002509	-.0000023536	-.0000000997	-.0000009026
PCB_20_28	-.0000000025	0.0000010665	0.0000065592	0.0000024676	0.0000043527
PCB_21_33	0.0000000003	0.0000000838	0.0000004431	0.0000002498	0.0000003537
PCB_26_29	-.0000000041	0.0000009981	0.0000071991	0.0000017353	0.0000038602
PCB_40_41_71	-.0000000050	0.0000017438	0.0000125355	0.0000026542	0.0000065226
PCB_44_47_65	-.0000000382	0.0000054916	0.0000407299	0.0000076238	0.0000200142
PCB_45_51	-.0000000070	0.0000014833	0.0000110058	0.0000023352	0.0000057832
PCB_49_69	-.0000000501	0.0000079994	0.0000587479	0.0000113311	0.0000286186
PCB_50_53	-.0000000126	0.0000025887	0.0000190717	0.0000040523	0.0000095224
PCB_59_62_75	-.0000000026	0.0000008231	0.0000057718	0.0000013554	0.0000028287
PCB_61_70_74_76	-.0000000078	0.0000000484	0.0000007047	0.0000005315	0.0000003064
PCB_85_117_116	-.0000000034	-.0000006312	-.0000044528	-.0000013753	-.0000024741
PCB_86_87_97_108_119_125	-.0000000284	-.0000014209	-.0000061113	-.0000050476	-.0000058010
PCB_88_91	-.0000000031	0.0000008122	0.0000052081	0.0000014470	0.0000028819
PCB_90_101_113	-.0000000289	-.0000011184	-.0000048712	-.0000040115	-.0000050084
PCB_93_98_100_102	-.0000000026	0.0000002859	0.0000020222	0.0000004185	0.0000009880

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_34	PCB_35	PCB_37	PCB_38	PCB_39
PCB_205	-.0000000008	0.0000000003	0.0000000022	0.0000000000	0.0000000002
PCB_206	-.0000000068	0.0000000028	0.0000000154	0.0000000004	0.0000000016
PCB_207	-.0000000008	0.0000000003	0.0000000018	0.0000000001	0.0000000002
PCB_208	-.0000000025	0.0000000011	0.0000000060	0.0000000002	0.0000000006
PCB_209	-.0000000036	0.0000000018	0.0000000097	0.0000000005	0.0000000010
PCB_12_13	0.0000000006	-.0000000000	0.0000000005	0.0000000001	0.0000000000
PCB_107_124	-.0000000147	-.0000000008	-.0000000282	-.0000000069	-.0000000017
PCB_110_115	-.0000000499	-.0000000156	-.0000003654	0.0000000151	-.0000000238
PCB_128_166	-.0000000885	0.0000000020	-.0000001503	-.0000000305	-.0000000063
PCB_129_138_163	-.0000004989	0.0000000243	-.0000002514	-.0000001617	-.0000000088
PCB_134_143	0.0000000013	0.0000000002	-.0000000007	-.0000000002	-.0000000000
PCB_135_151	-.0000000176	0.0000000175	0.0000002525	0.0000000088	0.0000000161
PCB_139_140	-.0000000062	-.0000000005	-.0000000065	-.0000000036	-.0000000004
PCB_147_149	-.0000002031	0.0000000424	0.0000002149	-.0000000294	0.0000000213
PCB_153_168	-.0000003195	0.0000000333	0.0000000534	-.0000000859	0.0000000110
PCB_156_157	-.0000000678	-.0000000073	-.0000001198	-.0000000357	-.0000000083
PCB_171_173	-.0000000192	0.0000000054	0.0000000207	-.0000000024	0.0000000027
PCB_18_30	0.0000000413	-.0000000028	0.0000000637	0.0000000065	0.0000000021
PCB_180_193	-.0000001736	0.0000000430	0.0000001744	-.0000000141	0.0000000211
PCB_183_185	-.0000000432	0.0000000188	0.0000001093	0.0000000010	0.0000000111
PCB_197_200	-.0000000034	0.0000000016	0.0000000097	0.0000000004	0.0000000009
PCB_198_199	-.0000000207	0.0000000076	0.0000000435	0.0000000006	0.0000000043
PCB_20_28	0.0000000741	-.0000000020	0.0000001412	0.0000000101	0.0000000069
PCB_21_33	0.0000000054	0.0000000003	0.0000000185	0.0000000005	0.0000000010
PCB_26_29	0.0000000694	-.0000000042	0.0000000454	0.0000000164	0.0000000013
PCB_40_41_71	0.0000001211	-.0000000056	0.0000000730	0.0000000393	0.0000000029
PCB_44_47_65	0.0000003873	-.0000000384	0.0000000620	0.0000001003	-.0000000051
PCB_45_51	0.0000001074	-.0000000066	0.0000000360	0.0000000263	0.0000000011
PCB_49_69	0.0000005450	-.0000000540	0.0000001667	0.0000001556	-.0000000067
PCB_50_53	0.0000001760	-.0000000137	0.0000000657	0.0000000476	-.0000000006
PCB_59_62_75	0.0000000516	-.0000000034	0.0000000401	0.0000000174	0.0000000005
PCB_61_70_74_76	0.0000000076	-.0000000039	-.0000000595	-.0000000172	-.0000000036
PCB_85_117_116	-.0000000393	-.0000000025	-.0000000532	-.0000000139	-.0000000030
PCB_86_87_97_108_119_125	-.0000000757	-.0000000269	-.0000004448	-.0000000359	-.0000000288
PCB_88_91	0.0000000527	-.0000000037	0.0000000762	0.0000000146	0.0000000026
PCB_90_101_113	-.0000000733	-.0000000323	-.0000003190	-.0000000387	-.0000000280
PCB_93_98_100_102	0.0000000196	-.0000000025	0.0000000066	0.0000000042	-.0000000003

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_42	PCB_43	PCB_46	PCB_48	PCB_52
PCB_205	-.0000000242	-.0000000030	-.0000000119	0.0000000078	-.0000001579
PCB_206	-.0000001906	-.0000000327	-.0000000746	0.0000000669	-.0000009177
PCB_207	-.0000000242	-.0000000037	-.0000000096	0.0000000078	-.0000001181
PCB_208	-.0000000606	-.0000000116	-.0000000221	0.0000000279	-.0000002920
PCB_209	-.0000000695	-.0000000177	-.0000000213	0.0000000471	-.0000003351
PCB_12_13	0.0000000373	0.0000000016	0.0000000177	0.0000000043	0.0000001467
PCB_107_124	-.0000013956	-.0000001166	-.0000005835	-.0000001634	-.0000047427
PCB_110_115	-.0000019041	0.0000012140	-.0000012821	-.0000013598	-.0000100899
PCB_128_166	-.0000076649	-.0000006714	-.0000031698	-.0000008240	-.0000272239
PCB_129_138_163	-.0000374751	-.0000030716	-.0000166120	-.0000030376	-.0001431584
PCB_134_143	0.0000000557	0.0000000417	0.0000000406	0.0000000198	0.0000002769
PCB_135_151	0.0000015978	0.0000004904	0.0000001703	0.0000008041	-.0000030657
PCB_139_140	-.0000006701	-.0000000443	-.0000003275	-.0000000845	-.0000030944
PCB_147_149	-.0000102988	-.0000013352	-.0000046039	0.0000003417	-.0000421333
PCB_153_168	-.0000220705	-.0000020340	-.0000101639	-.0000012992	-.0000928495
PCB_156_157	-.0000067217	-.0000006152	-.0000029292	-.0000008591	-.0000236243
PCB_171_173	-.0000010443	-.0000001131	-.0000004544	0.0000000496	-.0000047980
PCB_18_30	0.0000028292	0.0000000922	0.0000013000	0.0000003459	0.0000122360
PCB_180_193	-.0000083492	-.0000003563	-.0000041774	0.0000002466	-.0000452277
PCB_183_185	-.0000015119	-.0000001529	-.0000007115	0.0000003932	-.0000095174
PCB_197_200	-.0000000728	-.0000000060	-.0000000372	0.0000000384	-.0000005657
PCB_198_199	-.0000006668	-.0000000634	-.0000003250	0.0000001528	-.0000039166
PCB_20_28	0.0000046493	0.0000002628	0.0000019350	0.0000006021	0.0000149924
PCB_21_33	0.0000003643	0.0000000089	0.0000001553	0.0000000719	0.0000012231
PCB_26_29	0.0000046461	0.0000002203	0.0000021978	0.0000004228	0.0000199163
PCB_40_41_71	0.0000090298	0.0000006565	0.0000039907	0.0000007294	0.0000342693
PCB_44_47_65	0.0000263925	0.0000022252	0.0000115795	0.0000015802	0.0001015851
PCB_45_51	0.0000069951	0.0000003384	0.0000032919	0.0000005679	0.0000290070
PCB_49_69	0.0000393539	0.0000034024	0.0000172844	0.0000024588	0.0001556442
PCB_50_53	0.0000124250	0.0000008162	0.0000058041	0.0000009702	0.0000535373
PCB_59_62_75	0.0000041999	0.0000004188	0.0000018532	0.0000003483	0.0000168747
PCB_61_70_74_76	-.0000016269	0.0000000167	-.0000004392	-.0000001565	-.0000040789
PCB_85_117_116	-.0000032192	-.0000000041	-.0000017565	-.0000004884	-.0000171310
PCB_86_87_97_108_119_125	-.0000083134	-.0000005981	-.0000035674	-.0000019188	-.0000254379
PCB_88_91	0.0000041022	0.0000004689	0.0000015698	0.0000003490	0.0000126087
PCB_90_101_113	-.0000069740	-.0000007366	-.0000029282	-.0000016377	-.0000136314
PCB_93_98_100_102	0.0000013231	0.0000001680	0.0000005245	0.0000000688	0.0000043702

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58
PCB_205	-.0000000052	0.0000000004	0.0000000139	-.0000000044	-.0000000018
PCB_206	-.0000000403	0.0000000031	0.0000001049	-.0000000386	-.0000000154
PCB_207	-.0000000050	0.0000000004	0.0000000126	-.0000000047	-.0000000019
PCB_208	-.0000000148	0.0000000012	0.0000000418	-.0000000147	-.0000000055
PCB_209	-.0000000210	0.0000000019	0.0000000669	-.0000000220	-.0000000076
PCB_12_13	0.0000000031	-.0000000000	0.0000000026	0.0000000017	0.0000000016
PCB_107_124	-.0000000703	-.0000000012	-.0000000963	-.0000000831	-.0000000584
PCB_110_115	-.0000002034	-.0000000164	-.0000014981	0.0000003605	0.0000000188
PCB_128_166	-.0000004491	-.0000000005	-.0000004668	-.0000004207	-.0000003151
PCB_129_138_163	-.0000027721	0.0000000218	-.0000006624	-.0000023553	-.0000016417
PCB_134_143	0.0000000130	-.0000000001	0.0000000571	-.0000000221	0.0000000001
PCB_135_151	-.0000002130	0.0000000199	0.0000013149	-.0000001395	0.0000000097
PCB_139_140	-.0000000403	-.0000000008	-.0000000343	-.0000000291	-.0000000267
PCB_147_149	-.0000011920	0.0000000481	0.0000011651	-.0000009548	-.0000005618
PCB_153_168	-.0000019397	0.0000000331	0.0000002523	-.0000013430	-.0000009824
PCB_156_157	-.0000003488	-.0000000087	-.0000005936	-.0000003353	-.0000002730
PCB_171_173	-.0000001160	0.0000000054	0.0000001743	-.0000001062	-.0000000562
PCB_18_30	0.0000002298	-.0000000020	0.0000001924	0.0000001067	0.0000001117
PCB_180_193	-.0000010937	0.0000000441	0.0000014008	-.0000007506	-.0000004437
PCB_183_185	-.0000002862	0.0000000193	0.0000007541	-.0000002512	-.0000001058
PCB_197_200	-.0000000221	0.0000000017	0.0000000640	-.0000000181	-.0000000068
PCB_198_199	-.0000001310	0.0000000082	0.0000002828	-.0000001011	-.0000000469
PCB_20_28	0.0000003534	-.0000000025	0.0000005460	0.0000001862	0.0000001867
PCB_21_33	0.0000000239	0.0000000003	0.0000000772	0.0000000041	0.0000000127
PCB_26_29	0.0000003910	-.0000000041	0.0000001021	0.0000002620	0.0000002058
PCB_40_41_71	0.0000006539	-.0000000050	0.0000001111	0.0000006075	0.0000004025
PCB_44_47_65	0.0000021861	-.0000000382	-.0000002543	0.0000017926	0.0000011834
PCB_45_51	0.0000006124	-.0000000070	0.0000000525	0.0000004237	0.0000003090
PCB_49_69	0.0000030476	-.0000000501	-.0000003769	0.0000027294	0.0000017932
PCB_50_53	0.0000010221	-.0000000126	0.0000000520	0.0000007471	0.0000005546
PCB_59_62_75	0.0000002875	-.0000000026	0.0000001074	0.0000002503	0.0000001872
PCB_61_70_74_76	0.0000001009	-.0000000078	0.0000002232	-.0000002836	-.0000000726
PCB_85_117_116	-.0000002472	-.0000000034	-.0000002341	-.0000001016	-.0000001320
PCB_86_87_97_108_119_125	-.0000002587	-.0000000284	-.0000022051	-.0000000906	-.0000002973
PCB_88_91	0.0000002506	-.0000000031	0.0000002150	0.0000002591	0.0000001768
PCB_90_101_113	-.0000002543	-.0000000289	-.0000021657	-.0000000510	-.0000002410
PCB_93_98_100_102	0.0000001062	-.0000000026	0.0000000144	0.0000000850	0.0000000578

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_60	PCB_63	PCB_64	PCB_66	PCB_67
PCB_205	0.0000000147	-.0000000050	-.0000000002	-.0000000587	-.0000000015
PCB_206	0.0000001125	-.0000000486	-.0000000105	-.0000006282	-.0000000129
PCB_207	0.0000000135	-.0000000059	-.0000000028	-.0000000763	-.0000000016
PCB_208	0.0000000442	-.0000000185	0.0000000106	-.0000002414	-.0000000045
PCB_209	0.0000000699	-.0000000277	0.0000000454	-.0000003647	-.0000000060
PCB_12_13	0.0000000011	0.0000000029	0.0000000430	0.0000000379	0.0000000016
PCB_107_124	-.0000000741	-.0000000969	-.0000016631	-.0000013867	-.0000000547
PCB_110_115	-.0000014796	0.0000000371	-.0000052266	0.0000006834	-.0000000488
PCB_128_166	-.0000002698	-.0000005830	-.0000088412	-.0000079770	-.0000003171
PCB_129_138_163	0.0000003166	-.0000030013	-.0000396734	-.0000397860	-.0000015682
PCB_134_143	0.0000000100	0.0000000004	0.0000000583	-.0000000453	0.0000000088
PCB_135_151	0.0000011179	0.0000000101	0.0000037770	0.0000011183	0.0000000746
PCB_139_140	-.0000000169	-.0000000272	-.0000007597	-.0000002955	-.0000000251
PCB_147_149	0.0000017155	-.0000012780	-.0000080846	-.0000166841	-.0000005387
PCB_153_168	0.0000011279	-.0000018378	-.0000213441	-.0000228099	-.0000009771
PCB_156_157	-.0000004064	-.0000004105	-.0000079882	-.0000057304	-.0000002679
PCB_171_173	0.0000002036	-.0000001268	-.0000007799	-.0000015884	-.0000000503
PCB_18_30	0.0000000872	0.0000002080	0.0000033267	0.0000025841	0.0000001222
PCB_180_193	0.0000016388	-.0000009241	-.0000064340	-.0000108175	-.0000003946
PCB_183_185	0.0000007805	-.0000002805	-.0000002687	-.0000032749	-.0000000834
PCB_197_200	0.0000000657	-.0000000212	0.0000000340	-.0000002498	-.0000000051
PCB_198_199	0.0000003116	-.0000001258	-.0000001929	-.0000015229	-.0000000400
PCB_20_28	0.0000003340	0.0000004318	0.0000057704	0.0000060951	0.0000002160
PCB_21_33	0.0000000567	0.0000000268	0.0000005229	0.0000003818	0.0000000168
PCB_26_29	-.0000000399	0.0000003554	0.0000051216	0.0000045702	0.0000001991
PCB_40_41_71	-.0000000589	0.0000007303	0.0000097110	0.0000098558	0.0000003703
PCB_44_47_65	-.0000009707	0.0000023926	0.0000263322	0.0000313521	0.0000011375
PCB_45_51	-.0000001246	0.0000005700	0.0000073616	0.0000073376	0.0000002937
PCB_49_69	-.0000013927	0.0000033699	0.0000403533	0.0000443605	0.0000016859
PCB_50_53	-.0000003288	0.0000009502	0.0000131042	0.0000120265	0.0000005308
PCB_59_62_75	-.0000000491	0.0000003118	0.0000045823	0.0000041020	0.0000001839
PCB_61_70_74_76	-.0000001450	-.0000000725	-.0000020828	-.0000014882	0.0000000032
PCB_85_117_116	-.0000001250	-.0000001056	-.0000039950	-.0000009972	-.0000001262
PCB_86_87_97_108_119_125	-.0000017194	-.0000003538	-.0000129156	-.0000059651	-.0000003643
PCB_88_91	0.0000000825	0.0000003878	0.0000045977	0.0000055027	0.0000001827
PCB_90_101_113	-.0000016565	-.0000003891	-.0000104891	-.0000067966	-.0000003188
PCB_93_98_100_102	-.0000000436	0.0000001386	0.0000012929	0.0000018603	0.0000000620

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_68	PCB_72	PCB_77	PCB_78	PCB_79
PCB_205	-.0000000181	-.0000000199	0.0000000068	0.0000000039	0.0000000077
PCB_206	-.0000001559	-.0000001654	0.0000000557	0.0000000316	0.0000000527
PCB_207	-.0000000189	-.0000000202	0.0000000067	0.0000000037	0.0000000064
PCB_208	-.0000000589	-.0000000605	0.0000000224	0.0000000123	0.0000000196
PCB_209	-.0000000883	-.0000000870	0.0000000362	0.0000000196	0.0000000296
PCB_12_13	0.0000000074	0.0000000124	0.0000000011	0.0000000004	-.0000000010
PCB_107_124	-.0000002765	-.0000004819	-.0000000718	-.0000000170	-.0000000116
PCB_110_115	0.0000010993	0.0000008532	-.0000005332	-.0000005942	-.0000004582
PCB_128_166	-.0000015535	-.0000025912	-.0000002927	-.0000000664	0.0000000804
PCB_129_138_163	-.0000089570	-.0000140404	-.0000007438	0.0000002023	0.0000013878
PCB_134_143	-.0000000232	-.0000000275	0.0000000032	-.0000000018	-.0000000290
PCB_135_151	-.0000004983	-.0000002895	0.0000005423	0.0000002691	0.0000004996
PCB_139_140	-.0000001066	-.0000002139	-.0000000338	-.0000000057	0.0000000221
PCB_147_149	-.0000040003	-.0000051708	0.0000006528	0.0000005428	0.0000011608
PCB_153_168	-.0000056763	-.0000085049	0.0000000066	0.0000003925	0.0000016037
PCB_156_157	-.0000011956	-.0000021912	-.0000003898	-.0000000801	0.0000000096
PCB_171_173	-.0000004155	-.0000005364	0.0000000775	0.0000000555	0.0000001227
PCB_18_30	0.0000004863	0.0000008553	0.0000000760	0.0000000509	-.0000000891
PCB_180_193	-.0000030782	-.0000041043	0.0000006477	0.0000003704	0.0000011003
PCB_183_185	-.0000010045	-.0000011327	0.0000003548	0.0000002030	0.0000004061
PCB_197_200	-.0000000744	-.0000000771	0.0000000324	0.0000000169	0.0000000321
PCB_198_199	-.0000004234	-.0000004794	0.0000001469	0.0000000814	0.0000001669
PCB_20_28	0.0000008540	0.0000014048	0.0000001692	0.0000001046	-.0000000072
PCB_21_33	0.0000000316	0.0000000772	0.0000000260	0.0000000196	0.0000000114
PCB_26_29	0.0000010326	0.0000016868	0.0000000729	0.0000000106	-.0000001797
PCB_40_41_71	0.0000022007	0.0000034596	0.0000001855	-.0000000303	-.0000002544
PCB_44_47_65	0.0000070412	0.0000103859	0.0000000816	-.0000003583	-.0000013995
PCB_45_51	0.0000016738	0.0000026179	0.0000000803	-.0000000260	-.0000003272
PCB_49_69	0.0000102881	0.0000155909	0.0000002492	-.0000004391	-.0000017732
PCB_50_53	0.0000029266	0.0000046636	0.0000001351	-.0000000646	-.0000006043
PCB_59_62_75	0.0000009553	0.0000015537	0.0000000858	-.0000000154	-.0000001456
PCB_61_70_74_76	-.0000004672	-.0000008331	-.0000001811	-.0000000515	-.0000003023
PCB_85_117_116	-.0000003983	-.0000009549	-.0000001599	-.0000000815	0.0000000851
PCB_86_87_97_108_119_125	-.0000003698	-.0000017048	-.0000009598	-.0000005096	-.0000006151
PCB_88_91	0.0000009835	0.0000014904	0.0000001033	0.0000000025	-.0000000478
PCB_90_101_113	-.0000004144	-.0000014034	-.0000008881	-.0000003627	-.0000004859
PCB_93_98_100_102	0.0000003652	0.0000005078	-.0000000016	-.0000000240	-.0000000762

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
PCB_205	0.0000000025	-.0000000133	-.0000000264	-.0000000366	0.0000000042
PCB_206	0.0000000206	-.0000001123	-.0000002131	-.0000002138	0.0000000362
PCB_207	0.0000000025	-.0000000133	-.0000000259	-.0000000264	0.0000000044
PCB_208	0.0000000081	-.0000000512	-.0000000793	-.0000000710	0.0000000143
PCB_209	0.0000000128	-.0000000934	-.0000001179	-.0000000947	0.0000000225
PCB_12_13	-.0000000001	-.0000000181	0.0000000103	0.0000000175	-.0000000002
PCB_107_124	-.0000000080	0.0000008802	-.0000003299	-.0000004286	-.0000000063
PCB_110_115	-.0000000872	0.0000014627	0.0000011570	0.0000016604	-.0000002067
PCB_128_166	0.0000000027	0.0000040247	-.0000022108	-.0000031622	0.0000000202
PCB_129_138_163	0.0000001682	0.0000180265	-.0000118072	-.0000194006	0.0000004010
PCB_134_143	-.0000000008	0.0000000686	0.0000000700	0.0000002748	0.0000000032
PCB_135_151	0.0000001376	-.0000020930	-.0000003482	-.0000010751	0.0000002406
PCB_139_140	-.0000000044	0.0000004043	-.0000001752	-.0000004370	-.0000000066
PCB_147_149	0.0000003222	0.0000019161	-.0000056957	-.0000080415	0.0000005890
PCB_153_168	0.0000002474	0.0000081697	-.0000084855	-.0000159645	0.0000004319
PCB_156_157	-.0000000569	0.0000042502	-.0000015528	-.0000027626	-.0000000694
PCB_171_173	0.0000000376	0.0000001605	-.0000006049	-.0000008369	0.0000000663
PCB_18_30	-.0000000200	-.0000011681	0.0000008948	0.0000014914	-.0000000262
PCB_180_193	0.0000003160	0.0000010660	-.0000046864	-.0000073032	0.0000005397
PCB_183_185	0.0000001335	-.0000006035	-.0000014690	-.0000020070	0.0000002279
PCB_197_200	0.0000000115	-.0000000817	-.0000001067	-.0000001295	0.0000000197
PCB_198_199	0.0000000562	-.0000002425	-.0000006221	-.0000008114	0.0000000968
PCB_20_28	-.0000000207	-.0000020531	0.0000013078	0.0000013976	-.0000000349
PCB_21_33	0.0000000014	-.0000001873	0.0000000779	0.0000000774	0.0000000035
PCB_26_29	-.0000000335	-.0000021485	0.0000015110	0.0000024176	-.0000000672
PCB_40_41_71	-.0000000373	-.0000045946	0.0000027336	0.0000040399	-.0000001030
PCB_44_47_65	-.0000002746	-.0000106219	0.0000093800	0.0000149795	-.0000005255
PCB_45_51	-.0000000545	-.0000030868	0.0000022154	0.0000037663	-.0000001085
PCB_49_69	-.0000003636	-.0000173835	0.0000140947	0.0000212819	-.0000007444
PCB_50_53	-.0000001004	-.0000055592	0.0000043125	0.0000073092	-.0000001963
PCB_59_62_75	-.0000000209	-.0000020643	0.0000014859	0.0000023228	-.0000000476
PCB_61_70_74_76	-.0000000558	0.0000022317	0.0000002226	0.0000014385	-.0000000491
PCB_85_117_116	-.0000000141	0.0000019686	-.0000008182	-.0000019312	-.0000000205
PCB_86_87_97_108_119_125	-.0000001883	0.0000066422	-.0000010876	-.0000008681	-.0000002922
PCB_88_91	-.0000000208	-.0000019277	0.0000013458	0.0000015011	-.0000000474
PCB_90_101_113	-.0000002048	0.0000056024	-.0000004284	-.0000006486	-.0000003144
PCB_93_98_100_102	-.0000000177	-.0000004237	0.0000005255	0.0000007926	-.0000000301

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99
PCB_205	-.0000000602	-.0000000081	0.0000000264	-.0000000042	-.0000002095
PCB_206	-.0000005205	-.0000000665	0.0000005791	-.0000000289	-.0000017760
PCB_207	-.0000000642	-.0000000081	0.0000000692	-.0000000036	-.0000002137
PCB_208	-.0000001948	-.0000000249	0.0000002907	-.0000000095	-.0000007109
PCB_209	-.0000002872	-.0000000370	0.0000005464	-.0000000120	-.0000011523
PCB_12_13	0.0000000310	0.0000000033	0.0000000930	0.0000000039	-.0000000480
PCB_107_124	-.0000011610	-.0000000839	-.0000040113	-.0000001418	0.0000008728
PCB_110_115	0.0000007615	0.0000002131	0.0000020747	0.0000000214	0.0000299885
PCB_128_166	-.0000070660	-.0000005821	-.0000187088	-.0000007815	0.0000026942
PCB_129_138_163	-.0000351295	-.0000035101	-.0001018575	-.0000041640	0.0000009729
PCB_134_143	-.0000000315	0.0000000202	0.0000002702	0.0000000077	-.0000008416
PCB_135_151	-.0000002259	-.0000002335	0.0000040904	-.0000000088	-.0000131264
PCB_139_140	-.0000004688	-.0000000419	-.0000026985	-.0000000796	0.0000006926
PCB_147_149	-.0000138610	-.0000017287	-.0000148977	-.0000012873	-.0000204273
PCB_153_168	-.0000220815	-.0000025654	-.0000598241	-.0000026240	-.0000075786
PCB_156_157	-.0000049701	-.0000004060	-.0000224417	-.0000007056	0.0000070433
PCB_171_173	-.0000015526	-.0000001735	-.0000012659	-.0000001335	-.0000030953
PCB_18_30	0.0000026517	0.0000002479	0.0000054556	0.0000002903	-.0000029150
PCB_180_193	-.0000117455	-.0000013995	-.0000110852	-.0000011058	-.0000176371
PCB_183_185	-.0000035026	-.0000004433	0.0000011262	-.0000002465	-.0000116858
PCB_197_200	-.0000002473	-.0000000338	0.0000003151	-.0000000142	-.0000009441
PCB_198_199	-.0000014545	-.0000001923	0.0000006665	-.0000001028	-.0000041703
PCB_20_28	0.0000043659	0.0000004013	0.0000060530	0.0000004131	-.0000062864
PCB_21_33	0.0000002826	0.0000000203	0.0000004325	0.0000000283	-.0000010913
PCB_26_29	0.0000043460	0.0000004312	0.0000111825	0.0000005146	-.0000025940
PCB_40_41_71	0.0000085486	0.0000008030	0.0000237647	0.0000009913	-.0000000205
PCB_44_47_65	0.0000273357	0.0000029073	0.0000627898	0.0000029766	0.0000128850
PCB_45_51	0.0000065993	0.0000007048	0.0000178175	0.0000007879	-.0000017316
PCB_49_69	0.0000405476	0.0000040002	0.0000950231	0.0000044402	0.0000166349
PCB_50_53	0.0000119406	0.0000012145	0.0000322637	0.0000014230	-.0000017421
PCB_59_62_75	0.0000040074	0.0000003699	0.0000109457	0.0000004673	-.0000006241
PCB_61_70_74_76	-.0000015771	0.0000001215	-.0000071759	-.0000001530	-.0000058548
PCB_85_117_116	-.0000020773	-.0000001771	-.0000115088	-.0000003749	0.0000073826
PCB_86_87_97_108_119_125	-.0000040815	-.0000000725	-.0000223856	-.0000006602	0.0000328786
PCB_88_91	0.0000042552	0.0000003698	0.0000075016	0.0000004019	0.0000006192
PCB_90_101_113	-.0000023185	-.0000001595	-.0000231012	-.0000005386	0.0000304949
PCB_93_98_100_102	0.0000014831	0.0000001636	0.0000024508	0.0000001417	0.0000010857

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_103	PCB_104	PCB_105	PCB_109	PCB_111
PCB_205	-.0000000085	-.0000000002	-.0000001341	-.0000000323	-.0000000009
PCB_206	-.0000000708	-.0000000016	-.0000011627	-.0000003101	-.0000000087
PCB_207	-.0000000087	-.0000000002	-.0000001382	-.0000000369	-.0000000010
PCB_208	-.0000000257	-.0000000006	-.0000004982	-.0000001273	-.0000000033
PCB_209	-.0000000367	-.0000000008	-.0000008540	-.0000002107	-.0000000050
PCB_12_13	0.0000000056	0.0000000002	-.0000000919	-.0000000107	0.0000000004
PCB_107_124	-.0000002079	-.0000000055	0.0000047370	0.0000003494	-.0000000224
PCB_110_115	0.0000002840	0.0000000085	0.0000115132	0.0000045905	0.0000001130
PCB_128_166	-.0000011661	-.0000000295	0.0000213243	0.0000013840	-.0000001095
PCB_129_138_163	-.0000062419	-.0000001799	0.0000908745	0.0000053315	-.0000005733
PCB_134_143	0.0000000016	0.0000000003	0.0000003005	-.0000000578	-.0000000065
PCB_135_151	-.0000000555	-.0000000071	-.0000146020	-.0000017307	-.0000000153
PCB_139_140	-.0000000940	-.0000000030	0.0000022753	0.0000002728	-.0000000071
PCB_147_149	-.0000022813	-.0000000625	0.0000005901	-.0000030671	-.0000002178
PCB_153_168	-.0000038881	-.0000001157	0.0000385181	0.0000016744	-.0000003051
PCB_156_157	-.0000009699	-.0000000283	0.0000235845	0.0000021549	-.0000000891
PCB_171_173	-.0000002336	-.0000000058	-.0000001271	-.0000003863	-.0000000248
PCB_18_30	0.0000004000	0.0000000100	-.0000059674	-.0000007342	0.0000000220
PCB_180_193	-.0000017785	-.0000000480	-.0000023859	-.0000018160	-.0000001563
PCB_183_185	-.0000004848	-.0000000120	-.0000065277	-.0000017081	-.0000000546
PCB_197_200	-.0000000325	-.0000000008	-.0000007321	-.0000001548	-.0000000037
PCB_198_199	-.0000002060	-.0000000052	-.0000027857	-.0000006737	-.0000000212
PCB_20_28	0.0000006664	0.0000000158	-.0000103452	-.0000009558	0.0000000425
PCB_21_33	0.0000000390	0.0000000007	-.0000010351	-.0000001605	0.0000000007
PCB_26_29	0.0000007384	0.0000000206	-.0000102512	-.0000009594	0.0000000590
PCB_40_41_71	0.0000015045	0.0000000425	-.0000228647	-.0000012982	0.0000001498
PCB_44_47_65	0.0000046723	0.0000001331	-.0000501846	-.0000012057	0.0000004258
PCB_45_51	0.0000011623	0.0000000348	-.0000149777	-.0000012045	0.0000000949
PCB_49_69	0.0000068459	0.0000001863	-.0000814203	-.0000024975	0.0000006659
PCB_50_53	0.0000020512	0.0000000579	-.0000265200	-.0000019782	0.0000001728
PCB_59_62_75	0.0000006803	0.0000000177	-.0000100377	-.0000006011	0.0000000628
PCB_61_70_74_76	-.0000002587	-.0000000049	0.0000127248	0.0000002848	-.0000000878
PCB_85_117_116	-.0000003991	-.0000000123	0.0000104203	0.0000018115	-.0000000191
PCB_86_87_97_108_119_125	-.0000007592	-.0000000150	0.0000377984	0.0000053436	-.0000000352
PCB_88_91	0.0000006760	0.0000000160	-.0000095662	-.0000001541	0.0000000685
PCB_90_101_113	-.0000007041	-.0000000233	0.0000335264	0.0000045718	-.0000000209
PCB_93_98_100_102	0.0000002410	0.0000000064	-.0000019507	0.0000000987	0.0000000207

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
PCB_205	-.0000000114	-.0000005139	-.0000000023	-.0000000003	-.0000000015
PCB_206	-.0000001018	-.0000043087	-.0000000222	-.0000000030	-.0000000109
PCB_207	-.0000000122	-.0000005118	-.0000000027	-.0000000004	-.0000000013
PCB_208	-.0000000437	-.0000017944	-.0000000083	-.0000000011	-.0000000049
PCB_209	-.0000000747	-.0000029894	-.0000000121	-.0000000016	-.0000000090
PCB_12_13	-.0000000076	-.0000002175	0.0000000016	0.0000000002	-.0000000019
PCB_107_124	0.0000003971	0.0000120607	-.0000000896	-.0000000100	0.0000000996
PCB_110_115	0.0000007061	0.0000452784	0.0000002399	0.0000000383	0.0000002376
PCB_128_166	0.0000017278	0.0000555275	-.0000004332	-.0000000510	0.0000004620
PCB_129_138_163	0.0000076198	0.0002063397	-.0000021491	-.0000002653	0.0000019544
PCB_134_143	0.0000000238	0.0000003088	-.0000000218	-.0000000017	0.0000000151
PCB_135_151	-.0000011492	-.0000531829	0.0000000255	-.0000000008	-.0000002478
PCB_139_140	0.0000001990	0.0000057143	-.0000000298	-.0000000038	0.0000000401
PCB_147_149	0.0000000728	-.0000243600	-.0000006719	-.0000000909	0.0000001660
PCB_153_168	0.0000032493	0.0000770566	-.0000010831	-.0000001490	0.0000008089
PCB_156_157	0.0000020113	0.0000606769	-.0000003715	-.0000000436	0.0000004537
PCB_171_173	-.0000000171	-.0000028185	-.0000000750	-.0000000100	0.0000000186
PCB_18_30	-.0000004529	-.0000160125	0.0000001001	0.0000000122	-.0000001353
PCB_180_193	-.0000002419	-.0000281835	-.0000004726	-.0000000642	0.0000001086
PCB_183_185	-.0000005659	-.0000254618	-.0000001376	-.0000000200	-.0000000629
PCB_197_200	-.0000000632	-.0000026323	-.0000000084	-.0000000013	-.0000000086
PCB_198_199	-.0000002403	-.0000109149	-.0000000538	-.0000000078	-.0000000270
PCB_20_28	-.0000007634	-.0000285835	0.0000001968	0.0000000217	-.0000002512
PCB_21_33	-.0000000758	-.0000032625	0.0000000089	0.0000000008	-.0000000230
PCB_26_29	-.0000008521	-.0000227695	0.0000002304	0.0000000275	-.0000002322
PCB_40_41_71	-.0000019182	-.0000512935	0.0000005610	0.0000000665	-.0000005114
PCB_44_47_65	-.0000041035	-.0001037229	0.0000015288	0.0000001943	-.0000011725
PCB_45_51	-.0000012436	-.0000316547	0.0000003615	0.0000000446	-.0000003352
PCB_49_69	-.0000067817	-.0001726257	0.0000023934	0.0000002948	-.0000019086
PCB_50_53	-.0000022336	-.0000574078	0.0000006450	0.0000000803	-.0000005865
PCB_59_62_75	-.0000008515	-.0000236214	0.0000002341	0.0000000287	-.0000002168
PCB_61_70_74_76	0.0000010734	0.0000314065	-.0000003192	-.0000000307	0.0000003057
PCB_85_117_116	0.0000009130	0.0000257301	-.0000001024	-.0000000115	0.0000001932
PCB_86_87_97_108_119_125	0.0000031443	0.0001118284	-.0000002985	-.0000000246	0.0000007240
PCB_88_91	-.0000007508	-.0000244209	0.0000002578	0.0000000304	-.0000002297
PCB_90_101_113	0.0000028303	0.0000967318	-.0000002317	-.0000000223	0.0000005833
PCB_93_98_100_102	-.0000001463	-.0000043617	0.0000000730	0.0000000098	-.0000000483

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131
PCB_205	-.0000000123	0.0000000058	-.0000000007	-.0000000062	-.0000000009
PCB_206	-.0000001320	0.0000000550	-.0000000072	-.0000000596	-.0000000136
PCB_207	-.0000000161	0.0000000067	-.0000000008	-.0000000069	-.0000000015
PCB_208	-.0000000572	0.0000000216	-.0000000032	-.0000000299	-.0000000075
PCB_209	-.0000000958	0.0000000333	-.0000000056	-.0000000577	-.0000000154
PCB_12_13	-.0000000048	-.0000000020	-.0000000006	-.0000000143	-.0000000045
PCB_107_124	0.0000003742	0.0000000453	0.0000000278	0.0000006725	0.0000001970
PCB_110_115	-.0000010539	0.0000000378	0.0000000800	0.0000007500	0.0000002576
PCB_128_166	0.0000015448	0.0000003135	0.0000001467	0.0000032332	0.0000009846
PCB_129_138_163	0.0000072121	0.0000017420	0.0000006289	0.0000150862	0.0000046678
PCB_134_143	-.0000000050	0.0000000027	-.0000000036	0.0000000273	0.0000000005
PCB_135_151	-.0000011109	0.0000001647	-.0000001036	-.0000014113	-.0000003640
PCB_139_140	0.0000002450	0.0000000051	0.0000000158	0.0000003247	0.0000001037
PCB_147_149	-.0000002299	0.0000011400	0.0000000211	0.0000020787	0.0000007262
PCB_153_168	0.0000035426	0.0000011441	0.0000003439	0.0000076247	0.0000025253
PCB_156_157	0.0000021040	0.0000001375	0.0000001511	0.0000033211	0.0000009905
PCB_171_173	-.0000000364	0.0000001157	0.0000000016	0.0000001957	0.0000000737
PCB_18_30	-.0000002180	-.0000001572	-.0000000476	-.0000009476	-.0000003165
PCB_180_193	-.0000007305	0.0000009602	0.0000000006	0.0000013039	0.0000005631
PCB_183_185	-.0000006254	0.0000003180	-.0000000347	-.0000002370	-.0000000192
PCB_197_200	-.0000000767	0.0000000273	-.0000000044	-.0000000475	-.0000000105
PCB_198_199	-.0000003101	0.0000001475	-.0000000162	-.0000001100	-.0000000132
PCB_20_28	-.0000001008	-.0000003181	-.0000000737	-.0000015901	-.0000004832
PCB_21_33	-.0000000090	-.0000000207	-.0000000072	-.0000001320	-.0000000406
PCB_26_29	-.0000006033	-.0000002749	-.0000000643	-.0000016877	-.0000005383
PCB_40_41_71	-.0000016862	-.0000004528	-.0000001414	-.0000037083	-.0000011276
PCB_44_47_65	-.0000035552	-.0000015215	-.0000003882	-.0000094770	-.0000029957
PCB_45_51	-.0000009239	-.0000003898	-.0000001030	-.0000025872	-.0000008210
PCB_49_69	-.0000061950	-.0000022845	-.0000005500	-.0000145446	-.0000045609
PCB_50_53	-.0000019892	-.0000006794	-.0000001799	-.0000045535	-.0000014654
PCB_59_62_75	-.0000008661	-.0000002113	-.0000000653	-.0000016299	-.0000005117
PCB_61_70_74_76	0.0000011555	-.0000000501	0.0000000415	0.0000015697	0.0000003989
PCB_85_117_116	0.0000008608	0.0000000937	0.0000000592	0.0000013975	0.0000004588
PCB_86_87_97_108_119_125	0.0000024107	0.0000001752	0.0000002058	0.0000043567	0.0000012483
PCB_88_91	-.0000005582	-.0000002389	-.0000000666	-.0000015748	-.0000004683
PCB_90_101_113	0.0000023037	0.0000000334	0.0000002079	0.0000040150	0.0000011062
PCB_93_98_100_102	-.0000001190	-.0000000832	-.0000000206	-.0000004254	-.0000001356

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_132	PCB_133	PCB_136	PCB_137	PCB_141
PCB_205	0.0000001345	0.0000000021	0.0000000073	-.0000000169	0.0000000612
PCB_206	0.0000010390	0.0000000110	0.0000000464	-.0000001806	0.0000004784
PCB_207	0.0000001294	0.0000000014	0.0000000058	-.0000000215	0.0000000588
PCB_208	0.0000004001	0.0000000040	0.0000000211	-.0000000817	0.0000001738
PCB_209	0.0000006153	0.0000000058	0.0000000364	-.0000001456	0.0000002495
PCB_12_13	-.0000000135	-.0000000002	0.0000000061	-.0000000202	-.0000000330
PCB_107_124	-.0000002289	-.0000000251	-.0000003455	0.0000009177	0.0000011922
PCB_110_115	-.0000012035	0.0000001036	0.0000002254	0.0000013593	-.0000021050
PCB_128_166	0.0000027918	-.0000000623	-.0000017111	0.0000041644	0.0000070044
PCB_129_138_163	0.0000214849	-.0000000359	-.0000068823	0.0000203150	0.0000381363
PCB_134_143	-.0000002021	-.0000000144	0.0000000414	0.0000000068	-.0000000193
PCB_135_151	0.0000069463	0.0000002017	0.0000015934	-.0000018629	0.0000011311
PCB_139_140	0.0000000252	0.0000000055	-.0000001383	0.0000005153	0.0000006022
PCB_147_149	0.0000171826	0.0000001943	-.0000009565	0.0000017063	0.0000143800
PCB_153_168	0.0000241032	0.0000003013	-.0000033276	0.0000102761	0.0000249080
PCB_156_157	-.0000014855	-.0000000892	-.0000017552	0.0000048188	0.0000055898
PCB_171_173	0.0000022499	0.0000000255	-.0000000487	0.0000001116	0.0000015578
PCB_18_30	-.0000024031	-.0000000454	0.0000003923	-.0000012229	-.0000025370
PCB_180_193	0.0000188205	0.0000003634	0.0000002763	0.0000010042	0.0000121427
PCB_183_185	0.0000075898	0.0000001137	0.0000003726	-.0000008171	0.0000035016
PCB_197_200	0.0000006055	0.0000000096	0.0000000452	-.0000001083	0.0000002377
PCB_198_199	0.0000029563	0.0000000479	0.0000001459	-.0000003518	0.0000014308
PCB_20_28	-.0000024061	0.0000000172	0.0000009064	-.0000018193	-.0000037466
PCB_21_33	-.0000000150	0.0000000003	0.0000000802	-.0000001633	-.0000002046
PCB_26_29	-.0000024781	-.0000000461	0.0000006544	-.0000023121	-.0000045350
PCB_40_41_71	-.0000039859	0.0000000383	0.0000016174	-.0000049453	-.0000090764
PCB_44_47_65	-.0000261771	-.0000000912	0.0000041205	-.0000119175	-.0000291317
PCB_45_51	-.0000053110	-.0000000572	0.0000009320	-.0000035404	-.0000071853
PCB_49_69	-.0000290291	-.0000000861	0.0000065292	-.0000185161	-.0000424629
PCB_50_53	-.0000082014	-.0000001270	0.0000018447	-.0000062313	-.0000128481
PCB_59_62_75	-.0000014458	-.0000000092	0.0000008528	-.0000021813	-.0000041677
PCB_61_70_74_76	-.0000030400	-.0000001927	-.0000004783	0.0000020199	0.0000014562
PCB_85_117_116	-.0000009502	0.0000000754	-.0000004562	0.0000023517	0.0000025071
PCB_86_87_97_108_119_125	-.0000133166	-.0000001892	-.0000029329	0.0000064508	0.0000031077
PCB_88_91	-.0000022119	0.0000000578	0.0000009641	-.0000017753	-.0000039625
PCB_90_101_113	-.0000113965	-.0000002638	-.0000028634	0.0000061489	0.0000024685
PCB_93_98_100_102	-.0000017804	0.0000000001	0.0000002546	-.0000004527	-.0000014968

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_142	PCB_144	PCB_145	PCB_146	PCB_148
PCB_205	0.0000000004	0.0000000262	0.0000000000	0.0000000754	-.0000000001
PCB_206	0.0000000031	0.0000001822	0.0000000000	0.0000005464	-.0000000017
PCB_207	0.0000000004	0.0000000226	0.0000000000	0.0000000668	-.0000000002
PCB_208	0.0000000012	0.0000000663	-.0000000000	0.0000002042	-.0000000007
PCB_209	0.0000000019	0.0000000938	-.0000000001	0.0000003055	-.0000000010
PCB_12_13	-.0000000000	-.0000000127	-.0000000000	-.0000000174	0.0000000001
PCB_107_124	-.0000000012	0.0000003226	0.0000000014	0.0000002932	-.0000000050
PCB_110_115	-.0000000164	0.0000002551	0.0000000092	-.0000030623	0.0000000289
PCB_128_166	-.0000000005	0.0000019415	0.0000000074	0.0000028866	-.0000000270
PCB_129_138_163	0.0000000218	0.0000124414	0.0000000381	0.0000210051	-.0000001128
PCB_134_143	-.0000000001	0.0000000002	0.0000000001	-.0000001671	-.0000000007
PCB_135_151	0.0000000199	0.0000015018	0.0000000010	0.0000038090	0.0000000161
PCB_139_140	-.0000000008	0.0000002221	0.0000000009	0.0000003221	-.0000000005
PCB_147_149	0.0000000481	0.0000051307	0.0000000070	0.0000125449	-.0000000426
PCB_153_168	0.0000000331	0.0000087003	0.0000000222	0.0000183447	-.0000000544
PCB_156_157	-.0000000087	0.0000015511	0.0000000069	0.0000015941	-.0000000198
PCB_171_173	0.0000000054	0.0000005632	0.0000000009	0.0000013998	-.0000000043
PCB_18_30	-.0000000020	-.0000009672	-.0000000038	-.0000015898	0.0000000034
PCB_180_193	0.0000000441	0.0000053429	0.0000000112	0.0000120514	-.0000000121
PCB_183_185	0.0000000193	0.0000014696	0.0000000013	0.0000041289	-.0000000066
PCB_197_200	0.0000000017	0.0000001092	0.0000000001	0.0000003165	-.0000000004
PCB_198_199	0.0000000082	0.0000006207	0.0000000006	0.0000016893	-.0000000026
PCB_20_28	-.0000000025	-.0000011301	-.0000000046	-.0000014495	0.0000000146
PCB_21_33	0.0000000003	-.0000000637	-.0000000005	-.0000000181	0.0000000006
PCB_26_29	-.0000000041	-.0000017689	-.0000000060	-.0000027804	0.0000000076
PCB_40_41_71	-.0000000050	-.0000030077	-.0000000096	-.0000045857	0.0000000281
PCB_44_47_65	-.0000000382	-.0000096246	-.0000000251	-.0000185737	0.0000000872
PCB_45_51	-.0000000070	-.0000027321	-.0000000085	-.0000044956	0.0000000138
PCB_49_69	-.0000000501	-.0000141056	-.0000000395	-.0000259119	0.0000001267
PCB_50_53	-.0000000126	-.0000047751	-.0000000149	-.0000083495	0.0000000247
PCB_59_62_75	-.0000000026	-.0000013431	-.0000000043	-.0000023769	0.0000000120
PCB_61_70_74_76	-.0000000078	0.0000001447	0.0000000023	-.0000014450	-.0000000155
PCB_85_117_116	-.0000000034	0.0000013027	0.0000000061	0.0000014788	0.0000000056
PCB_86_87_97_108_119_125	-.0000000284	0.0000005180	0.0000000099	-.0000029784	-.0000000160
PCB_88_91	-.0000000031	-.0000009486	-.0000000028	-.0000016621	0.0000000203
PCB_90_101_113	-.0000000289	-.0000000199	0.0000000052	-.0000032748	-.0000000222
PCB_93_98_100_102	-.0000000026	-.0000004024	-.0000000008	-.0000009770	0.0000000063

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158
PCB_205	-.0000000003	-.0000000003	-.0000000006	0.0000000003	-.0000000043
PCB_206	-.0000000033	-.0000000027	-.0000000101	0.0000000026	-.0000000800
PCB_207	-.0000000004	-.0000000003	-.0000000012	0.0000000003	-.0000000086
PCB_208	-.0000000013	-.0000000010	-.0000000042	0.0000000010	-.0000000469
PCB_209	-.0000000020	-.0000000016	-.0000000070	0.0000000017	-.0000000995
PCB_12_13	0.0000000001	0.0000000001	-.0000000000	-.0000000000	-.0000000324
PCB_107_124	-.0000000058	-.0000000031	-.0000000083	-.0000000013	0.0000013728
PCB_110_115	0.0000000496	0.0000000334	0.0000000905	-.0000000115	0.0000020804
PCB_128_166	-.0000000317	-.0000000198	-.0000000571	-.0000000014	0.0000068675
PCB_129_138_163	-.0000001558	-.0000001279	-.0000001559	0.0000000151	0.0000333041
PCB_134_143	-.0000000010	0.0000000007	-.0000000048	-.0000000001	0.0000000016
PCB_135_151	0.0000000035	-.0000000071	0.0000000605	0.0000000181	-.0000022194
PCB_139_140	-.0000000010	-.0000000011	0.0000000097	-.0000000008	0.0000007291
PCB_147_149	-.0000000751	-.0000000688	-.0000001373	0.0000000404	0.0000054569
PCB_153_168	-.0000000889	-.0000000925	-.0000000256	0.0000000272	0.0000182290
PCB_156_157	-.0000000222	-.0000000152	-.0000000050	-.0000000085	0.0000069282
PCB_171_173	-.0000000080	-.0000000065	-.0000000140	0.0000000046	0.0000005416
PCB_18_30	0.0000000047	0.0000000047	-.0000000032	-.0000000018	-.0000022627
PCB_180_193	-.0000000411	-.0000000427	-.0000000053	0.0000000385	0.0000043677
PCB_183_185	-.0000000181	-.0000000164	-.0000000323	0.0000000167	-.0000000257
PCB_197_200	-.0000000013	-.0000000012	-.0000000029	0.0000000015	-.0000000624
PCB_198_199	-.0000000072	-.0000000070	-.0000000139	0.0000000071	-.0000000361
PCB_20_28	0.0000000141	0.0000000104	0.0000000577	-.0000000021	-.0000034569
PCB_21_33	0.0000000002	0.0000000000	0.0000000020	0.0000000002	-.0000002859
PCB_26_29	0.0000000129	0.0000000117	-.0000000082	-.0000000034	-.0000038784
PCB_40_41_71	0.0000000388	0.0000000287	0.0000000445	-.0000000033	-.0000080401
PCB_44_47_65	0.0000001252	0.0000001079	0.0000001962	-.0000000308	-.0000215820
PCB_45_51	0.0000000221	0.0000000220	0.0000000039	-.0000000059	-.0000059824
PCB_49_69	0.0000001873	0.0000001440	0.0000002224	-.0000000390	-.0000324563
PCB_50_53	0.0000000418	0.0000000375	-.0000000162	-.0000000102	-.0000105020
PCB_59_62_75	0.0000000175	0.0000000125	0.0000000066	-.0000000017	-.0000035763
PCB_61_70_74_76	-.0000000180	0.0000000014	-.0000000468	-.0000000077	0.0000026647
PCB_85_117_116	0.0000000036	0.0000000004	0.0000000818	-.0000000028	0.0000032727
PCB_86_87_97_108_119_125	-.0000000039	0.0000000081	0.0000000243	-.0000000255	0.0000085042
PCB_88_91	0.0000000236	0.0000000147	0.0000000707	-.0000000020	-.0000032555
PCB_90_101_113	-.0000000075	-.0000000064	-.0000000328	-.0000000258	0.0000077515
PCB_93_98_100_102	0.0000000080	0.0000000067	0.0000000227	-.0000000021	-.0000009666

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_159	PCB_161	PCB_162	PCB_164	PCB_165
PCB_205	0.0000000070	0.0000000004	0.0000000058	0.0000000261	-.0000000001
PCB_206	0.0000000573	0.0000000031	0.0000000500	0.0000002031	-.0000000005
PCB_207	0.0000000069	0.0000000004	0.0000000060	0.0000000252	-.0000000001
PCB_208	0.0000000225	0.0000000012	0.0000000192	0.0000000723	-.0000000001
PCB_209	0.0000000353	0.0000000019	0.0000000296	0.0000001008	-.0000000001
PCB_12_13	-.0000000003	-.0000000000	-.0000000014	-.0000000180	0.0000000001
PCB_107_124	-.0000000156	-.0000000012	0.0000000341	0.0000006537	-.0000000104
PCB_110_115	-.0000004524	-.0000000164	-.0000003790	-.0000002451	0.0000000350
PCB_128_166	0.0000000088	-.0000000005	0.0000002349	0.0000037760	-.0000000363
PCB_129_138_163	0.0000006770	0.0000000218	0.0000017796	0.0000199821	-.0000002187
PCB_134_143	-.0000000015	-.0000000001	0.0000000008	-.0000000047	-.0000000058
PCB_135_151	0.0000004212	0.0000000199	0.0000002752	0.0000002501	-.0000000150
PCB_139_140	-.0000000070	-.0000000008	0.0000000094	0.0000003236	-.0000000039
PCB_147_149	0.0000009762	0.0000000481	0.0000010813	0.0000067544	-.0000000322
PCB_153_168	0.0000008172	0.0000000331	0.0000013122	0.0000126530	-.0000000811
PCB_156_157	-.0000001087	-.0000000087	0.0000001398	0.0000030814	-.0000000431
PCB_171_173	0.0000001072	0.0000000054	0.0000001081	0.0000007310	-.0000000043
PCB_18_30	-.0000000276	-.0000000020	-.0000000739	-.0000013872	0.0000000015
PCB_180_193	0.0000008672	0.0000000441	0.0000008114	0.0000057699	-.0000000248
PCB_183_185	0.0000003725	0.0000000193	0.0000003111	0.0000015257	-.0000000053
PCB_197_200	0.0000000316	0.0000000017	0.0000000251	0.0000000987	-.0000000001
PCB_198_199	0.0000001561	0.0000000082	0.0000001322	0.0000006238	-.0000000008
PCB_20_28	-.0000000115	-.0000000025	-.0000001487	-.0000021174	0.0000000028
PCB_21_33	0.0000000111	0.0000000003	0.0000000017	-.0000001314	-.0000000010
PCB_26_29	-.0000000943	-.0000000041	-.0000001858	-.0000023818	0.0000000194
PCB_40_41_71	-.0000001517	-.0000000050	-.0000004181	-.0000047696	0.0000000621
PCB_44_47_65	-.0000008823	-.0000000382	-.0000016009	-.0000150124	0.0000001386
PCB_45_51	-.0000001730	-.0000000070	-.0000003549	-.0000037864	0.0000000370
PCB_49_69	-.0000011786	-.0000000501	-.0000020911	-.0000217084	0.0000002179
PCB_50_53	-.0000003140	-.0000000126	-.0000005573	-.0000066308	0.0000000560
PCB_59_62_75	-.0000000726	-.0000000026	-.0000001541	-.0000021302	0.0000000173
PCB_61_70_74_76	-.0000001218	-.0000000078	-.0000000025	0.0000008764	-.0000000669
PCB_85_117_116	-.0000000400	-.0000000034	-.0000000071	0.0000013765	-.0000000112
PCB_86_87_97_108_119_125	-.0000005777	-.0000000284	-.0000003001	0.0000021891	-.0000000084
PCB_88_91	-.0000000567	-.0000000031	-.0000001841	-.0000020888	0.0000000171
PCB_90_101_113	-.0000005325	-.0000000289	-.0000000972	0.0000018996	-.0000000165
PCB_93_98_100_102	-.0000000518	-.0000000026	-.0000000912	-.0000007658	0.0000000034

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_167	PCB_169	PCB_170	PCB_172	PCB_174
PCB_205	-.0000000037	0.0000000004	0.0000000967	0.0000000330	0.0000001558
PCB_206	-.0000000386	0.0000000033	0.0000007937	0.0000002657	0.0000013203
PCB_207	-.0000000043	0.0000000004	0.0000000966	0.0000000323	0.0000001597
PCB_208	-.0000000225	0.0000000013	0.0000003018	0.0000001026	0.0000005219
PCB_209	-.0000000478	0.0000000021	0.0000004564	0.0000001574	0.0000008229
PCB_12_13	-.0000000172	0.0000000000	-.0000000291	-.0000000061	-.0000000043
PCB_107_124	0.0000007100	-.0000000023	0.0000007877	0.0000000830	-.0000003942
PCB_110_115	0.0000011078	-.0000000230	-.0000038140	-.0000010916	-.0000087255
PCB_128_166	0.0000035363	-.0000000047	0.0000055144	0.0000009227	0.0000002862
PCB_129_138_163	0.0000169891	0.0000000027	0.0000333869	0.0000070365	0.0000123751
PCB_134_143	-.0000000261	-.0000000003	-.0000000846	-.0000000162	0.0000000090
PCB_135_151	-.0000014700	0.0000000232	0.0000033502	0.0000016776	0.0000086106
PCB_139_140	0.0000003487	-.0000000011	0.0000003782	0.0000000518	-.0000002782
PCB_147_149	0.0000030367	0.0000000483	0.0000184133	0.0000052636	0.0000211805
PCB_153_168	0.0000091470	0.0000000292	0.0000245383	0.0000060035	0.0000159158
PCB_156_157	0.0000035929	-.0000000137	0.0000033928	0.0000002411	-.0000030746
PCB_171_173	0.0000002539	0.0000000057	0.0000019634	0.0000005815	0.0000024029
PCB_18_30	-.0000011414	-.0000000009	-.0000023459	-.0000005495	-.0000007629
PCB_180_193	0.0000019253	0.0000000465	0.0000157010	0.0000049318	0.0000190800
PCB_183_185	-.0000001304	0.0000000216	0.0000053127	0.0000017950	0.0000083847
PCB_197_200	-.0000000380	0.0000000019	0.0000004124	0.0000001469	0.0000007183
PCB_198_199	-.0000000352	0.0000000090	0.0000022560	0.0000007602	0.0000035132
PCB_20_28	-.0000019796	0.0000000012	-.0000034970	-.0000006858	-.0000008170
PCB_21_33	-.0000001654	0.0000000006	-.0000001471	-.0000000125	0.0000001781
PCB_26_29	-.0000019760	-.0000000018	-.0000043063	-.0000010246	-.0000018820
PCB_40_41_71	-.0000040967	0.0000000005	-.0000078907	-.0000016588	-.0000028485
PCB_44_47_65	-.0000109759	-.0000000279	-.0000281457	-.0000066950	-.0000183163
PCB_45_51	-.0000030239	-.0000000033	-.0000067100	-.0000016084	-.0000033280
PCB_49_69	-.0000164347	-.0000000350	-.0000407569	-.0000095143	-.0000245064
PCB_50_53	-.0000052627	-.0000000081	-.0000122055	-.0000029054	-.0000061210
PCB_59_62_75	-.0000018393	-.0000000012	-.0000038259	-.0000008053	-.0000014178
PCB_61_70_74_76	0.0000010858	-.0000000112	-.0000004942	-.0000004467	-.0000026023
PCB_85_117_116	0.0000015832	-.0000000050	0.0000017863	0.0000003467	-.0000013903
PCB_86_87_97_108_119_125	0.0000049014	-.0000000387	-.0000003454	-.0000013179	-.0000124894
PCB_88_91	-.0000017714	-.0000000008	-.0000035899	-.0000006784	-.0000015415
PCB_90_101_113	0.0000047288	-.0000000404	-.0000011328	-.0000015859	-.0000123930
PCB_93_98_100_102	-.0000005196	-.0000000022	-.0000015272	-.0000003555	-.0000011785

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
PCB_205	0.0000000082	0.0000000231	0.0000001116	0.0000000564	0.0000000771
PCB_206	0.0000000677	0.0000001910	0.0000009417	0.0000004744	0.0000006466
PCB_207	0.0000000082	0.0000000231	0.0000001139	0.0000000574	0.0000000782
PCB_208	0.0000000266	0.0000000754	0.0000003718	0.0000001882	0.0000002569
PCB_209	0.0000000417	0.0000001188	0.0000005855	0.0000002977	0.0000004071
PCB_12_13	-.0000000005	-.0000000004	-.0000000040	0.0000000000	0.0000000015
PCB_107_124	-.0000000128	-.0000000781	-.0000002557	-.0000002449	-.0000003739
PCB_110_115	-.0000004397	-.0000012692	-.0000061997	-.0000029271	-.0000042323
PCB_128_166	0.0000000555	-.0000000520	0.0000003093	-.0000003794	-.0000007406
PCB_129_138_163	0.0000008658	0.0000014915	0.0000094791	0.0000022158	0.0000019850
PCB_134_143	-.0000000012	-.0000000034	0.0000000010	-.0000000122	-.0000000019
PCB_135_151	0.0000004496	0.0000013653	0.0000061734	0.0000033182	0.0000046742
PCB_139_140	-.0000000072	-.0000000387	-.0000001754	-.0000001368	-.0000002030
PCB_147_149	0.0000011421	0.0000030225	0.0000153278	0.0000072286	0.0000095629
PCB_153_168	0.0000009800	0.0000022748	0.0000117656	0.0000046778	0.0000057804
PCB_156_157	-.0000001140	-.0000005238	-.0000020474	-.0000015808	-.0000023680
PCB_171_173	0.0000001297	0.0000003478	0.0000017312	0.0000008249	0.0000011100
PCB_18_30	-.0000000587	-.0000001017	-.0000006015	-.0000001891	-.0000001572
PCB_180_193	0.0000010490	0.0000028394	0.0000138480	0.0000067492	0.0000090494
PCB_183_185	0.0000004410	0.0000012428	0.0000060030	0.0000030194	0.0000041334
PCB_197_200	0.0000000372	0.0000001064	0.0000005134	0.0000002629	0.0000003602
PCB_198_199	0.0000001843	0.0000005180	0.0000025212	0.0000012719	0.0000017287
PCB_20_28	-.0000000559	-.0000000409	-.0000006290	-.0000000955	0.0000000842
PCB_21_33	0.0000000078	0.0000000317	0.0000001208	0.0000000744	0.0000001220
PCB_26_29	-.0000001300	-.0000002535	-.0000014721	-.0000004860	-.0000005122
PCB_40_41_71	-.0000001989	-.0000003257	-.0000022004	-.0000004664	-.0000003939
PCB_44_47_65	-.0000010887	-.0000024607	-.0000133968	-.0000051070	-.0000062744
PCB_45_51	-.0000002172	-.0000004501	-.0000025171	-.0000008645	-.0000009705
PCB_49_69	-.0000015005	-.0000032633	-.0000182290	-.0000066169	-.0000080177
PCB_50_53	-.0000004078	-.0000008501	-.0000046921	-.0000016381	-.0000018791
PCB_59_62_75	-.0000001029	-.0000001775	-.0000011270	-.0000002895	-.0000002708
PCB_61_70_74_76	-.0000001326	-.0000004482	-.0000018794	-.0000012908	-.0000016713
PCB_85_117_116	-.0000000319	-.0000001773	-.0000008130	-.0000005780	-.0000009032
PCB_86_87_97_108_119_125	-.0000005932	-.0000019794	-.0000085876	-.0000049329	-.0000072100
PCB_88_91	-.0000000922	-.0000001494	-.0000011264	-.0000002810	-.0000002538
PCB_90_101_113	-.0000006146	-.0000019928	-.0000086930	-.0000049745	-.0000072538
PCB_93_98_100_102	-.0000000654	-.0000001550	-.0000008404	-.0000003462	-.0000004329

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187
PCB_205	0.0000000004	0.0000000001	0.0000000002	0.0000000003	0.0000005956
PCB_206	0.0000000029	0.0000000015	0.0000000021	0.0000000026	0.0000049486
PCB_207	0.0000000004	0.0000000002	0.0000000003	0.0000000003	0.0000005980
PCB_208	0.0000000008	0.0000000005	0.0000000008	0.0000000010	0.0000019542
PCB_209	0.0000000007	0.0000000006	0.0000000013	0.0000000016	0.0000030809
PCB_12_13	-.0000000008	-.0000000003	-.0000000000	-.0000000000	-.0000000097
PCB_107_124	0.0000000305	0.0000000108	-.0000000004	-.0000000007	-.0000022474
PCB_110_115	0.0000000141	0.0000000342	-.0000000105	-.0000000140	-.0000329077
PCB_128_166	0.0000001587	0.0000000626	0.0000000019	0.0000000011	-.0000025959
PCB_129_138_163	0.0000007939	0.0000002907	0.0000000269	0.0000000250	0.0000345794
PCB_134_143	-.0000000012	-.0000000003	-.0000000001	0.0000000000	-.0000002651
PCB_135_151	-.0000000356	-.0000000247	0.0000000130	0.0000000165	0.0000353045
PCB_139_140	0.0000000151	0.0000000033	-.0000000003	-.0000000006	-.0000011264
PCB_147_149	0.0000002121	0.0000000718	0.0000000353	0.0000000421	0.0000788992
PCB_153_168	0.0000004585	0.0000001619	0.0000000294	0.0000000310	0.0000572588
PCB_156_157	0.0000001504	0.0000000496	-.0000000034	-.0000000061	-.0000142754
PCB_171_173	0.0000000202	0.0000000068	0.0000000039	0.0000000048	0.0000088341
PCB_18_30	-.0000000544	-.0000000217	-.0000000021	-.0000000020	-.0000022767
PCB_180_193	0.0000001591	0.0000000447	0.0000000318	0.0000000385	0.0000724658
PCB_183_185	0.0000000245	0.0000000073	0.0000000131	0.0000000166	0.0000318011
PCB_197_200	0.0000000009	0.0000000003	0.0000000011	0.0000000014	0.0000027467
PCB_198_199	0.0000000113	0.0000000035	0.0000000056	0.0000000070	0.0000134012
PCB_20_28	-.0000000892	-.0000000468	-.0000000030	-.0000000028	-.0000010783
PCB_21_33	-.0000000068	-.0000000035	0.0000000001	0.0000000002	0.0000008154
PCB_26_29	-.0000000973	-.0000000307	-.0000000043	-.0000000042	-.0000062005
PCB_40_41_71	-.0000001924	-.0000000688	-.0000000063	-.0000000059	-.0000072960
PCB_44_47_65	-.0000005401	-.0000002194	-.0000000337	-.0000000366	-.0000608929
PCB_45_51	-.0000001450	-.0000000535	-.0000000070	-.0000000070	-.0000110845
PCB_49_69	-.0000008248	-.0000002856	-.0000000456	-.0000000495	-.0000794846
PCB_50_53	-.0000002621	-.0000000803	-.0000000126	-.0000000128	-.0000207295
PCB_59_62_75	-.0000000909	-.0000000255	-.0000000031	-.0000000030	-.0000041540
PCB_61_70_74_76	0.0000000389	0.0000000132	-.0000000050	-.0000000055	-.0000137976
PCB_85_117_116	0.0000000729	0.0000000092	-.0000000010	-.0000000023	-.0000049043
PCB_86_87_97_108_119_125	0.0000001900	0.0000000547	-.0000000159	-.0000000225	-.0000508312
PCB_88_91	-.0000000832	-.0000000381	-.0000000032	-.0000000034	-.0000034113
PCB_90_101_113	0.0000001640	0.0000000715	-.0000000161	-.0000000235	-.0000497411
PCB_93_98_100_102	-.0000000258	-.0000000133	-.0000000021	-.0000000024	-.0000039254

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_188	PCB_189	PCB_190	PCB_191	PCB_192
PCB_205	0.0000000003	0.0000000024	0.0000000178	0.0000000058	-.0000000155
PCB_206	0.0000000028	0.0000000184	0.0000001465	0.0000000455	-.0000000439
PCB_207	0.0000000003	0.0000000022	0.0000000177	0.0000000056	-.0000000070
PCB_208	0.0000000011	0.0000000067	0.0000000565	0.0000000173	-.0000000076
PCB_209	0.0000000018	0.0000000096	0.0000000868	0.0000000259	0.0000000097
PCB_12_13	-.0000000000	-.0000000012	-.0000000037	-.0000000017	0.0000000237
PCB_107_124	-.0000000008	0.0000000391	0.0000000621	0.0000000376	-.0000005883
PCB_110_115	-.0000000145	-.0000001046	-.0000007413	-.0000001107	-.0000050671
PCB_128_166	0.0000000012	0.0000002346	0.0000005735	0.0000002817	-.0000032880
PCB_129_138_163	0.0000000283	0.0000013665	0.0000041788	0.0000018200	-.0000184194
PCB_134_143	-.0000000001	-.0000000050	-.0000000188	-.0000000026	-.0000000039
PCB_135_151	0.0000000181	0.0000000625	0.0000008001	0.0000002726	-.0000012996
PCB_139_140	-.0000000006	0.0000000221	0.0000000311	0.0000000228	-.0000004572
PCB_147_149	0.0000000464	0.0000005641	0.0000030600	0.0000010168	-.0000041027
PCB_153_168	0.0000000352	0.0000009424	0.0000034488	0.0000013868	-.0000117258
PCB_156_157	-.0000000063	0.0000001948	0.0000002277	0.0000001580	-.0000029824
PCB_171_173	0.0000000052	0.0000000576	0.0000003209	0.0000001129	-.0000005010
PCB_18_30	-.0000000025	-.0000000888	-.0000003003	-.0000001446	0.0000019716
PCB_180_193	0.0000000425	0.0000004630	0.0000026498	0.0000009760	-.0000065933
PCB_183_185	0.0000000180	0.0000001339	0.0000009568	0.0000003216	-.0000009956
PCB_197_200	0.0000000016	0.0000000094	0.0000000783	0.0000000253	-.0000000603
PCB_198_199	0.0000000077	0.0000000565	0.0000004136	0.0000001356	-.0000004388
PCB_20_28	-.0000000032	-.0000001270	-.0000004320	-.0000001846	0.0000022114
PCB_21_33	0.0000000002	-.0000000064	-.0000000108	-.0000000081	0.0000002188
PCB_26_29	-.0000000050	-.0000001654	-.0000005891	-.0000002562	0.0000030563
PCB_40_41_71	-.0000000067	-.0000003184	-.0000009819	-.0000004330	0.0000045510
PCB_44_47_65	-.0000000403	-.0000010505	-.0000038438	-.0000015582	0.0000126327
PCB_45_51	-.0000000081	-.0000002621	-.0000009106	-.0000003965	0.0000044011
PCB_49_69	-.0000000549	-.0000015199	-.0000055280	-.0000022507	0.0000192304
PCB_50_53	-.0000000148	-.0000004718	-.0000016679	-.0000007109	0.0000075898
PCB_59_62_75	-.0000000035	-.0000001514	-.0000004949	-.0000002051	0.0000020290
PCB_61_70_74_76	-.0000000069	0.0000000070	-.0000002988	-.0000000370	-.0000004199
PCB_85_117_116	-.0000000019	0.0000000966	0.0000001967	0.0000001318	-.0000031425
PCB_86_87_97_108_119_125	-.0000000233	0.0000000965	-.0000004881	-.0000000840	-.0000039697
PCB_88_91	-.0000000036	-.0000001328	-.0000004318	-.0000001711	0.0000011448
PCB_90_101_113	-.0000000246	0.0000000935	-.0000005874	-.0000001668	-.0000018418
PCB_93_98_100_102	-.0000000025	-.0000000540	-.0000002106	-.0000000779	0.0000003771

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_194	PCB_195	PCB_196	PCB_201	PCB_202
PCB_205	0.0000000264	0.0000000187	0.0000000278	0.0000000137	0.0000000189
PCB_206	0.0000002166	0.0000001542	0.0000002296	0.0000001152	0.0000001609
PCB_207	0.0000000263	0.0000000187	0.0000000278	0.0000000139	0.0000000195
PCB_208	0.0000000846	0.0000000606	0.0000000902	0.0000000457	0.0000000638
PCB_209	0.0000001319	0.0000000950	0.0000001415	0.0000000722	0.0000001009
PCB_12_13	-.0000000021	-.0000000009	-.0000000014	-.0000000000	-.0000000003
PCB_107_124	-.0000000177	-.0000000408	-.0000000660	-.0000000555	-.0000000690
PCB_110_115	-.0000014232	-.0000010189	-.0000014163	-.0000007269	-.0000009606
PCB_128_166	0.0000003363	0.0000000822	0.0000001005	-.0000000713	-.0000000597
PCB_129_138_163	0.0000035434	0.0000017880	0.0000025640	0.0000006182	0.0000010182
PCB_134_143	-.0000000177	-.0000000087	-.0000000165	-.0000000026	-.0000000030
PCB_135_151	0.0000013573	0.0000010390	0.0000015450	0.0000007886	0.0000010657
PCB_139_140	-.0000000060	-.0000000187	-.0000000311	-.0000000321	-.0000000442
PCB_147_149	0.0000038442	0.0000025844	0.0000038486	0.0000017666	0.0000025006
PCB_153_168	0.0000037112	0.0000022018	0.0000032278	0.0000011727	0.0000016829
PCB_156_157	-.0000002175	-.0000003018	-.0000004720	-.0000003658	-.0000004763
PCB_171_173	0.0000004322	0.0000002929	0.0000004320	0.0000002017	0.0000002826
PCB_18_30	-.0000002455	-.0000001254	-.0000001938	-.0000000484	-.0000000815
PCB_180_193	0.0000034685	0.0000023788	0.0000035436	0.0000016343	0.0000022859
PCB_183_185	0.0000014255	0.0000010081	0.0000014929	0.0000007321	0.0000010136
PCB_197_200	0.0000001185	0.0000000852	0.0000001270	0.0000000635	0.0000000881
PCB_198_199	0.0000005940	0.0000004211	0.0000006280	0.0000003078	0.0000004287
PCB_20_28	-.0000002606	-.0000001030	-.0000001784	-.0000000311	-.0000000868
PCB_21_33	0.0000000184	0.0000000195	0.0000000257	0.0000000177	0.0000000207
PCB_26_29	-.0000004897	-.0000002731	-.0000004105	-.0000001220	-.0000001926
PCB_40_41_71	-.0000007882	-.0000003943	-.0000005635	-.0000001321	-.0000002279
PCB_44_47_65	-.0000040493	-.0000023756	-.0000034731	-.0000012958	-.0000019078
PCB_45_51	-.0000008218	-.0000004627	-.0000006879	-.0000002183	-.0000003352
PCB_49_69	-.0000055363	-.0000032213	-.0000046841	-.0000016855	-.0000025043
PCB_50_53	-.0000015380	-.0000008773	-.0000012916	-.0000004130	-.0000006205
PCB_59_62_75	-.0000004123	-.0000002150	-.0000003098	-.0000000782	-.0000001258
PCB_61_70_74_76	-.0000004698	-.0000003652	-.0000006019	-.0000002985	-.0000004082
PCB_85_117_116	-.0000000545	-.0000000877	-.0000001242	-.0000001429	-.0000001892
PCB_86_87_97_108_119_125	-.0000017731	-.0000014240	-.0000020747	-.0000011833	-.0000015560
PCB_88_91	-.0000003772	-.0000001853	-.0000002672	-.0000000814	-.0000001408
PCB_90_101_113	-.0000017937	-.0000014492	-.0000021107	-.0000011883	-.0000015665
PCB_93_98_100_102	-.0000002466	-.0000001467	-.0000002155	-.0000000881	-.0000001285

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207
PCB_205	0.0000000541	0.0000000004	0.0000000029	0.0000000237	0.0000000029
PCB_206	0.0000004495	0.0000000030	0.0000000237	0.0000002039	0.0000000246
PCB_207	0.0000000544	0.0000000004	0.0000000029	0.0000000246	0.0000000030
PCB_208	0.0000001769	0.0000000012	0.0000000093	0.0000000809	0.0000000098
PCB_209	0.0000002778	0.0000000019	0.0000000147	0.0000001279	0.0000000154
PCB_12_13	-.0000000025	-.0000000000	-.0000000001	-.0000000004	-.0000000001
PCB_107_124	-.0000001407	-.0000000012	-.0000000089	-.0000000768	-.0000000090
PCB_110_115	-.0000028090	-.0000000169	-.0000001663	-.0000013234	-.0000001545
PCB_128_166	0.0000001101	-.0000000005	-.0000000021	-.0000000277	-.0000000014
PCB_129_138_163	0.0000046812	0.0000000216	0.0000002086	0.0000014806	0.0000001852
PCB_134_143	-.0000000283	-.0000000000	-.0000000014	-.0000000055	-.0000000006
PCB_135_151	0.0000030522	0.0000000196	0.0000001636	0.0000012767	0.0000001539
PCB_139_140	-.0000000720	-.0000000008	-.0000000044	-.0000000553	-.0000000065
PCB_147_149	0.0000074749	0.0000000470	0.0000003856	0.0000032228	0.0000003892
PCB_153_168	0.0000060576	0.0000000323	0.0000003006	0.0000022083	0.0000002703
PCB_156_157	-.0000009867	-.0000000084	-.0000000592	-.0000005505	-.0000000657
PCB_171_173	0.0000008333	0.0000000053	0.0000000435	0.0000003591	0.0000000436
PCB_18_30	-.0000003360	-.0000000018	-.0000000133	-.0000000965	-.0000000130
PCB_180_193	0.0000068263	0.0000000431	0.0000003518	0.0000028336	0.0000003450
PCB_183_185	0.0000029004	0.0000000189	0.0000001535	0.0000012689	0.0000001536
PCB_197_200	0.0000002480	0.0000000016	0.0000000131	0.0000001100	0.0000000133
PCB_198_199	0.0000012238	0.0000000080	0.0000000642	0.0000005373	0.0000000650
PCB_20_28	-.0000003152	-.0000000022	-.0000000075	-.0000001307	-.0000000175
PCB_21_33	0.0000000544	0.0000000003	0.0000000038	0.0000000258	0.0000000029
PCB_26_29	-.0000007560	-.0000000040	-.0000000332	-.0000002434	-.0000000306
PCB_40_41_71	-.0000010325	-.0000000050	-.0000000445	-.0000003309	-.0000000416
PCB_44_47_65	-.0000065623	-.0000000374	-.0000003207	-.0000025418	-.0000003120
PCB_45_51	-.0000012869	-.0000000068	-.0000000585	-.0000004321	-.0000000539
PCB_49_69	-.0000087816	-.0000000494	-.0000004265	-.0000033411	-.0000004106
PCB_50_53	-.0000023871	-.0000000123	-.0000001117	-.0000008001	-.0000000994
PCB_59_62_75	-.0000005552	-.0000000026	-.0000000254	-.0000001789	-.0000000223
PCB_61_70_74_76	-.0000011803	-.0000000072	-.0000000609	-.0000004981	-.0000000596
PCB_85_117_116	-.0000002963	-.0000000034	-.0000000212	-.0000002644	-.0000000308
PCB_86_87_97_108_119_125	-.0000041394	-.0000000281	-.0000002367	-.0000019102	-.0000002287
PCB_88_91	-.0000004888	-.0000000030	-.0000000217	-.0000002188	-.0000000272
PCB_90_101_113	-.0000041267	-.0000000285	-.0000002341	-.0000018689	-.0000002258
PCB_93_98_100_102	-.0000004093	-.0000000025	-.0000000206	-.0000001753	-.0000000214

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_208	PCB_209	PCB_12_13	PCB_107_124	PCB_110_115
PCB_205	0.0000000093	0.0000000147	-.0000000001	-.0000000089	-.0000001663
PCB_206	0.0000000809	0.0000001279	-.0000000004	-.0000000768	-.0000013234
PCB_207	0.0000000098	0.0000000154	-.0000000001	-.0000000090	-.0000001545
PCB_208	0.0000000321	0.0000000510	-.0000000000	-.0000000346	-.0000005200
PCB_209	0.0000000510	0.0000000810	0.0000000002	-.0000000621	-.0000008473
PCB_12_13	-.0000000000	0.0000000002	0.0000000003	-.0000000105	-.0000000459
PCB_107_124	-.0000000346	-.0000000621	-.0000000105	0.0000005142	0.0000009332
PCB_110_115	-.0000005200	-.0000008473	-.0000000459	0.0000009332	0.0000368896
PCB_128_166	-.0000000329	-.0000000911	-.0000000553	0.0000023949	0.0000043273
PCB_129_138_163	0.0000004601	0.0000005156	-.0000002844	0.0000106672	0.0000027424
PCB_134_143	-.0000000013	-.0000000012	0.0000000011	0.0000000314	-.0000001077
PCB_135_151	0.0000005062	0.0000008025	0.0000000121	-.0000013181	-.0000105273
PCB_139_140	-.0000000251	-.0000000446	-.0000000053	0.0000002395	0.0000003455
PCB_147_149	0.0000012477	0.0000019267	-.0000000692	0.0000009407	-.0000197540
PCB_153_168	0.0000007902	0.0000011181	-.0000001639	0.0000049349	-.0000094653
PCB_156_157	-.0000002426	-.0000004237	-.0000000534	0.0000025181	0.0000047102
PCB_171_173	0.0000001395	0.0000002163	-.0000000056	0.0000000787	-.0000023066
PCB_18_30	-.0000000305	-.0000000314	0.0000000235	-.0000006908	-.0000041465
PCB_180_193	0.0000010977	0.0000016895	-.0000000573	0.0000004491	-.0000112248
PCB_183_185	0.0000004995	0.0000007855	-.0000000042	-.0000004082	-.0000086680
PCB_197_200	0.0000000436	0.0000000689	-.0000000001	-.0000000538	-.0000006852
PCB_198_199	0.0000002117	0.0000003327	-.0000000031	-.0000001735	-.0000031520
PCB_20_28	-.0000000439	-.0000000468	0.0000000407	-.0000012105	-.0000083859
PCB_21_33	0.0000000107	0.0000000190	0.0000000036	-.0000001097	-.0000012360
PCB_26_29	-.0000000819	-.0000001012	0.0000000387	-.0000012141	-.0000031102
PCB_40_41_71	-.0000001027	-.0000001125	0.0000000688	-.0000026703	-.0000014844
PCB_44_47_65	-.0000009225	-.0000013170	0.0000001929	-.0000063638	0.0000064938
PCB_45_51	-.0000001480	-.0000001910	0.0000000581	-.0000018062	-.0000030055
PCB_49_69	-.0000012001	-.0000016893	0.0000002811	-.0000100548	0.0000096705
PCB_50_53	-.0000002744	-.0000003594	0.0000000969	-.0000031849	-.0000021893
PCB_59_62_75	-.0000000570	-.0000000674	0.0000000303	-.0000011719	0.0000000446
PCB_61_70_74_76	-.0000001998	-.0000003198	-.0000000029	0.0000012926	-.0000008953
PCB_85_117_116	-.0000001187	-.0000002139	-.0000000311	0.0000010839	0.0000057158
PCB_86_87_97_108_119_125	-.0000007764	-.0000012766	-.0000000820	0.0000037475	0.0000268605
PCB_88_91	-.0000000776	-.0000001059	0.0000000279	-.0000011435	-.0000007697
PCB_90_101_113	-.0000007611	-.0000012472	-.0000000772	0.0000033407	0.0000216246
PCB_93_98_100_102	-.0000000658	-.0000000982	0.0000000088	-.0000002706	0.0000007103

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_128_166	PCB_129_138_163	PCB_134_143	PCB_135_151	PCB_139_140
PCB_205	-.0000000021	0.0000002086	-.0000000014	0.0000001636	-.0000000044
PCB_206	-.0000000277	0.0000014806	-.0000000055	0.0000012767	-.0000000553
PCB_207	-.0000000014	0.0000001852	-.0000000006	0.0000001539	-.0000000065
PCB_208	-.0000000329	0.0000004601	-.0000000013	0.0000005062	-.0000000251
PCB_209	-.0000000911	0.0000005156	-.0000000012	0.0000008025	-.0000000446
PCB_12_13	-.0000000553	-.0000002844	0.0000000011	0.0000000121	-.0000000053
PCB_107_124	0.0000023949	0.0000106672	0.0000000314	-.0000013181	0.0000002395
PCB_110_115	0.0000043273	0.0000027424	-.0000001077	-.0000105273	0.0000003455
PCB_128_166	0.0000123055	0.0000563525	0.0000000442	-.0000048099	0.0000011184
PCB_129_138_163	0.0000563525	0.0002958051	-.0000002825	-.0000052059	0.0000054547
PCB_134_143	0.0000000442	-.0000002825	0.0000000659	-.0000000220	-.0000000091
PCB_135_151	-.0000048099	-.0000052059	-.0000000220	0.0000130961	-.0000004593
PCB_139_140	0.0000011184	0.0000054547	-.0000000091	-.0000004593	0.0000001561
PCB_147_149	0.0000103387	0.0000827236	-.0000004568	0.0000177167	0.0000003804
PCB_153_168	0.0000298676	0.0001767370	-.0000007866	0.0000086309	0.0000029636
PCB_156_157	0.0000115243	0.0000527767	0.0000000014	-.0000069045	0.0000013045
PCB_171_173	0.0000010646	0.0000081224	-.0000000121	0.0000020526	0.0000000340
PCB_18_30	-.0000041166	-.0000195307	0.0000000679	0.0000007085	-.0000003566
PCB_180_193	0.0000079290	0.0000653704	-.0000002557	0.0000183273	0.0000003717
PCB_183_185	0.0000002950	0.0000124133	-.0000000399	0.0000086130	-.0000002021
PCB_197_200	-.0000000700	0.0000006086	-.0000000043	0.0000007621	-.0000000296
PCB_198_199	0.0000001174	0.0000053505	-.0000000368	0.0000035715	-.0000000964
PCB_20_28	-.0000069110	-.0000309380	0.0000000967	0.0000028666	-.0000004165
PCB_21_33	-.0000005865	-.0000021501	0.0000000102	0.0000005066	-.0000000408
PCB_26_29	-.0000067079	-.0000353422	0.0000000682	-.0000000026	-.0000006372
PCB_40_41_71	-.0000138079	-.0000710643	-.0000000480	0.0000016013	-.0000012964
PCB_44_47_65	-.0000371379	-.0002076132	0.0000003378	-.0000063086	-.0000031594
PCB_45_51	-.0000100287	-.0000551769	0.0000001115	-.0000007700	-.0000009519
PCB_49_69	-.0000566459	-.0003061796	0.0000001396	-.0000058171	-.0000050067
PCB_50_53	-.0000178002	-.0000965551	0.0000001946	-.0000014155	-.0000017637
PCB_59_62_75	-.0000062676	-.0000318732	0.0000000411	0.0000007341	-.0000006165
PCB_61_70_74_76	0.0000046498	0.0000143169	0.0000006261	-.0000044588	0.0000004878
PCB_85_117_116	0.0000051431	0.0000248053	-.0000000786	-.0000019198	0.0000007232
PCB_86_87_97_108_119_125	0.0000158452	0.0000538739	-.0000000680	-.0000202258	0.0000016900
PCB_88_91	-.0000062718	-.0000294428	-.0000000216	0.0000017434	-.0000004294
PCB_90_101_113	0.0000134144	0.0000510218	-.0000003028	-.0000187972	0.0000014698
PCB_93_98_100_102	-.0000017804	-.0000099382	0.0000000375	-.0000003426	-.0000001135

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_147_149	PCB_153_168	PCB_156_157	PCB_171_173	PCB_18_30
PCB_205	0.0000003856	0.0000003006	-.0000000592	0.0000000435	-.0000000133
PCB_206	0.0000032228	0.0000022083	-.0000005505	0.0000003591	-.0000000965
PCB_207	0.0000003892	0.0000002703	-.0000000657	0.0000000436	-.0000000130
PCB_208	0.0000012477	0.0000007902	-.0000002426	0.0000001395	-.0000000305
PCB_209	0.0000019267	0.0000011181	-.0000004237	0.0000002163	-.0000000314
PCB_12_13	-.0000000692	-.0000001639	-.0000000534	-.0000000056	0.0000000235
PCB_107_124	0.0000009407	0.0000049349	0.0000025181	0.0000000787	-.0000006908
PCB_110_115	-.0000197540	-.0000094653	0.0000047102	-.0000023066	-.0000041465
PCB_128_166	0.0000103387	0.0000298676	0.0000115243	0.0000010646	-.0000041166
PCB_129_138_163	0.0000827236	0.0001767370	0.0000527767	0.0000081224	-.0000195307
PCB_134_143	-.0000004568	-.0000007866	0.0000000014	-.0000000121	0.0000000679
PCB_135_151	0.0000177167	0.0000086309	-.0000069045	0.0000020526	0.0000007085
PCB_139_140	0.0000003804	0.0000029636	0.0000013045	0.0000000340	-.0000003566
PCB_147_149	0.0000656728	0.0000709172	0.0000031541	0.0000067646	-.0000052310
PCB_153_168	0.0000709172	0.0001232047	0.0000252641	0.0000071744	-.0000118482
PCB_156_157	0.0000031541	0.0000252641	0.0000130363	0.0000001224	-.0000033033
PCB_171_173	0.0000067646	0.0000071744	0.0000001224	0.0000007605	-.0000005485
PCB_18_30	-.0000052310	-.0000118482	-.0000033033	-.0000005485	0.0000019957
PCB_180_193	0.0000543897	0.0000595089	0.0000005495	0.0000060322	-.0000054465
PCB_183_185	0.0000205913	0.0000165935	-.0000029250	0.0000023721	-.0000008537
PCB_197_200	0.0000017009	0.0000011528	-.0000003481	0.0000001933	-.0000000498
PCB_198_199	0.0000088939	0.0000070338	-.0000012220	0.0000009867	-.0000004167
PCB_20_28	-.0000080756	-.0000165896	-.0000055227	-.0000006821	0.0000031475
PCB_21_33	-.0000000487	-.0000008811	-.0000005203	0.0000000102	0.0000002898
PCB_26_29	-.0000109522	-.0000216299	-.0000059039	-.0000010793	0.0000028610
PCB_40_41_71	-.0000190569	-.0000408489	-.0000128850	-.0000018942	0.0000047153
PCB_44_47_65	-.0000793514	-.0001356072	-.0000304132	-.0000081229	0.0000139565
PCB_45_51	-.0000178716	-.0000345518	-.0000089036	-.0000017420	0.0000041109
PCB_49_69	-.0001102227	-.0001936982	-.0000474838	-.0000115255	0.0000206501
PCB_50_53	-.0000319295	-.0000613169	-.0000156745	-.0000032534	0.0000071448
PCB_59_62_75	-.0000092742	-.0000191810	-.0000057371	-.0000009489	0.0000022249
PCB_61_70_74_76	-.0000072683	-.0000005167	0.0000054536	-.0000004469	-.0000000946
PCB_85_117_116	0.0000018065	0.0000132740	0.0000058564	0.0000001178	-.0000022396
PCB_86_87_97_108_119_125	-.0000156561	0.0000125378	0.0000192848	-.0000022428	-.0000053665
PCB_88_91	-.0000087235	-.0000164494	-.0000051656	-.0000008882	0.0000020993
PCB_90_101_113	-.0000137753	0.0000133292	0.0000183212	-.0000024649	-.0000038159
PCB_93_98_100_102	-.0000045816	-.0000068858	-.0000012483	-.0000004684	0.0000006722

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_180_193	PCB_183_185	PCB_197_200	PCB_198_199	PCB_20_28
PCB_205	0.0000003518	0.0000001535	0.0000000131	0.0000000642	-.0000000075
PCB_206	0.0000028336	0.0000012689	0.0000001100	0.0000005373	-.0000001307
PCB_207	0.0000003450	0.0000001536	0.0000000133	0.0000000650	-.0000000175
PCB_208	0.0000010977	0.0000004995	0.0000000436	0.0000002117	-.0000000439
PCB_209	0.0000016895	0.0000007855	0.0000000689	0.0000003327	-.0000000468
PCB_12_13	-.0000000573	-.0000000042	-.0000000001	-.0000000031	0.0000000407
PCB_107_124	0.0000004491	-.0000004082	-.0000000538	-.0000001735	-.0000012105
PCB_110_115	-.0000112248	-.0000086680	-.0000006852	-.0000031520	-.0000083859
PCB_128_166	0.0000079290	0.0000002950	-.0000000700	0.0000001174	-.0000069110
PCB_129_138_163	0.0000653704	0.0000124133	0.0000006086	0.0000053505	-.0000309380
PCB_134_143	-.0000002557	-.0000000399	-.0000000043	-.0000000368	0.0000000967
PCB_135_151	0.0000183273	0.0000086130	0.0000007621	0.0000035715	0.0000028666
PCB_139_140	0.0000003717	-.0000002021	-.0000000296	-.0000000964	-.0000004165
PCB_147_149	0.0000543897	0.0000205913	0.0000017009	0.0000088939	-.0000080756
PCB_153_168	0.0000595089	0.0000165935	0.0000011528	0.0000070338	-.0000165896
PCB_156_157	0.0000005495	-.0000029250	-.0000003481	-.0000012220	-.0000055227
PCB_171_173	0.0000060322	0.0000023721	0.0000001933	0.0000009867	-.0000006821
PCB_18_30	-.0000054465	-.0000008537	-.0000000498	-.0000004167	0.0000031475
PCB_180_193	0.0000515908	0.0000191068	0.0000015787	0.0000081045	-.0000065248
PCB_183_185	0.0000191068	0.0000082800	0.0000007019	0.0000034393	-.0000005478
PCB_197_200	0.0000015787	0.0000007019	0.0000000609	0.0000002956	-.0000000305
PCB_198_199	0.0000081045	0.0000034393	0.0000002956	0.0000014590	-.0000004493
PCB_20_28	-.0000065248	-.0000005478	-.0000000305	-.0000004493	0.0000062824
PCB_21_33	-.0000000893	0.0000001865	0.0000000167	0.0000000558	0.0000005770
PCB_26_29	-.0000099198	-.0000019283	-.0000001219	-.0000009001	0.0000044656
PCB_40_41_71	-.0000151958	-.0000027268	-.0000001275	-.0000011843	0.0000076654
PCB_44_47_65	-.0000652142	-.0000180115	-.0000012514	-.0000076769	0.0000219657
PCB_45_51	-.0000155206	-.0000033252	-.0000002161	-.0000015092	0.0000064565
PCB_49_69	-.0000918837	-.0000243442	-.0000016247	-.0000102617	0.0000316441
PCB_50_53	-.0000282184	-.0000064058	-.0000004087	-.0000027892	0.0000104663
PCB_59_62_75	-.0000076100	-.0000015184	-.0000000774	-.0000006455	0.0000033414
PCB_61_70_74_76	-.0000062595	-.0000028162	-.0000003031	-.0000014798	-.0000000409
PCB_85_117_116	0.0000030021	-.0000010114	-.0000001275	-.0000003665	-.0000029044
PCB_86_87_97_108_119_125	-.0000161156	-.0000123987	-.0000011285	-.0000047957	-.0000111019
PCB_88_91	-.0000062504	-.0000013438	-.0000000743	-.0000005944	0.0000039757
PCB_90_101_113	-.0000190031	-.0000126918	-.0000011318	-.0000048233	-.0000097036
PCB_93_98_100_102	-.0000035377	-.0000011368	-.0000000843	-.0000004857	0.0000011668

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_21_33	PCB_26_29	PCB_40_41_71	PCB_44_47_65	PCB_45_51
PCB_205	0.0000000038	-.0000000332	-.0000000445	-.0000003207	-.0000000585
PCB_206	0.0000000258	-.0000002434	-.0000003309	-.0000025418	-.0000004321
PCB_207	0.0000000029	-.0000000306	-.0000000416	-.0000003120	-.0000000539
PCB_208	0.0000000107	-.0000000819	-.0000001027	-.0000009225	-.0000001480
PCB_209	0.0000000190	-.0000001012	-.0000001125	-.0000013170	-.0000001910
PCB_12_13	0.0000000036	0.0000000387	0.0000000688	0.0000001929	0.0000000581
PCB_107_124	-.0000001097	-.0000012141	-.0000026703	-.0000063638	-.0000018062
PCB_110_115	-.0000012360	-.0000031102	-.0000014844	0.0000064938	-.0000030055
PCB_128_166	-.0000005865	-.0000067079	-.0000138079	-.0000371379	-.0000100287
PCB_129_138_163	-.0000021501	-.0000353422	-.0000710643	-.0002076132	-.0000551769
PCB_134_143	0.0000000102	0.0000000682	-.0000000480	0.0000003378	0.0000001115
PCB_135_151	0.0000005066	-.0000000026	0.0000016013	-.0000063086	-.0000007700
PCB_139_140	-.0000000408	-.0000006372	-.0000012964	-.0000031594	-.0000009519
PCB_147_149	-.0000000487	-.0000109522	-.0000190569	-.0000793514	-.0000178716
PCB_153_168	-.0000008811	-.0000216299	-.0000408489	-.0001356072	-.0000345518
PCB_156_157	-.0000005203	-.0000059039	-.0000128850	-.0000304132	-.0000089036
PCB_171_173	0.0000000102	-.0000010793	-.0000018942	-.0000081229	-.0000017420
PCB_18_30	0.0000002898	0.0000028610	0.0000047153	0.0000139565	0.0000041109
PCB_180_193	-.0000000893	-.0000099198	-.0000151958	-.0000652142	-.0000155206
PCB_183_185	0.0000001865	-.0000019283	-.0000027268	-.0000180115	-.0000033252
PCB_197_200	0.0000000167	-.0000001219	-.0000001275	-.0000012514	-.0000002161
PCB_198_199	0.0000000558	-.0000009001	-.0000011843	-.0000076769	-.0000015092
PCB_20_28	0.0000005770	0.0000044656	0.0000076654	0.0000219657	0.0000064565
PCB_21_33	0.0000000640	0.0000003549	0.0000005475	0.0000012673	0.0000004645
PCB_26_29	0.0000003549	0.0000048280	0.0000085884	0.0000251822	0.0000071721
PCB_40_41_71	0.0000005475	0.0000085884	0.0000173693	0.0000493230	0.0000132512
PCB_44_47_65	0.0000012673	0.0000251822	0.0000493230	0.0001584509	0.0000401312
PCB_45_51	0.0000004645	0.0000071721	0.0000132512	0.0000401312	0.0000111058
PCB_49_69	0.0000019285	0.0000375813	0.0000737558	0.0002276067	0.0000581907
PCB_50_53	0.0000007421	0.0000125397	0.0000231489	0.0000698942	0.0000190083
PCB_59_62_75	0.0000002456	0.0000039566	0.0000076922	0.0000221591	0.0000058778
PCB_61_70_74_76	-.0000000213	-.0000007102	-.0000044522	-.0000046038	-.0000010473
PCB_85_117_116	-.0000003276	-.0000036432	-.0000060694	-.0000140022	-.0000050042
PCB_86_87_97_108_119_125	-.0000014240	-.0000074658	-.0000141035	-.0000197172	-.0000091432
PCB_88_91	0.0000002944	0.0000034712	0.0000072264	0.0000212214	0.0000052877
PCB_90_101_113	-.0000011702	-.0000059142	-.0000126871	-.0000194871	-.0000084039
PCB_93_98_100_102	0.0000000606	0.0000011554	0.0000023040	0.0000081200	0.0000018944

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_49_69	PCB_50_53	PCB_59_62_75	PCB_61_70_74_76	PCB_85_117_116
PCB_205	-.0000004265	-.0000001117	-.0000000254	-.0000000609	-.0000000212
PCB_206	-.0000033411	-.0000008001	-.0000001789	-.0000004981	-.0000002644
PCB_207	-.0000004106	-.0000000994	-.0000000223	-.0000000596	-.0000000308
PCB_208	-.0000012001	-.0000002744	-.0000000570	-.0000001998	-.0000001187
PCB_209	-.0000016893	-.0000003594	-.0000000674	-.0000003198	-.0000002139
PCB_12_13	0.0000002811	0.0000000969	0.0000000303	-.0000000029	-.0000000311
PCB_107_124	-.0000100548	-.0000031849	-.0000011719	0.0000012926	0.0000010839
PCB_110_115	0.0000096705	-.0000021893	0.0000000446	-.0000008953	0.0000057158
PCB_128_166	-.0000566459	-.0000178002	-.0000062676	0.0000046498	0.0000051431
PCB_129_138_163	-.0003061796	-.0000965551	-.0000318732	0.0000143169	0.0000248053
PCB_134_143	0.0000001396	0.0000001946	0.0000000411	0.0000006261	-.0000000786
PCB_135_151	-.0000058171	-.0000014155	0.0000007341	-.0000044588	-.0000019198
PCB_139_140	-.0000050067	-.0000017637	-.0000006165	0.0000004878	0.0000007232
PCB_147_149	-.0001102227	-.0000319295	-.0000092742	-.0000072683	0.0000018065
PCB_153_168	-.0001936982	-.0000613169	-.0000191810	-.0000005167	0.0000132740
PCB_156_157	-.0000474838	-.0000156745	-.0000057371	0.0000054536	0.0000058564
PCB_171_173	-.0000115255	-.0000032534	-.0000009489	-.0000004469	0.0000001178
PCB_18_30	0.0000206501	0.0000071448	0.0000022249	-.0000000946	-.0000022396
PCB_180_193	-.0000918837	-.0000282184	-.0000076100	-.0000062595	0.0000030021
PCB_183_185	-.0000243442	-.0000064058	-.0000015184	-.0000028162	-.0000010114
PCB_197_200	-.0000016247	-.0000004087	-.0000000774	-.0000003031	-.0000001275
PCB_198_199	-.0000102617	-.0000027892	-.0000006455	-.0000014798	-.0000003665
PCB_20_28	0.0000316441	0.0000104663	0.0000033414	-.0000000409	-.0000029044
PCB_21_33	0.0000019285	0.0000007421	0.0000002456	-.0000000213	-.0000003276
PCB_26_29	0.0000375813	0.0000125397	0.0000039566	-.0000007102	-.0000036432
PCB_40_41_71	0.0000737558	0.0000231489	0.0000076922	-.0000044522	-.0000060694
PCB_44_47_65	0.0002276067	0.0000698942	0.0000221591	-.0000046038	-.0000140022
PCB_45_51	0.0000581907	0.0000190083	0.0000058778	-.0000010473	-.0000050042
PCB_49_69	0.0003369960	0.0001039643	0.0000339819	-.0000118210	-.0000230335
PCB_50_53	0.0001039643	0.0000338659	0.0000108243	-.0000023409	-.0000090984
PCB_59_62_75	0.0000339819	0.0000108243	0.0000037109	-.0000015148	-.0000029685
PCB_61_70_74_76	-.0000118210	-.0000023409	-.0000015148	0.0000090740	0.0000012144
PCB_85_117_116	-.0000230335	-.0000090984	-.0000029685	0.0000012144	0.0000043407
PCB_86_87_97_108_119_125	-.0000377850	-.0000156388	-.0000065115	0.0000070174	0.0000102548
PCB_88_91	0.0000315092	0.0000092614	0.0000032533	-.0000018187	-.0000018488
PCB_90_101_113	-.0000305086	-.0000123827	-.0000050786	0.0000046003	0.0000078417
PCB_93_98_100_102	0.0000112814	0.0000032812	0.0000010505	0.0000000580	-.0000003983

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Covariance Matrix

	PCB_86_87_97_108_119_125	PCB_88_91	PCB_90_101_113	PCB_93_98_100_102
PCB_205	-.0000002367	-.0000000217	-.0000002341	-.0000000206
PCB_206	-.0000019102	-.0000002188	-.0000018689	-.0000001753
PCB_207	-.0000002287	-.0000000272	-.0000002258	-.0000000214
PCB_208	-.0000007764	-.0000000776	-.0000007611	-.0000000658
PCB_209	-.0000012766	-.0000001059	-.0000012472	-.0000000982
PCB_12_13	-.0000000820	0.0000000279	-.0000000772	0.0000000088
PCB_107_124	0.0000037475	-.0000011435	0.0000033407	-.0000002706
PCB_110_115	0.0000268605	-.0000007697	0.0000216246	0.0000007103
PCB_128_166	0.0000158452	-.0000062718	0.0000134144	-.0000017804
PCB_129_138_163	0.0000538739	-.0000294428	0.0000510218	-.0000099382
PCB_134_143	-.0000000680	-.0000000216	-.0000003028	0.0000000375
PCB_135_151	-.0000202258	0.0000017434	-.0000187972	-.0000003426
PCB_139_140	0.0000016900	-.0000004294	0.0000014698	-.0000001135
PCB_147_149	-.0000156561	-.0000087235	-.0000137753	-.0000045816
PCB_153_168	0.0000125378	-.0000164494	0.0000133292	-.0000068858
PCB_156_157	0.0000192848	-.0000051656	0.0000183212	-.0000012483
PCB_171_173	-.0000022428	-.0000008882	-.0000024649	-.0000004684
PCB_18_30	-.0000053665	0.0000020993	-.0000038159	0.0000006722
PCB_180_193	-.0000161156	-.0000062504	-.0000190031	-.0000035377
PCB_183_185	-.0000123987	-.0000013438	-.0000126918	-.0000011368
PCB_197_200	-.0000011285	-.0000000743	-.0000011318	-.0000000843
PCB_198_199	-.0000047957	-.0000005944	-.0000048233	-.0000004857
PCB_20_28	-.0000111019	0.0000039757	-.0000097036	0.0000011668
PCB_21_33	-.0000014240	0.0000002944	-.0000011702	0.0000000606
PCB_26_29	-.0000074658	0.0000034712	-.0000059142	0.0000011554
PCB_40_41_71	-.0000141035	0.0000072264	-.0000126871	0.0000023040
PCB_44_47_65	-.0000197172	0.0000212214	-.0000194871	0.0000081200
PCB_45_51	-.0000091432	0.0000052877	-.0000084039	0.0000018944
PCB_49_69	-.0000377850	0.0000315092	-.0000305086	0.0000112814
PCB_50_53	-.0000156388	0.0000092614	-.0000123827	0.0000032812
PCB_59_62_75	-.0000065115	0.0000032533	-.0000050786	0.0000010505
PCB_61_70_74_76	0.0000070174	-.0000018187	0.0000046003	0.0000000580
PCB_85_117_116	0.0000102548	-.0000018488	0.0000078417	-.0000003983
PCB_86_87_97_108_119_125	0.0000473747	-.0000064187	0.0000412966	-.0000004292
PCB_88_91	-.0000064187	0.0000036701	-.0000056092	0.0000011462
PCB_90_101_113	0.0000412966	-.0000056092	0.0000430728	-.0000006319
PCB_93_98_100_102	-.0000004292	0.0000011462	-.0000006319	0.0000004704

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Total Variance 0.0021477182

Eigenvalues of the Covariance Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	0.00138181	0.00080938	0.6434	0.6434
2	0.00057244	0.00049865	0.2665	0.9099
3	0.00007379	0.00002988	0.0344	0.9443
4	0.00004391	0.00000646	0.0204	0.9647
5	0.00003745		0.0174	0.9822

Eigenvectors

		Prin1	Prin2
PCB_1	PCB 1	0.000253	0.000412
PCB_2	PCB 2	0.000039	-.000266
PCB_3	PCB 3	0.000051	-.000241
PCB_4	PCB 4	-.010076	0.011065
PCB_5	PCB 5	0.000069	-.000218
PCB_6	PCB 6	-.001244	0.000766
PCB_7	PCB 7	-.000096	0.000101
PCB_8	PCB 8	0.001455	0.004103
PCB_9	PCB 9	-.000210	0.000236
PCB_10	PCB 10	-.001322	0.001190
PCB_11	PCB 11	-.000275	-.006309

Eigenvectors

	Prin3	Prin4	Prin5
PCB_1	-.000356	0.005303	-.001855
PCB_2	0.000058	-.000269	0.000082
PCB_3	0.000047	-.000108	0.000010
PCB_4	-.044337	0.080998	-.028751
PCB_5	-.000019	0.000091	-.000088
PCB_6	-.007884	0.012123	-.002634
PCB_7	-.000959	0.001529	-.000560
PCB_8	-.015687	0.031037	-.015195
PCB_9	-.002109	0.002785	-.000443
PCB_10	-.005001	0.008490	-.003018
PCB_11	-.001710	-.005315	0.003898

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_14	PCB 14	-.000436	-.000146
PCB_15	PCB 15	-.000071	-.000385
PCB_16	PCB 16	-.005938	-.002949
PCB_17	PCB 17	-.055974	0.029559
PCB_19	PCB 19	-.023999	0.018315
PCB_22	PCB 22	-.006391	-.007160
PCB_23	PCB 23	-.000045	-.000250
PCB_24	PCB 24	0.000039	-.000267
PCB_25	PCB 25	-.011800	0.002243
PCB_27	PCB 27	-.083442	0.043336
PCB_31	PCB 31	-.018908	-.011337
PCB_32	PCB 32	-.042350	0.008182
PCB_34	PCB 34	-.000782	0.000334
PCB_35	PCB 35	0.000048	-.000239
PCB_37	PCB 37	-.000540	-.002435
PCB_38	PCB 38	-.000240	-.000094
PCB_39	PCB 39	-.000013	-.000179
PCB_42	PCB 42	-.059729	-.006633
PCB_43	PCB 43	-.004960	-.000822
PCB_46	PCB 46	-.026315	-.000560
PCB_48	PCB 48	-.005024	-.008812
PCB_52	PCB 52	-.233125	0.032353
PCB_54	PCB 54	-.004350	0.002749
PCB_55	PCB 55	0.000039	-.000267
PCB_56	PCB 56	-.001339	-.012910
PCB_57	PCB 57	-.003582	0.002213
PCB_58	PCB 58	-.002591	0.000384
PCB_60	PCB 60	0.000400	-.012316
PCB_63	PCB 63	-.004709	0.001876
PCB_64	PCB 64	-.064065	-.030384
PCB_66	PCB 66	-.061841	0.017895
PCB_67	PCB 67	-.002529	-.000036
PCB_68	PCB 68	-.013799	0.009226
PCB_72	PCB 72	-.021888	0.007296
PCB_77	PCB 77	-.001188	-.006134
PCB_78	PCB 78	0.000189	-.003365
PCB_79	PCB 79	0.002190	-.005773
PCB_81	PCB 81	0.000314	-.001799
PCB_82	PCB 82	0.028043	0.022378
PCB_83	PCB 83	-.019569	0.011159
PCB_84	PCB 84	-.031725	0.016985
PCB_89	PCB 89	0.000664	-.003094

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_14	0.002258	0.000286	0.000563
PCB_15	-.001455	0.002705	-.002434
PCB_16	-.019543	0.020745	-.009516
PCB_17	-.118839	0.074088	0.023617
PCB_19	-.084815	0.064629	0.012251
PCB_22	-.024133	0.035788	-.007885
PCB_23	-.000192	-.000058	-.000054
PCB_24	0.000061	-.000285	0.000090
PCB_25	-.016331	0.016530	-.002599
PCB_27	-.110685	0.028259	0.017869
PCB_31	-.067020	0.059188	-.009914
PCB_32	-.096297	0.072496	0.017291
PCB_34	-.001380	0.001175	0.000750
PCB_35	-.000034	-.000254	0.000494
PCB_37	-.002344	0.007740	-.004883
PCB_38	0.000470	-.000440	0.000578
PCB_39	-.000150	0.000307	0.000095
PCB_42	-.010795	0.046670	-.014029
PCB_43	0.020226	0.015301	0.023584
PCB_46	-.026601	-.015885	-.004743
PCB_48	-.013635	0.004988	-.008317
PCB_52	-.276187	-.347775	-.470399
PCB_54	-.008860	-.000913	0.001849
PCB_55	0.000061	-.000285	0.000090
PCB_56	-.016843	0.020967	0.012808
PCB_57	0.008264	0.004373	0.002217
PCB_58	0.000107	0.001862	0.001661
PCB_60	-.008662	0.017719	0.000304
PCB_63	0.001834	0.016756	0.005249
PCB_64	-.043621	0.087140	-.025682
PCB_66	0.046506	0.286917	0.127486
PCB_67	-.001585	0.003732	0.002188
PCB_68	0.016802	0.017277	0.015722
PCB_72	0.015085	0.013685	0.013179
PCB_77	-.000708	0.001904	-.000175
PCB_78	-.005988	0.003819	-.006678
PCB_79	0.003458	0.014737	0.001063
PCB_81	0.000864	-.001487	0.001807
PCB_82	-.015349	-.005477	-.016530
PCB_83	-.001747	0.016729	-.007607
PCB_84	-.027760	-.100064	-.030960
PCB_89	0.000211	-.002799	0.000385

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_92	PCB 92	-.057002	0.020609
PCB_94	PCB 94	-.005532	0.004361
PCB_95	PCB 95	-.154064	-.063399
PCB_96	PCB 96	-.006581	0.000822
PCB_99	PCB 99	0.003718	0.171757
PCB_103	PCB 103	-.009772	0.002883
PCB_104	PCB 104	-.000270	0.000102
PCB_105	PCB 105	0.140563	0.164001
PCB_109	PCB 109	0.008449	0.027764
PCB_111	PCB 111	-.000874	0.000395
PCB_114	PCB 114	0.011654	0.013483
PCB_118	PCB 118	0.328791	0.571463
PCB_120	PCB 120	-.003290	0.000444
PCB_121	PCB 121	-.000407	0.000110
PCB_122	PCB 122	0.003058	0.002571
PCB_123	PCB 123	0.010885	0.013445
PCB_126	PCB 126	0.002873	-.003116
PCB_127	PCB 127	0.000994	0.001005
PCB_130	PCB 130	0.023316	0.013981
PCB_131	PCB 131	0.007304	0.003603
PCB_132	PCB 132	0.036205	-.095328
PCB_133	PCB 133	0.000084	-.001755
PCB_136	PCB 136	-.010976	-.012128
PCB_137	PCB 137	0.030891	0.023456
PCB_141	PCB 141	0.060243	-.024958
PCB_142	PCB 142	0.000039	-.000267
PCB_144	PCB 144	0.019595	-.015070
PCB_145	PCB 145	0.000062	0.000007
PCB_146	PCB 146	0.034141	-.048206
PCB_148	PCB 148	-.000174	-.000017
PCB_150	PCB 150	-.000241	0.000130
PCB_152	PCB 152	-.000191	0.000182
PCB_154	PCB 154	-.000224	0.000168
PCB_155	PCB 155	0.000028	-.000235
PCB_158	PCB 158	0.051806	0.022668
PCB_159	PCB 159	0.001064	-.005299
PCB_161	PCB 161	0.000039	-.000267
PCB_162	PCB 1611	0.002601	-.004004
PCB_164	PCB 164	0.031484	-.008538
PCB_165	PCB 165	-.000290	0.000042
PCB_167	PCB 167	0.026349	0.013290
PCB_169	PCB 169	0.000013	-.000306

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_92	0.023877	0.116604	-.064550
PCB_94	-.001882	0.004944	0.003969
PCB_95	0.102125	-.564836	0.125567
PCB_96	-.000388	-.004189	-.001482
PCB_99	0.551021	0.092819	-.238492
PCB_103	0.005263	0.008178	0.004959
PCB_104	0.000087	-.000245	0.000484
PCB_105	-.104669	0.023000	-.017248
PCB_109	0.065897	0.065934	0.014374
PCB_111	0.002918	0.001645	0.000621
PCB_114	-.010232	0.011421	-.009811
PCB_118	-.205132	-.241598	0.339206
PCB_120	0.008594	0.006530	0.001951
PCB_121	0.001044	0.000516	0.000259
PCB_122	-.002580	-.004620	0.001611
PCB_123	-.037592	0.053423	-.011727
PCB_126	0.005351	-.014015	-.003131
PCB_127	-.000569	0.000323	0.001290
PCB_130	-.020170	0.000551	-.005836
PCB_131	-.003533	0.003728	0.002907
PCB_132	0.012156	-.059659	0.334186
PCB_133	0.007800	0.008660	0.006981
PCB_136	0.020521	0.029291	0.029457
PCB_137	-.013043	0.060235	-.023937
PCB_141	-.032493	-.016781	0.028267
PCB_142	0.000061	-.000285	0.000090
PCB_144	0.027179	0.039687	0.024059
PCB_145	0.000163	0.000149	0.000204
PCB_146	0.024997	0.073876	0.060889
PCB_148	0.000970	0.001370	0.000519
PCB_150	0.001143	0.001179	0.000531
PCB_152	0.000464	0.000326	0.000717
PCB_154	0.004135	0.009648	0.002185
PCB_155	0.000114	-.000218	0.000112
PCB_158	-.016196	0.033015	0.013694
PCB_159	-.000777	-.000185	-.001098
PCB_161	0.000061	-.000285	0.000090
PCB_162	-.004317	-.004081	-.007589
PCB_164	-.011530	-.013650	0.020115
PCB_165	0.001617	-.000569	0.000459
PCB_167	-.003881	-.003437	-.023871
PCB_169	0.000042	-.000150	0.000276

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_170	PCB 170	0.053692	-.054245
PCB_172	PCB 172	0.011475	-.021810
PCB_174	PCB 174	0.020899	-.115012
PCB_175	PCB 175	0.001453	-.005904
PCB_176	PCB 176	0.002592	-.017417
PCB_177	PCB 177	0.016016	-.081924
PCB_178	PCB 178	0.004193	-.042917
PCB_179	PCB 179	0.004041	-.059566
PCB_181	PCB 181	0.001251	0.000206
PCB_182	PCB 182	0.000447	0.000102
PCB_184	PCB 184	0.000045	-.000175
PCB_186	PCB 186	0.000043	-.000223
PCB_187	PCB 187	0.059868	-.452601
PCB_188	PCB 188	0.000049	-.000242
PCB_189	PCB 189	0.002149	-.001123
PCB_190	PCB 190	0.006770	-.011340
PCB_191	PCB 191	0.002944	-.003511
PCB_192	PCB 192	-.029859	0.003485
PCB_194	PCB 194	0.005899	-.018513
PCB_195	PCB 195	0.003040	-.013646
PCB_196	PCB 196	0.004384	-.020288
PCB_201	PCB 201	0.001141	-.010323
PCB_202	PCB 202	0.001833	-.014148
PCB_203	PCB 203	0.007938	-.039916
PCB_204	PCB 204	0.000038	-.000262
PCB_205	PCB 205	0.000358	-.002136
PCB_206	PCB 206	0.002584	-.017556
PCB_207	PCB 207	0.000324	-.002115
PCB_208	PCB 208	0.000828	-.006969
PCB_209	PCB 209	0.000978	-.011073
PCB_12_13	PCB 12/13	-.000444	-.000111
PCB_107_124	PCB 107/124	0.016521	0.013839
PCB_110_115	PCB 110/115	0.008636	0.142098
PCB_128_166	PCB 128/166	0.089284	0.040684
PCB_129_138_163	PCB 129/138/163	0.459794	0.004099
PCB_134_143	PCB 134/143	-.000519	0.000962
PCB_135_151	PCB 135/151	-.008662	-.142831
PCB_139_140	PCB 139/140	0.008478	0.006312
PCB_147_149	PCB 147/149	0.131433	-.256263
PCB_153_168	PCB 153/168	0.277049	-.141151
PCB_156_157	PCB 156/157	0.080895	0.077119
PCB_171_173	PCB 171/173	0.013326	-.028892

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_170	0.003367	-.049696	0.002918
PCB_172	0.011814	-.004355	0.012624
PCB_174	-.013476	-.096607	0.030904
PCB_175	-.000012	-.002889	0.002490
PCB_176	0.000653	-.006464	0.008459
PCB_177	-.004310	-.061119	0.019463
PCB_178	0.007390	-.028211	0.015854
PCB_179	0.004430	-.033759	0.028132
PCB_181	-.000003	-.000202	-.000855
PCB_182	-.000239	-.001764	-.000116
PCB_184	0.000057	-.000167	0.000012
PCB_186	0.000031	-.000254	0.000088
PCB_187	0.065909	-.174610	0.073243
PCB_188	0.000079	-.000239	0.000068
PCB_189	-.000252	0.000912	-.000961
PCB_190	0.005687	-.005947	-.004414
PCB_191	0.002814	0.000519	0.004055
PCB_192	-.108492	-.098595	-.107691
PCB_194	-.000572	-.008547	0.008465
PCB_195	0.000734	-.005293	0.005946
PCB_196	0.003958	-.008907	0.007292
PCB_201	0.000985	-.007511	0.003836
PCB_202	0.001920	-.012805	0.003883
PCB_203	0.007133	-.018895	0.008580
PCB_204	0.000040	-.000267	0.000081
PCB_205	0.000037	-.000831	0.000585
PCB_206	-.000431	-.019141	0.000818
PCB_207	0.000008	-.002347	0.000283
PCB_208	-.000169	-.008323	0.000365
PCB_209	-.000776	-.013876	0.000504
PCB_12_13	-.000821	0.000084	0.000480
PCB_107_124	-.012458	-.003764	-.004801
PCB_110_115	0.505648	-.188485	0.213514
PCB_128_166	-.026215	-.070366	0.043616
PCB_129_138_163	-.070598	0.080099	-.217628
PCB_134_143	-.014642	-.008101	0.013997
PCB_135_151	0.032913	0.134707	0.025443
PCB_139_140	-.001412	0.027397	0.004284
PCB_147_149	0.042694	-.172390	-.216239
PCB_153_168	0.050330	0.212315	-.104218
PCB_156_157	-.042097	0.071856	-.072868
PCB_171_173	-.005398	-.018472	0.014862

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

		Prin1	Prin2
PCB_18_30	PCB 18/30	-.032204	-.004252
PCB_180_193	PCB 180/193	0.108108	-.237245
PCB_183_185	PCB 183/185	0.021494	-.112910
PCB_197_200	PCB 197/200	0.001121	-.009918
PCB_198_199	PCB 198/199	0.009183	-.047189
PCB_20_28	PCB 20/28	-.050097	-.018653
PCB_21_33	PCB 21/33	-.003620	-.005088
PCB_26_29	PCB 26/29	-.056176	0.004334
PCB_40_41_71	PCB 40/41/71	-.110483	-.006231
PCB_44_47_65	PCB 44/47/65	-.324758	0.133715
PCB_45_51	PCB 45/51	-.086211	0.015852
PCB_49_69	PCB 49/69	-.482648	0.148843
PCB_50_53	PCB 50/53	-.152887	0.030385
PCB_59_62_75	PCB 59/62/75	-.050710	-.001137
PCB_61_70_74_76	PCB 61/70/74/76	0.020917	0.057316
PCB_85_117_116	PCB 85/117/116	0.039694	0.031302
PCB_86_87_97_108_119_125	PCB 86/87/97/108/119/125	0.085951	0.233393
PCB_88_91	PCB 88/91	-.046779	-.004784
PCB_90_101_113	PCB 90/101/113	0.074690	0.214098
PCB_93_98_100_102	PCB 93/98/100/102	-.015690	0.009813

Eigenvectors

	Prin3	Prin4	Prin5
PCB_18_30	-.072406	0.030910	-.056584
PCB_180_193	0.158054	-.045391	0.157505
PCB_183_185	-.004847	-.050516	0.063341
PCB_197_200	0.001623	-.006326	0.003503
PCB_198_199	0.012547	-.029402	0.008871
PCB_20_28	-.122119	0.182414	0.015828
PCB_21_33	-.016479	0.015532	-.003329
PCB_26_29	-.071772	-.000926	-.002560
PCB_40_41_71	0.021588	0.010794	0.042531
PCB_44_47_65	0.030479	0.110120	0.099787
PCB_45_51	-.075072	-.015005	0.030875
PCB_49_69	0.098382	0.106513	0.009468
PCB_50_53	-.093864	-.071420	-.015819
PCB_59_62_75	0.001841	-.010228	-.000936
PCB_61_70_74_76	-.222333	-.004366	0.132130
PCB_85_117_116	0.097304	0.121306	0.032686
PCB_86_87_97_108_119_125	0.212952	-.111321	-.116748

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

The PRINCOMP Procedure

Eigenvectors

	Prin3	Prin4	Prin5
PCB_88_91	0.025085	0.114803	0.007910
PCB_90_101_113	0.143912	-.071377	-.433119
PCB_93_98_100_102	0.006246	0.027721	0.008300

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------

Location	Prin1	Prin2	Prin3	PCB_1	PCB_2	PCB_3	PCB_4
1-P-2-Fillet	-0.10780	-0.012524	-0.008822	.000034198	.000014074	.000017963	.000409877
7-BG-2-Fillet	-0.00043	0.012273	0.056600	.000116250	.000036500	.000036500	.000596875
3-P-3-Fillet	0.00179	0.065265	-0.019330	.000112903	.000001010	.000013275	.001488834
4-P-3-Fillet	0.00846	-0.015285	-0.005568	.000129032	.000001331	.000012419	.002459677
5-BG-3-Fillet	0.01695	-0.008631	-0.002352	.000157724	.000003496	.000015935	.002325203
5-P-2-Fillet	0.01717	-0.010020	0.005118	.000153757	.000001861	.000013526	.003098266
2-P-3-Fillet	0.01747	-0.014788	-0.010269	.000323894	.000003354	.000033540	.003398230
6-BG-2-Fillet	0.04638	-0.016290	-0.015377	.000162516	.000007339	.000012949	.002896461

Location	PCB_5	PCB_6	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11
1-P-2-Fillet	.000014074	.000095679	.000026975	.000313580	.000028395	.000033457	.000623457
7-BG-2-Fillet	.000036500	.000344375	.000039625	.001337500	.000067500	.000037000	.000507500
3-P-3-Fillet	.000006725	.000158809	.000038462	.000776675	.000052605	.000161787	.000021266
4-P-3-Fillet	.000009839	.000327419	.000064839	.001169355	.000090323	.000253226	.000040323
5-BG-3-Fillet	.000006244	.000348780	.000048130	.000902439	.000073415	.000165041	.000040325
5-P-2-Fillet	.000011040	.000318497	.000061272	.000942197	.000083237	.000242197	.000034624
2-P-3-Fillet	.000008655	.000329204	.000073097	.001221239	.000099115	.000368142	.000054513
6-BG-2-Fillet	.000007339	.000256881	.000039056	.000727392	.000063434	.000205767	.000075754

Location	PCB_14	PCB_15	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
1-P-2-Fillet	.000014074	.000119136	.000305556	.000969136	.000271605	.001006173	.000014074
7-BG-2-Fillet	.000036500	.000388125	.000407500	.001368750	.000181875	.001925000	.000036500
3-P-3-Fillet	.000000548	.000189330	.000166253	.002310174	.000766749	.000791563	.000002804
4-P-3-Fillet	.000001331	.000195161	.000297581	.003903226	.001346774	.001451613	.000006927
5-BG-3-Fillet	.000003496	.000313821	.000558537	.003349593	.001455285	.001772358	.000007472
5-P-2-Fillet	.000010127	.000230636	.000393642	.004028902	.001838150	.001213873	.000005509
2-P-3-Fillet	.000001699	.000306195	.000359292	.004743363	.001734513	.001292035	.000004823
6-BG-2-Fillet	.000007339	.000211009	.000703801	.005439056	.002149410	.002110092	.000007339

Location	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32	PCB_34	PCB_35
1-P-2-Fillet	.000051975	.000938272	.000201852	.002623457	.001401235	.000014074	.000014074
7-BG-2-Fillet	.000036500	.002962500	.003218750	.005150000	.003081250	.000082500	.000036500
3-P-3-Fillet	.000000548	.001312655	.000928040	.002449132	.001990074	.000024541	.000000548
4-P-3-Fillet	.000001331	.003153226	.003000000	.004693548	.004024194	.000050968	.000001331
5-BG-3-Fillet	.000003496	.004170732	.005398374	.005902439	.005048780	.000076423	.000003496
5-P-2-Fillet	.000087283	.003028902	.002554913	.004242775	.003919075	.000047399	.000010127
2-P-3-Fillet	.000001699	.003053097	.002672566	.004371681	.004070796	.000056814	.000001699
6-BG-2-Fillet	.000266055	.003853211	.004901704	.004809961	.004901704	.000077720	.000007339

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------
(continued)

Location	PCB_37	PCB_38	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
1-P-2-Fillet	.000464815	.000014074	.000017346	.002981481	.000260494	.000182716	.000623457
7-BG-2-Fillet	.000656250	.000036500	.000036500	.002693750	.000502500	.000155625	.000570000
3-P-3-Fillet	.000406948	.000009975	.000016824	.003374690	.000000548	.000101489	.000439206
4-P-3-Fillet	.000459677	.000030565	.000023468	.005419355	.000001331	.000279839	.000370161
5-BG-3-Fillet	.000667480	.000034309	.000020569	.004682927	.000384553	.000387805	.000616260
5-P-2-Fillet	.000402890	.000017803	.000018092	.004994220	.000010127	.000371098	.000528902
2-P-3-Fillet	.000597345	.000025929	.000027168	.005336283	.000001699	.000260177	.000670796
6-BG-2-Fillet	.000454784	.000039581	.000030275	.004941022	.000356488	.000496723	.000684142

Location	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58	PCB_60
1-P-2-Fillet	0.025864	.000031790	.000087037	.002925926	.000108025	.000067901	.001740741
7-BG-2-Fillet	0.034750	.000036500	.000036500	.002075000	.000881250	.000308750	.001275000
3-P-3-Fillet	0.037469	.000137469	.000000548	.002421836	.000287841	.000114888	.001111663
4-P-3-Fillet	0.065161	.000241935	.000001331	.002830645	.000737097	.000329839	.001201613
5-BG-3-Fillet	0.054309	.000247154	.000003496	.002463415	.000845528	.000293496	.001016260
5-P-2-Fillet	0.064740	.000346821	.000104624	.002427746	.000664740	.000249133	.000959538
2-P-3-Fillet	0.069292	.000310619	.000001699	.002902655	.000873451	.000362832	.001097345
6-BG-2-Fillet	0.070773	.000338139	.000007339	.002634338	.000857143	.000321101	.001137615

Location	PCB_63	PCB_64	PCB_66	PCB_67	PCB_68	PCB_72	PCB_77
1-P-2-Fillet	.000395679	.005185185	0.010123	.000308025	.000187037	.000320988	.000753086
7-BG-2-Fillet	.001037500	.003125000	0.019938	.000968750	.001768750	.002462500	.000662500
3-P-3-Fillet	.000615385	.004813896	0.015186	.000444169	.000806452	.000868486	.000359801
4-P-3-Fillet	.000887097	.007241935	0.017984	.000862903	.001564516	.002169355	.000458065
5-BG-3-Fillet	.000902439	.006097561	0.018293	.000926829	.001674797	.002439024	.000547967
5-P-2-Fillet	.000734104	.006531792	0.015434	.000843931	.001427746	.002138728	.000406358
2-P-3-Fillet	.000799115	.007389381	0.016372	.001061947	.001371681	.002070796	.000499115
6-BG-2-Fillet	.000942333	.006199214	0.019004	.001132372	.001690695	.002450852	.000448231

Location	PCB_78	PCB_79	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
1-P-2-Fillet	.000014074	.000212963	.000053395	.003333333	.000895062	.005074074	.000175309
7-BG-2-Fillet	.000036500	.000456875	.000036500	.001662500	.001737500	.003200000	.000077500
3-P-3-Fillet	.000009901	.000563275	.000047643	.004168734	.001401985	.004243176	.000085856
4-P-3-Fillet	.000027742	.000352419	.000037742	.003266129	.001919355	.005798387	.000107258
5-BG-3-Fillet	.000003496	.000336585	.000023659	.002788618	.001504065	.005723577	.000101626
5-P-2-Fillet	.000010127	.000332370	.000027399	.003040462	.001005780	.005294798	.000093642
2-P-3-Fillet	.000035664	.000578761	.000041327	.004008850	.001300885	.006654867	.000123009
6-BG-2-Fillet	.000007339	.000952818	.000048755	.003813893	.001992136	.007640891	.000144168

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------
(continued)

Location	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104	PCB_105
1-P-2-Fillet	0.010864	.000074691	0.032160	.000118519	0.021975	.000404938	.000014074	0.009938
7-BG-2-Fillet	0.021563	.000290625	0.023125	.000057563	0.058625	.000718750	.000036500	0.020563
3-P-3-Fillet	0.017643	.000121588	0.033251	.000098759	0.046402	.000821340	.000025806	0.024194
4-P-3-Fillet	0.019677	.000239516	0.039597	.000159677	0.037903	.001169355	.000038548	0.013629
5-BG-3-Fillet	0.020325	.000309756	0.036829	.000187805	0.045691	.001146341	.000036585	0.013821
5-P-2-Fillet	0.018613	.000156069	0.036763	.000168208	0.043121	.001063584	.000029884	0.016647
2-P-3-Fillet	0.018850	.000168142	0.040973	.000200000	0.038053	.001115044	.000032920	0.013982
6-BG-2-Fillet	0.021756	.000301442	0.040236	.000273919	0.048755	.001305374	.000034862	0.014679

Location	PCB_109	PCB_111	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
1-P-2-Fillet	.002370370	.000033951	.000478395	0.027593	.000143210	.000014074	.000443210
7-BG-2-Fillet	.006168750	.000197500	.001137500	0.077500	.000693750	.000058875	.000693750
3-P-3-Fillet	.005756824	.000049876	.001516129	0.073449	.000227543	.000022184	.000709677
4-P-3-Fillet	.004282258	.000104032	.000783871	0.049274	.000425806	.000043226	.000488710
5-BG-3-Fillet	.004764228	.000148780	.000761789	0.054146	.000494309	.000045122	.000502439
5-P-2-Fillet	.005300578	.000121965	.000924855	0.060694	.000436416	.000040000	.000491329
2-P-3-Fillet	.004548673	.000069912	.000803540	0.050973	.000438053	.000036283	.000536283
6-BG-2-Fillet	.004246396	.000145478	.000752294	0.055046	.000501966	.000047969	.000504587

Location	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131	PCB_132	PCB_133
1-P-2-Fillet	.000648148	.000147531	.000082716	.004549383	.000561728	0.017840	.001327160
7-BG-2-Fillet	.001468750	.000070625	.000138750	.005606250	.000538125	0.013250	.001812500
3-P-3-Fillet	.001434243	.000292804	.000167246	.004962779	.000622829	0.016203	.001349876
4-P-3-Fillet	.001266129	.000191935	.000085484	.003870968	.000534677	0.014113	.001306452
5-BG-3-Fillet	.000926829	.000093496	.000086992	.003691057	.000457724	0.012358	.001268293
5-P-2-Fillet	.000809249	.000112139	.000108671	.003213873	.000354335	0.011561	.001121387
2-P-3-Fillet	.001008850	.000161947	.000092920	.003707965	.000508850	0.013894	.001212389
6-BG-2-Fillet	.000946265	.000084273	.000094364	.003211009	.000423329	0.010236	.001040629

Location	PCB_136	PCB_137	PCB_141	PCB_142	PCB_144	PCB_145	PCB_146
1-P-2-Fillet	.005913580	.003648148	0.014012	.000014074	.003148148	.000015802	0.018210
7-BG-2-Fillet	.002656250	.005918750	0.010625	.000036500	.002100000	.000036500	0.013688
3-P-3-Fillet	.004764268	.007220844	0.011191	.000000548	.002878412	.000015112	0.015906
4-P-3-Fillet	.004637097	.004838710	0.007411	.000001331	.002048387	.000017177	0.012661
5-BG-3-Fillet	.003861789	.003544715	0.006821	.000005130	.001780488	.000016911	0.010244
5-P-2-Fillet	.003034682	.004872832	0.007861	.000010127	.001612717	.000008382	0.000010
2-P-3-Fillet	.004115044	.005513274	0.008593	.000001699	.001734513	.000015221	0.012301
6-BG-2-Fillet	.004036697	.003774574	0.006160	.000007339	.001638270	.000014941	0.007693

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------
(continued)

Location	PCB_148	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158	PCB_159
1-P-2-Fillet	.000070370	.000054074	.000036296	.000672840	.000014074	0.007654	.000021605
7-BG-2-Fillet	.000108750	.000037938	.000041688	.001100000	.000036500	0.009188	.000036500
3-P-3-Fillet	.000085608	.000064020	.000041687	.000940447	.000002124	0.010422	.000030273
4-P-3-Fillet	.000088710	.000071129	.000046371	.000838710	.000004363	0.006952	.000012016
5-BG-3-Fillet	.000082927	.000057073	.000045935	.000837398	.000003496	0.006350	.000102439
5-P-2-Fillet	.000070520	.000047457	.000033642	.000699422	.000003353	0.007110	.000004549
2-P-3-Fillet	.000076637	.000062389	.000039823	.000753097	.000002646	0.006673	.000033186
6-BG-2-Fillet	.000069201	.000063696	.000054128	.000699869	.000007339	0.005754	.000007339

Location	PCB_161	PCB_162	PCB_164	PCB_165	PCB_167	PCB_169	PCB_170
1-P-2-Fillet	.000014074	.000274074	.007098765	.000040741	.002709877	.000055309	.008641975
7-BG-2-Fillet	.000036500	.000285000	.004143750	.000111250	.002968750	.000036500	.006500000
3-P-3-Fillet	.000000548	.000315136	.005707196	.000035484	.003449132	.000011390	.005856079
4-P-3-Fillet	.000001331	.000160484	.004112903	.000076371	.002008065	.000011210	.003233871
5-BG-3-Fillet	.000003496	.000299187	.003715447	.000087805	.002138211	.000014390	.004821138
5-P-2-Fillet	.008670520	.000169364	.003832370	.000010127	.002820809	.000009017	.006069364
2-P-3-Fillet	.000001699	.000137168	.003433628	.000069381	.002194690	.000010708	.003407080
6-BG-2-Fillet	.000007339	.000142857	.002857143	.000063041	.001821756	.000008532	.003355177

Location	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
1-P-2-Fillet	.002734568	0.016358	.000716049	.001462963	0.010000	.004641975	.006092593
7-BG-2-Fillet	.001081250	0.002988	.000270000	.000396875	0.003106	.001475000	.001281250
3-P-3-Fillet	.000947891	0.004938	.000255583	.000593052	0.003424	.001406948	.001853598
4-P-3-Fillet	.000616129	0.003919	.000194355	.000512903	0.002895	.001282258	.001677419
5-BG-3-Fillet	.000003496	0.002862	.000156098	.000363415	0.002439	.001081301	.001300813
5-P-2-Fillet	.000919075	0.003451	.000179191	.000297110	0.002434	.000953757	.001005780
2-P-3-Fillet	.000606195	0.002965	.000166372	.000349558	0.002115	.000964602	.001106195
6-BG-2-Fillet	.000484928	0.002241	.000138925	.000327654	0.001769	.000753604	.001011796

Location	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187	PCB_188	PCB_189
1-P-2-Fillet	.000148765	.000112346	.000017346	.000014074	0.085802	.000021173	.000423457
7-BG-2-Fillet	.000176875	.000058188	.000036500	.000036500	0.011063	.000036500	.000286875
3-P-3-Fillet	.000203226	.000000548	.000008536	.000002978	0.018337	.000008213	.000317618
4-P-3-Fillet	.000117742	.000001331	.000007677	.000002460	0.015242	.000007976	.000208871
5-BG-3-Fillet	.000135772	.000042846	.000007293	.000002211	0.011382	.000008943	.000193496
5-P-2-Fillet	.000182081	.000049711	.000007168	.000001728	0.011965	.000008382	.000231214
2-P-3-Fillet	.000125664	.000001699	.000006106	.000002239	0.011504	.000006956	.000184956
6-BG-2-Fillet	.000110223	.000035518	.000007339	.000007339	0.004862	.000007339	.000130537

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=Pumpkinseed&BlueGill ----------
(continued)

Location	PCB_190	PCB_191	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
1-P-2-Fillet	.000981481	.000532716	.000014074	.002407407	.001376543	.001722222	.001037037
7-BG-2-Fillet	.000768750	.000227500	.000036500	.001131250	.000551250	.000731250	.000231875
3-P-3-Fillet	.000449132	.000258065	.000000548	.000704715	.000397022	.000389578	.000142184
4-P-3-Fillet	.000234677	.000150806	.000001331	.000490323	.000275806	.000280645	.000149194
5-BG-3-Fillet	.000478049	.000178049	.000003496	.000647154	.000342276	.000381301	.000104065
5-P-2-Fillet	.000496532	.000226012	.000010127	.000641618	.000381503	.000360116	.000109249
2-P-3-Fillet	.000306195	.000155752	.000001699	.000474336	.000274336	.000282301	.000111504
6-BG-2-Fillet	.000377457	.000126868	.000007339	.000349934	.000230668	.000238532	.000082045

Location	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207	PCB_208
1-P-2-Fillet	.001376543	.003172840	.000014074	.000241358	.001944444	.000228395	.000660494
7-BG-2-Fillet	.000335625	.001187500	.000036500	.000059500	.000456250	.000071250	.000154375
3-P-3-Fillet	.000180893	.000652605	.000000725	.000057568	.000226303	.000029529	.000049876
4-P-3-Fillet	.000189516	.000530645	.000001331	.000047097	.000226613	.000038065	.000068871
5-BG-3-Fillet	.000183740	.000701626	.000003496	.000039106	.000229268	.000032033	.000069431
5-P-2-Fillet	.000169942	.000664740	.000010127	.000044393	.000240462	.000036358	.000068786
2-P-3-Fillet	.000150442	.000508850	.000001699	.000040885	.000207965	.000026726	.000053982
6-BG-2-Fillet	.000129096	.000420708	.000007339	.000026081	.000158585	.000027654	.000057798

Location	PCB_209
1-P-2-Fillet	.001351852
7-BG-2-Fillet	.000226250
3-P-3-Fillet	.000047891
4-P-3-Fillet	.000087903
5-BG-3-Fillet	.000095122
5-P-2-Fillet	.000105780
2-P-3-Fillet	.000091150
6-BG-2-Fillet	.000088073

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------

Location	Prin1	Prin2	Prin3	PCB_1	PCB_2	PCB_3	PCB_4
7-WS-2-Fillet	-0.055413	0.002881	-0.010743	.000037675	.000000392	.000000719	.002491228
5-WS-4-Fillet	-0.043228	0.003904	0.003648	.000083025	.000000602	.000003059	.002033951
4-WS-5-Fillet	-0.017951	0.003032	0.016716	.000066245	.000001046	.000002481	.001383966
6-WS-2-Fillet	-0.001241	0.009604	-0.005660	.000071353	.000000546	.000001846	.002037135
3-WS-3-Fillet	0.019483	-0.005148	-0.007170	.000166307	.000000475	.000005248	.003088553
1-WS-5-Fillet	0.020260	-0.055004	0.001037	.000038211	.000019837	.000019837	.000571545
2-WS-2-Fillet	0.022156	0.019800	0.004362	.000110563	.000000325	.000002930	.001852113
2-WS-6-Fillet	0.055935	0.020930	-0.002190	.000052500	.000000381	.000002639	.000770370

Location	PCB_5	PCB_6	PCB_7	PCB_8	PCB_9	PCB_10	PCB_11
7-WS-2-Fillet	.000000379	.000354386	.000045175	.000618421	.000083772	.000281140	.000193860
5-WS-4-Fillet	.000005123	.000263272	.000032407	.000503086	.000054012	.000230864	.000106481
4-WS-5-Fillet	.000001046	.000167932	.000023544	.000337975	.000034768	.000148101	.000097046
6-WS-2-Fillet	.000003236	.000323607	.000040849	.000726790	.000084350	.000214854	.000165252
3-WS-3-Fillet	.000010713	.000460043	.000062959	.001263499	.000110151	.000323974	.000098488
1-WS-5-Fillet	.000019837	.000132520	.000020569	.000334146	.000032114	.000053415	.000530081
2-WS-2-Fillet	.000008592	.000264085	.000040211	.001084507	.000072535	.000177465	.000068380
2-WS-6-Fillet	.000002324	.000087593	.000016389	.000387037	.000022778	.000078148	.000008269

Location	PCB_14	PCB_15	PCB_16	PCB_17	PCB_19	PCB_22	PCB_23
7-WS-2-Fillet	.000000379	.000070175	.001228070	.008903509	.004517544	.001197368	.000011886
5-WS-4-Fillet	.000086111	.000067901	.000981481	.005802469	.002839506	.001037037	.000006667
4-WS-5-Fillet	.000050211	.000038819	.000565401	.004261603	.001848101	.000578059	.000004304
6-WS-2-Fillet	.000000546	.000034748	.000824934	.006604775	.003766578	.000832891	.000005066
3-WS-3-Fillet	.000000092	.000123110	.001166307	.005043197	.003315335	.001425486	.000008348
1-WS-5-Fillet	.000019837	.000064472	.000731707	.001520325	.000703252	.000869919	.000019837
2-WS-2-Fillet	.000000209	.000046338	.000647183	.003830986	.002246479	.000303521	.000000209
2-WS-6-Fillet	.000000381	.000038333	.000220370	.001314815	.000897222	.000154630	.000000381

Location	PCB_24	PCB_25	PCB_27	PCB_31	PCB_32	PCB_34	PCB_35
7-WS-2-Fillet	.000000379	.001714912	0.010789	.003166667	.006666667	.000121491	.000000379
5-WS-4-Fillet	.000000275	.001552469	0.008117	.003148148	.004351852	.000084877	.000000275
4-WS-5-Fillet	.000001046	.000945148	0.005021	.001008439	.003227848	.000068776	.000001046
6-WS-2-Fillet	.000000546	.001111406	0.006525	.002114058	.004827586	.000098143	.000008515
3-WS-3-Fillet	.000000092	.001123110	0.004201	.003066955	.004157667	.000071274	.000000092
1-WS-5-Fillet	.000019837	.000548780	0.000677	.001902439	.001780488	.000027886	.000019837
2-WS-2-Fillet	.000000209	.000689437	0.003289	.000964789	.002112676	.000049366	.000000209
2-WS-6-Fillet	.000000381	.000323148	0.001278	.000531481	.000857407	.000020463	.000002120

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------
(continued)

Location	PCB_37	PCB_38	PCB_39	PCB_42	PCB_43	PCB_46	PCB_48
7-WS-2-Fillet	.000207018	.000025351	.000017763	.008684211	.000000379	.003574561	.001350877
5-WS-4-Fillet	.000229630	.000027963	.000015833	.008456790	.001459877	.002635802	.001188272
4-WS-5-Fillet	.000164979	.000028987	.000016034	.006455696	.000535865	.001725738	.000755274
6-WS-2-Fillet	.000125995	.000020318	.000019708	.005517241	.000464191	.001758621	.000870027
3-WS-3-Fillet	.000347732	.000000092	.000023002	.005302376	.000331533	.001166307	.001144708
1-WS-5-Fillet	.000274797	.000019837	.000026098	.004544715	.000369919	.001203252	.001333333
2-WS-2-Fillet	.000116901	.000007746	.000013592	.004049296	.000235915	.000950704	.000753521
2-WS-6-Fillet	.000077870	.000004648	.000010278	.001907407	.000110185	.000401852	.000469444

Location	PCB_52	PCB_54	PCB_55	PCB_56	PCB_57	PCB_58	PCB_60
7-WS-2-Fillet	0.043860	.000671053	.000000379	.002048246	.000473684	.000321053	.001149123
5-WS-4-Fillet	0.032099	.000413580	.000000275	.002638889	.000391975	.000314815	.001222222
4-WS-5-Fillet	0.022911	.000259072	.000001046	.001670886	.000662447	.000262869	.001029536
6-WS-2-Fillet	0.017666	.000442971	.000000546	.002315650	.000374005	.000219894	.001249337
3-WS-3-Fillet	0.018575	.000245140	.000000092	.002624190	.000228942	.000158747	.001630670
1-WS-5-Fillet	0.017317	.000072276	.000019837	.002837398	.000110569	.000108943	.001878049
2-WS-2-Fillet	0.017958	.000277465	.000000209	.001943662	.000201408	.000089437	.001105634
2-WS-6-Fillet	0.015833	.000103704	.000000381	.001712963	.000174074	.000072315	.000824074

Location	PCB_63	PCB_64	PCB_66	PCB_67	PCB_68	PCB_72	PCB_77
7-WS-2-Fillet	.000921053	0.010877	0.015526	.000311404	.001662281	.002368421	.000379386
5-WS-4-Fillet	.001009259	0.010556	0.017593	.000398148	.001688272	.002203704	.000429012
4-WS-5-Fillet	.000957806	0.007975	0.017595	.000209283	.001894515	.002261603	.000314768
6-WS-2-Fillet	.000938992	0.007188	0.017401	.000244297	.001450928	.001567639	.000297082
3-WS-3-Fillet	.000879050	0.008121	0.016307	.000223542	.000848812	.000873650	.000399568
1-WS-5-Fillet	.000536585	0.007390	0.011463	.000152033	.000296748	.000416260	.000665854
2-WS-2-Fillet	.000718310	0.004754	0.012958	.000126761	.000852113	.000639437	.000237324
2-WS-6-Fillet	.000421296	0.003185	0.009352	.000068241	.000464815	.000316667	.000135185

Location	PCB_78	PCB_79	PCB_81	PCB_82	PCB_83	PCB_84	PCB_89
7-WS-2-Fillet	.000152632	.000280263	.000022281	.004473684	.003890351	0.015263	.000306579
5-WS-4-Fillet	.000012778	.000288272	.000036420	.004969136	.004907407	0.016358	.000339506
4-WS-5-Fillet	.000001046	.000645570	.000051899	.004725738	.003185654	0.011814	.000297468
6-WS-2-Fillet	.000014218	.000474801	.000053581	.005941645	.002917772	0.012493	.000320955
3-WS-3-Fillet	.000238661	.000730022	.000032613	.006436285	.003066955	0.011663	.000342333
1-WS-5-Fillet	.000245528	.000772358	.000169106	.005308943	.002040650	0.012195	.000557724
2-WS-2-Fillet	.000013169	.000250000	.000029789	.007746479	.002654930	0.014014	.000362676
2-WS-6-Fillet	.000017130	.000463889	.000037870	.007537037	.002490741	0.012315	.000318519

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------
(continued)

Location	PCB_92	PCB_94	PCB_95	PCB_96	PCB_99	PCB_103	PCB_104	PCB_105
7-WS-2-Fillet	0.016272	.000934211	0.047807	.000921053	0.038728	.001328947	.000043684	0.013026
5-WS-4-Fillet	0.016667	.001000000	0.044753	.000836420	0.042284	.001364198	.000036420	0.015895
4-WS-5-Fillet	0.015570	.000696203	0.040084	.000620253	0.054008	.001206751	.000035401	0.014937
6-WS-2-Fillet	0.013183	.000809019	0.037401	.000503979	0.038992	.001005305	.000037931	0.021645
3-WS-3-Fillet	0.014363	.000611231	0.026134	.000350972	0.040281	.000747300	.000015767	0.023218
1-WS-5-Fillet	0.010894	.000326016	0.041220	.000364228	0.033171	.000522764	.000019837	0.013902
2-WS-2-Fillet	0.012676	.000732394	0.035915	.000400000	0.049437	.000718310	.000028732	0.027535
2-WS-6-Fillet	0.010463	.000362037	0.030741	.000218519	0.044259	.000356481	.000012963	0.030741

Location	PCB_109	PCB_111	PCB_114	PCB_118	PCB_120	PCB_121	PCB_122
7-WS-2-Fillet	.002894737	.000097368	.000750000	0.049123	.000393421	.000046491	.000370614
5-WS-4-Fillet	.004845679	.000102469	.000966049	0.047531	.000379630	.000052160	.000481481
4-WS-5-Fillet	.005654008	.000175105	.000886076	0.055696	.000616034	.000068354	.000349367
6-WS-2-Fillet	.004721485	.000081698	.001403183	0.073740	.000315650	.000037401	.000559682
3-WS-3-Fillet	.004946004	.000055832	.001781857	0.062203	.000245140	.000025378	.000524838
1-WS-5-Fillet	.002991870	.000030081	.000790244	0.039024	.000174797	.000019837	.000478862
2-WS-2-Fillet	.005309859	.000037958	.002049296	0.079577	.000137324	.000024577	.000718310
2-WS-6-Fillet	.005083333	.000037222	.002101852	0.094444	.000115741	.000013056	.000751852

Location	PCB_123	PCB_126	PCB_127	PCB_130	PCB_131	PCB_132	PCB_133
7-WS-2-Fillet	.001609649	.000169737	.000096491	.003543860	.000649123	0.012368	.000934211
5-WS-4-Fillet	.000944444	.000209568	.000075309	.003796296	.000750000	0.015031	.001074074
4-WS-5-Fillet	.001409283	.000242616	.000144304	.003810127	.000877637	0.016751	.001274262
6-WS-2-Fillet	.002336870	.000192838	.000165517	.004721485	.001132626	0.017931	.001159151
3-WS-3-Fillet	.003056156	.000174946	.000152268	.005215983	.001231102	0.014471	.001123110
1-WS-5-Fillet	.001089431	.000630081	.000094309	.004317073	.000975610	0.021626	.001162602
2-WS-2-Fillet	.002295775	.000538732	.000118310	.005394366	.001218310	0.007183	.001014085
2-WS-6-Fillet	.002342593	.000406481	.000241667	.006287037	.001527778	0.020185	.000990741

Location	PCB_136	PCB_137	PCB_141	PCB_142	PCB_144	PCB_145	PCB_146
7-WS-2-Fillet	.005438596	.003184211	0.004868	.000000379	.000428070	.000018509	0.007719
5-WS-4-Fillet	.007037037	.004135802	0.005123	.000000275	.002265432	.000027469	0.008210
4-WS-5-Fillet	.005907173	.004345992	0.006287	.000001046	.002257384	.000026920	0.010886
6-WS-2-Fillet	.005729443	.005066313	0.008117	.000000546	.002411141	.000028382	0.010902
3-WS-3-Fillet	.005712743	.006630670	0.009093	.000000092	.003164147	.000027754	0.011771
1-WS-5-Fillet	.006089431	.004121951	0.010569	.000019837	.003585366	.000027480	0.013415
2-WS-2-Fillet	.005063380	.006169014	0.008310	.000000209	.002654930	.000028944	0.009225
2-WS-6-Fillet	.004750000	.006953704	0.011111	.000000381	.002888889	.000028426	0.011019

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------
(continued)

Location	PCB_148	PCB_150	PCB_152	PCB_154	PCB_155	PCB_158	PCB_159
7-WS-2-Fillet	.000067544	.000075877	.000063158	.000596491	.000002096	0.005570	.000006096
5-WS-4-Fillet	.000098765	.000106481	.000080864	.000728395	.000004074	0.006790	.000010093
4-WS-5-Fillet	.000101266	.000111814	.000072574	.000789030	.000004641	0.007468	.000010970
6-WS-2-Fillet	.000085146	.000088859	.000074801	.000737401	.000003024	0.008939	.000007560
3-WS-3-Fillet	.000087257	.000085637	.000057559	.000781857	.000002484	0.010011	.000128510
1-WS-5-Fillet	.000074472	.000069593	.000051789	.000652033	.000019837	0.008211	.000385366
2-WS-2-Fillet	.000076761	.000078169	.000069507	.000711268	.000002099	0.009648	.000008873
2-WS-6-Fillet	.000059815	.000067685	.000050648	.000594444	.000002731	0.012037	.000013704

Location	PCB_161	PCB_162	PCB_164	PCB_165	PCB_167	PCB_169	PCB_170
7-WS-2-Fillet	.000000379	.000237719	.002991228	.000052632	.001662281	.000009912	.002916667
5-WS-4-Fillet	.000000275	.000250000	.003456790	.000000275	.001703704	.000005833	.002419753
4-WS-5-Fillet	.000001046	.000159072	.003894515	.000092827	.002438819	.000011772	.004556962
6-WS-2-Fillet	.000000546	.000137666	.004774536	.000041114	.002649867	.000012467	.005145889
3-WS-3-Fillet	.000000092	.000411447	.005161987	.000000092	.003434125	.000008629	.006133909
1-WS-5-Fillet	.000019837	.000582114	.005837398	.000025366	.002650407	.000029106	.009918699
2-WS-2-Fillet	.000000209	.000219014	.004802817	.000020493	.003697183	.000005352	.006225352
2-WS-6-Fillet	.000000381	.000491667	.006620370	.000015648	.004740741	.000005000	.007425926

Location	PCB_172	PCB_174	PCB_175	PCB_176	PCB_177	PCB_178	PCB_179
7-WS-2-Fillet	.000064474	0.003061	.000204386	.000605263	.002592105	.000964912	.001500000
5-WS-4-Fillet	.000456790	0.002667	.000202469	.000638889	.002358025	.000935185	.001546296
4-WS-5-Fillet	.000793249	0.002608	.000235443	.000683544	.002468354	.001092827	.001518987
6-WS-2-Fillet	.000838196	0.003236	.000273210	.000750663	.002864721	.001045093	.001652520
3-WS-3-Fillet	.001072354	0.003639	.000300216	.000812095	.003239741	.001074514	.001641469
1-WS-5-Fillet	.002447154	0.011301	.000669919	.001869919	.008617886	.003926829	.005487805
2-WS-2-Fillet	.000929577	0.002796	.000243662	.000574648	.002774648	.000802817	.001098592
2-WS-6-Fillet	.001046296	0.003148	.000248148	.000589815	.002666667	.000662963	.000909259

Location	PCB_181	PCB_182	PCB_184	PCB_186	PCB_187	PCB_188	PCB_189
7-WS-2-Fillet	.000101316	.000000379	.000005658	.000002732	0.006579	.000006360	.000172368
5-WS-4-Fillet	.000096605	.000000275	.000005833	.000002836	0.005957	.000006512	.000159259
4-WS-5-Fillet	.000139662	.000001046	.000007215	.000002924	0.009030	.000008059	.000254852
6-WS-2-Fillet	.000155438	.000000546	.000006233	.000003607	0.007321	.000007507	.000264987
3-WS-3-Fillet	.000185745	.000000092	.000007365	.000003056	0.011123	.000007549	.000347732
1-WS-5-Fillet	.000177236	.000019837	.000019837	.000019837	0.038211	.000025366	.000380488
2-WS-2-Fillet	.000211972	.000000209	.000007465	.000003711	0.005458	.000008521	.000298592
2-WS-6-Fillet	.000226852	.000070926	.000007620	.000003694	0.004657	.000007417	.000375926

PCB Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight
PCA Run Using the Covariance Matrix
Cornell-Dubilier Site, WA #0-360

---------- Fish=WhiteSucker ----------
(continued)

Location	PCB_190	PCB_191	PCB_192	PCB_194	PCB_195	PCB_196	PCB_201
7-WS-2-Fillet	.000280263	.000000379	.005219298	.000392105	.000236404	.000271491	.000152632
5-WS-4-Fillet	.000226235	.000133333	.000000275	.000250000	.000191358	.000222840	.000125000
4-WS-5-Fillet	.000590717	.000202532	.000001046	.000573840	.000344726	.000489451	.000162447
6-WS-2-Fillet	.000490716	.000238462	.000000546	.000657825	.000384615	.000461538	.000167374
3-WS-3-Fillet	.000740821	.000278618	.000000092	.000745140	.000442765	.000557235	.000169546
1-WS-5-Fillet	.001463415	.000498374	.000019837	.001886179	.001276423	.001829268	.000861789
2-WS-2-Fillet	.000781690	.000249296	.000000209	.000459155	.000264789	.000342958	.000101408
2-WS-6-Fillet	.000725926	.000306481	.000000381	.000675926	.000305556	.000374074	.000089630

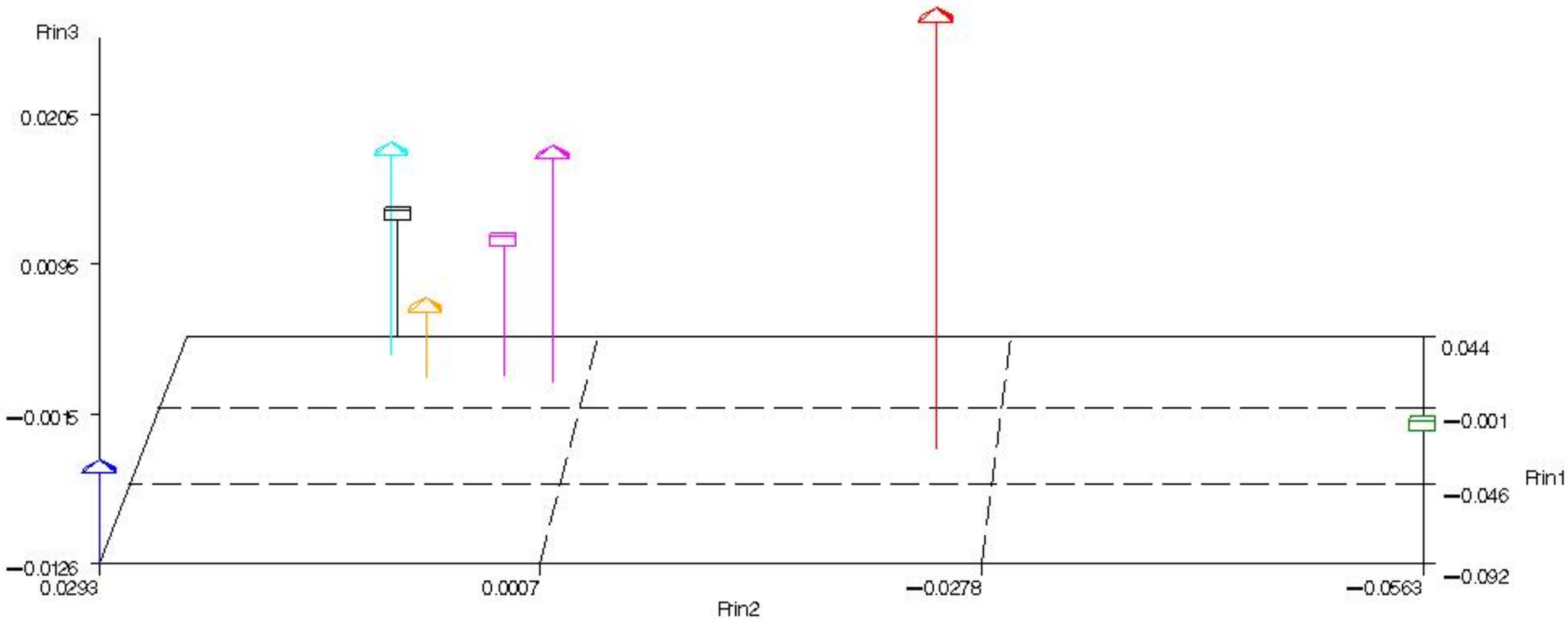
Location	PCB_202	PCB_203	PCB_204	PCB_205	PCB_206	PCB_207	PCB_208
7-WS-2-Fillet	.000162281	.000460526	.000000904	.000042632	.000314912	.000037851	.000110526
5-WS-4-Fillet	.000121296	.000385802	.000000716	.000030864	.000123765	.000017840	.000033025
4-WS-5-Fillet	.000168776	.000797468	.000001046	.000051477	.000217722	.000028861	.000056962
6-WS-2-Fillet	.000156499	.000681698	.000001013	.000052520	.000200796	.000028117	.000050398
3-WS-3-Fillet	.000163067	.000974082	.000000868	.000065983	.000247300	.000030346	.000056587
1-WS-5-Fillet	.001154472	.003455285	.000019837	.000193496	.001487805	.000182114	.000562602
2-WS-2-Fillet	.000127465	.000558451	.000000746	.000036197	.000210563	.000026831	.000056831
2-WS-6-Fillet	.000103704	.000586111	.000000632	.000038333	.000220370	.000030093	.000051667

Location	PCB_209
7-WS-2-Fillet	.000168860
5-WS-4-Fillet	.000026235
4-WS-5-Fillet	.000050633
6-WS-2-Fillet	.000045889
3-WS-3-Fillet	.000042225
1-WS-5-Fillet	.000853659
2-WS-2-Fillet	.000049366
2-WS-6-Fillet	.000030556

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

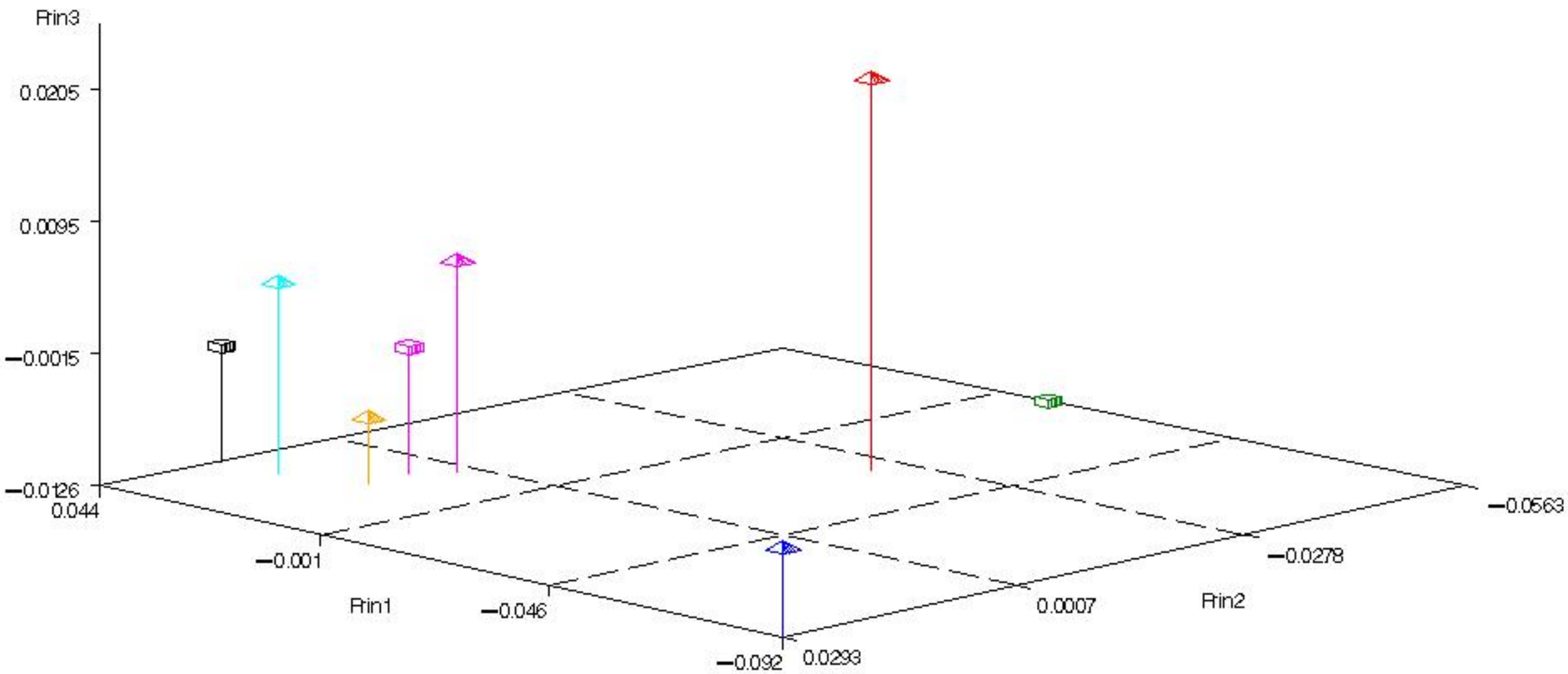
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

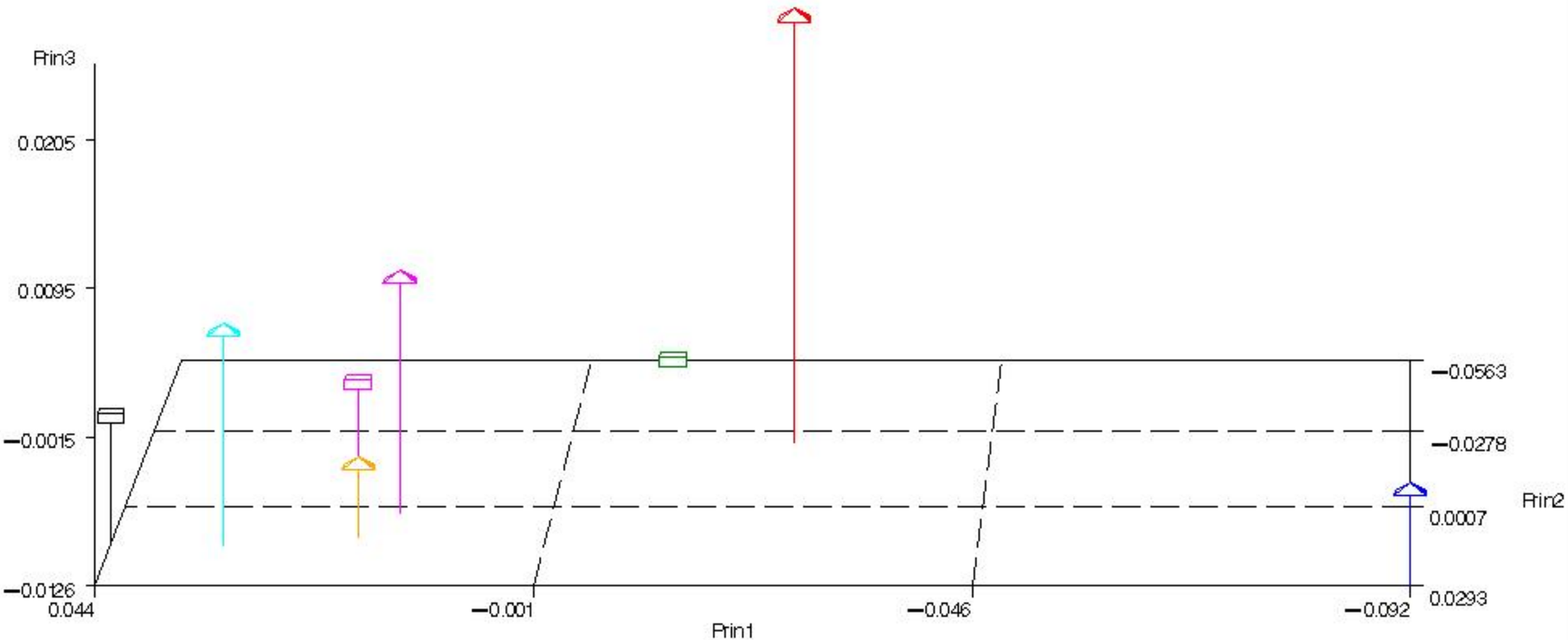
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

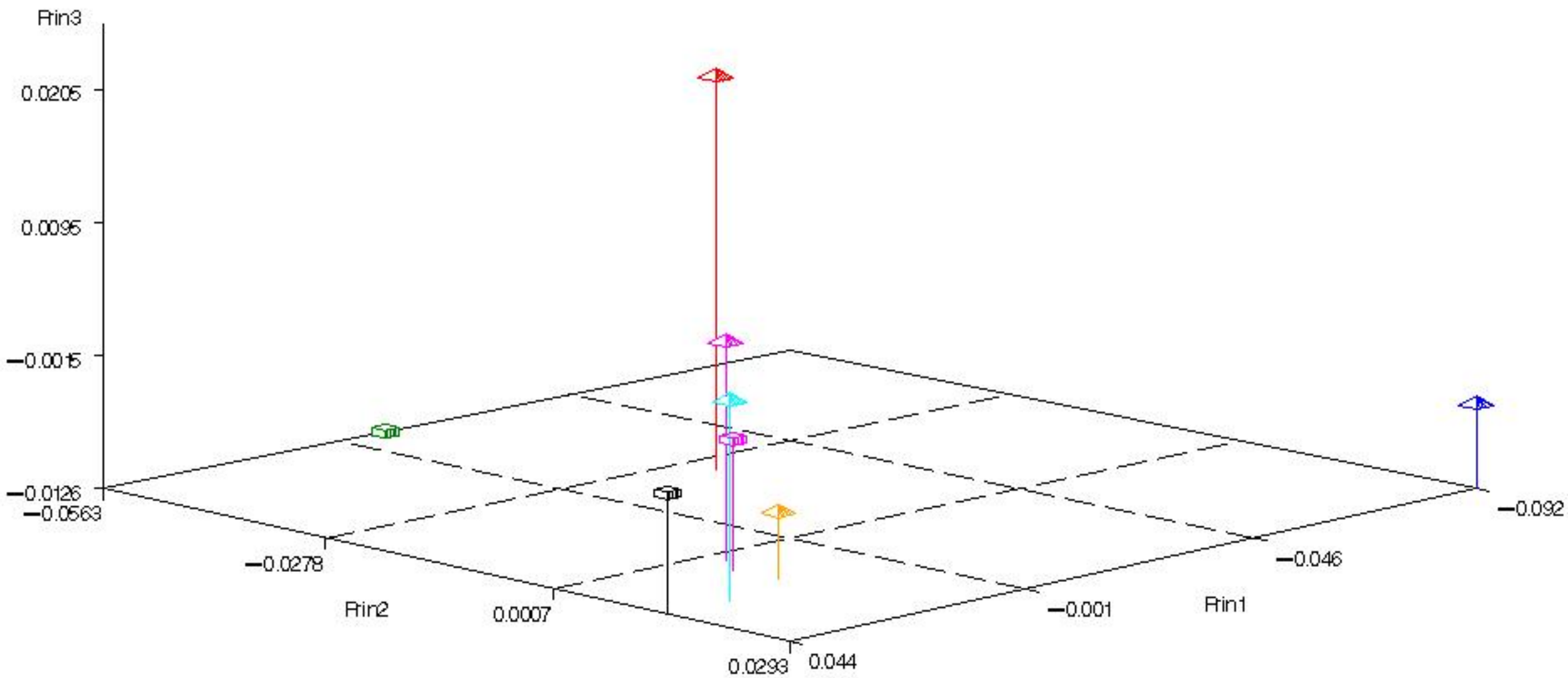
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

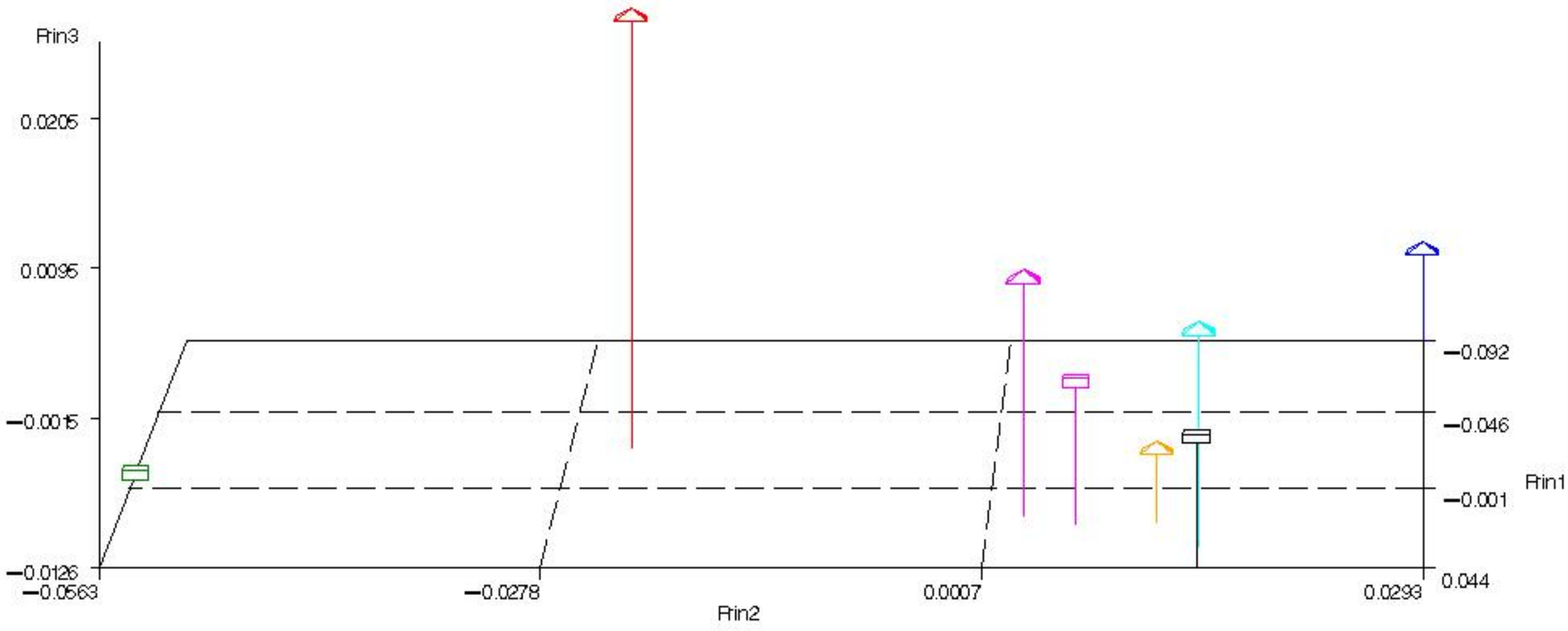
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

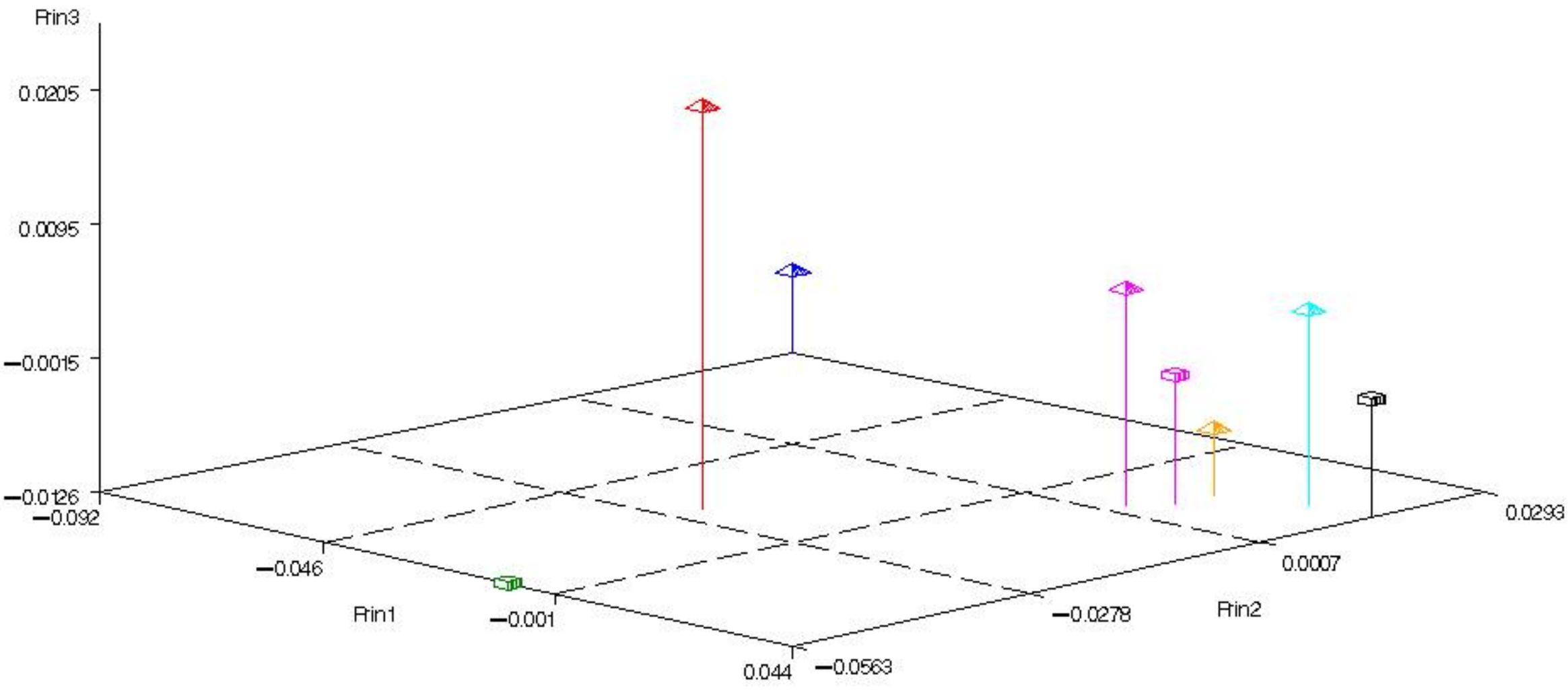
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

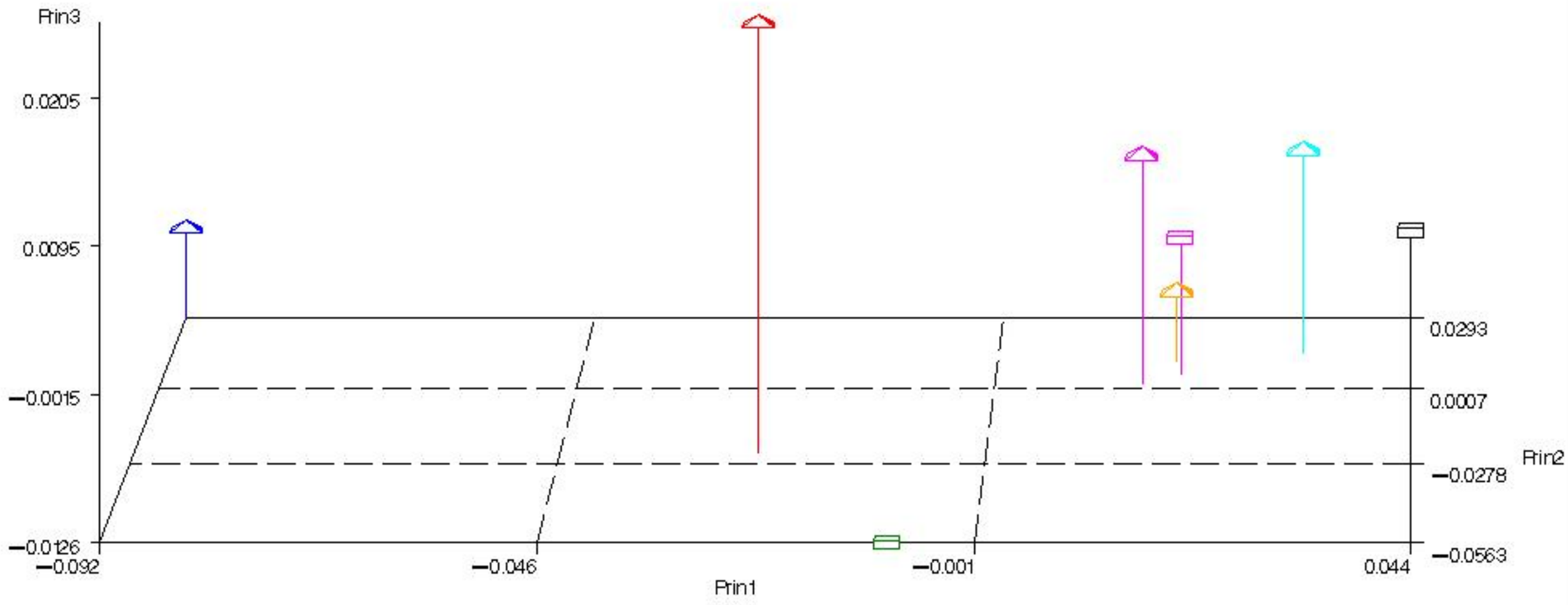
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

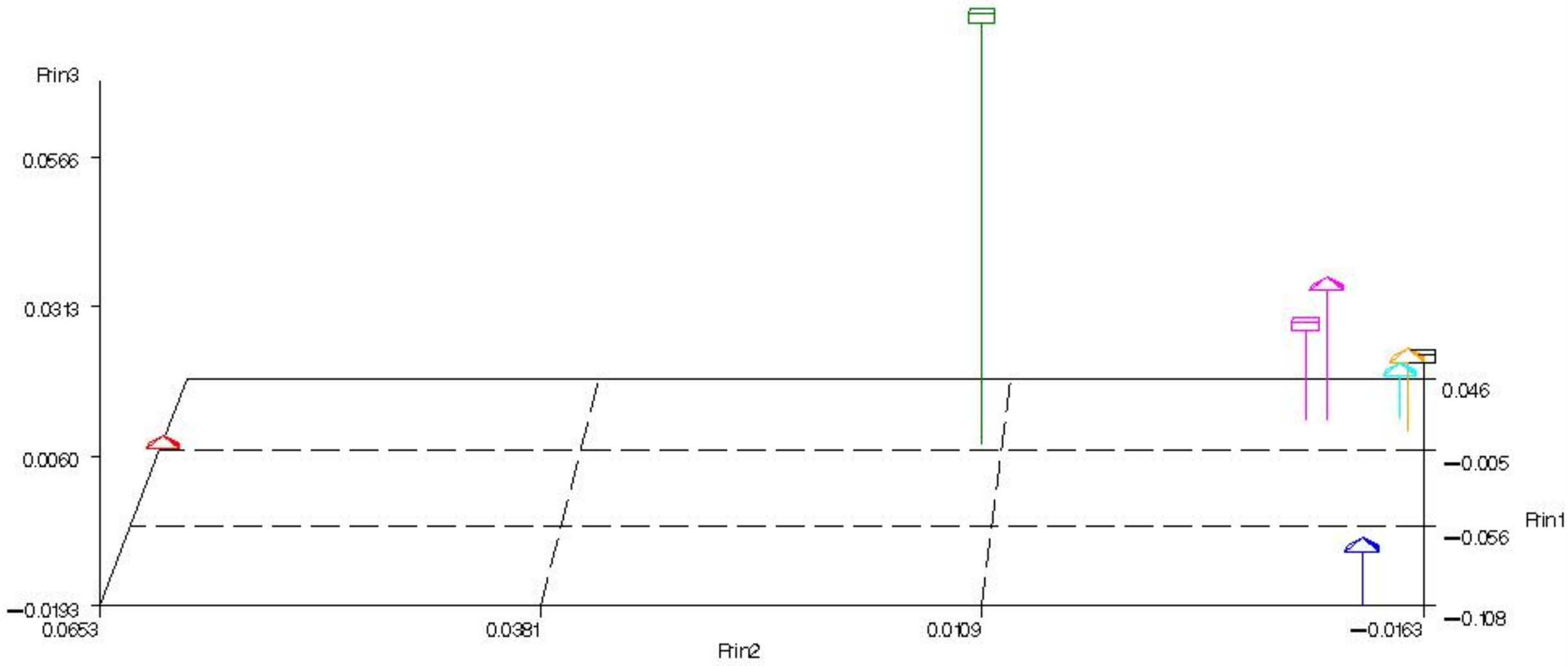
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

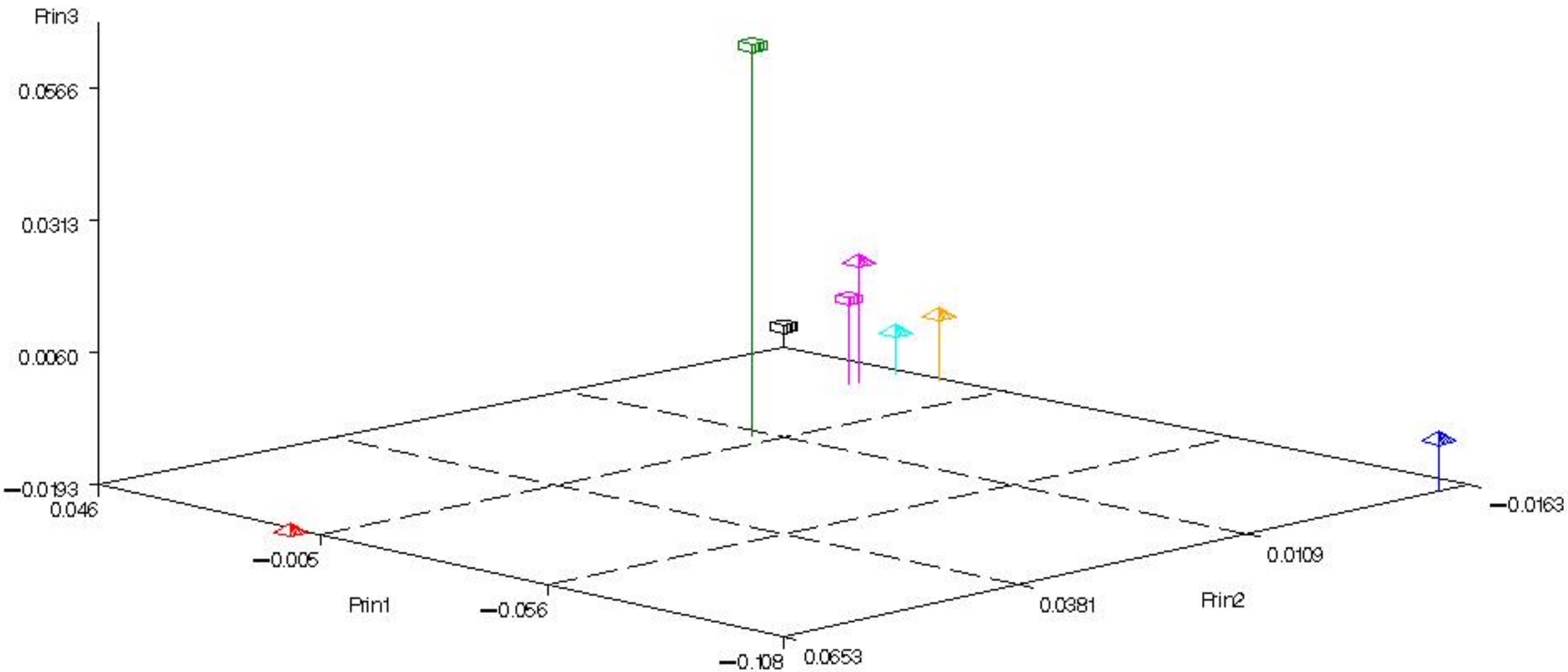
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

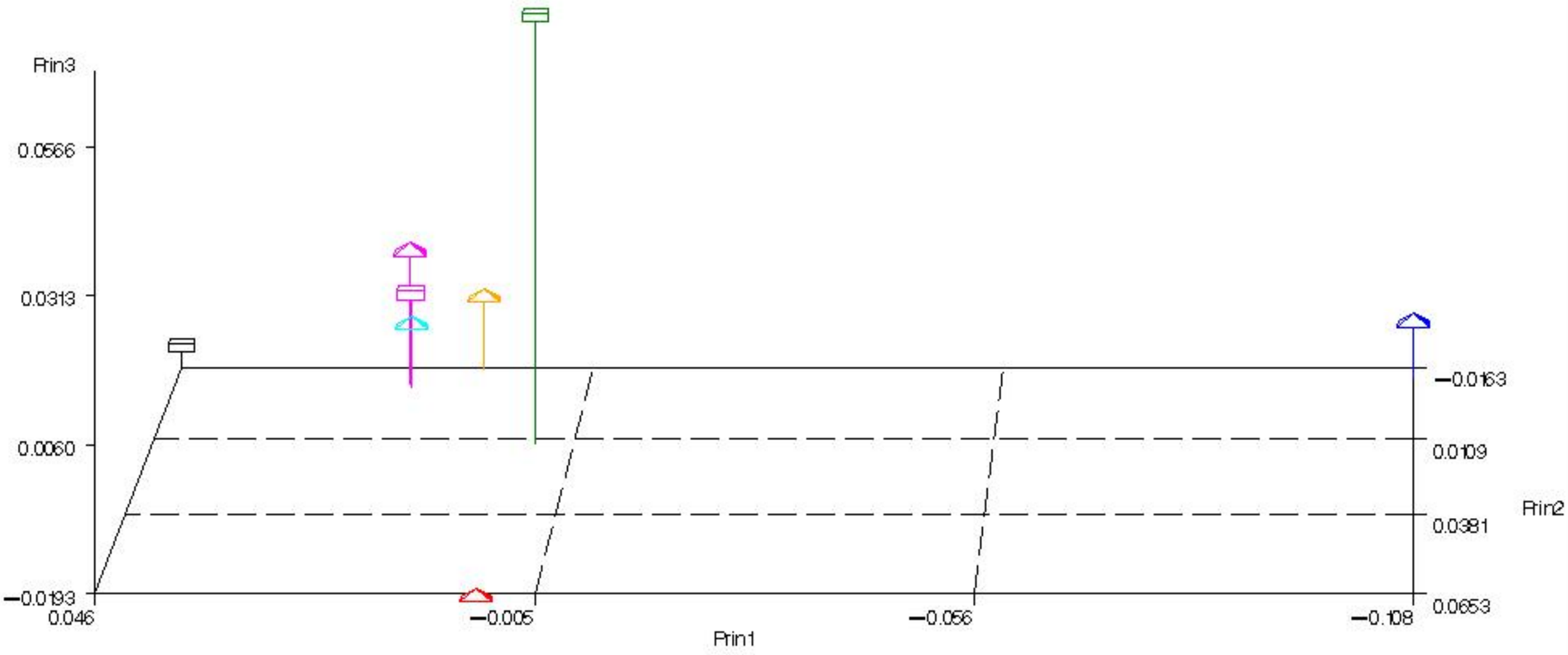
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

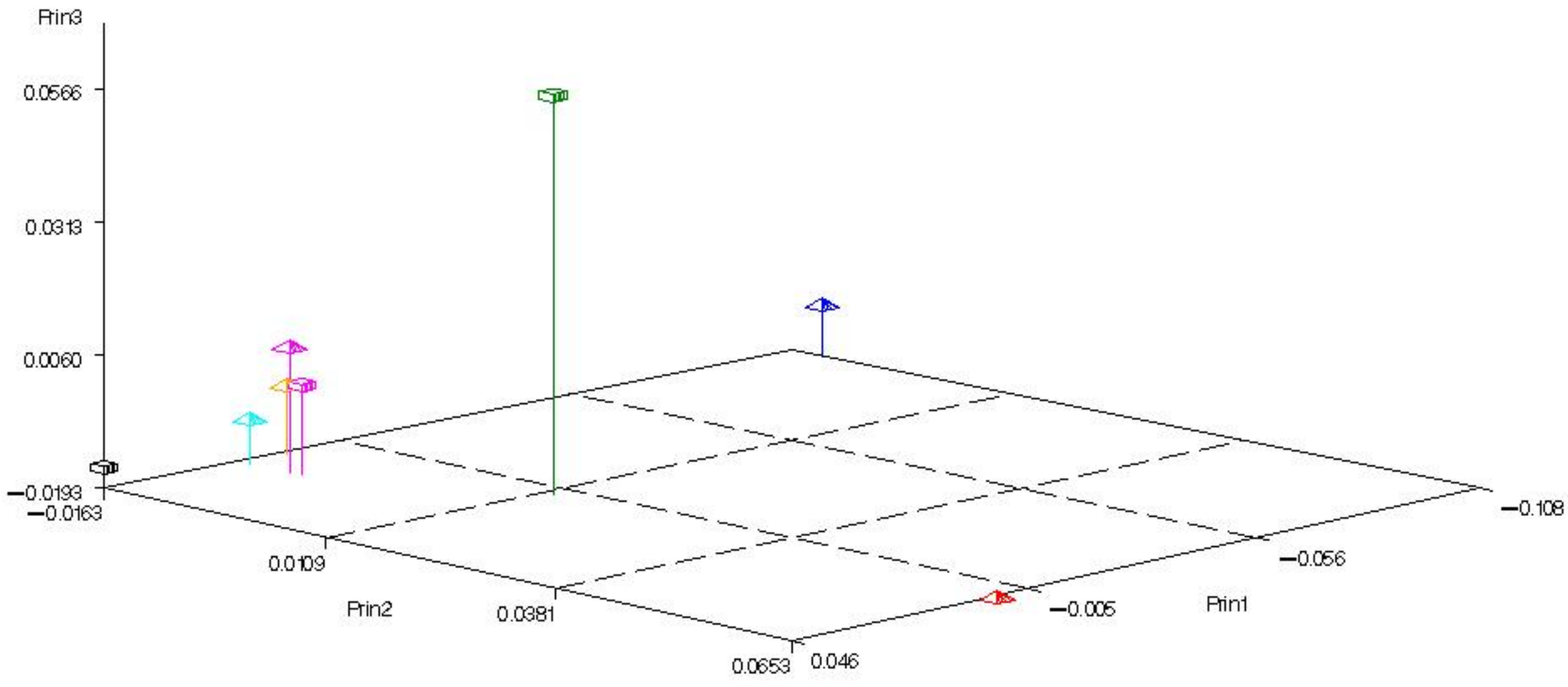
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

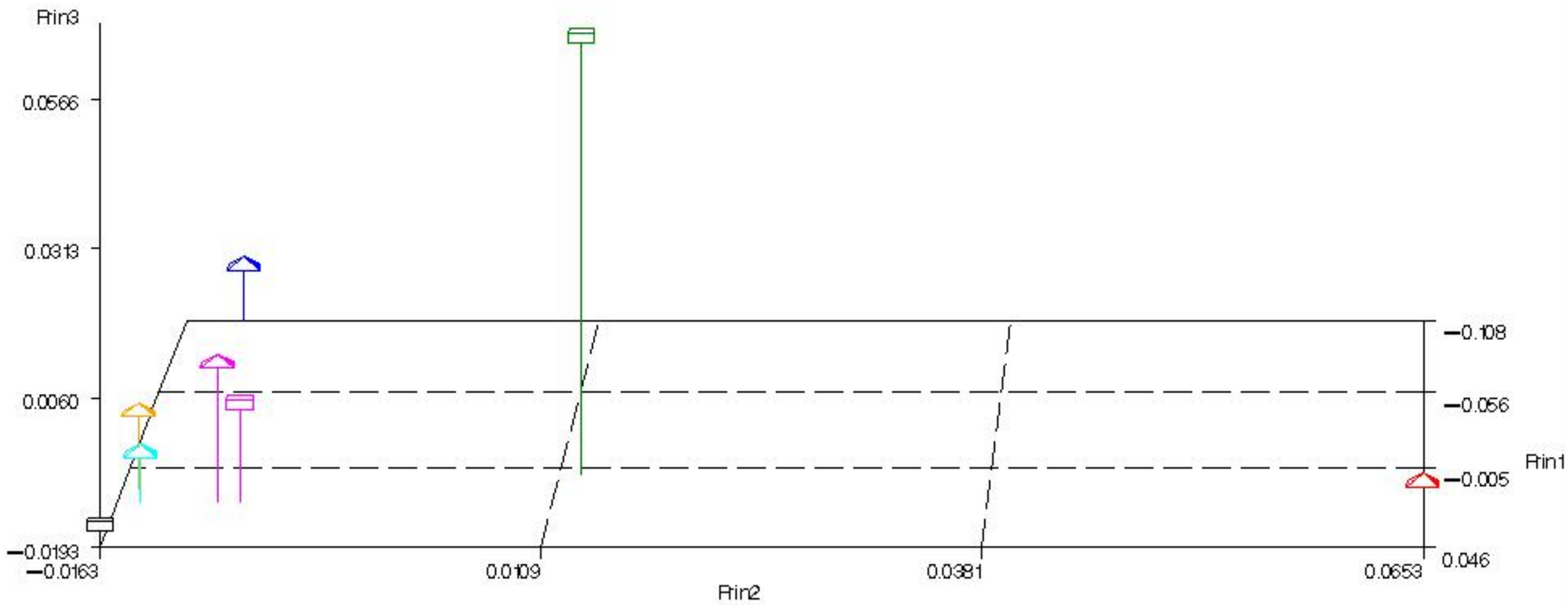
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

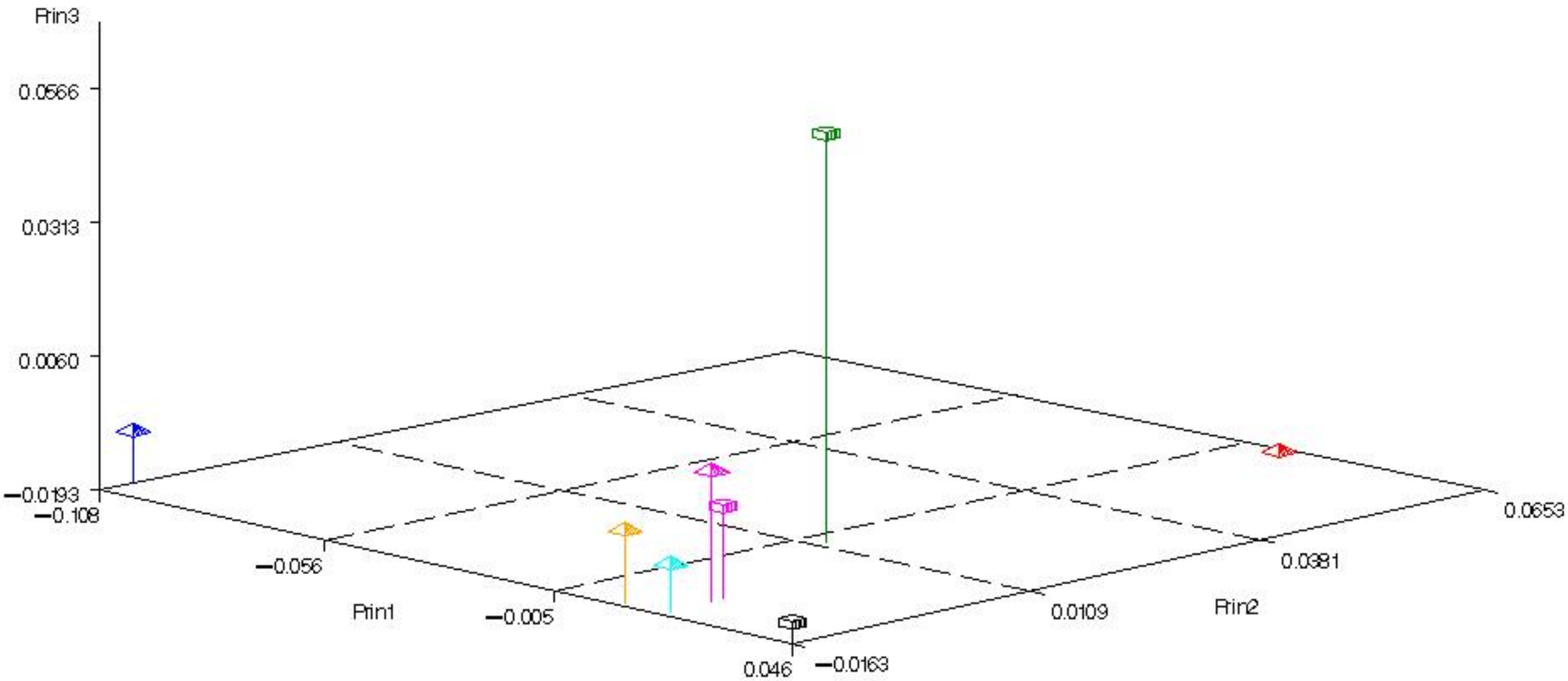
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



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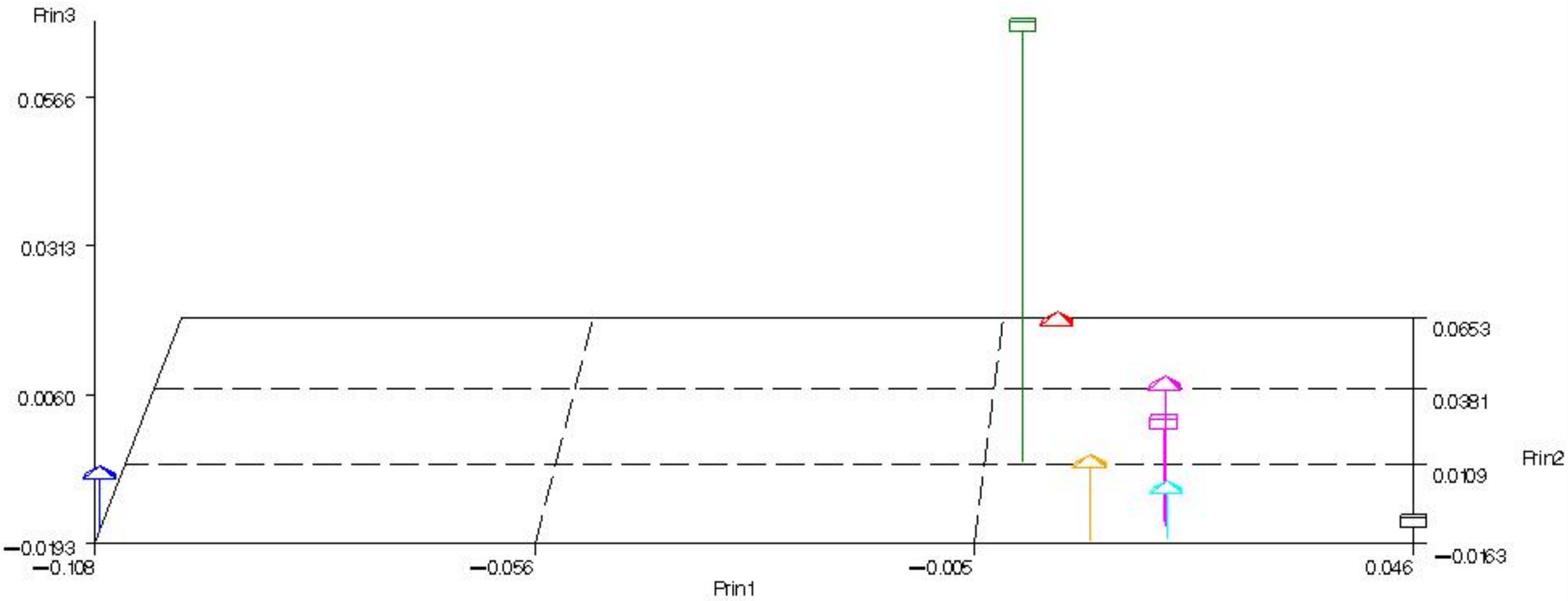
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

Pumkinseed & BlueGill: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

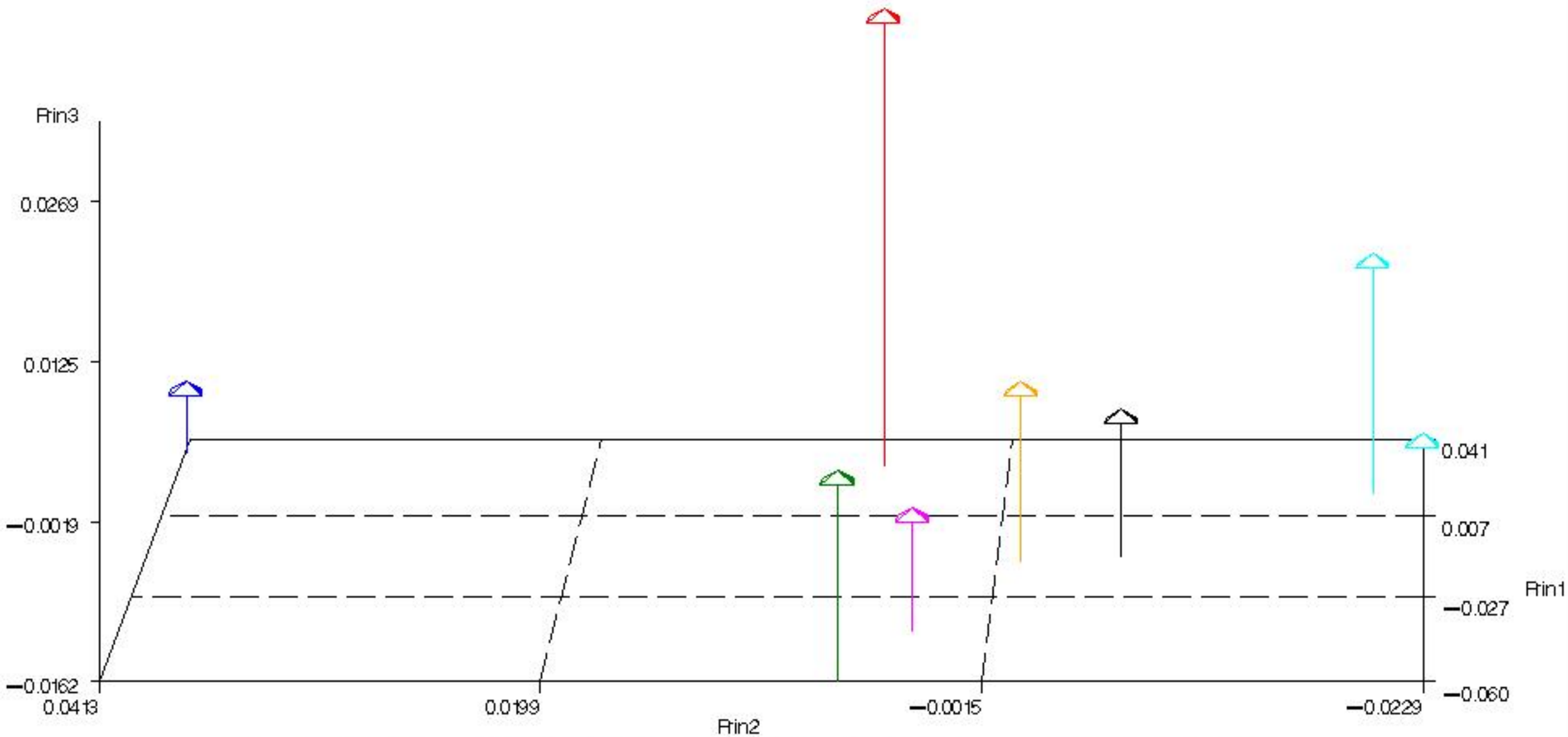
Station 5: Magenta Station 6: Black Station 7: Green

Pumpkinseed: Pyramid BlueGill: Cube

White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

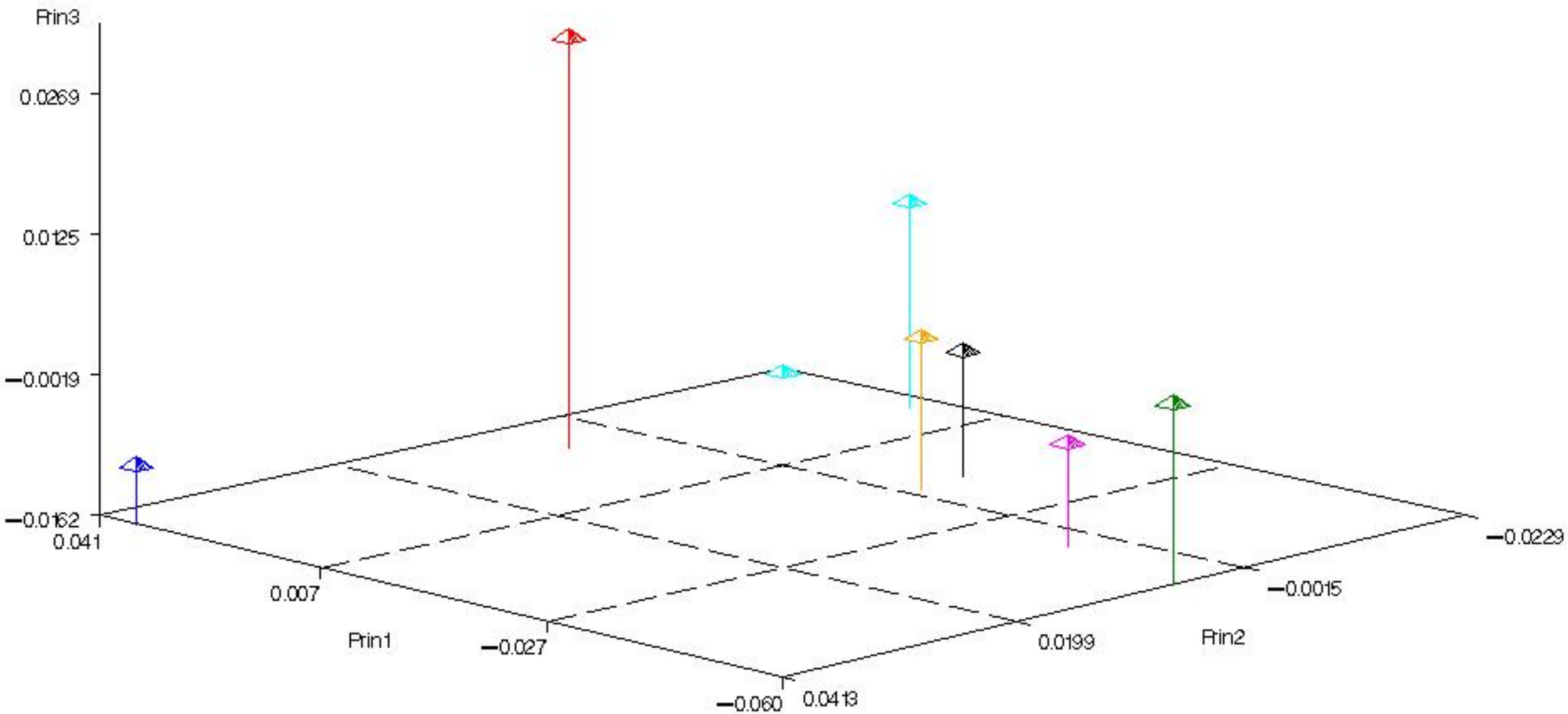
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



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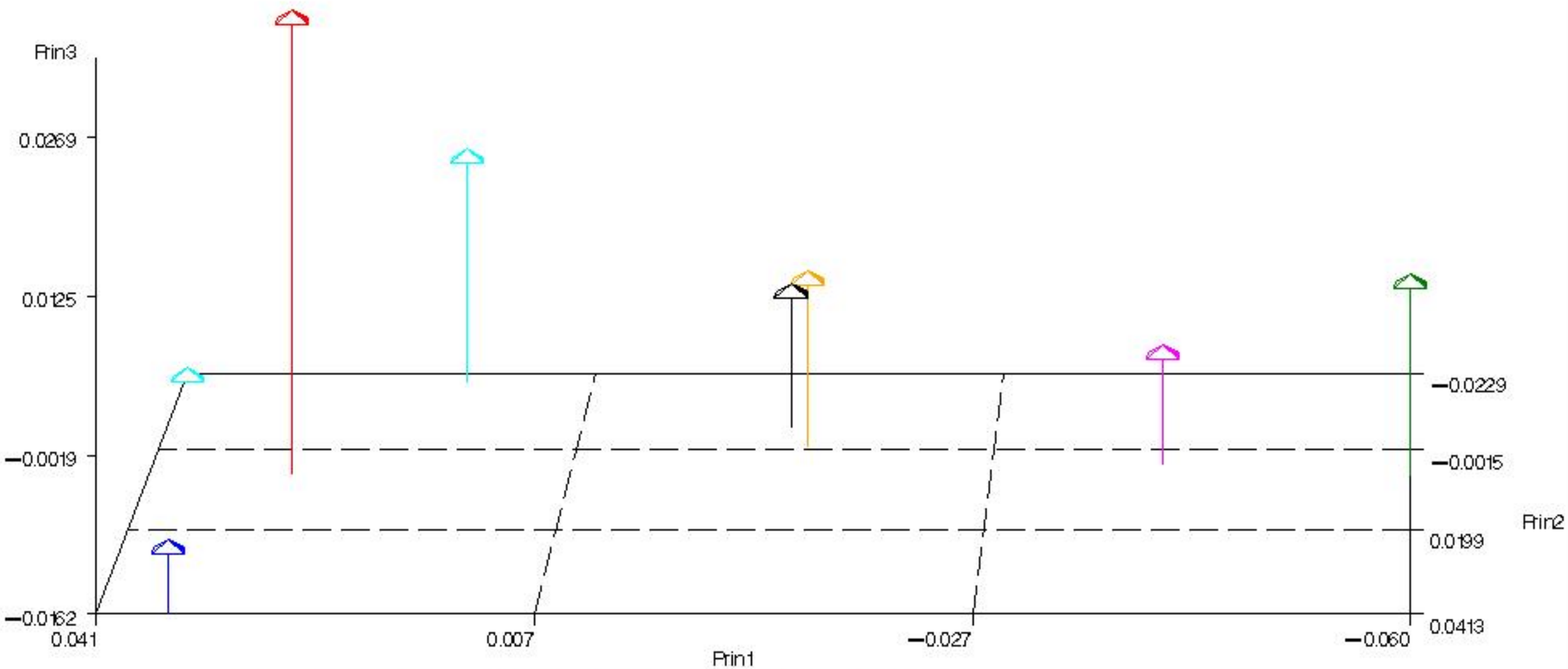
White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

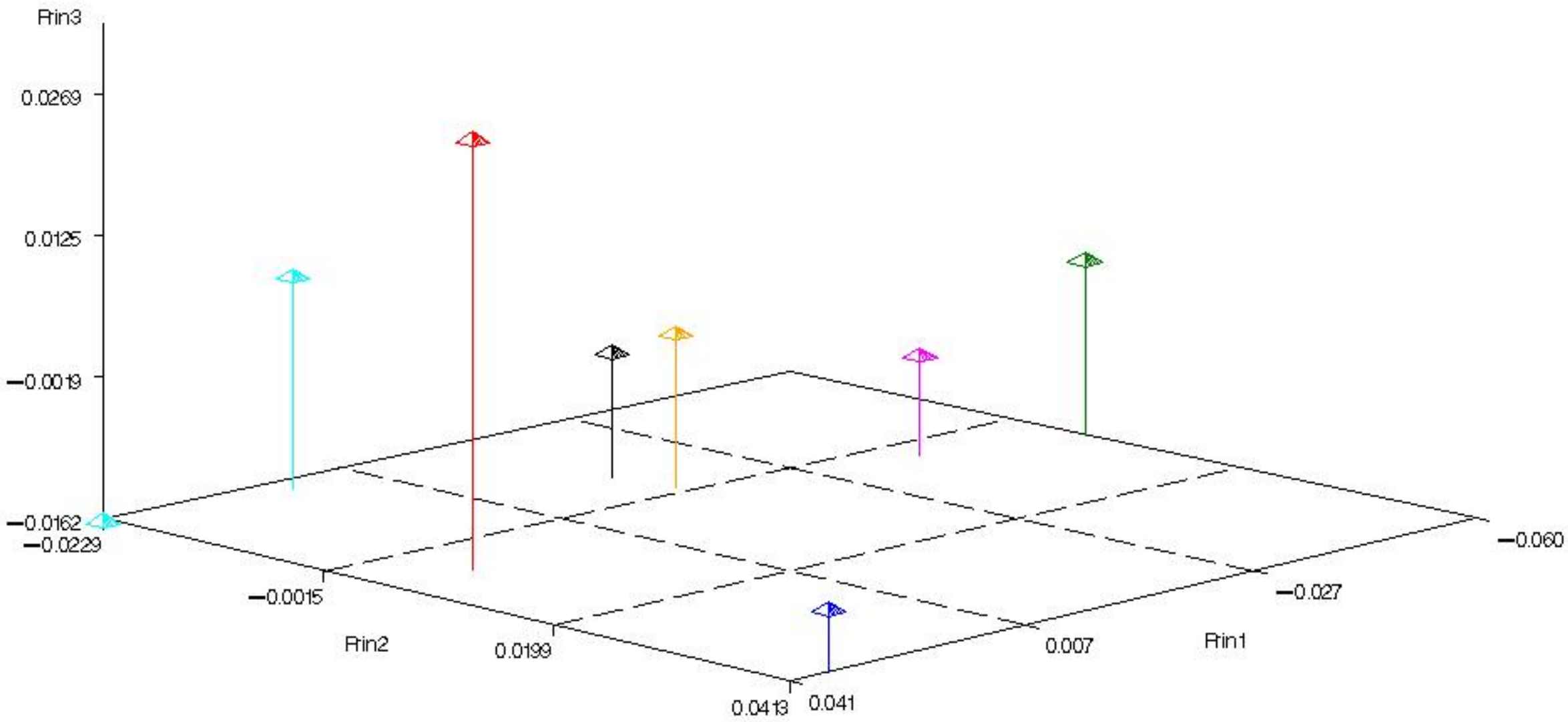
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



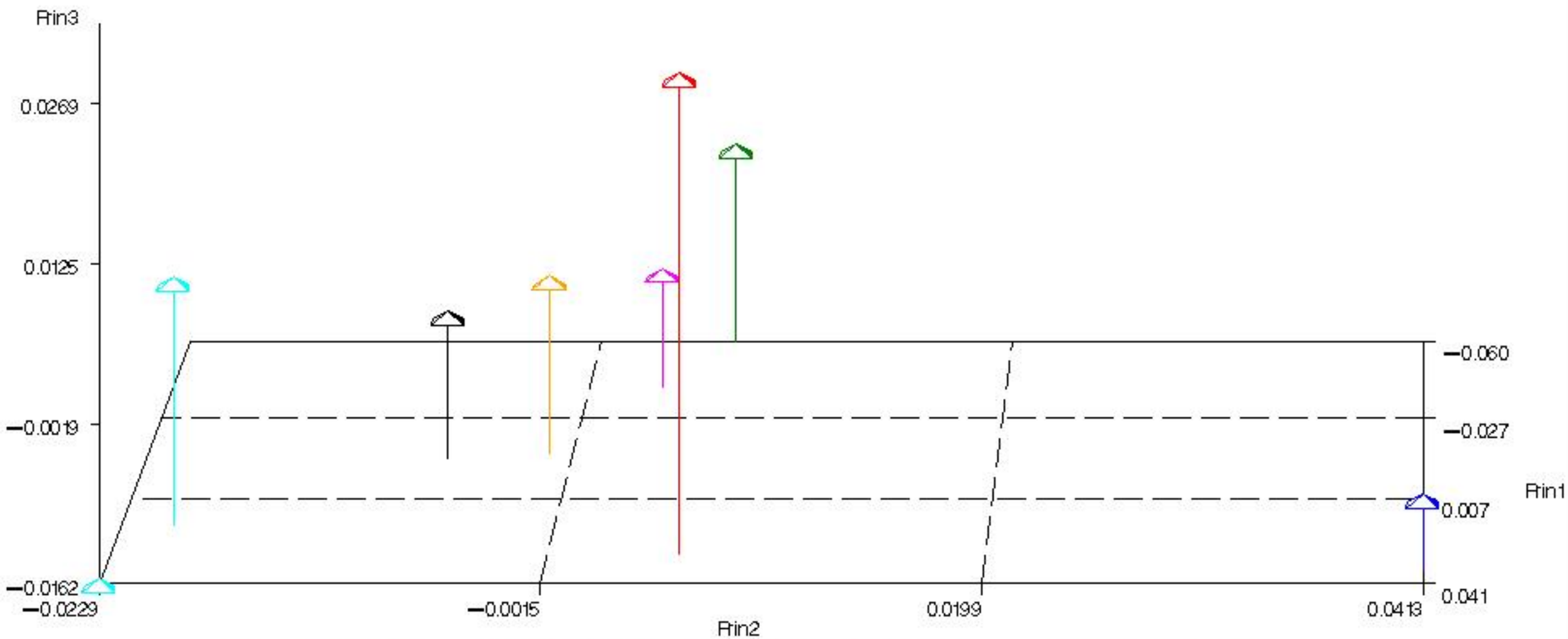
Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

Station 5: Magenta Station 6: Black Station 7: Green

White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

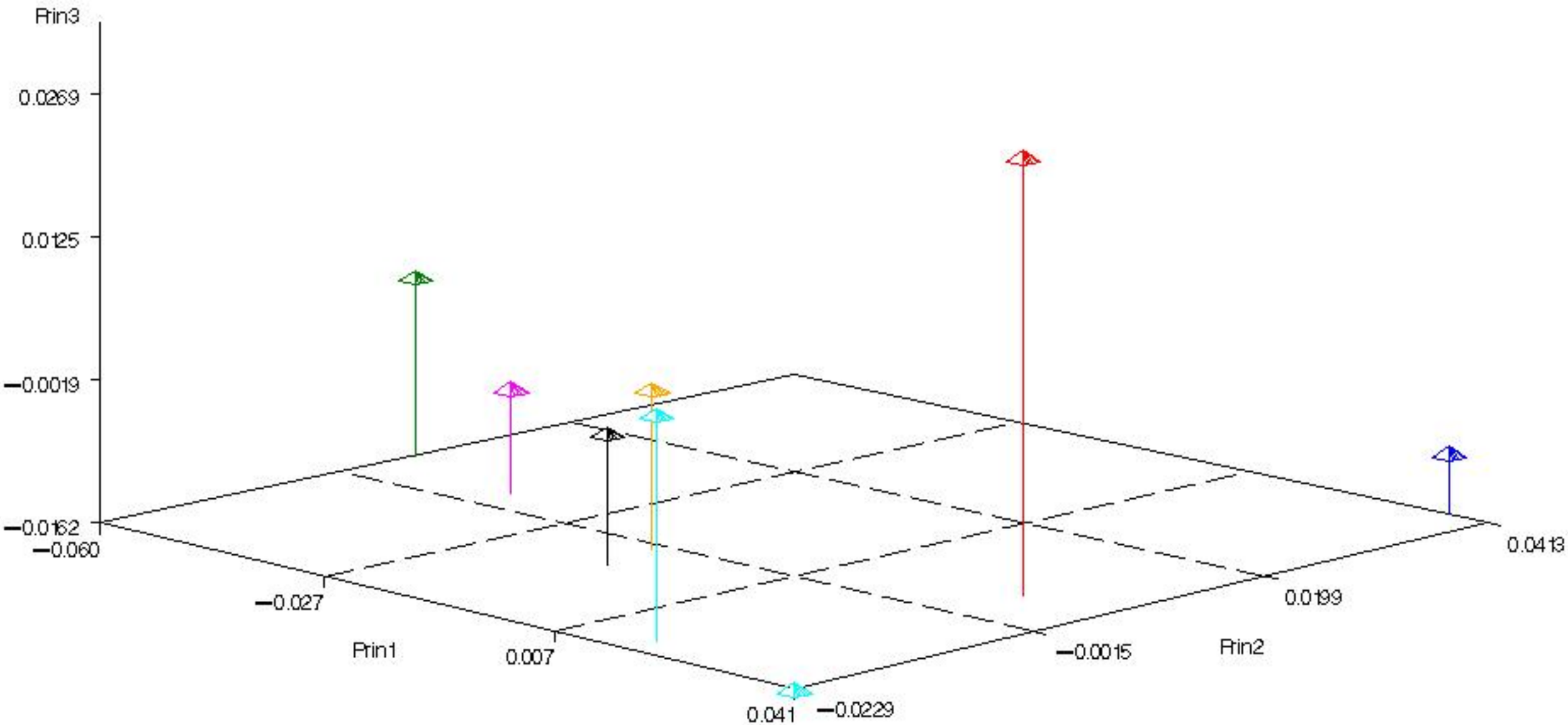
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Station 1: Blue Station 2: Cyan Station 3: Red Station 4: Orange

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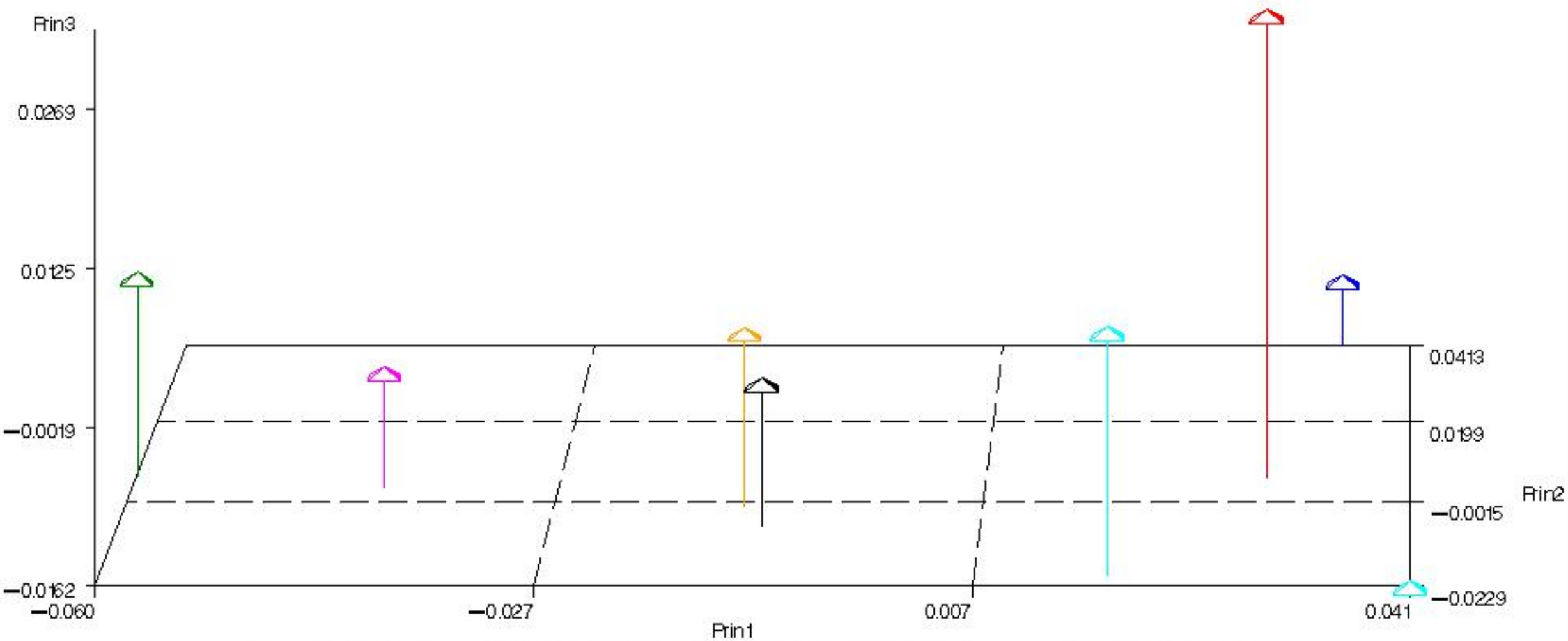
White Sucker: Fish Carcass Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

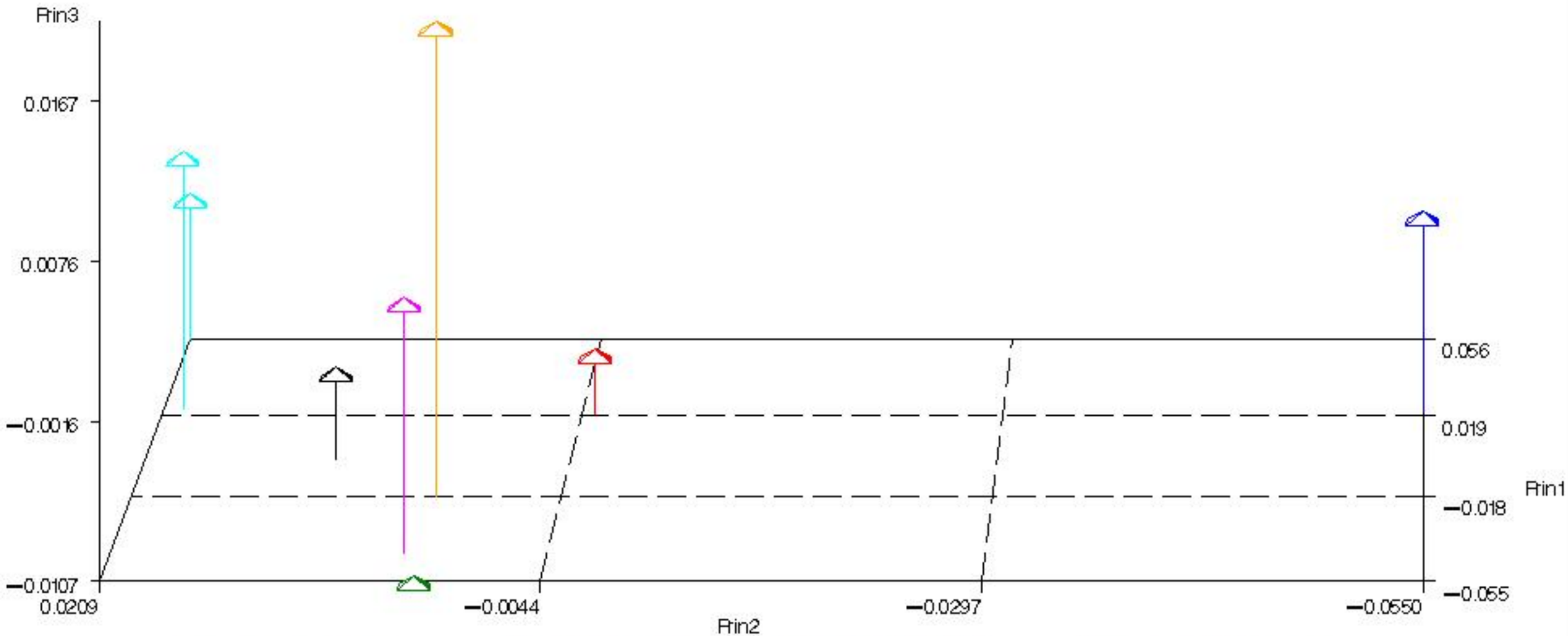
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

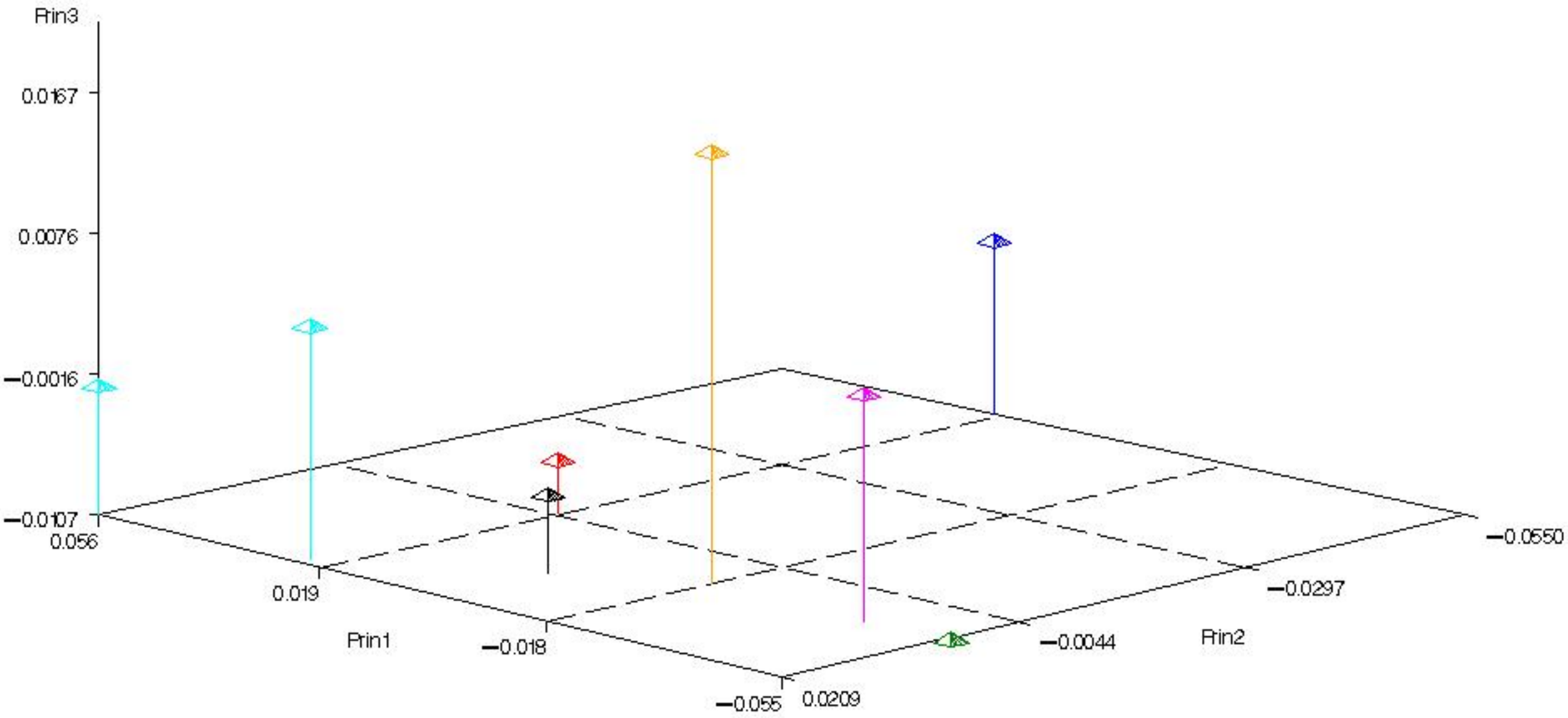
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



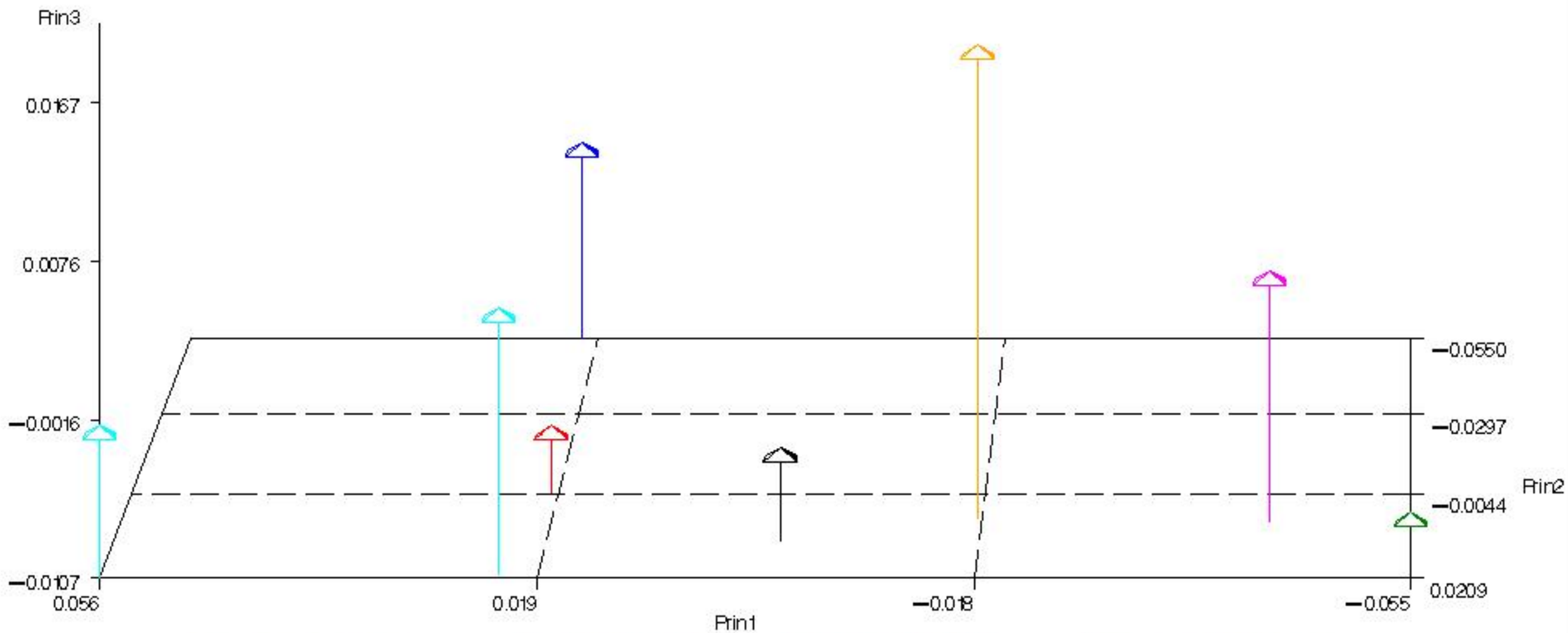
Location 1: Blue Location 2: Cyan Location 3: Red Location 4: Orange

Location 5: Magenta Location 6: Black Location 7: Green

White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

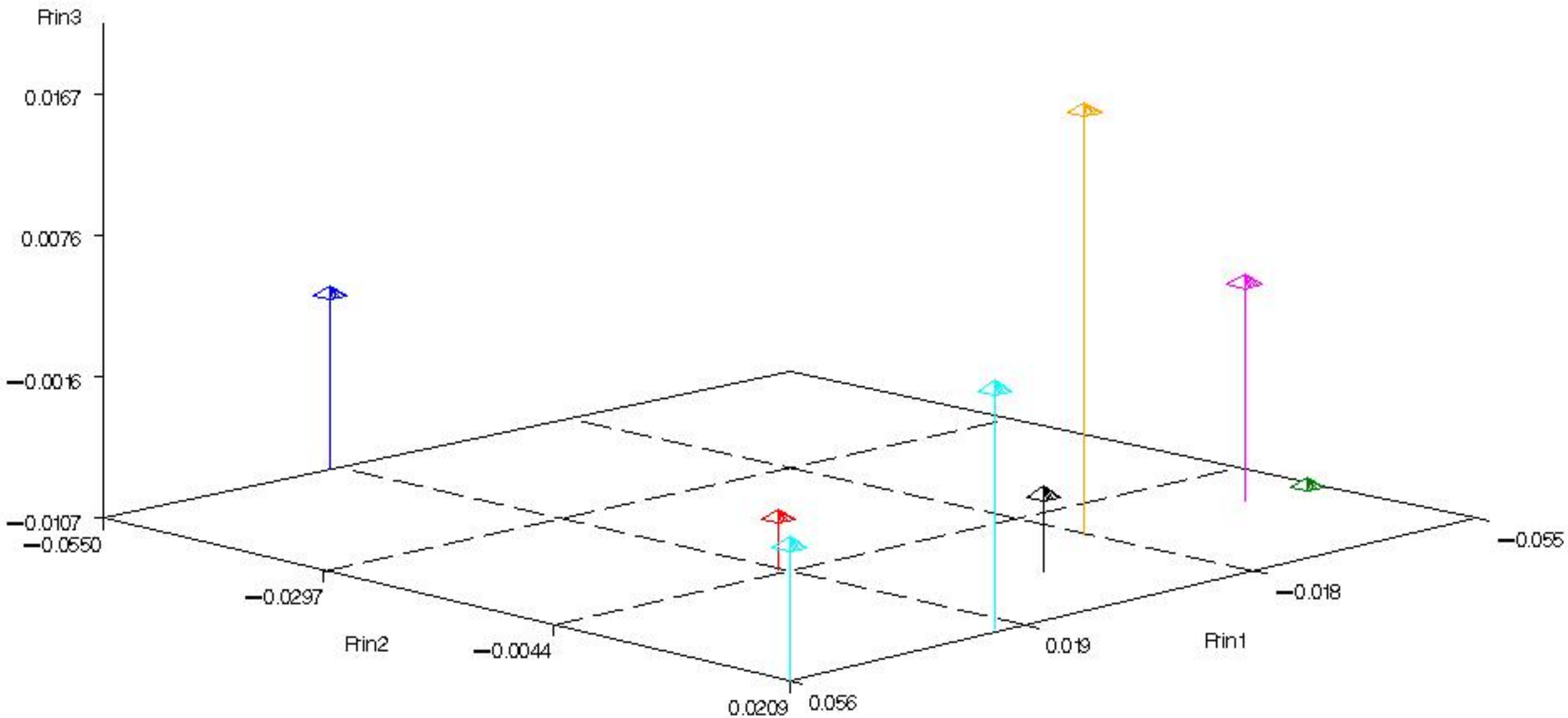
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



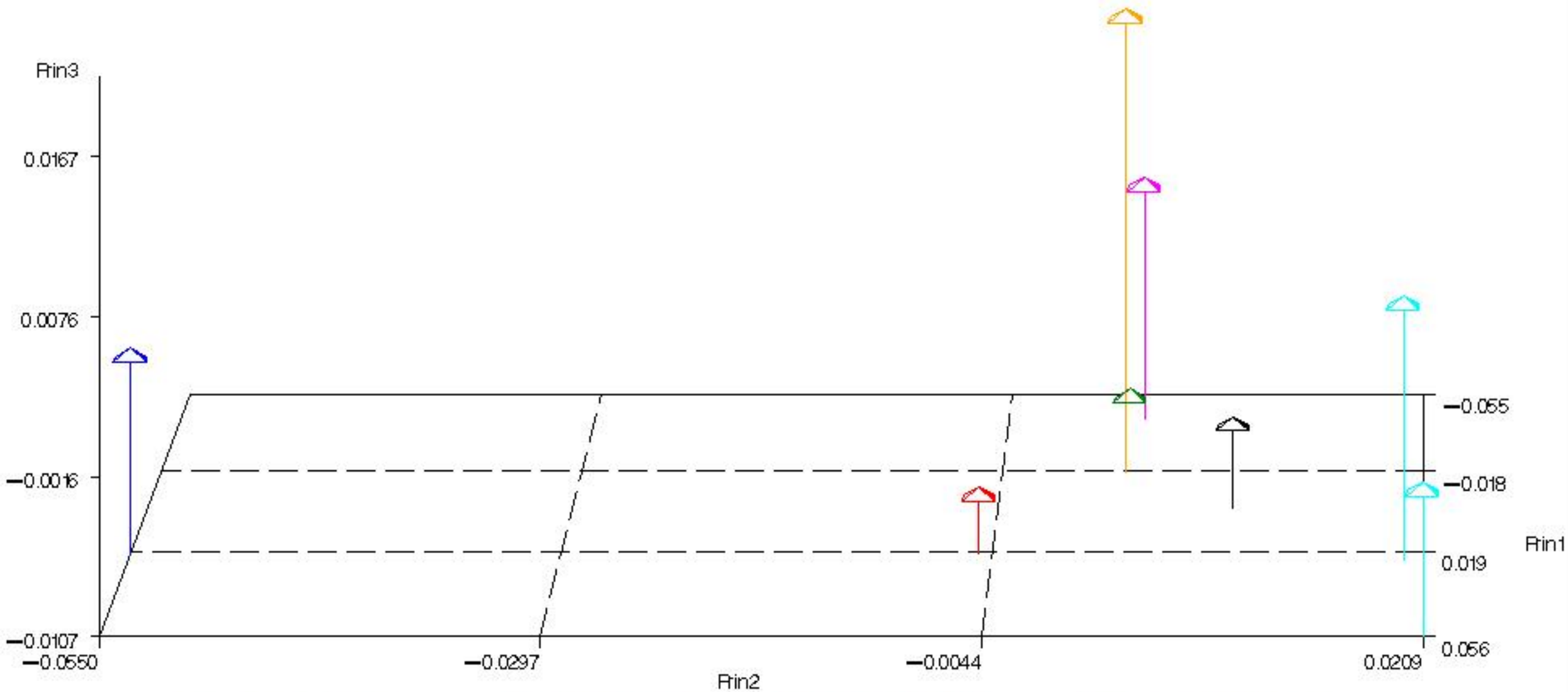
Location 1: Blue Location 2: Cyan Location 3: Red Location 4: Orange

Location 5: Magenta Location 6: Black Location 7: Green

White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

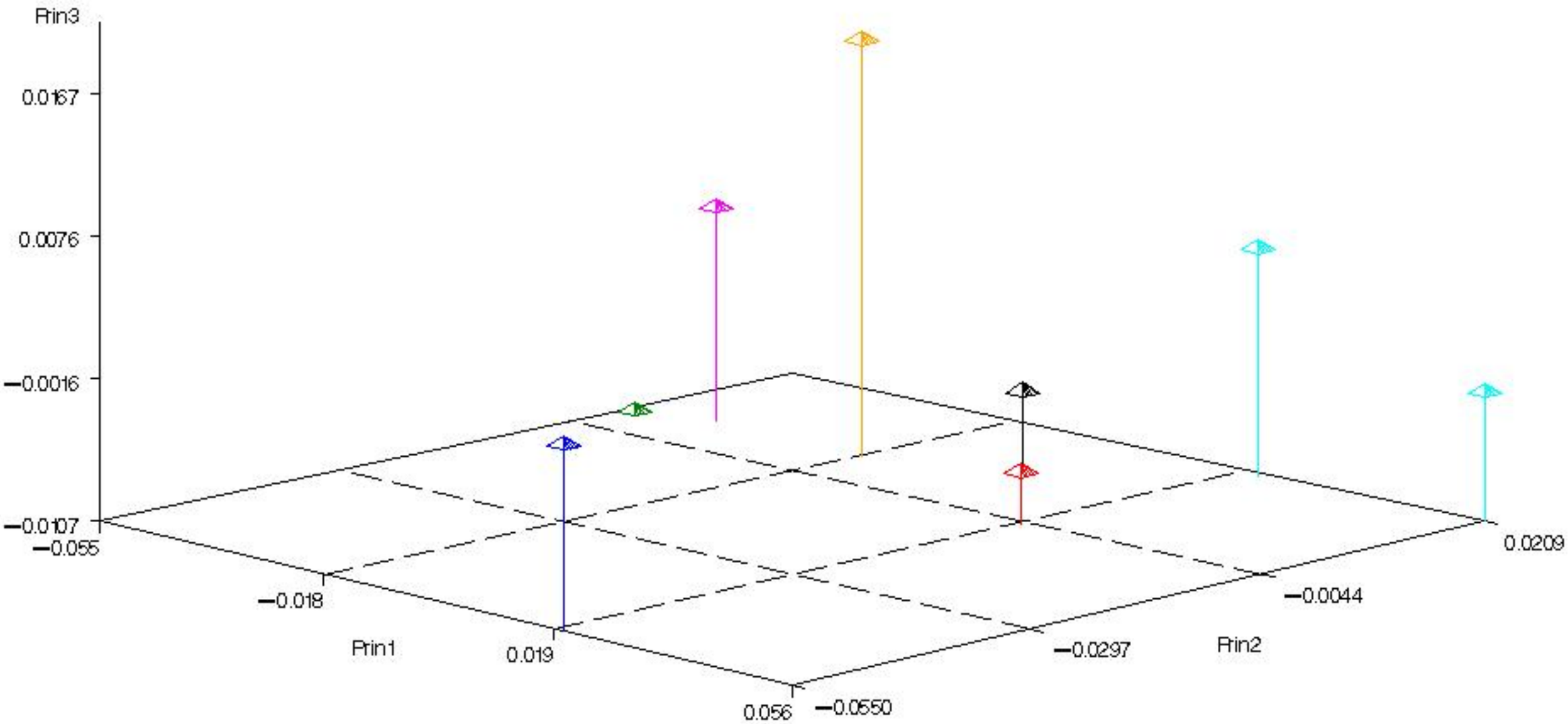
Cornell−Dubilier Site, WA #0−360



White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Location 1: Blue Location 2: Cyan Location 3: Red Location 4: Orange

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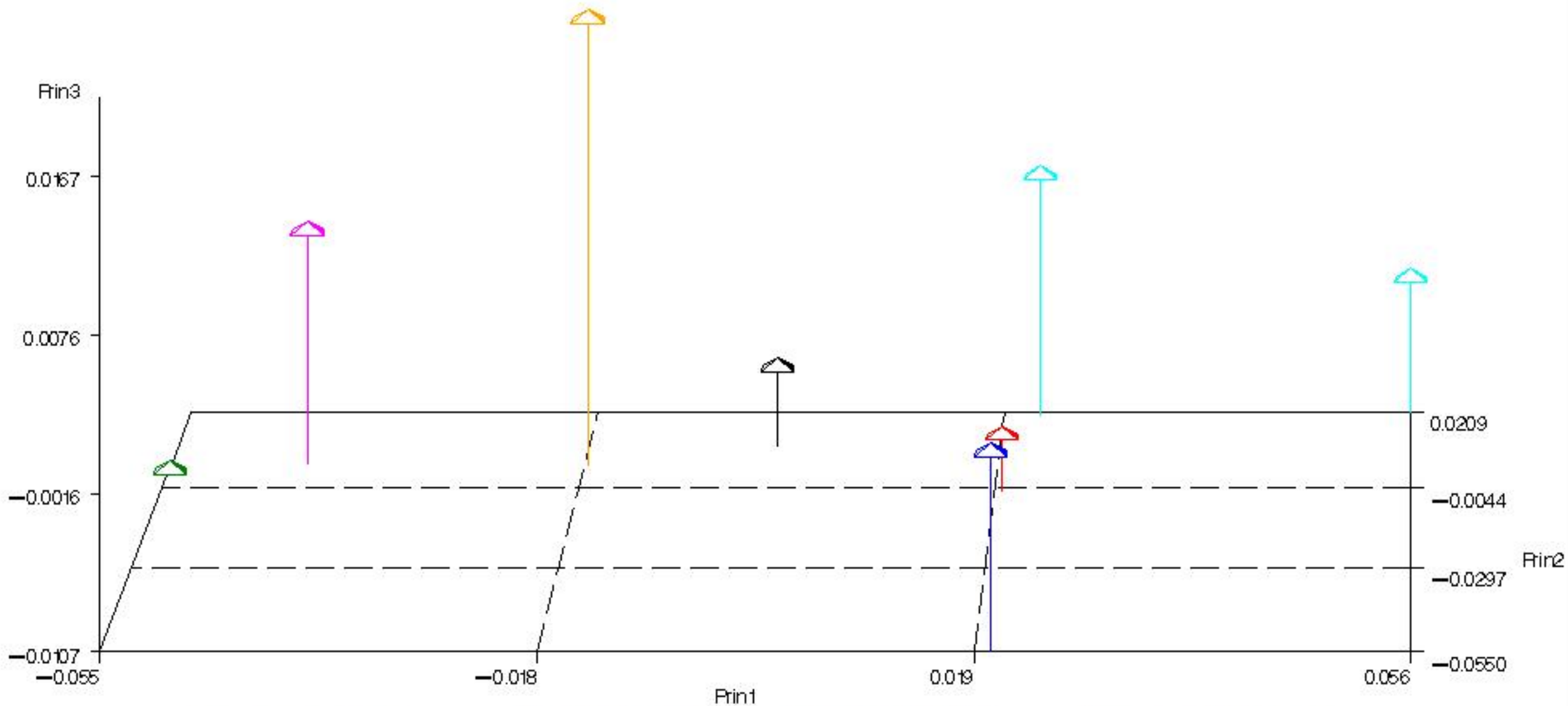
White Sucker: Fish Fillet Congeners Standardized to Percent of Total PCBs ng/Kg Wet Weight

PCA Run Using the Covariance Matrix

Cornell−Dubilier Site, WA #0−360



Location 1: Blue Location 2: Cyan Location 3: Red Location 4: Orange

Location 5: Magenta Location 6: Black Location 7: Green

07/13/09 09:58:56
Asiatic Clams - Original Concs. w/NDs Set to Zero

Number of Variables 149
Number of Samples 5
Cum sums sqrs 100.0
Data transformation option 2
Print Option . . . . . minimal
Proportion to constant sum of 100 option . . Y
Manually defined range. . . . . no

The data will be proportioned to a constant sum of 100.
Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	1	2	3	4	5	6	7
1-AC-3	4.96	0.00	1.66	244.00	0.00	41.50	3.25
2-AC-3	869.00	6.40	94.90	37300.00	11.50	1050.00	112.00
3-AC-3	819.00	0.00	92.60	32000.00	106.00	2580.00	209.00
4-AC-3	513.00	0.00	31.50	14200.00	31.70	1040.00	71.50
5-AC-3	578.00	6.11	35.50	29900.00	41.00	2020.00	135.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	8	9	10	11	12	13	14
1-AC-3	54.20	4.30	9.14	7.63	36.60	245.00	301.00
2-AC-3	1650.00	78.00	1580.00	1740.00	2060.00	1540.00	13300.00
3-AC-3	5450.00	328.00	1430.00	1390.00	3580.00	6090.00	14700.00
4-AC-3	1710.00	107.00	666.00	582.00	1110.00	2400.00	7830.00
5-AC-3	2870.00	210.00	1360.00	1390.00	2810.00	5970.00	19900.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	15	16	17	18	19	20	21
1-AC-3	650.00	126.00	643.00	123.00	246.00	0.00	8.23
2-AC-3	5140.00	17100.00	5990.00	300.00	896.00	0.00	0.00
3-AC-3	16700.00	15000.00	17200.00	2360.00	4040.00	10.60	0.00
4-AC-3	8340.00	7300.00	7050.00	935.00	1830.00	4.07	0.00
5-AC-3	22200.00	16300.00	20500.00	2280.00	4650.00	12.70	0.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	22	23	24	25	26	27	28
1-AC-3	184.00	391.00	153.00	329.00	235.00	0.00	10.10
2-AC-3	3830.00	3830.00	34400.00	2140.00	6390.00	120.00	35.20
3-AC-3	4770.00	6930.00	22000.00	8720.00	8910.00	153.00	106.00
4-AC-3	4000.00	7080.00	22200.00	4160.00	5390.00	82.70	50.20
5-AC-3	11000.00	21300.00	49500.00	11400.00	12900.00	238.00	148.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	29	30	31	32	33	34	35
1-AC-3	125.00	0.00	7.72	1300.00	1240.00	62.70	4280.00
2-AC-3	856.00	0.00	65.00	16900.00	14200.00	801.00	72300.00
3-AC-3	2840.00	38.00	103.00	22000.00	15600.00	968.00	83900.00
4-AC-3	1070.00	71.40	47.10	12600.00	11300.00	550.00	52300.00
5-AC-3	3330.00	174.00	139.00	37300.00	32800.00	1730.00	149000.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	36	37	38	39	40	41	42
1-AC-3	678.00	171.00	274.00	1720.00	1180.00	4400.00	6.79
2-AC-3	14900.00	2650.00	1770.00	38200.00	30600.00	68200.00	1200.00
3-AC-3	14900.00	3230.00	3290.00	48600.00	24800.00	86100.00	1010.00
4-AC-3	9900.00	3170.00	1270.00	45200.00	29300.00	61700.00	820.00

5-AC-3	27500.00	7700.00	3790.00	126000.00	71100.00	178000.00	2050.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	43	44	45	46	47	48	49
1-AC-3	641.00	24.80	19.20	307.00	199.00	2470.00	60.10
2-AC-3	3880.00	170.00	177.00	1780.00	1110.00	33200.00	886.00
3-AC-3	7930.00	456.00	247.00	3740.00	2910.00	53500.00	1440.00
4-AC-3	3730.00	939.00	267.00	6700.00	995.00	24600.00	873.00
5-AC-3	10400.00	2530.00	793.00	16700.00	3070.00	71700.00	2590.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	50	51	52	53	54	55	56
1-AC-3	795.00	1430.00	77.50	30.50	49.50	0.00	140.00
2-AC-3	5880.00	22700.00	537.00	1540.00	1120.00	0.00	413.00
3-AC-3	13600.00	34300.00	1220.00	1590.00	1400.00	1230.00	1360.00
4-AC-3	7800.00	17500.00	1040.00	1590.00	2180.00	0.00	583.00
5-AC-3	21700.00	51600.00	3150.00	4540.00	6190.00	0.00	1950.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	57	58	59	60	61	62	63
1-AC-3	76.90	8.68	591.00	467.00	1770.00	1150.00	4770.00
2-AC-3	1010.00	44.80	6270.00	3780.00	18500.00	14300.00	65000.00
3-AC-3	1080.00	93.90	9640.00	7240.00	26300.00	22200.00	86900.00
4-AC-3	573.00	33.60	4090.00	4120.00	14800.00	10600.00	43900.00
5-AC-3	1600.00	98.10	11300.00	11600.00	42300.00	30500.00	128000.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	64	65	66	67	68	69	70
1-AC-3	1310.00	87.70	7680.00	1810.00	420.00	54.70	9510.00
2-AC-3	13300.00	443.00	101000.00	19500.00	6390.00	1450.00	94500.00
3-AC-3	19400.00	716.00	145000.00	29200.00	7620.00	1570.00	116000.00
4-AC-3	12400.00	332.00	75600.00	18700.00	4340.00	970.00	78400.00
5-AC-3	36000.00	944.00	218000.00	55800.00	12700.00	2780.00	215000.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	71	72	73	74	75	76	77
1-AC-3	57.90	3690.00	70.40	0.00	1460.00	227.00	333.00
2-AC-3	678.00	56700.00	1080.00	93.00	24600.00	2830.00	5380.00
3-AC-3	877.00	76300.00	1420.00	83.80	36900.00	3980.00	7870.00
4-AC-3	671.00	45300.00	1240.00	57.40	15600.00	1940.00	4630.00
5-AC-3	1870.00	131000.00	3600.00	171.00	42600.00	5850.00	13100.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	78	79	80	81	82	83	84
1-AC-3	9210.00	4.32	80.20	6900.00	25.30	0.00	71.60
2-AC-3	102000.00	73.50	1370.00	110000.00	248.00	35.80	707.00
3-AC-3	143000.00	88.00	2180.00	146000.00	435.00	43.10	1070.00
4-AC-3	82200.00	159.00	793.00	79000.00	537.00	49.50	476.00
5-AC-3	235000.00	462.00	2420.00	215000.00	1540.00	148.00	1400.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	85	86	87	88	89	90	91
1-AC-3	160.00	7.81	1230.00	11300.00	620.00	179.00	2910.00
2-AC-3	1380.00	66.20	9120.00	76500.00	4360.00	1340.00	21000.00
3-AC-3	2130.00	97.10	27200.00	196000.00	10400.00	2800.00	45900.00
4-AC-3	1140.00	41.80	10100.00	79400.00	4120.00	1080.00	19600.00
5-AC-3	3420.00	143.00	27900.00	218000.00	11900.00	3080.00	53500.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	92	93	94	95	96	97	98
1-AC-3	157.00	505.00	4100.00	1090.00	238.00	179.00	297.00
2-AC-3	939.00	3810.00	16600.00	7000.00	2440.00	1610.00	1690.00
3-AC-3	2210.00	8510.00	49500.00	16900.00	3780.00	3430.00	3870.00
4-AC-3	1210.00	3950.00	20100.00	7540.00	1590.00	1580.00	1010.00
5-AC-3	3400.00	10600.00	57500.00	21200.00	5310.00	4420.00	3410.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	99	100	101	102	103	104	105
1-AC-3	0.00	481.00	3.33	1750.00	8540.00	11.80	10.30
2-AC-3	0.00	2210.00	33.00	8940.00	46200.00	107.00	100.00
3-AC-3	15.70	6640.00	62.40	24000.00	114000.00	180.00	180.00
4-AC-3	0.00	2210.00	28.80	10400.00	49700.00	99.30	101.00
5-AC-3	0.00	6420.00	77.90	28900.00	143000.00	271.00	293.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	106	107	108	109	110	111	112
1-AC-3	9.74	17200.00	91.60	0.00	526.00	1010.00	0.00
2-AC-3	122.00	90400.00	770.00	7.85	5620.00	7480.00	0.00
3-AC-3	194.00	231000.00	1540.00	0.00	9230.00	20500.00	15.80
4-AC-3	89.50	110000.00	906.00	5.48	4650.00	7260.00	0.00
5-AC-3	265.00	282000.00	2480.00	12.70	13800.00	20500.00	0.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	113	114	115	116	117	118	119
1-AC-3	31.20	442.00	3.85	694.00	3.10	405.00	647.00
2-AC-3	124.00	2510.00	22.20	5190.00	26.40	1030.00	1540.00
3-AC-3	199.00	6540.00	40.60	8378.00	163.00	4590.00	11100.00
4-AC-3	145.00	2240.00	80.80	5400.00	8.13	1360.00	2810.00
5-AC-3	327.00	6950.00	220.00	14200.00	16.20	4260.00	7160.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	120	121	122	123	124	125	126
1-AC-3	56.40	544.00	110.00	309.00	1220.00	552.00	956.00
2-AC-3	103.00	771.00	155.00	503.00	2040.00	688.00	1240.00
3-AC-3	372.00	4050.00	1110.00	3520.00	16500.00	4950.00	8780.00
4-AC-3	119.00	1040.00	277.00	937.00	3990.00	1370.00	2410.00
5-AC-3	390.00	3270.00	742.00	2460.00	10200.00	3560.00	6380.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	127	128	129	130	131	132	133
1-AC-3	2270.00	16.90	4.62	1490.00	0.00	3360.00	3.35
2-AC-3	3450.00	106.00	16.60	2180.00	7.32	3890.00	10.30
3-AC-3	17700.00	294.00	55.30	19000.00	15.20	34700.00	16.80
4-AC-3	5910.00	119.00	15.60	4660.00	7.37	8620.00	10.10
5-AC-3	15500.00	337.00	52.40	12200.00	22.30	21700.00	24.40

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	134	135	136	137	138	139	140
1-AC-3	13.30	295.00	54.10	43.30	162.00	125.00	82.80
2-AC-3	45.40	685.00	112.00	36.30	128.00	81.70	54.40
3-AC-3	148.00	2770.00	812.00	183.00	1800.00	811.00	542.00
4-AC-3	53.50	1330.00	203.00	69.80	433.00	216.00	145.00
5-AC-3	166.00	3280.00	550.00	193.00	1070.00	614.00	376.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	141	142	143	144	145	146	147
1-AC-3	241.00	143.00	202.00	466.00	22.60	62.10	13.50
2-AC-3	166.00	89.40	144.00	369.00	19.90	56.30	13.10
3-AC-3	890.00	956.00	954.00	3610.00	283.00	232.00	52.20
4-AC-3	287.00	245.00	293.00	1030.00	68.60	85.90	18.70
5-AC-3	800.00	593.00	699.00	2460.00	153.00	221.00	46.10

Asiatic Clams - Original Concs. w/NDs Set to Zero

The following are the input vectors

	148	149
1-AC-3	28.40	28.30
2-AC-3	24.00	26.00
3-AC-3	59.20	31.30
4-AC-3	26.30	17.90
5-AC-3	67.70	43.70

Asiatic Clams - Original Concs. w/NDs Set to Zero

General Statistics for Untransformed data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.03	0.02	0.00	0.06
2	PCB_2	0.00	0.00	0.00	0.00
3	PCB_3	0.00	0.00	0.00	0.01
4	PCB_4	1.20	0.78	0.17	2.54
5	PCB_5	0.00	0.00	0.00	0.00
6	PCB_6	0.07	0.03	0.03	0.11
7	PCB_7	0.01	0.00	0.00	0.01
8	PCB_8	0.12	0.06	0.04	0.22
9	PCB_9	0.01	0.00	0.00	0.01
10	PCB_10	0.05	0.03	0.01	0.11
11	PCB_12_13	0.05	0.04	0.01	0.12
12	PCB_15	0.10	0.04	0.03	0.15
13	PCB_16	0.18	0.05	0.11	0.25
14	PCB_17	0.58	0.22	0.21	0.91
15	PCB_18_30	0.55	0.13	0.35	0.69
16	PCB_19	0.58	0.35	0.09	1.17
17	PCB_20_28	0.54	0.11	0.41	0.71
18	PCB_21_33	0.07	0.03	0.02	0.10
19	PCB_22	0.13	0.04	0.06	0.17
20	PCB_23	0.00	0.00	0.00	0.00
21	PCB_24	0.00	0.00	0.00	0.01
22	PCB_25	0.24	0.07	0.13	0.31
23	PCB_26_29	0.39	0.15	0.26	0.60
24	PCB_27	1.30	0.76	0.11	2.35
25	PCB_31	0.28	0.08	0.15	0.36
26	PCB_32	0.35	0.10	0.16	0.44
27	PCB_34	0.01	0.00	0.00	0.01
28	PCB_35	0.00	0.00	0.00	0.01
29	PCB_37	0.09	0.02	0.06	0.12
30	PCB_38	0.00	0.00	0.00	0.01
31	PCB_39	0.00	0.00	0.00	0.01
32	PCB_40_41_71	1.00	0.10	0.89	1.15
33	PCB_42	0.85	0.11	0.64	0.97
34	PCB_43	0.05	0.01	0.04	0.05
35	PCB_44_47_65	3.92	0.68	2.95	4.93
36	PCB_45_51	0.73	0.18	0.47	1.02
37	PCB_46	0.18	0.05	0.12	0.25
38	PCB_48	0.13	0.03	0.10	0.19
39	PCB_49_69	2.57	0.91	1.18	3.56
40	PCB_50_53	1.64	0.60	0.81	2.28
41	PCB_52	4.21	0.78	3.03	5.03
42	PCB_54	0.05	0.03	0.00	0.08
43	PCB_56	0.32	0.06	0.26	0.44
44	PCB_57	0.04	0.03	0.01	0.07
45	PCB_58	0.02	0.00	0.01	0.02
46	PCB_59_62_75	0.30	0.17	0.12	0.52

47	PCB_60	0.10	0.02	0.08	0.14
48	PCB_61_70_74_76	2.02	0.20	1.70	2.26
49	PCB_63	0.06	0.01	0.04	0.07
50	PCB_64	0.55	0.08	0.40	0.61
51	PCB_66	1.35	0.19	0.98	1.55
52	PCB_67	0.06	0.02	0.04	0.09
53	PCB_68	0.09	0.04	0.02	0.13
54	PCB_72	0.10	0.06	0.03	0.17
55	PCB_73	0.01	0.02	0.00	0.05
56	PCB_77	0.06	0.02	0.03	0.10
57	PCB_79	0.05	0.01	0.04	0.07
58	PCB_81	0.00	0.00	0.00	0.01
59	PCB_82	0.37	0.05	0.32	0.43
60	PCB_83	0.31	0.03	0.26	0.33
61	PCB_84	1.18	0.06	1.08	1.26
62	PCB_85_117_116	0.87	0.06	0.79	0.98
63	Coplanar1	3.66	0.40	3.28	4.43
64	PCB_88_91	0.92	0.07	0.80	1.02
65	PCB_89	0.03	0.01	0.03	0.06
66	PCB_90_101_113	6.03	0.52	5.29	6.89
67	PCB_92	1.36	0.14	1.20	1.58
68	Coplanar2	0.35	0.05	0.29	0.44
69	PCB_94	0.07	0.02	0.04	0.10
70	PCB_95	5.99	0.64	4.76	6.55
71	PCB_96	0.05	0.01	0.04	0.05
72	PCB_99	3.35	0.47	2.54	3.87
73	PCB_103	0.08	0.02	0.05	0.10
74	PCB_104	0.00	0.00	0.00	0.01
75	PCB_105	1.32	0.24	1.00	1.68
76	PCB_107_124	0.17	0.01	0.15	0.19
77	PCB_109	0.33	0.05	0.23	0.37
78	PCB_110_115	6.44	0.36	5.87	6.96
79	PCB_111	0.01	0.00	0.00	0.01
80	PCB_114	0.07	0.02	0.06	0.09
81	PCB_118	6.09	0.87	4.75	7.50
82	PCB_120	0.03	0.01	0.02	0.04
83	PCB_121	0.00	0.00	0.00	0.00
84	PCB_122	0.04	0.00	0.04	0.05
85	PCB_123	0.10	0.01	0.09	0.11
86	PCB_127	0.00	0.00	0.00	0.01
87	PCB_128_166	0.83	0.16	0.62	1.12
88	PCB_129_138_163	6.68	1.07	5.22	8.04
89	PCB_130	0.36	0.05	0.30	0.43
90	PCB_131	0.10	0.02	0.08	0.12
91	PCB_132	1.67	0.23	1.43	2.00
92	PCB_133	0.09	0.01	0.06	0.11
93	PCB_134_143	0.31	0.03	0.26	0.35
94	PCB_135_151	1.84	0.57	1.13	2.82
95	PCB_136	0.62	0.09	0.48	0.75
96	PCB_137	0.15	0.02	0.12	0.17
97	PCB_139_140	0.12	0.01	0.11	0.14
98	PCB_141	0.13	0.05	0.08	0.20
99	PCB_142	0.00	0.00	0.00	0.00
100	PCB_144	0.22	0.07	0.15	0.33
101	PCB_145	0.00	0.00	0.00	0.00
102	PCB_146	0.89	0.20	0.61	1.20
103	PCB_147_149	4.32	0.92	3.15	5.88
104	PCB_148	0.01	0.00	0.01	0.01
105	PCB_150	0.01	0.00	0.01	0.01
106	PCB_152	0.01	0.00	0.01	0.01
107	PCB_153_168	8.80	1.86	6.16	11.84
108	PCB_154	0.06	0.01	0.05	0.07
109	PCB_155	0.00	0.00	0.00	0.00
110	PCB_156_57	0.38	0.01	0.36	0.39
111	PCB_158	0.64	0.12	0.51	0.84
112	PCB_159	0.00	0.00	0.00	0.00
113	PCB_162	0.01	0.00	0.01	0.02
114	PCB_164	0.22	0.05	0.17	0.30
115	PCB_165	0.00	0.00	0.00	0.01
116	PCB_167	0.40	0.05	0.34	0.48
117	PCB_169	0.00	0.00	0.00	0.01

118	PCB_170	0.15	0.07	0.07	0.28
119	PCB_171_173	0.29	0.14	0.11	0.46
120	PCB_172	0.02	0.01	0.01	0.04
121	PCB_174	0.15	0.12	0.05	0.37
122	PCB_175	0.03	0.02	0.01	0.08
123	PCB_176	0.11	0.06	0.03	0.21
124	PCB_177	0.45	0.26	0.14	0.84
125	PCB_178	0.17	0.12	0.05	0.38
126	PCB_179	0.29	0.20	0.08	0.66
127	PCB_180_193	0.68	0.47	0.24	1.56
128	PCB_181	0.01	0.00	0.01	0.01
129	PCB_182	0.00	0.00	0.00	0.00
130	PCB_183_185	0.53	0.32	0.15	1.03
131	PCB_184	0.00	0.00	0.00	0.00
132	PCB_187	1.06	0.73	0.27	2.31
133	PCB_188	0.00	0.00	0.00	0.00
134	PCB_189	0.01	0.00	0.00	0.01
135	PCB_190	0.11	0.05	0.05	0.20
136	PCB_191	0.02	0.01	0.01	0.04
137	PCB_194	0.01	0.01	0.00	0.03
138	PCB_195	0.05	0.04	0.01	0.11
139	PCB_196	0.03	0.03	0.01	0.09
140	PCB_197_200	0.02	0.02	0.00	0.06
141	PCB_198_199	0.05	0.06	0.01	0.17
142	PCB_201	0.04	0.03	0.01	0.10
143	PCB_202	0.05	0.05	0.01	0.14
144	PCB_203	0.13	0.10	0.03	0.32
145	PCB_205	0.01	0.01	0.00	0.02
146	PCB_206	0.01	0.01	0.00	0.04
147	PCB_207	0.00	0.00	0.00	0.01
148	PCB_208	0.01	0.01	0.00	0.02
149	PCB_209	0.01	0.01	0.00	0.02

Variables transformed to interval of their range
Asiatic Clams - Original Concs. w/NDs Set to Zero

General Statistics for Transformed Data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.49	0.35	0.00	1.00
2	PCB_2	0.28	0.39	0.00	1.00
3	PCB_3	0.36	0.37	-0.00	1.00
4	PCB_4	0.43	0.33	0.00	1.00
5	PCB_5	0.40	0.35	0.00	1.00
6	PCB_6	0.52	0.33	0.00	1.00
7	PCB_7	0.53	0.37	0.00	1.00
8	PCB_8	0.43	0.33	0.00	1.00
9	PCB_9	0.40	0.34	-0.00	1.00
10	PCB_10	0.46	0.32	0.00	1.00
11	PCB_12_13	0.42	0.33	-0.00	1.00
12	PCB_15	0.58	0.37	-0.00	1.00
13	PCB_16	0.49	0.32	0.00	1.00
14	PCB_17	0.53	0.32	0.00	1.00
15	PCB_18_30	0.60	0.39	0.00	1.00
16	PCB_19	0.46	0.32	-0.00	1.00
17	PCB_20_28	0.43	0.36	0.00	1.00
18	PCB_21_33	0.62	0.34	-0.00	1.00
19	PCB_22	0.67	0.36	0.00	1.00
20	PCB_23	0.51	0.43	0.00	1.00
21	PCB_24	0.20	0.40	0.00	1.00
22	PCB_25	0.62	0.38	0.00	1.00
23	PCB_26_29	0.39	0.44	-0.00	1.00
24	PCB_27	0.53	0.34	0.00	1.00
25	PCB_31	0.61	0.37	-0.00	1.00
26	PCB_32	0.69	0.36	-0.00	1.00
27	PCB_34	0.68	0.35	0.00	1.00
28	PCB_35	0.43	0.32	-0.00	1.00
29	PCB_37	0.50	0.32	-0.00	1.00
30	PCB_38	0.43	0.43	0.00	1.00
31	PCB_39	0.39	0.34	-0.00	1.00

32	PCB_40_41_71	0.40	0.38	0.00	1.00
33	PCB_42	0.65	0.35	0.00	1.00
34	PCB_43	0.41	0.35	0.00	1.00
35	PCB_44_47_65	0.49	0.34	-0.00	1.00
36	PCB_45_51	0.48	0.33	-0.00	1.00
37	PCB_46	0.47	0.38	-0.00	1.00
38	PCB_48	0.35	0.35	-0.00	1.00
39	PCB_49_69	0.59	0.38	-0.00	1.00
40	PCB_50_53	0.56	0.41	-0.00	1.00
41	PCB_52	0.59	0.39	0.00	1.00
42	PCB_54	0.59	0.34	-0.00	1.00
43	PCB_56	0.33	0.35	0.00	1.00
44	PCB_57	0.44	0.45	0.00	1.00
45	PCB_58	0.46	0.40	-0.00	1.00
46	PCB_59_62_75	0.44	0.42	-0.00	1.00
47	PCB_60	0.38	0.40	0.00	1.00
48	PCB_61_70_74_76	0.57	0.36	0.00	1.00
49	PCB_63	0.60	0.34	0.00	1.00
50	PCB_64	0.68	0.36	0.00	1.00
51	PCB_66	0.65	0.34	-0.00	1.00
52	PCB_67	0.49	0.38	-0.00	1.00
53	PCB_68	0.63	0.38	0.00	1.00
54	PCB_72	0.49	0.42	0.00	1.00
55	PCB_73	0.20	0.40	0.00	1.00
56	PCB_77	0.41	0.33	0.00	1.00
57	PCB_79	0.28	0.38	0.00	1.00
58	PCB_81	0.31	0.37	-0.00	1.00
59	PCB_82	0.50	0.42	0.00	1.00
60	PCB_83	0.68	0.37	-0.00	1.00
61	PCB_84	0.56	0.34	-0.00	1.00
62	PCB_85_117_116	0.44	0.35	-0.00	1.00
63	Coplanar1	0.33	0.35	-0.00	1.00
64	PCB_88_91	0.55	0.34	0.00	1.00
65	PCB_89	0.25	0.38	-0.00	1.00
66	PCB_90_101_113	0.47	0.32	0.00	1.00
67	PCB_92	0.43	0.37	0.00	1.00
68	Coplanar2	0.39	0.34	-0.00	1.00
69	PCB_94	0.54	0.33	0.00	1.00
70	PCB_95	0.69	0.36	-0.00	1.00
71	PCB_96	0.56	0.40	0.00	1.00
72	PCB_99	0.61	0.36	-0.00	1.00
73	PCB_103	0.51	0.39	-0.00	1.00
74	PCB_104	0.60	0.33	0.00	1.00
75	PCB_105	0.47	0.36	-0.00	1.00
76	PCB_107_124	0.35	0.35	0.00	1.00
77	PCB_109	0.72	0.38	0.00	1.00
78	PCB_110_115	0.53	0.33	-0.00	1.00
79	PCB_111	0.44	0.44	0.00	1.00
80	PCB_114	0.48	0.40	0.00	1.00
81	PCB_118	0.49	0.32	0.00	1.00
82	PCB_120	0.40	0.47	0.00	1.00
83	PCB_121	0.59	0.36	0.00	1.00
84	PCB_122	0.53	0.39	-0.00	1.00
85	PCB_123	0.35	0.36	-0.00	1.00
86	PCB_127	0.46	0.33	0.00	1.00
87	PCB_128_166	0.43	0.32	0.00	1.00
88	PCB_129_138_163	0.52	0.38	0.00	1.00
89	PCB_130	0.50	0.42	-0.00	1.00
90	PCB_131	0.41	0.41	0.00	1.00
91	PCB_132	0.42	0.40	0.00	1.00
92	PCB_133	0.60	0.33	0.00	1.00
93	PCB_134_143	0.59	0.37	0.00	1.00
94	PCB_135_151	0.42	0.34	-0.00	1.00
95	PCB_136	0.53	0.34	0.00	1.00
96	PCB_137	0.66	0.36	0.00	1.00
97	PCB_139_140	0.47	0.32	-0.00	1.00
98	PCB_141	0.41	0.36	0.00	1.00
99	PCB_142	0.20	0.40	0.00	1.00
100	PCB_144	0.39	0.38	0.00	1.00
101	PCB_145	0.30	0.36	-0.00	1.00
102	PCB_146	0.46	0.33	-0.00	1.00

103	PCB_147_149	0.43	0.34	0.00	1.00
104	PCB_148	0.42	0.35	-0.00	1.00
105	PCB_150	0.46	0.36	-0.00	1.00
106	PCB_152	0.49	0.37	-0.00	1.00
107	PCB_153_168	0.47	0.33	-0.00	1.00
108	PCB_154	0.63	0.36	0.00	1.00
109	PCB_155	0.49	0.42	0.00	1.00
110	PCB_156_57	0.48	0.40	0.00	1.00
111	PCB_158	0.39	0.36	0.00	1.00
112	PCB_159	0.20	0.40	0.00	1.00
113	PCB_162	0.27	0.38	-0.00	1.00
114	PCB_164	0.39	0.40	-0.00	1.00
115	PCB_165	0.45	0.45	0.00	1.00
116	PCB_167	0.42	0.36	0.00	1.00
117	PCB_169	0.30	0.36	0.00	1.00
118	PCB_170	0.40	0.35	0.00	1.00
119	PCB_171_173	0.51	0.40	0.00	1.00
120	PCB_172	0.29	0.36	0.00	1.00
121	PCB_174	0.31	0.36	-0.00	1.00
122	PCB_175	0.37	0.36	-0.00	1.00
123	PCB_176	0.41	0.36	0.00	1.00
124	PCB_177	0.45	0.38	-0.00	1.00
125	PCB_178	0.36	0.35	-0.00	1.00
126	PCB_179	0.37	0.35	-0.00	1.00
127	PCB_180_193	0.34	0.35	0.00	1.00
128	PCB_181	0.56	0.36	-0.00	1.00
129	PCB_182	0.35	0.38	-0.00	1.00
130	PCB_183_185	0.44	0.37	-0.00	1.00
131	PCB_184	0.74	0.38	0.00	1.00
132	PCB_187	0.39	0.36	-0.00	1.00
133	PCB_188	0.21	0.39	-0.00	1.00
134	PCB_189	0.39	0.35	-0.00	1.00
135	PCB_190	0.42	0.33	0.00	1.00
136	PCB_191	0.48	0.38	0.00	1.00
137	PCB_194	0.28	0.36	-0.00	1.00
138	PCB_195	0.42	0.36	0.00	1.00
139	PCB_196	0.33	0.35	0.00	1.00
140	PCB_197_200	0.32	0.36	-0.00	1.00
141	PCB_198_199	0.26	0.37	-0.00	1.00
142	PCB_201	0.32	0.36	-0.00	1.00
143	PCB_202	0.28	0.37	0.00	1.00
144	PCB_203	0.35	0.35	-0.00	1.00
145	PCB_205	0.44	0.36	-0.00	1.00
146	PCB_206	0.26	0.37	0.00	1.00
147	PCB_207	0.25	0.38	-0.00	1.00
148	PCB_208	0.22	0.39	-0.00	1.00
149	PCB_209	0.21	0.40	-0.00	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

No.	Eigenvalue	Cum. Var
1	3.2280	64.56
2	0.9581	83.72
3	0.4591	92.91
4	0.3138	99.18
5	0.0409	100.00
6	0.0000	100.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 1	PCB_1	0.62	0.81	0.83
Var 2	PCB_2	0.47	0.76	0.94
Var 3	PCB_3	0.30	0.91	0.92
Var 4	PCB_4	0.62	0.97	0.98
Var 5	PCB_5	-0.01	-0.00	0.97
Var 6	PCB_6	0.18	0.21	0.95
Var 7	PCB_7	0.25	0.51	0.95
Var 8	PCB_8	0.04	0.08	0.96
Var 9	PCB_9	-0.00	-0.00	0.98
Var 10	PCB_10	0.65	0.96	0.97

Var 11	PCB_12_13	0.62	0.99	0.99
Var 12	PCB_15	0.37	0.63	1.00
Var 13	PCB_16	0.17	0.24	1.00
Var 14	PCB_17	0.83	0.97	0.99
Var 15	PCB_18_30	-0.00	0.43	1.00
Var 16	PCB_19	0.69	0.97	0.98
Var 17	PCB_20_28	-0.01	0.08	0.96
Var 18	PCB_21_33	0.52	0.67	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 19	PCB_22	0.63	0.82	1.00
Var 20	PCB_23	0.02	0.31	0.97
Var 21	PCB_24	0.74	0.76	1.00
Var 22	PCB_25	0.75	1.00	1.00
Var 23	PCB_26_29	0.14	0.97	0.97
Var 24	PCB_27	0.95	0.96	0.98
Var 25	PCB_31	0.01	0.44	0.99
Var 26	PCB_32	0.87	0.88	0.98
Var 27	PCB_34	0.87	0.89	1.00
Var 28	PCB_35	0.91	0.97	1.00
Var 29	PCB_37	0.19	0.26	0.93
Var 30	PCB_38	0.14	0.97	1.00
Var 31	PCB_39	0.54	0.83	1.00
Var 32	PCB_40_41_71	0.73	0.78	0.97
Var 33	PCB_42	0.21	0.20	1.00
Var 34	PCB_43	0.42	0.53	0.92
Var 35	PCB_44_47_65	0.92	0.94	1.00
Var 36	PCB_45_51	0.91	0.95	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 37	PCB_46	0.53	0.95	0.98
Var 38	PCB_48	0.78	0.95	1.00
Var 39	PCB_49_69	0.64	1.00	1.00
Var 40	PCB_50_53	0.80	0.91	0.98
Var 41	PCB_52	0.81	0.96	0.99
Var 42	PCB_54	0.98	0.99	0.99
Var 43	PCB_56	0.95	0.96	1.00
Var 44	PCB_57	0.11	1.00	1.00
Var 45	PCB_58	0.10	0.90	0.98
Var 46	PCB_59_62_75	0.05	0.98	1.00
Var 47	PCB_60	0.91	0.95	0.99
Var 48	PCB_61_70_74_76	0.49	0.76	0.97
Var 49	PCB_63	0.65	0.90	0.96
Var 50	PCB_64	0.08	0.90	0.99
Var 51	PCB_66	0.85	0.88	0.97
Var 52	PCB_67	0.02	0.96	0.96
Var 53	PCB_68	0.81	0.99	1.00
Var 54	PCB_72	0.36	0.99	0.99

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 55	PCB_73	0.02	0.09	1.00
Var 56	PCB_77	0.91	0.95	0.98
Var 57	PCB_79	0.09	0.67	0.99
Var 58	PCB_81	0.86	0.96	1.00
Var 59	PCB_82	0.06	0.99	0.99
Var 60	PCB_83	0.21	0.98	0.98
Var 61	PCB_84	0.03	0.09	0.99
Var 62	PCB_85_117_116	0.43	0.92	0.98
Var 63	Coplanar1	0.51	0.95	0.99
Var 64	PCB_88_91	0.12	0.57	0.96
Var 65	PCB_89	0.72	0.79	1.00
Var 66	PCB_90_101_113	0.79	0.98	0.98

Var 67	PCB_92	0.30	0.81	0.91
Var 68	Coplanar2	0.75	0.89	0.99
Var 69	PCB_94	0.96	0.99	1.00
Var 70	PCB_95	-0.02	-0.03	0.99
Var 71	PCB_96	0.40	0.80	1.00
Var 72	PCB_99	0.98	0.98	0.99

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 73	PCB_103	0.52	0.98	0.99
Var 74	PCB_104	0.97	0.99	1.00
Var 75	PCB_105	0.39	0.87	1.00
Var 76	PCB_107_124	0.33	0.89	0.95
Var 77	PCB_109	0.92	0.96	0.99
Var 78	PCB_110_115	0.36	0.36	0.98
Var 79	PCB_111	0.28	0.98	0.99
Var 80	PCB_114	0.26	0.78	0.98
Var 81	PCB_118	0.84	0.99	1.00
Var 82	PCB_120	0.15	0.99	0.99
Var 83	PCB_121	0.64	0.98	0.99
Var 84	PCB_122	0.17	0.89	1.00
Var 85	PCB_123	0.41	0.43	0.95
Var 86	PCB_127	0.37	0.67	0.93
Var 87	PCB_128_166	0.27	0.25	0.99
Var 88	PCB_129_138_163	0.75	0.74	1.00
Var 89	PCB_130	0.81	0.81	0.99
Var 90	PCB_131	0.79	0.96	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 91	PCB_132	0.91	0.93	1.00
Var 92	PCB_133	0.60	0.99	0.99
Var 93	PCB_134_143	0.76	0.78	1.00
Var 94	PCB_135_151	0.99	0.99	1.00
Var 95	PCB_136	0.90	0.92	1.00
Var 96	PCB_137	0.07	0.73	0.78
Var 97	PCB_139_140	0.18	0.22	0.98
Var 98	PCB_141	0.77	0.99	0.99
Var 99	PCB_142	0.02	0.09	1.00
Var 100	PCB_144	0.95	0.97	1.00
Var 101	PCB_145	0.10	0.23	1.00
Var 102	PCB_146	0.97	0.99	1.00
Var 103	PCB_147_149	0.98	0.99	1.00
Var 104	PCB_148	0.52	0.76	0.99
Var 105	PCB_150	0.04	0.86	0.89
Var 106	PCB_152	0.38	0.82	0.94
Var 107	PCB_153_168	0.95	0.99	0.99
Var 108	PCB_154	0.02	0.96	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 109	PCB_155	0.81	0.81	0.98
Var 110	PCB_156_57	0.32	0.37	0.40
Var 111	PCB_158	0.43	0.44	0.99
Var 112	PCB_159	0.02	0.09	1.00
Var 113	PCB_162	0.67	0.69	0.97
Var 114	PCB_164	0.91	0.94	0.98
Var 115	PCB_165	0.05	0.97	1.00
Var 116	PCB_167	0.38	0.60	0.98
Var 117	PCB_169	0.09	0.33	1.00
Var 118	PCB_170	0.99	0.99	1.00
Var 119	PCB_171_173	0.80	0.79	1.00
Var 120	PCB_172	0.90	0.92	1.00
Var 121	PCB_174	0.95	0.97	1.00
Var 122	PCB_175	0.99	1.00	1.00

Var 123 PCB_176	0.98	0.99	1.00
Var 124 PCB_177	0.94	0.94	1.00
Var 125 PCB_178	0.98	0.99	1.00
Var 126 PCB_179	0.99	0.99	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4
Var 127 PCB_180_193	0.96	0.97	1.00
Var 128 PCB_181	0.72	0.72	0.99
Var 129 PCB_182	0.96	0.99	0.99
Var 130 PCB_183_185	0.96	0.96	1.00
Var 131 PCB_184	0.58	0.64	0.98
Var 132 PCB_187	0.99	0.99	1.00
Var 133 PCB_188	0.73	0.75	0.99
Var 134 PCB_189	0.98	0.99	1.00
Var 135 PCB_190	0.93	0.98	0.99
Var 136 PCB_191	0.89	0.89	1.00
Var 137 PCB_194	0.86	0.88	1.00
Var 138 PCB_195	0.98	0.98	1.00
Var 139 PCB_196	0.95	0.96	1.00
Var 140 PCB_197_200	0.95	0.96	1.00
Var 141 PCB_198_199	0.85	0.87	1.00
Var 142 PCB_201	0.95	0.97	1.00
Var 143 PCB_202	0.89	0.91	1.00
Var 144 PCB_203	0.97	0.98	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4
Var 145 PCB_205	0.95	0.95	1.00
Var 146 PCB_206	0.84	0.86	1.00
Var 147 PCB_207	0.84	0.86	1.00
Var 148 PCB_208	0.77	0.79	1.00
Var 149 PCB_209	0.72	0.75	1.00

Asiatic Clams - Original Concs. w/NDs Set to Zero

Number of tries in the Varimax Procedure = 4

Normalized Varimax Coordinates

	Comm.	1	2	3	4
1 1-AC-3	1.0000	0.1205	0.6872	0.0167	0.1739
2 2-AC-3	1.0000	0.2297	0.0260	0.6233	0.1205
3 3-AC-3	1.0000	0.1832	0.1986	0.1230	0.4913
4 4-AC-3	1.0000	0.6334	0.1015	0.1768	0.1841
5 5-AC-3	1.0000	0.5018	0.1057	0.1811	0.1269
	>= 0.1	5	4	4	5
	< 0.1	0	1	1	0

Asiatic Clams - Original Concs. w/NDs Set to Zero

Number of tries in the Varimax Procedure = 4

Normalized Varimax Coordinates

	Comm.	5
1 1-AC-3	1.0000	0.0017
2 2-AC-3	1.0000	0.0006
3 3-AC-3	1.0000	0.0039
4 4-AC-3	1.0000	-0.0959
5 5-AC-3	1.0000	0.0845
	>= 0.1	0
	< 0.1	5

07/13/09 11:02:47
Asiatic Clams - Original Concs. w/NDs Set to Zero
Asiatic Clams Non-Metric NDs=0

Number of Samples	5
Number of Variables	149
Number of End-Members in Model.	4
Starting Option used	1
Initial DENEG value	0.25000
Greatest allowed negative in END MEMBER Comp. . .	0.01000
Greatest allowed negative in sample composition .	0.01000
VARIMAX Cutoff used	0.01000

Maximum Value Row Index Matrix

Iteration	Factor 1	2	3	4
0	4	1	2	3
1	4	1	2	3

Varimax Coordinates of Extreme Raw Samples

		COMM.	EM 1	EM 2	EM 3	EM 4
4	4-AC-3	0.9809	0.9123	0.1412	0.2447	0.2623
1	1-AC-3	0.9999	0.1708	0.9551	0.0222	0.2406
2	2-AC-3	0.9997	0.3469	0.0375	0.9202	0.1769
3	3-AC-3	0.9999	0.3253	0.3459	0.2124	0.8540

Asiatic Clams Non-Metric NDs=0

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4
1	PCB_1	0.0283	0.0020	0.0580	0.0347
2	PCB_2	0.0001	0.0000	0.0004	-0.0000
3	PCB_3	0.0016	0.0010	0.0064	0.0039
4	PCB_4	0.9405	0.1458	2.5319	1.3273
5	PCB_5	0.0021	-0.0001	0.0007	0.0044
6	PCB_6	0.0725	0.0274	0.0705	0.1065
7	PCB_7	0.0048	0.0021	0.0076	0.0086
8	PCB_8	0.1155	0.0349	0.1103	0.2248
9	PCB_9	0.0077	0.0029	0.0052	0.0135
10	PCB_10	0.0441	0.0052	0.1071	0.0594
11	PCB_12_13	0.0402	0.0045	0.1185	0.0574
12	PCB_15	0.0845	0.0247	0.1405	0.1468
13	PCB_16	0.1855	0.1684	0.1044	0.2497
14	PCB_17	0.5841	0.2024	0.9055	0.6055
15	PCB_18_30	0.6632	0.4477	0.3504	0.6837
16	PCB_19	0.5017	0.0773	1.1614	0.6214
17	PCB_20_28	0.5813	0.4454	0.4114	0.7020
18	PCB_21_33	0.0721	0.0846	0.0201	0.0968
19	PCB_22	0.1415	0.1693	0.0605	0.1657
20	PCB_23	0.0004	0.0000	0.0000	0.0004
21	PCB_24	-0.0002	0.0057	-0.0000	0.0000
22	PCB_25	0.3158	0.1261	0.2614	0.1958
23	PCB_26_29	0.5914	0.2718	0.2642	0.2818
24	PCB_27	1.5574	0.0790	2.3287	0.9221
25	PCB_31	0.3374	0.2273	0.1465	0.3564
26	PCB_32	0.3986	0.1582	0.4333	0.3678
27	PCB_34	0.0067	-0.0000	0.0082	0.0063
28	PCB_35	0.0040	0.0070	0.0024	0.0043
29	PCB_37	0.0912	0.0869	0.0592	0.1156
30	PCB_38	0.0056	-0.0000	-0.0000	0.0016
31	PCB_39	0.0037	0.0053	0.0044	0.0042
32	PCB_40_41_71	1.0081	0.8971	1.1565	0.9005
33	PCB_42	0.8904	0.8543	0.9699	0.6402
34	PCB_43	0.0451	0.0434	0.0549	0.0395
35	PCB_44_47_65	4.1101	2.9437	4.9390	3.4416
36	PCB_45_51	0.7653	0.4645	1.0167	0.6126
37	PCB_46	0.2361	0.1159	0.1790	0.1340

38	PCB_48	0.1002	0.1892	0.1210	0.1347
39	PCB_49_69	3.6112	1.1814	2.6102	1.9924
40	PCB_50_53	2.1604	0.7919	2.0709	1.0344
41	PCB_52	4.9373	3.0329	4.6649	3.5260
42	PCB_54	0.0611	0.0041	0.0816	0.0418
43	PCB_56	0.2899	0.4418	0.2643	0.3253
44	PCB_57	0.0755	0.0170	0.0115	0.0187
45	PCB_58	0.0219	0.0133	0.0122	0.0101
46	PCB_59_62_75	0.5154	0.2090	0.1183	0.1557
47	PCB_60	0.0818	0.1377	0.0762	0.1188
48	PCB_61_70_74_76	1.9702	1.7045	2.2722	2.1887
49	PCB_63	0.0715	0.0416	0.0608	0.0588
50	PCB_64	0.6218	0.5483	0.4014	0.5569
51	PCB_66	1.4149	0.9877	1.5550	1.4023

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4
52	PCB_67	0.0871	0.0538	0.0371	0.0496
53	PCB_68	0.1283	0.0209	0.1054	0.0651
54	PCB_72	0.1777	0.0342	0.0768	0.0572
55	PCB_73	0.0019	0.0002	0.0002	0.0501
56	PCB_77	0.0498	0.0971	0.0286	0.0553
57	PCB_79	0.0433	0.0528	0.0689	0.0444
58	PCB_81	0.0026	0.0060	0.0031	0.0038
59	PCB_82	0.3132	0.4066	0.4275	0.3957
60	PCB_83	0.3269	0.3220	0.2581	0.2966
61	PCB_84	1.1632	1.2196	1.2633	1.0784
62	PCB_85_117_116	0.8401	0.7928	0.9776	0.9091
63	Coplanar1	3.4735	3.2877	4.4443	3.5597
64	PCB_88_91	0.9903	0.9038	0.9094	0.7944
65	PCB_89	0.0250	0.0604	0.0301	0.0294
66	PCB_90_101_113	5.9932	5.2934	6.9048	5.9391
67	PCB_92	1.5202	1.2513	1.3364	1.1933
68	Coplanar2	0.3438	0.2894	0.4369	0.3122
69	PCB_94	0.0767	0.0376	0.0991	0.0644
70	PCB_95	6.0087	6.5369	6.4338	4.7742
71	PCB_96	0.0527	0.0398	0.0462	0.0360
72	PCB_99	3.6148	2.5436	3.8783	3.1242
73	PCB_103	0.1005	0.0486	0.0740	0.0581
74	PCB_104	0.0047	-0.0000	0.0064	0.0034
75	PCB_105	1.2037	1.0025	1.6787	1.5136
76	PCB_107_124	0.1562	0.1568	0.1938	0.1628
77	PCB_109	0.3681	0.2293	0.3678	0.3224
78	PCB_110_115	6.4737	6.3456	6.9665	5.8628
79	PCB_111	0.0131	0.0030	0.0051	0.0036
80	PCB_114	0.0646	0.0555	0.0939	0.0891
81	PCB_118	6.0860	4.7346	7.5000	5.9970
82	PCB_120	0.0439	0.0175	0.0170	0.0178
83	PCB_121	0.0041	0.0000	0.0025	0.0018
84	PCB_122	0.0376	0.0494	0.0483	0.0438
85	PCB_123	0.0916	0.1105	0.0945	0.0871
86	PCB_127	0.0035	0.0054	0.0046	0.0040
87	PCB_128_166	0.8073	0.8490	0.6233	1.1126
88	PCB_129_138_163	6.2443	7.7913	5.2177	8.0276
89	PCB_130	0.3303	0.4282	0.2983	0.4253
90	PCB_131	0.0851	0.1235	0.0915	0.1147
91	PCB_132	1.5226	2.0047	1.4309	1.8820
92	PCB_133	0.0962	0.1083	0.0641	0.0905
93	PCB_134_143	0.3066	0.3476	0.2594	0.3491
94	PCB_135_151	1.5940	2.8310	1.1328	2.0262
95	PCB_136	0.5978	0.7521	0.4779	0.6919
96	PCB_137	0.1343	0.1651	0.1679	0.1540
97	PCB_139_140	0.1254	0.1234	0.1100	0.1404
98	PCB_141	0.0842	0.2056	0.1161	0.1579
99	PCB_142	0.0000	0.0000	0.0000	0.0006
100	PCB_144	0.1764	0.3323	0.1511	0.2716
101	PCB_145	0.0022	0.0023	0.0022	0.0026
102	PCB_146	0.8177	1.2072	0.6093	0.9832

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4
103	PCB_147_149	3.9579	5.8965	3.1563	4.6656
104	PCB_148	0.0077	0.0081	0.0073	0.0074
105	PCB_150	0.0081	0.0071	0.0068	0.0074
106	PCB_152	0.0072	0.0067	0.0084	0.0079
107	PCB_153_168	8.3300	11.8291	6.1218	9.4953
108	PCB_154	0.0713	0.0631	0.0525	0.0631
109	PCB_155	0.0004	-0.0000	0.0005	0.0000
110	PCB_156_57	0.3755	0.3634	0.3849	0.3774
111	PCB_158	0.5817	0.6974	0.5116	0.8383
112	PCB_159	0.0000	0.0000	0.0000	0.0006
113	PCB_162	0.0100	0.0214	0.0083	0.0083
114	PCB_164	0.1847	0.3059	0.1723	0.2670
115	PCB_165	0.0065	0.0026	0.0015	0.0017
116	PCB_167	0.4100	0.4768	0.3522	0.3451
117	PCB_169	0.0007	0.0021	0.0018	0.0067
118	PCB_170	0.1123	0.2803	0.0708	0.1874
119	PCB_171_173	0.2184	0.4464	0.1043	0.4544
120	PCB_172	0.0095	0.0390	0.0070	0.0152
121	PCB_174	0.0815	0.3759	0.0525	0.1657
122	PCB_175	0.0210	0.0759	0.0104	0.0455
123	PCB_176	0.0714	0.2132	0.0339	0.1442
124	PCB_177	0.3052	0.8417	0.1374	0.6758
125	PCB_178	0.1014	0.3807	0.0459	0.2031
126	PCB_179	0.1804	0.6595	0.0831	0.3601
127	PCB_180_193	0.4346	1.5651	0.2309	0.7274
128	PCB_181	0.0095	0.0117	0.0072	0.0120
129	PCB_182	0.0013	0.0032	0.0011	0.0023
130	PCB_183_185	0.3593	1.0284	0.1470	0.7780
131	PCB_184	0.0006	0.0000	0.0005	0.0006
132	PCB_187	0.6383	2.3172	0.2590	1.4234
133	PCB_188	0.0007	0.0023	0.0007	0.0007
134	PCB_189	0.0044	0.0092	0.0031	0.0060
135	PCB_190	0.0984	0.2030	0.0458	0.1141
136	PCB_191	0.0161	0.0374	0.0076	0.0332
137	PCB_194	0.0049	0.0299	0.0024	0.0076
138	PCB_195	0.0323	0.1117	0.0084	0.0738
139	PCB_196	0.0160	0.0863	0.0054	0.0333
140	PCB_197_200	0.0103	0.0571	0.0035	0.0223
141	PCB_198_199	0.0188	0.1662	0.0108	0.0368
142	PCB_201	0.0167	0.0986	0.0057	0.0393
143	PCB_202	0.0187	0.1392	0.0093	0.0394
144	PCB_203	0.0724	0.3211	0.0239	0.1485
145	PCB_205	0.0050	0.0156	0.0013	0.0116
146	PCB_206	0.0055	0.0428	0.0037	0.0096
147	PCB_207	0.0012	0.0093	0.0009	0.0022
148	PCB_208	0.0014	0.0196	0.0016	0.0025
149	PCB_209	0.0007	0.0195	0.0017	0.0014

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4
1	1-AC-3	-0.0000	1.0000	-0.0000	0.0000
2	2-AC-3	-0.0000	0.0000	1.0000	-0.0000
3	3-AC-3	-0.0000	0.0000	-0.0000	1.0000
4	4-AC-3	1.0000	0.0000	-0.0000	0.0000
5	5-AC-3	0.9059	0.0653	0.1037	-0.0749

****

The DENEG Procedure no longer needs to continue as none of the
End-Member Compositions were less than -0.0100

****

NORMAL END OF JOB

07/27/09 14:26:59
Pumkinseed Carcass

```
 Number of Variables . . . . . . . . . . . . . . 152
 Number of Samples . . . . . . . . . . . . . . . 5
 Cum sums sqrs . . . . . . . . . . . . . . . . . 100.0
 Data transformation option  . . . . . . . . . . 2
 Print Option  . . . . . . . . . . . . . . . . . minimal
 Proportion to constant sum of 100 option  . . Y
 Manually defined range. . . . . . . . . . . . no
```

The data will be proportioned to a constant sum of 100.

Pumkinseed Carcass

The following are the input vectors

	1	2	3	4	5	6	7
1-P-2	11.60	0.00	0.00	201.00	0.00	40.60	0.00
2-P-3	1460.00	13.30	145.00	17300.00	63.90	1670.00	347.00
3-P-3	2560.00	19.50	285.00	33500.00	150.00	3080.00	710.00
4-P-3	732.00	7.61	70.00	13100.00	47.60	1580.00	294.00
5-P-2	822.00	11.60	73.00	18400.00	56.30	1660.00	330.00

Pumkinseed Carcass

The following are the input vectors

	8	9	10	11	12	13	14
1-P-2	110.00	10.10	18.90	0.00	55.30	137.00	531.00
2-P-3	6080.00	467.00	1640.00	428.00	1820.00	1980.00	23800.00
3-P-3	14400.00	953.00	3400.00	851.00	4310.00	3870.00	43700.00
4-P-3	5330.00	403.00	1280.00	360.00	1140.00	1920.00	22000.00
5-P-2	4930.00	439.00	1510.00	417.00	1440.00	2210.00	24700.00

Pumkinseed Carcass

The following are the input vectors

	15	16	17	18	19	20	21
1-P-2	735.00	134.00	2470.00	207.00	496.00	0.00	20.10
2-P-3	16400.00	8940.00	36500.00	2840.00	6400.00	23.80	522.00
3-P-3	26600.00	16600.00	78800.00	6030.00	13700.00	37.10	958.00
4-P-3	14600.00	7120.00	45800.00	2740.00	7510.00	27.20	0.00
5-P-2	16400.00	9890.00	36500.00	2520.00	6210.00	24.00	599.00

Pumkinseed Carcass

The following are the input vectors

	22	23	24	25	26	27	28
1-P-2	522.00	1240.00	118.00	1360.00	718.00	7.75	0.00
2-P-3	15900.00	37300.00	13000.00	22300.00	19900.00	278.00	19.70
3-P-3	22900.00	39300.00	16600.00	43900.00	33500.00	384.00	70.30
4-P-3	17600.00	39200.00	16600.00	26100.00	20500.00	272.00	0.00
5-P-2	16800.00	41400.00	15300.00	22300.00	21600.00	261.00	47.10

Pumkinseed Carcass

The following are the input vectors

	29	30	31	32	33	34	35
1-P-2	253.00	6.98	10.60	2060.00	1570.00	93.40	6140.00
2-P-3	3130.00	162.00	151.00	31600.00	26900.00	0.00	153000.00
3-P-3	7500.00	102.00	299.00	62100.00	53200.00	0.00	365000.00
4-P-3	2590.00	173.00	137.00	33400.00	27900.00	0.00	181000.00
5-P-2	2370.00	160.00	121.00	34400.00	28200.00	0.00	169000.00

Pumkinseed Carcass

The following are the input vectors

	36	37	38	39	40	41	42
1-P-2	1330.00	107.00	350.00	6250.00	710.00	14800.00	21.40
2-P-3	26700.00	1500.00	3060.00	224000.00	22800.00	343000.00	1870.00
3-P-3	50100.00	1820.00	7460.00	383000.00	27500.00	687000.00	2970.00
4-P-3	23000.00	1440.00	3380.00	230000.00	21200.00	317000.00	1530.00

5-P-2	29100.00	2080.00	2830.00	237000.00	24700.00	354000.00	2300.00

Pumkinseed Carcass

The following are the input vectors

	43	44	45	46	47	48	49
1-P-2	1530.00	81.20	52.50	606.00	925.00	7980.00	221.00
2-P-3	14400.00	2960.00	1060.00	15100.00	5240.00	127000.00	3980.00
3-P-3	37500.00	3280.00	1690.00	19200.00	17500.00	351000.00	9850.00
4-P-3	13700.00	3520.00	1160.00	17800.00	6000.00	116000.00	4380.00
5-P-2	13000.00	4570.00	1240.00	15800.00	4950.00	122000.00	4150.00

Pumkinseed Carcass

The following are the input vectors

	50	51	52	53	54	55	56
1-P-2	2860.00	5250.00	181.00	105.00	186.00	448.00	10.90
2-P-3	36500.00	79200.00	5400.00	6720.00	10200.00	2660.00	0.00
3-P-3	78900.00	232000.00	7080.00	12300.00	13900.00	7130.00	0.00
4-P-3	36400.00	89200.00	4230.00	7570.00	10700.00	2720.00	0.00
5-P-2	36900.00	81900.00	4770.00	7790.00	11600.00	2380.00	0.00

Pumkinseed Carcass

The following are the input vectors

	57	58	59	60	61	62	63
1-P-2	175.00	37.50	1960.00	527.00	2900.00	4800.00	13100.00
2-P-3	2810.00	147.00	19000.00	6490.00	33800.00	55400.00	192000.00
3-P-3	6450.00	307.00	70300.00	15900.00	67700.00	266000.00	620000.00
4-P-3	2380.00	208.00	17700.00	7800.00	31100.00	62500.00	204000.00
5-P-2	2350.00	162.00	18300.00	9770.00	31700.00	68000.00	211000.00

Pumkinseed Carcass

The following are the input vectors

	64	65	66	67	68	69	70
1-P-2	4590.00	114.00	26000.00	6590.00	831.00	48.30	18100.00
2-P-3	52500.00	630.00	360000.00	92800.00	11400.00	853.00	205000.00
3-P-3	162000.00	1400.00	1400000.00	299000.00	36800.00	2000.00	456000.00
4-P-3	57300.00	525.00	357000.00	110000.00	14400.00	1380.00	204000.00
5-P-2	58300.00	542.00	412000.00	114000.00	10800.00	930.00	216000.00

Pumkinseed Carcass

The following are the input vectors

	71	72	73	74	75	76	77
1-P-2	80.40	14000.00	255.00	0.00	5610.00	939.00	1340.00
2-P-3	1120.00	224000.00	5300.00	182.00	68200.00	10600.00	22600.00
3-P-3	1770.00	792000.00	13500.00	485.00	348000.00	51000.00	95500.00
4-P-3	940.00	244000.00	6240.00	218.00	77100.00	11400.00	24300.00
5-P-2	1080.00	272000.00	6550.00	190.00	87300.00	13200.00	27400.00

Pumkinseed Carcass

The following are the input vectors

	78	79	80	81	82	83	84
1-P-2	35100.00	20.90	275.00	17300.00	82.70	4.71	265.00
2-P-3	393000.00	609.00	3900.00	263000.00	2350.00	197.00	2390.00
3-P-3	1180000.00	1050.00	28100.00	1030000.00	4480.00	383.00	10100.00
4-P-3	368000.00	762.00	4520.00	261000.00	2530.00	245.00	2540.00
5-P-2	429000.00	791.00	5010.00	291000.00	2990.00	247.00	2560.00

Pumkinseed Carcass

The following are the input vectors

	85	86	87	88	89	90	91
1-P-2	434.00	82.30	54.30	6090.00	53200.00	2390.00	296.00
2-P-3	4220.00	391.00	441.00	46400.00	343000.00	16000.00	2240.00
3-P-3	19800.00	1500.00	2420.00	287000.00	1940000.00	87400.00	9480.00
4-P-3	6040.00	478.00	528.00	52700.00	371000.00	19800.00	2560.00
5-P-2	6070.00	582.00	654.00	72500.00	475000.00	21300.00	2160.00

Pumkinseed Carcass

The following are the input vectors

	92	93	94	95	96	97	98
1-P-2	8700.00	695.00	1700.00	19500.00	3090.00	1710.00	752.00
2-P-3	61100.00	5260.00	12000.00	74200.00	19200.00	18600.00	6830.00
3-P-3	222000.00	23100.00	54200.00	435000.00	86300.00	125000.00	39500.00
4-P-3	64200.00	6350.00	16300.00	111000.00	24300.00	22200.00	7920.00
5-P-2	69900.00	7430.00	14200.00	108000.00	21500.00	31800.00	10600.00

Pumkinseed Carcass

The following are the input vectors

	99	100	101	102	103	104	105
1-P-2	6390.00	1780.00	9.74	9620.00	43800.00	37.60	35.00
2-P-3	33900.00	8160.00	70.50	50700.00	219000.00	344.00	298.00
3-P-3	194000.00	52700.00	268.00	260000.00	1090000.00	1560.00	1180.00
4-P-3	37600.00	11100.00	85.10	59700.00	244000.00	449.00	377.00
5-P-2	48300.00	11800.00	60.30	73700.00	271000.00	480.00	338.00

Pumkinseed Carcass

The following are the input vectors

	106	107	108	109	110	111	112
1-P-2	24.40	41200.00	424.00	4.20	2830.00	3900.00	16.00
2-P-3	190.00	246000.00	3430.00	16.80	28700.00	29200.00	65.50
3-P-3	777.00	1280000.00	17400.00	47.10	182000.00	180000.00	363.00
4-P-3	268.00	274000.00	4510.00	15.60	32000.00	34700.00	76.60
5-P-2	222.00	353000.00	5080.00	14.90	40300.00	45400.00	50.20

Pumkinseed Carcass

The following are the input vectors

	113	114	115	116	117	118	119
1-P-2	131.00	3530.00	19.50	1380.00	36.30	5730.00	2520.00
2-P-3	1040.00	16500.00	310.00	9990.00	27.50	19100.00	7230.00
3-P-3	3560.00	95100.00	646.00	59400.00	199.00	135000.00	51900.00
4-P-3	976.00	20400.00	409.00	10800.00	69.70	24400.00	10300.00
5-P-2	1390.00	22400.00	492.00	14500.00	45.30	27400.00	11400.00

Pumkinseed Carcass

The following are the input vectors

	120	121	122	123	124	125	126
1-P-2	1560.00	7200.00	372.00	730.00	4930.00	2470.00	3050.00
2-P-3	3080.00	12200.00	705.00	1450.00	8870.00	3990.00	4520.00
3-P-3	22700.00	87900.00	5040.00	10700.00	61800.00	26100.00	32800.00
4-P-3	4470.00	20200.00	1140.00	2700.00	15400.00	6810.00	8590.00
5-P-2	4560.00	17200.00	1090.00	1940.00	12500.00	5900.00	6530.00

Pumkinseed Carcass

The following are the input vectors

	127	128	129	130	131	132	133
1-P-2	15300.00	84.40	0.00	6370.00	11.00	0.00	45200.00
2-P-3	34100.00	577.00	163.00	13700.00	25.20	8.56	45800.00
3-P-3	209000.00	3860.00	1090.00	89100.00	149.00	53.30	366000.00
4-P-3	45100.00	701.00	225.00	20700.00	37.90	13.60	89800.00
5-P-2	43700.00	937.00	252.00	21000.00	43.50	12.30	71300.00

Pumkinseed Carcass

The following are the input vectors

	134	135	136	137	138	139	140
1-P-2	16.60	223.00	972.00	281.00	0.00	1550.00	924.00
2-P-3	32.60	920.00	3290.00	741.00	9.60	2860.00	1640.00
3-P-3	158.00	6180.00	20900.00	5390.00	10.40	14700.00	8730.00
4-P-3	43.00	1150.00	3970.00	962.00	3.96	2760.00	1770.00
5-P-2	47.50	1220.00	1390.00	1050.00	3.90	2820.00	1750.00

Pumkinseed Carcass

The following are the input vectors

	141	142	143	144	145	146	147
1-P-2	1260.00	438.00	3720.00	531.00	781.00	2450.00	4.16
2-P-3	1720.00	457.00	3870.00	461.00	701.00	3070.00	0.00
3-P-3	10400.00	3190.00	22900.00	2820.00	3480.00	17300.00	13.40
4-P-3	2370.00	817.00	5840.00	821.00	983.00	4170.00	5.11
5-P-2	1950.00	604.00	3960.00	633.00	928.00	3670.00	4.62

Pumkinseed Carcass

The following are the input vectors

	148	149	150	151	152
1-P-2	134.00	937.00	108.00	321.00	573.00
2-P-3	188.00	980.00	131.00	252.00	338.00
3-P-3	1080.00	4040.00	492.00	879.00	724.00
4-P-3	243.00	1140.00	147.00	322.00	376.00
5-P-2	233.00	1240.00	167.00	353.00	523.00

Pumkinseed Carcass

General Statistics for Untransformed data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.02	0.01	0.00	0.03
2	PCB_2	0.00	0.00	0.00	0.00
3	PCB_3	0.00	0.00	0.00	0.00
4	PCB_4	0.23	0.11	0.04	0.36
5	PCB_5	0.00	0.00	0.00	0.00
6	PCB_6	0.02	0.01	0.01	0.03
7	PCB_7	0.00	0.00	0.00	0.01
8	PCB_8	0.08	0.04	0.02	0.13
9	PCB_9	0.01	0.00	0.00	0.01
10	PCB_10	0.02	0.01	0.00	0.03
11	PCB_11	0.01	0.00	0.00	0.01
12	PCB_14	0.02	0.01	0.01	0.04
13	PCB_16	0.03	0.01	0.02	0.04
14	PCB_17	0.34	0.15	0.10	0.49
15	PCB_18_30	0.24	0.08	0.14	0.34
16	PCB_19	0.12	0.06	0.02	0.18
17	PCB_20_28	0.63	0.17	0.44	0.88
18	PCB_21_33	0.05	0.01	0.03	0.06
19	PCB_22	0.11	0.02	0.08	0.14
20	PCB_23	0.00	0.00	0.00	0.00
21	PCB_24	0.01	0.00	0.00	0.01
22	PCB_25	0.24	0.10	0.10	0.34
23	PCB_26_29	0.54	0.26	0.22	0.77
24	PCB_27	0.19	0.12	0.02	0.32
25	PCB_31	0.37	0.11	0.25	0.50
26	PCB_32	0.30	0.12	0.13	0.41
27	PCB_34	0.00	0.00	0.00	0.01
28	PCB_35	0.00	0.00	0.00	0.00
29	PCB_36	0.05	0.01	0.04	0.06
30	PCB_38	0.00	0.00	0.00	0.00
31	PCB_39	0.00	0.00	0.00	0.00
32	PCB_40_41_71	0.53	0.13	0.35	0.65
33	PCB_42	0.43	0.12	0.29	0.55
34	PCB_43	0.00	0.01	0.00	0.02
35	PCB_44_47_65	2.56	0.86	1.13	3.49
36	PCB_45_51	0.41	0.12	0.24	0.55
37	PCB_46	0.02	0.01	0.01	0.04
38	PCB_48	0.06	0.01	0.04	0.07
39	PCB_49_69	3.30	1.39	1.15	4.62
40	PCB_50_53	0.32	0.15	0.13	0.47
41	PCB_52	5.19	1.63	2.73	7.07
42	PCB_54	0.03	0.01	0.00	0.04
43	PCB_55	0.26	0.03	0.21	0.30
44	PCB_57	0.05	0.03	0.01	0.08
45	PCB_58	0.02	0.01	0.01	0.02
46	PCB_59_62_75	0.23	0.10	0.11	0.34

47	PCB_60	0.12	0.03	0.09	0.17
48	PCB_61_70_74_76	2.09	0.37	1.47	2.62
49	PCB_63	0.07	0.02	0.04	0.08
50	PCB_64	0.61	0.11	0.44	0.75
51	PCB_66	1.41	0.27	0.97	1.72
52	PCB_67	0.07	0.03	0.03	0.11
53	PCB_68	0.10	0.05	0.02	0.15
54	PCB_72	0.15	0.07	0.03	0.21
55	PCB_73	0.05	0.02	0.04	0.08
56	PCB_78	0.00	0.00	0.00	0.00
57	PCB_79	0.04	0.01	0.03	0.06
58	PCB_80	0.00	0.00	0.00	0.01
59	PCB_82	0.36	0.03	0.32	0.40
60	PCB_83	0.13	0.03	0.09	0.17
61	PCB_84	0.55	0.10	0.38	0.70
62	PCB_85_117_116	1.18	0.19	0.88	1.50
63	Coplanar1	3.50	0.57	2.41	3.96
64	PCB_88_91	0.99	0.10	0.85	1.10
65	PCB_89	0.01	0.00	0.01	0.02
66	PCB_90_101_113	6.83	1.07	4.79	7.87
67	PCB_92	1.78	0.32	1.21	2.12
68	Coplanar2	0.21	0.04	0.15	0.28
69	PCB_94	0.02	0.01	0.01	0.03
70	PCB_95	3.57	0.58	2.56	4.23
71	PCB_96	0.02	0.00	0.01	0.02
72	PCB_99	4.22	0.83	2.58	4.76
73	PCB_103	0.09	0.03	0.05	0.12
74	PCB_104	0.00	0.00	0.00	0.00
75	PCB_105	1.48	0.29	1.03	1.96
76	PCB_106	0.23	0.04	0.17	0.29
77	PCB_109	0.44	0.10	0.25	0.54
78	PCB_110_115	7.16	0.60	6.46	8.10
79	PCB_111	0.01	0.00	0.00	0.01
80	PCB_112	0.09	0.04	0.05	0.16
81	PCB_118	4.90	0.90	3.19	5.79
82	PCB_120	0.04	0.01	0.02	0.05
83	PCB_121	0.00	0.00	0.00	0.00
84	PCB_122	0.05	0.00	0.04	0.06
85	PCB_123	0.10	0.01	0.08	0.12
86	PCB_126	0.01	0.00	0.01	0.02
87	PCB_127	0.01	0.00	0.01	0.01
88	PCB_128_166	1.19	0.23	0.96	1.61
89	PCB_129_138_163	8.65	1.50	7.07	10.91
90	PCB_130	0.40	0.06	0.33	0.49
91	PCB_131	0.05	0.01	0.04	0.05
92	PCB_132	1.31	0.14	1.22	1.60
93	PCB_133	0.12	0.01	0.11	0.13
94	PCB_134_143	0.29	0.03	0.25	0.31
95	PCB_135_151	2.32	0.70	1.53	3.59
96	PCB_136	0.46	0.07	0.38	0.57
97	PCB_137	0.48	0.14	0.31	0.70
98	PCB_139_140	0.17	0.03	0.14	0.22
99	PCB_141	0.91	0.19	0.70	1.18
100	PCB_142	0.24	0.06	0.17	0.33
101	PCB_145	0.00	0.00	0.00	0.00
102	PCB_146	1.34	0.26	1.05	1.77
103	PCB_147_149	5.63	1.35	4.51	8.07
104	PCB_148	0.01	0.00	0.01	0.01
105	PCB_150	0.01	0.00	0.01	0.01
106	PCB_152	0.00	0.00	0.00	0.01
107	PCB_153_168	6.26	1.00	5.07	7.59
108	PCB_154	0.08	0.01	0.07	0.10
109	PCB_155	0.00	0.00	0.00	0.00
110	PCB_156_57	0.69	0.18	0.52	1.02
111	PCB_158	0.76	0.14	0.60	1.01
112	PCB_159	0.00	0.00	0.00	0.00
113	PCB_160	0.02	0.00	0.02	0.02
114	PCB_164	0.46	0.11	0.34	0.65
115	PCB_165	0.01	0.00	0.00	0.01
116	PCB_167	0.25	0.05	0.21	0.33
117	PCB_169	0.00	0.00	0.00	0.01

118	PCB_170	0.63	0.25	0.39	1.06
119	PCB_171_173	0.26	0.11	0.15	0.46
120	PCB_172	0.13	0.08	0.06	0.29
121	PCB_174	0.55	0.40	0.25	1.33
122	PCB_175	0.03	0.02	0.01	0.07
123	PCB_176	0.06	0.04	0.03	0.13
124	PCB_177	0.39	0.27	0.18	0.91
125	PCB_178	0.18	0.14	0.08	0.45
126	PCB_179	0.22	0.17	0.09	0.56
127	PCB_180_193	1.27	0.79	0.70	2.82
128	PCB_181	0.02	0.00	0.01	0.02
129	PCB_182	0.00	0.00	0.00	0.01
130	PCB_183_185	0.54	0.32	0.28	1.17
131	PCB_184	0.00	0.00	0.00	0.00
132	PCB_186	0.00	0.00	0.00	0.00
133	PCB_187	2.86	2.76	0.94	8.33
134	PCB_188	0.00	0.00	0.00	0.00
135	PCB_189	0.03	0.01	0.02	0.04
136	PCB_190	0.09	0.05	0.02	0.18
137	PCB_191	0.03	0.01	0.02	0.05
138	PCB_192	0.00	0.00	0.00	0.00
139	PCB_194	0.11	0.09	0.05	0.29
140	PCB_195	0.06	0.05	0.03	0.17
141	PCB_196	0.08	0.08	0.03	0.23
142	PCB_197_200	0.03	0.03	0.01	0.08
143	PCB_198_199	0.22	0.24	0.07	0.69
144	PCB_201	0.03	0.03	0.01	0.10
145	PCB_202	0.04	0.05	0.01	0.14
146	PCB_203	0.15	0.15	0.06	0.45
147	PCB_204	0.00	0.00	0.00	0.00
148	PCB_205	0.01	0.01	0.00	0.02
149	PCB_206	0.05	0.06	0.02	0.17
150	PCB_207	0.01	0.01	0.00	0.02
151	PCB_208	0.02	0.02	0.00	0.06
152	PCB_209	0.03	0.04	0.00	0.11

Variables transformed to interval of their range
Pumkinseed Carcass

General Statistics for Transformed Data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.46	0.32	0.00	1.00
2	PCB_2	0.53	0.34	0.00	1.00
3	PCB_3	0.48	0.32	0.00	1.00
4	PCB_4	0.61	0.35	-0.00	1.00
5	PCB_5	0.62	0.33	0.00	1.00
6	PCB_6	0.60	0.37	-0.00	1.00
7	PCB_7	0.63	0.35	0.00	1.00
8	PCB_8	0.60	0.33	-0.00	1.00
9	PCB_9	0.59	0.34	-0.00	1.00
10	PCB_10	0.59	0.33	0.00	1.00
11	PCB_11	0.63	0.35	0.00	1.00
12	PCB_14	0.50	0.32	-0.00	1.00
13	PCB_16	0.57	0.40	-0.00	1.00
14	PCB_17	0.61	0.37	0.00	1.00
15	PCB_18_30	0.51	0.40	-0.00	1.00
16	PCB_19	0.61	0.37	0.00	1.00
17	PCB_20_28	0.44	0.39	-0.00	1.00
18	PCB_21_33	0.47	0.37	0.00	1.00
19	PCB_22	0.50	0.37	0.00	1.00
20	PCB_23	0.63	0.38	0.00	1.00
21	PCB_24	0.56	0.38	0.00	1.00
22	PCB_25	0.58	0.43	0.00	1.00
23	PCB_26_29	0.58	0.47	-0.00	1.00
24	PCB_27	0.58	0.39	-0.00	1.00
25	PCB_31	0.48	0.41	-0.00	1.00
26	PCB_32	0.61	0.42	-0.00	1.00
27	PCB_34	0.56	0.40	0.00	1.00
28	PCB_35	0.39	0.37	0.00	1.00

29	PCB_36	0.32	0.36	-0.00	1.00
30	PCB_38	0.61	0.41	-0.00	1.00
31	PCB_39	0.43	0.36	-0.00	1.00
32	PCB_40_41_71	0.58	0.44	-0.00	1.00
33	PCB_42	0.55	0.44	-0.00	1.00
34	PCB_43	0.20	0.40	0.00	1.00
35	PCB_44_47_65	0.61	0.36	-0.00	1.00
36	PCB_45_51	0.53	0.40	0.00	1.00
37	PCB_46	0.56	0.35	-0.00	1.00
38	PCB_48	0.64	0.41	0.00	1.00
39	PCB_49_69	0.62	0.40	-0.00	1.00
40	PCB_50_53	0.56	0.43	-0.00	1.00
41	PCB_52	0.57	0.37	-0.00	1.00
42	PCB_54	0.60	0.38	0.00	1.00
43	PCB_55	0.53	0.38	-0.00	1.00
44	PCB_57	0.52	0.41	-0.00	1.00
45	PCB_58	0.58	0.47	0.00	1.00
46	PCB_59_62_75	0.52	0.43	0.00	1.00
47	PCB_60	0.35	0.35	0.00	1.00
48	PCB_61_70_74_76	0.54	0.33	-0.00	1.00
49	PCB_63	0.60	0.38	-0.00	1.00
50	PCB_64	0.55	0.37	0.00	1.00
51	PCB_66	0.59	0.35	0.00	1.00
52	PCB_67	0.47	0.38	0.00	1.00
53	PCB_68	0.65	0.39	0.00	1.00
54	PCB_72	0.64	0.43	0.00	1.00
55	PCB_73	0.33	0.36	-0.00	1.00
56	PCB_78	0.20	0.40	0.00	1.00
57	PCB_79	0.41	0.35	-0.00	1.00
58	PCB_80	0.38	0.34	0.00	1.00
59	PCB_82	0.55	0.39	-0.00	1.00
60	PCB_83	0.48	0.38	0.00	1.00
61	PCB_84	0.55	0.33	0.00	1.00
62	PCB_85_117_116	0.49	0.32	-0.00	1.00
63	Coplanar1	0.70	0.37	0.00	1.00
64	PCB_88_91	0.57	0.39	0.00	1.00
65	PCB_89	0.34	0.35	0.00	1.00
66	PCB_90_101_113	0.66	0.35	-0.00	1.00
67	PCB_92	0.63	0.35	0.00	1.00
68	Coplanar2	0.48	0.34	-0.00	1.00
69	PCB_94	0.41	0.35	-0.00	1.00
70	PCB_95	0.60	0.35	-0.00	1.00
71	PCB_96	0.53	0.33	0.00	1.00
72	PCB_99	0.75	0.38	0.00	1.00
73	PCB_103	0.63	0.38	0.00	1.00
74	PCB_104	0.67	0.35	0.00	1.00
75	PCB_105	0.49	0.32	0.00	1.00
76	PCB_106	0.46	0.32	0.00	1.00
77	PCB_109	0.66	0.34	0.00	1.00
78	PCB_110_115	0.42	0.36	-0.00	1.00
79	PCB_111	0.58	0.41	0.00	1.00
80	PCB_112	0.39	0.33	-0.00	1.00
81	PCB_118	0.66	0.35	-0.00	1.00
82	PCB_120	0.61	0.40	-0.00	1.00
83	PCB_121	0.61	0.38	-0.00	1.00
84	PCB_122	0.41	0.32	0.00	1.00
85	PCB_123	0.56	0.39	-0.00	1.00
86	PCB_126	0.30	0.36	0.00	1.00
87	PCB_127	0.39	0.35	0.00	1.00
88	PCB_128_166	0.36	0.36	0.00	1.00
89	PCB_129_138_163	0.41	0.39	0.00	1.00
90	PCB_130	0.45	0.35	0.00	1.00
91	PCB_131	0.62	0.36	-0.00	1.00
92	PCB_132	0.24	0.38	0.00	1.00
93	PCB_133	0.71	0.38	-0.00	1.00
94	PCB_134_143	0.57	0.46	-0.00	1.00
95	PCB_135_151	0.38	0.34	0.00	1.00
96	PCB_136	0.43	0.36	-0.00	1.00
97	PCB_137	0.42	0.35	0.00	1.00
98	PCB_139_140	0.35	0.38	0.00	1.00
99	PCB_141	0.44	0.40	-0.00	1.00

100	PCB_142	0.47	0.37	-0.00	1.00
101	PCB_145	0.59	0.33	0.00	1.00
102	PCB_146	0.41	0.35	-0.00	1.00
103	PCB_147_149	0.31	0.38	-0.00	1.00
104	PCB_148	0.56	0.43	0.00	1.00
105	PCB_150	0.42	0.34	0.00	1.00
106	PCB_152	0.38	0.36	-0.00	1.00
107	PCB_153_168	0.47	0.40	0.00	1.00
108	PCB_154	0.51	0.34	0.00	1.00
109	PCB_155	0.25	0.38	0.00	1.00
110	PCB_156_57	0.34	0.35	0.00	1.00
111	PCB_158	0.38	0.34	-0.00	1.00
112	PCB_159	0.42	0.34	0.00	1.00
113	PCB_160	0.53	0.40	0.00	1.00
114	PCB_164	0.39	0.37	-0.00	1.00
115	PCB_165	0.48	0.42	-0.00	1.00
116	PCB_167	0.35	0.36	-0.00	1.00
117	PCB_169	0.25	0.38	-0.00	1.00
118	PCB_170	0.36	0.37	-0.00	1.00
119	PCB_171_173	0.35	0.35	0.00	1.00
120	PCB_172	0.29	0.37	0.00	1.00
121	PCB_174	0.28	0.37	0.00	1.00
122	PCB_175	0.30	0.36	-0.00	1.00
123	PCB_176	0.31	0.36	0.00	1.00
124	PCB_177	0.29	0.37	-0.00	1.00
125	PCB_178	0.27	0.37	-0.00	1.00
126	PCB_179	0.28	0.37	-0.00	1.00
127	PCB_180_193	0.27	0.37	0.00	1.00
128	PCB_181	0.40	0.34	-0.00	1.00
129	PCB_182	0.60	0.33	0.00	1.00
130	PCB_183_185	0.29	0.36	-0.00	1.00
131	PCB_184	0.30	0.36	0.00	1.00
132	PCB_186	0.64	0.35	0.00	1.00
133	PCB_187	0.26	0.37	-0.00	1.00
134	PCB_188	0.24	0.38	-0.00	1.00
135	PCB_189	0.39	0.39	-0.00	1.00
136	PCB_190	0.44	0.34	0.00	1.00
137	PCB_191	0.32	0.37	-0.00	1.00
138	PCB_192	0.41	0.33	0.00	1.00
139	PCB_194	0.24	0.38	0.00	1.00
140	PCB_195	0.24	0.38	-0.00	1.00
141	PCB_196	0.24	0.38	0.00	1.00
142	PCB_197_200	0.24	0.38	0.00	1.00
143	PCB_198_199	0.24	0.38	0.00	1.00
144	PCB_201	0.23	0.38	0.00	1.00
145	PCB_202	0.22	0.39	0.00	1.00
146	PCB_203	0.23	0.39	-0.00	1.00
147	PCB_204	0.27	0.37	0.00	1.00
148	PCB_205	0.23	0.39	0.00	1.00
149	PCB_206	0.21	0.40	-0.00	1.00
150	PCB_207	0.20	0.40	-0.00	1.00
151	PCB_208	0.21	0.40	0.00	1.00
152	PCB_209	0.22	0.39	-0.00	1.00

Pumkinseed Carcass

No.	Eigenvalue	Cum. Var
1	3.3057	66.11
2	1.0292	86.70
3	0.4662	96.02
4	0.1110	98.24
5	0.0878	100.00
6	0.0000	100.00

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 1	PCB_1	0.66	0.67	0.68
Var 2	PCB_2	0.89	0.90	0.92
Var 3	PCB_3	0.62	0.64	0.66
Var 4	PCB_4	0.96	0.96	0.98

Var	5	PCB_5	0.89	0.94	0.94
Var	6	PCB_6	0.98	1.00	1.00
Var	7	PCB_7	0.97	0.99	0.99
Var	8	PCB_8	0.88	0.90	0.95
Var	9	PCB_9	0.98	0.98	0.98
Var	10	PCB_10	0.95	0.96	0.96
Var	11	PCB_11	0.98	0.99	0.99
Var	12	PCB_14	0.71	0.72	0.72
Var	13	PCB_16	0.72	0.98	0.99
Var	14	PCB_17	0.99	1.00	1.00
Var	15	PCB_18_30	0.86	1.00	1.00
Var	16	PCB_19	0.97	0.97	1.00
Var	17	PCB_20_28	0.60	0.77	0.93
Var	18	PCB_21_33	0.56	0.90	0.97

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM			2	3	4
Var	19	PCB_22	0.49	0.82	0.97
Var	20	PCB_23	0.95	0.95	0.98
Var	21	PCB_24	0.17	0.17	0.73
Var	22	PCB_25	0.87	0.96	0.97
Var	23	PCB_26_29	0.82	0.97	0.97
Var	24	PCB_27	0.88	0.91	0.93
Var	25	PCB_31	0.70	0.88	0.96
Var	26	PCB_32	0.92	0.99	0.99
Var	27	PCB_34	0.90	0.99	1.00
Var	28	PCB_35	0.25	0.38	0.99
Var	29	PCB_36	0.17	0.48	0.59
Var	30	PCB_38	0.64	0.97	0.97
Var	31	PCB_39	0.46	0.83	0.92
Var	32	PCB_40_41_71	0.76	0.97	0.98
Var	33	PCB_42	0.83	0.98	0.99
Var	34	PCB_43	0.76	0.99	1.00
Var	35	PCB_44_47_65	0.92	0.92	0.96
Var	36	PCB_45_51	0.88	0.97	1.00

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM			2	3	4
Var	37	PCB_46	0.47	0.78	0.94
Var	38	PCB_48	-0.00	0.84	1.00
Var	39	PCB_49_69	0.95	0.99	0.99
Var	40	PCB_50_53	0.87	0.99	0.99
Var	41	PCB_52	0.96	1.00	1.00
Var	42	PCB_54	0.94	0.95	1.00
Var	43	PCB_55	-0.00	0.80	0.87
Var	44	PCB_57	0.78	0.84	0.88
Var	45	PCB_58	0.81	0.95	0.95
Var	46	PCB_59_62_75	0.76	0.92	0.95
Var	47	PCB_60	0.63	0.95	1.00
Var	48	PCB_61_70_74_76	0.88	0.89	0.91
Var	49	PCB_63	0.91	0.94	0.99
Var	50	PCB_64	0.59	0.99	1.00
Var	51	PCB_66	0.86	0.86	0.99
Var	52	PCB_67	0.84	0.97	0.97
Var	53	PCB_68	0.96	0.97	0.97
Var	54	PCB_72	0.94	0.98	0.98

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM			2	3	4
Var	55	PCB_73	0.47	0.98	0.99
Var	56	PCB_78	0.76	0.99	1.00
Var	57	PCB_79	0.68	0.79	0.83
Var	58	PCB_80	0.43	0.96	0.97
Var	59	PCB_82	0.03	0.10	0.23
Var	60	PCB_83	0.60	0.68	0.76

Var 61	PCB_84	0.29	0.97	0.97
Var 62	PCB_85_117_116	0.13	0.97	1.00
Var 63	Coplanar1	0.92	0.96	1.00
Var 64	PCB_88_91	0.87	0.92	0.99
Var 65	PCB_89	0.45	0.96	0.97
Var 66	PCB_90_101_113	0.54	0.96	0.96
Var 67	PCB_92	0.89	0.90	0.92
Var 68	Coplanar2	0.50	0.51	0.98
Var 69	PCB_94	0.53	0.58	0.81
Var 70	PCB_95	0.41	1.00	1.00
Var 71	PCB_96	0.46	0.97	0.98
Var 72	PCB_99	0.84	0.99	0.99

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 73	PCB_103	0.93	0.93	0.93
Var 74	PCB_104	0.89	0.93	0.99
Var 75	PCB_105	0.12	0.99	1.00
Var 76	PCB_106	0.10	0.98	0.99
Var 77	PCB_109	0.52	0.99	1.00
Var 78	PCB_110_115	0.74	0.84	0.88
Var 79	PCB_111	0.86	0.89	0.89
Var 80	PCB_112	0.02	0.96	0.98
Var 81	PCB_118	0.53	0.94	0.96
Var 82	PCB_120	0.93	0.95	0.95
Var 83	PCB_121	0.91	0.92	0.92
Var 84	PCB_122	0.09	0.59	0.83
Var 85	PCB_123	0.19	0.59	0.66
Var 86	PCB_126	0.66	0.89	0.95
Var 87	PCB_127	0.03	0.96	0.98
Var 88	PCB_128_166	0.09	0.95	1.00
Var 89	PCB_129_138_163	0.57	0.96	0.99
Var 90	PCB_130	0.55	0.98	1.00

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 91	PCB_131	0.54	0.54	0.94
Var 92	PCB_132	0.76	0.99	0.99
Var 93	PCB_133	0.28	0.52	0.62
Var 94	PCB_134_143	0.45	0.47	0.88
Var 95	PCB_135_151	0.96	0.97	0.97
Var 96	PCB_136	0.85	0.85	1.00
Var 97	PCB_137	0.03	0.97	0.99
Var 98	PCB_139_140	-0.00	0.95	0.99
Var 99	PCB_141	0.87	0.96	1.00
Var 100	PCB_142	0.92	0.99	0.99
Var 101	PCB_145	0.41	0.48	0.98
Var 102	PCB_146	0.94	0.95	0.99
Var 103	PCB_147_149	0.99	0.99	1.00
Var 104	PCB_148	0.11	0.66	0.68
Var 105	PCB_150	0.02	0.03	0.84
Var 106	PCB_152	0.05	0.05	0.70
Var 107	PCB_153_168	0.81	0.92	1.00
Var 108	PCB_154	0.01	0.77	0.77

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 109	PCB_155	0.67	0.99	0.99
Var 110	PCB_156_57	-0.00	0.99	0.99
Var 111	PCB_158	0.10	0.97	1.00
Var 112	PCB_159	0.91	0.91	0.97
Var 113	PCB_160	0.10	0.24	1.00
Var 114	PCB_164	0.99	1.00	1.00
Var 115	PCB_165	0.67	0.72	0.75
Var 116	PCB_167	0.22	0.95	0.99

Var 117 PCB_169	0.81	0.99	1.00
Var 118 PCB_170	1.00	1.00	1.00
Var 119 PCB_171_173	0.99	0.99	1.00
Var 120 PCB_172	0.94	1.00	1.00
Var 121 PCB_174	0.90	1.00	1.00
Var 122 PCB_175	0.92	1.00	1.00
Var 123 PCB_176	0.92	0.99	0.99
Var 124 PCB_177	0.90	1.00	1.00
Var 125 PCB_178	0.87	1.00	1.00
Var 126 PCB_179	0.88	1.00	1.00

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4
Var 127 PCB_180_193	0.91	1.00	1.00
Var 128 PCB_181	0.17	0.97	1.00
Var 129 PCB_182	0.33	0.98	0.99
Var 130 PCB_183_185	0.91	0.99	1.00
Var 131 PCB_184	0.87	0.98	0.99
Var 132 PCB_186	0.39	0.91	0.98
Var 133 PCB_187	0.86	1.00	1.00
Var 134 PCB_188	0.81	0.99	1.00
Var 135 PCB_189	0.97	1.00	1.00
Var 136 PCB_190	0.87	0.87	0.96
Var 137 PCB_191	0.99	1.00	1.00
Var 138 PCB_192	0.61	0.64	0.65
Var 139 PCB_194	0.85	0.99	1.00
Var 140 PCB_195	0.85	0.99	1.00
Var 141 PCB_196	0.85	1.00	1.00
Var 142 PCB_197_200	0.84	1.00	1.00
Var 143 PCB_198_199	0.82	1.00	1.00
Var 144 PCB_201	0.81	1.00	1.00

Pumkinseed Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4
Var 145 PCB_202	0.79	0.99	1.00
Var 146 PCB_203	0.83	1.00	1.00
Var 147 PCB_204	0.80	0.98	0.99
Var 148 PCB_205	0.84	1.00	1.00
Var 149 PCB_206	0.77	0.99	1.00
Var 150 PCB_207	0.76	0.99	1.00
Var 151 PCB_208	0.75	0.99	1.00
Var 152 PCB_209	0.73	0.99	1.00

Pumkinseed Carcass

Number of tries in the Varimax Procedure = 3

Normalized Varimax Coordinates

	Comm.	1	2	3	4
1 1-P-2	1.0000	0.0574	0.7918	0.1349	0.0093
2 2-P-3	1.0000	0.9865	0.0615	0.1687	-0.0575
3 3-P-3	1.0000	0.2124	0.1573	0.6008	0.0216
4 4-P-3	1.0000	0.5755	0.0909	0.1783	-0.0163
5 5-P-2	1.0000	0.5328	0.0369	0.2150	0.2196
	>= 0.1	4	2	5	1
	< 0.1	1	3	0	4

Pumkinseed Carcass

Number of tries in the Varimax Procedure = 3

Normalized Varimax Coordinates

	Comm.	5
1 1-P-2	1.0000	0.0066
2 2-P-3	1.0000	-0.1593
3 3-P-3	1.0000	0.0079

4	4-P-3	1.0000	0.1716
5	5-P-2	1.0000	-0.0044

>= 0.1	2
< 0.1	3

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Pumkinseed Carcass
PumkinseedCarcass

Number of Samples	5
Number of Variables	152
Number of End-Members in Model.	4
Starting Option used	1
Initial DENEG value	0.25000
Greatest allowed negative in END MEMBER Comp. . .	0.05000
Greatest allowed negative in sample composition .	0.05000
VARIMAX Cutoff used	0.01000

Maximum Value Row Index Matrix

Iteration	Factor 1	2	3	4
0	2	1	3	5
1	4	1	3	5
2	4	1	3	5

Varimax Coordinates of Extreme Raw Samples

	COMM.	EM 1	EM 2	EM 3	EM 4
4 4-P-3	0.9760	0.9187	0.1422	0.2908	-0.1647
1 1-P-2	1.0000	0.0734	0.9830	0.1682	0.0051
3 3-P-3	0.9972	0.3270	0.2385	0.9127	0.0198
5 5-P-2	0.9893	0.8755	0.0587	0.3549	0.3056

PumkinseedCarcass

********** INITIALIZATION **********

Compositions of End Members

	EM 1	EM 2	EM 3	EM 4
1 PCB_1	0.0199	0.0020	0.0127	0.0180
2 PCB_2	0.0002	-0.0000	0.0001	0.0002
3 PCB_3	0.0020	-0.0000	0.0014	0.0017
4 PCB_4	0.2693	0.0367	0.1831	0.3315
5 PCB_5	0.0010	-0.0000	0.0008	0.0011
6 PCB_6	0.0306	0.0075	0.0172	0.0292
7 PCB_7	0.0060	-0.0000	0.0039	0.0060
8 PCB_8	0.1115	0.0201	0.0783	0.0919
9 PCB_9	0.0082	0.0019	0.0052	0.0079
10 PCB_10	0.0270	0.0034	0.0184	0.0278
11 PCB_11	0.0073	-0.0000	0.0047	0.0075
12 PCB_14	0.0273	0.0101	0.0227	0.0284
13 PCB_16	0.0363	0.0252	0.0218	0.0382
14 PCB_17	0.4258	0.0977	0.2440	0.4333
15 PCB_18_30	0.2859	0.1352	0.1474	0.2897
16 PCB_19	0.1422	0.0246	0.0916	0.1757
17 PCB_20_28	0.8314	0.4556	0.4549	0.6103
18 PCB_21_33	0.0544	0.0381	0.0333	0.0452
19 PCB_22	0.1393	0.0914	0.0782	0.1058
20 PCB_23	0.0005	0.0000	0.0002	0.0004
21 PCB_24	0.0025	0.0037	0.0047	0.0119
22 PCB_25	0.3194	0.0964	0.1331	0.2824
23 PCB_26_29	0.7050	0.2290	0.2322	0.6938
24 PCB_27	0.2846	0.0222	0.1021	0.2466
25 PCB_31	0.4794	0.2508	0.2519	0.3772
26 PCB_32	0.3799	0.1324	0.1914	0.3689
27 PCB_34	0.0052	0.0014	0.0022	0.0045
28 PCB_35	0.0000	-0.0000	0.0004	0.0008
29 PCB_36	0.0561	0.0465	0.0403	0.0454
30 PCB_38	0.0031	0.0013	0.0006	0.0027
31 PCB_39	0.0028	0.0019	0.0016	0.0022
32 PCB_40_41_71	0.6207	0.3797	0.3538	0.5884
33 PCB_42	0.5249	0.2893	0.3012	0.4862
34 PCB_43	0.0001	0.0172	-0.0000	0.0000
35 PCB_44_47_65	3.2985	1.1329	2.0971	2.8475
36 PCB_45_51	0.4511	0.2448	0.2784	0.5133

37	PCB_46	0.0253	0.0197	0.0108	0.0348
38	PCB_48	0.0648	0.0645	0.0419	0.0495
39	PCB_49_69	4.2893	1.1522	2.1798	4.0630
40	PCB_50_53	0.3972	0.1308	0.1562	0.4250
41	PCB_52	6.1830	2.7238	3.8266	6.2400
42	PCB_54	0.0292	0.0039	0.0167	0.0399
43	PCB_55	0.2773	0.2816	0.2066	0.2362
44	PCB_57	0.0573	0.0151	0.0212	0.0733
45	PCB_58	0.0208	0.0097	0.0099	0.0208
46	PCB_59_62_75	0.3172	0.1119	0.1139	0.2615
47	PCB_60	0.1167	0.1704	0.0979	0.0877
48	PCB_61_70_74_76	2.3629	1.4675	1.9344	2.2150
49	PCB_63	0.0824	0.0407	0.0558	0.0716
50	PCB_64	0.7016	0.5267	0.4419	0.6466
51	PCB_66	1.6934	0.9671	1.3089	1.4213
52	PCB_67	0.0873	0.0332	0.0379	0.0870
53	PCB_68	0.1360	0.0195	0.0715	0.1304
54	PCB_72	0.1934	0.0344	0.0810	0.1951
55	PCB_73	0.0541	0.0825	0.0395	0.0429
56	PCB_78	0.0000	0.0020	-0.0000	0.0000
57	PCB_79	0.0501	0.0322	0.0350	0.0438
58	PCB_80	0.0036	0.0069	0.0018	0.0026
59	PCB_82	0.3697	0.3606	0.3872	0.3382
60	PCB_83	0.1332	0.0973	0.0939	0.1601
61	PCB_84	0.6193	0.5338	0.3735	0.5677
62	PCB_85_117_116	1.2147	0.8838	1.4939	1.1966
63	Coplanar1	3.9309	2.4123	3.4822	3.6956
64	PCB_88_91	1.0896	0.8455	0.9135	1.0124
65	PCB_89	0.0111	0.0210	0.0076	0.0101
66	PCB_90_101_113	7.1139	4.7845	7.8075	7.3505
67	PCB_92	2.0150	1.2151	1.7080	1.9320
68	Coplanar2	0.2707	0.1531	0.2084	0.1859
69	PCB_94	0.0235	0.0089	0.0120	0.0145
70	PCB_95	3.9144	3.3338	2.5595	3.7717
71	PCB_96	0.0189	0.0148	0.0097	0.0194
72	PCB_99	4.6219	2.5790	4.4729	4.7099
73	PCB_103	0.1121	0.0471	0.0780	0.1096
74	PCB_104	0.0040	0.0000	0.0028	0.0032
75	PCB_105	1.4977	1.0329	1.9552	1.5346
76	PCB_106	0.2242	0.1729	0.2857	0.2336
77	PCB_109	0.4717	0.2467	0.5362	0.4815
78	PCB_110_115	7.3276	6.4610	6.5617	7.6480
79	PCB_111	0.0130	0.0039	0.0063	0.0128
80	PCB_112	0.0922	0.0506	0.1569	0.0908
81	PCB_118	5.2365	3.1825	5.7340	5.2194
82	PCB_120	0.0452	0.0153	0.0261	0.0501
83	PCB_121	0.0043	0.0009	0.0023	0.0040
84	PCB_122	0.0507	0.0488	0.0563	0.0459
85	PCB_123	0.1068	0.0801	0.1140	0.1004
86	PCB_126	0.0085	0.0152	0.0086	0.0098
87	PCB_127	0.0099	0.0100	0.0137	0.0113
88	PCB_128_166	1.0108	1.1218	1.6181	1.2626
89	PCB_129_138_163	7.3176	9.7967	10.8782	8.4014
90	PCB_130	0.3765	0.4403	0.4934	0.3697
91	PCB_131	0.0509	0.0545	0.0529	0.0389
92	PCB_132	1.2504	1.6023	1.2440	1.2316
93	PCB_133	0.1166	0.1281	0.1316	0.1263
94	PCB_134_143	0.3011	0.3133	0.3083	0.2413
95	PCB_135_151	2.0015	3.5939	2.4861	1.8083
96	PCB_136	0.4616	0.5693	0.4871	0.3734
97	PCB_137	0.4163	0.3151	0.7076	0.5477
98	PCB_139_140	0.1494	0.1385	0.2233	0.1831
99	PCB_141	0.7336	1.1769	1.0900	0.8493
100	PCB_142	0.2080	0.3280	0.2984	0.2029
101	PCB_145	0.0017	0.0018	0.0015	0.0011
102	PCB_146	1.1211	1.7725	1.4717	1.2699
103	PCB_147_149	4.7951	8.0670	6.1088	4.7998
104	PCB_148	0.0081	0.0069	0.0089	0.0081
105	PCB_150	0.0070	0.0064	0.0067	0.0058
106	PCB_152	0.0049	0.0045	0.0044	0.0037
107	PCB_153_168	5.2481	7.5895	7.2153	6.1463

108	PCB_154	0.0817	0.0782	0.0994	0.0857
109	PCB_155	0.0003	0.0008	0.0003	0.0003
110	PCB_156_57	0.6346	0.5209	1.0203	0.7152
111	PCB_158	0.6575	0.7185	1.0170	0.7860
112	PCB_159	0.0016	0.0029	0.0020	0.0010
113	PCB_160	0.0189	0.0241	0.0200	0.0243
114	PCB_164	0.3904	0.6503	0.5362	0.3903
115	PCB_165	0.0067	0.0036	0.0039	0.0079
116	PCB_167	0.2125	0.2541	0.3334	0.2558
117	PCB_169	0.0012	0.0067	0.0012	0.0007
118	PCB_170	0.4744	1.0555	0.7594	0.4820
119	PCB_171_173	0.1914	0.4643	0.2943	0.1952
120	PCB_172	0.0844	0.2874	0.1283	0.0788
121	PCB_174	0.3707	1.3266	0.4999	0.2906
122	PCB_175	0.0207	0.0685	0.0287	0.0183
123	PCB_176	0.0486	0.1345	0.0612	0.0321
124	PCB_177	0.2778	0.9084	0.3530	0.2080
125	PCB_178	0.1217	0.4552	0.1496	0.0977
126	PCB_179	0.1523	0.5620	0.1882	0.1067
127	PCB_180_193	0.8698	2.8187	1.1766	0.7667
128	PCB_181	0.0133	0.0155	0.0218	0.0162
129	PCB_182	0.0041	0.0000	0.0062	0.0043
130	PCB_183_185	0.3764	1.1738	0.5079	0.3540
131	PCB_184	0.0007	0.0020	0.0009	0.0007
132	PCB_186	0.0002	0.0000	0.0003	0.0002
133	PCB_187	1.5966	8.3291	2.0977	1.1714
134	PCB_188	0.0008	0.0031	0.0009	0.0008
135	PCB_189	0.0226	0.0411	0.0347	0.0216
136	PCB_190	0.0884	0.1789	0.1143	0.0323
137	PCB_191	0.0188	0.0518	0.0303	0.0185
138	PCB_192	0.0001	-0.0000	0.0000	0.0001
139	PCB_194	0.0603	0.2855	0.0808	0.0538
140	PCB_195	0.0368	0.1702	0.0483	0.0323
141	PCB_196	0.0463	0.2321	0.0584	0.0347
142	PCB_197_200	0.0149	0.0807	0.0182	0.0101
143	PCB_198_199	0.1130	0.6853	0.1287	0.0701
144	PCB_201	0.0148	0.0978	0.0162	0.0105
145	PCB_202	0.0184	0.1439	0.0197	0.0159
146	PCB_203	0.0805	0.4513	0.0973	0.0645
147	PCB_204	0.0001	0.0008	0.0001	0.0001
148	PCB_205	0.0047	0.0247	0.0061	0.0041
149	PCB_206	0.0221	0.1726	0.0227	0.0218
150	PCB_207	0.0028	0.0199	0.0028	0.0029
151	PCB_208	0.0059	0.0591	0.0050	0.0060
152	PCB_209	0.0068	0.1056	0.0042	0.0089

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4
1	1-P-2	-0.0000	1.0000	-0.0000	0.0000
2	2-P-3	0.7672	-0.0112	-0.3080	0.5520
3	3-P-3	-0.0000	0.0000	1.0000	-0.0000
4	4-P-3	1.0000	0.0000	0.0000	0.0000
5	5-P-2	-0.0000	0.0000	-0.0000	1.0000

****

In the DENEG subroutine, it was found that none of the proportions
were less than -0.05000, hence, the DENEG process was not continued

****

NORMAL END OF JOB

07/27/09 15:17:29
PumkinseedFillet

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 Number of Variables . . . . . . . . . . . . . . 153
 Number of Samples . . . . . . . . . . . . . . . 5
 Cum sums sqrs . . . . . . . . . . . . . . . . . 100.0
 Data transformation option  . . . . . . . . . . 2
 Print Option  . . . . . . . . . . . . . . . . . minimal
 Proportion to constant sum of 100 option  . . Y
 Manually defined range. . . . . . . . . . . . . no
```

The data will be proportioned to a constant sum of 100.
PumkinseedFillet

The following are the input vectors

	1	2	3	4	5	6	7
1-P-2	5.54	0.00	2.91	66.40	0.00	15.50	4.37
2-P-3	366.00	3.79	37.90	3840.00	9.78	372.00	82.60
3-P-3	455.00	4.07	53.50	6000.00	27.10	640.00	155.00
4-P-3	160.00	0.00	15.40	3050.00	12.20	406.00	80.40
5-P-2	266.00	3.22	23.40	5360.00	19.10	551.00	106.00

PumkinseedFillet

The following are the input vectors

	8	9	10	11	12	13	14
1-P-2	50.80	4.60	5.42	0.00	19.30	49.50	157.00
2-P-3	1380.00	112.00	416.00	94.60	346.00	406.00	5360.00
3-P-3	3130.00	212.00	652.00	191.00	763.00	670.00	9310.00
4-P-3	1450.00	112.00	314.00	84.00	242.00	369.00	4840.00
5-P-2	1630.00	144.00	419.00	122.00	399.00	681.00	6970.00

PumkinseedFillet

The following are the input vectors

	15	16	17	18	19	20	21
1-P-2	222.00	44.00	782.00	75.70	163.00	0.00	8.42
2-P-3	3550.00	1960.00	8080.00	568.00	1460.00	5.45	0.00
3-P-3	5430.00	3090.00	17800.00	1220.00	3190.00	11.30	0.00
4-P-3	3280.00	1670.00	10300.00	604.00	1800.00	8.59	0.00
5-P-2	4910.00	3180.00	11900.00	952.00	2100.00	9.53	151.00

PumkinseedFillet

The following are the input vectors

	22	23	24	25	26	27	28
1-P-2	152.00	349.00	32.70	425.00	227.00	0.00	75.30
2-P-3	3450.00	8380.00	3020.00	4940.00	4600.00	64.20	675.00
3-P-3	5290.00	9030.00	3740.00	9870.00	8020.00	98.90	1640.00
4-P-3	3910.00	8810.00	3720.00	5820.00	4990.00	63.20	570.00
5-P-2	5240.00	12700.00	4420.00	7340.00	6780.00	82.00	697.00

PumkinseedFillet

The following are the input vectors

	29	30	31	32	33	34	35
1-P-2	0.00	2.81	577.00	483.00	42.20	1790.00	374.00
2-P-3	29.30	30.70	7420.00	6030.00	0.00	33800.00	6210.00
3-P-3	40.20	67.80	16400.00	13600.00	0.00	83100.00	12800.00
4-P-3	37.90	29.10	8480.00	6720.00	0.00	40500.00	5830.00
5-P-2	30.80	31.30	10800.00	8640.00	0.00	51900.00	8740.00

PumkinseedFillet

The following are the input vectors

	36	37	38	39	40	41	42
1-P-2	29.60	101.00	1830.00	191.00	4190.00	5.15	14.10
2-P-3	294.00	758.00	48600.00	4840.00	78300.00	351.00	0.00
3-P-3	409.00	1770.00	91900.00	6630.00	151000.00	554.00	0.00
4-P-3	347.00	459.00	52400.00	5120.00	80800.00	300.00	0.00

5-P-2	642.00	915.00	73300.00	7310.00	112000.00	600.00	181.00

PumkinseedFillet

The following are the input vectors

	43	44	45	46	47	48	49
1-P-2	474.00	17.50	11.00	204.00	282.00	2590.00	64.10
2-P-3	3280.00	987.00	410.00	3460.00	1240.00	27400.00	903.00
3-P-3	9760.00	1160.00	463.00	4300.00	4480.00	91100.00	2480.00
4-P-3	3510.00	914.00	409.00	4160.00	1490.00	28500.00	1100.00
5-P-2	4200.00	1150.00	431.00	5010.00	1660.00	39700.00	1270.00

PumkinseedFillet

The following are the input vectors

	50	51	52	53	54	55	56
1-P-2	840.00	1640.00	49.90	30.30	52.00	122.00	0.00
2-P-3	8350.00	18500.00	1200.00	1550.00	2340.00	564.00	40.30
3-P-3	19400.00	61200.00	1790.00	3250.00	3500.00	1450.00	39.90
4-P-3	8980.00	22300.00	1070.00	1940.00	2690.00	568.00	34.40
5-P-2	11300.00	26700.00	1460.00	2470.00	3700.00	703.00	0.00

PumkinseedFillet

The following are the input vectors

	57	58	59	60	61	62	63
1-P-2	34.50	8.65	540.00	145.00	822.00	1290.00	3380.00
2-P-3	654.00	46.70	4530.00	1470.00	7520.00	11000.00	42900.00
3-P-3	2270.00	192.00	16800.00	5650.00	17100.00	56400.00	177000.00
4-P-3	437.00	46.80	4050.00	2380.00	7190.00	12400.00	44500.00
5-P-2	575.00	47.40	5260.00	1740.00	9160.00	19300.00	58700.00

PumkinseedFillet

The following are the input vectors

	64	65	66	67	68	69	70
1-P-2	1290.00	28.40	6970.00	1760.00	206.00	12.10	5210.00
2-P-3	12000.00	139.00	81900.00	21300.00	2700.00	190.00	46300.00
3-P-3	38900.00	346.00	342000.00	71100.00	8980.00	490.00	134000.00
4-P-3	13100.00	133.00	84700.00	24400.00	3440.00	297.00	49100.00
5-P-2	16600.00	162.00	128000.00	32200.00	3670.00	270.00	63600.00

PumkinseedFillet

The following are the input vectors

	71	72	73	74	75	76	77
1-P-2	19.20	3560.00	65.60	0.00	1610.00	257.00	384.00
2-P-3	226.00	43000.00	1260.00	37.20	15800.00	2470.00	5140.00
3-P-3	398.00	187000.00	3310.00	104.00	97500.00	13000.00	23200.00
4-P-3	198.00	47000.00	1450.00	47.80	16900.00	2590.00	5310.00
5-P-2	291.00	74600.00	1840.00	51.70	28800.00	3900.00	9170.00

PumkinseedFillet

The following are the input vectors

	78	79	80	81	82	83	84
1-P-2	9580.00	5.50	77.50	4470.00	23.20	0.00	71.80
2-P-3	91600.00	79.00	908.00	57600.00	495.00	41.00	606.00
3-P-3	315000.00	201.00	6110.00	296000.00	917.00	89.40	2860.00
4-P-3	90800.00	129.00	972.00	61100.00	528.00	53.60	606.00
5-P-2	132000.00	211.00	1600.00	105000.00	755.00	69.20	850.00

PumkinseedFillet

The following are the input vectors

	85	86	87	88	89	90	91
1-P-2	105.00	23.90	13.40	1890.00	17500.00	737.00	91.00
2-P-3	1140.00	183.00	105.00	12100.00	91500.00	4190.00	575.00
3-P-3	5780.00	1180.00	674.00	71100.00	448000.00	20000.00	2510.00
4-P-3	1570.00	238.00	106.00	13100.00	102000.00	4800.00	663.00
5-P-2	1400.00	194.00	188.00	20300.00	152000.00	5560.00	613.00

PumkinseedFillet

The following are the input vectors

	92	93	94	95	96	97	98
1-P-2	2890.00	215.00	535.00	5840.00	958.00	591.00	225.00
2-P-3	15700.00	1370.00	3080.00	18600.00	4650.00	6230.00	1820.00
3-P-3	65300.00	5440.00	13400.00	94700.00	19200.00	29100.00	9850.00
4-P-3	17500.00	1620.00	4440.00	25800.00	5750.00	6000.00	2040.00
5-P-2	20000.00	1940.00	3890.00	26300.00	5250.00	8430.00	2720.00

PumkinseedFillet

The following are the input vectors

	99	100	101	102	103	104	105
1-P-2	2270.00	510.00	2.56	2950.00	14800.00	11.40	8.76
2-P-3	9710.00	1960.00	17.20	13900.00	56800.00	86.60	70.50
3-P-3	45100.00	11600.00	60.90	64100.00	265000.00	345.00	258.00
4-P-3	9190.00	2540.00	21.30	15700.00	65200.00	110.00	88.20
5-P-2	13600.00	2790.00	14.50	0.00	76100.00	122.00	82.10

PumkinseedFillet

The following are the input vectors

	106	107	108	109	110	111	112
1-P-2	5.88	12700.00	109.00	0.00	807.00	1240.00	3.50
2-P-3	45.00	60400.00	851.00	2.99	6660.00	7540.00	37.50
3-P-3	168.00	0.00	3790.00	8.56	43800.00	42000.00	122.00
4-P-3	57.50	69000.00	1040.00	5.41	7330.00	8620.00	14.90
5-P-2	58.20	101000.00	1210.00	5.80	13000.00	12300.00	7.87

PumkinseedFillet

The following are the input vectors

	113	114	115	116	117	118	119
1-P-2	0.00	44.40	1150.00	6.60	439.00	8.96	1400.00
2-P-3	0.00	155.00	3880.00	78.40	2480.00	12.10	3850.00
3-P-3	0.00	1270.00	23000.00	143.00	13900.00	45.90	23600.00
4-P-3	0.00	199.00	5100.00	94.70	2490.00	13.90	4010.00
5-P-2	15000.00	293.00	6630.00	0.00	4880.00	15.60	10500.00

PumkinseedFillet

The following are the input vectors

	120	121	122	123	124	125	126
1-P-2	786.00	443.00	2650.00	116.00	237.00	1620.00	752.00
2-P-3	1900.00	685.00	3350.00	188.00	395.00	2390.00	1090.00
3-P-3	11300.00	3820.00	19900.00	1030.00	2390.00	13800.00	5670.00
4-P-3	2350.00	764.00	4860.00	241.00	636.00	3590.00	1590.00
5-P-2	3890.00	1590.00	5970.00	310.00	514.00	4210.00	1650.00

PumkinseedFillet

The following are the input vectors

	127	128	129	130	131	132	133
1-P-2	987.00	3540.00	24.10	18.20	2130.00	2.81	2.28
2-P-3	1250.00	6120.00	142.00	0.00	3690.00	6.90	2.53
3-P-3	7470.00	37000.00	819.00	0.00	21000.00	34.40	12.00
4-P-3	2080.00	8390.00	146.00	0.00	5100.00	9.52	3.05
5-P-2	1740.00	18000.00	315.00	86.00	6970.00	12.40	2.99

PumkinseedFillet

The following are the input vectors

	134	135	136	137	138	139	140
1-P-2	13900.00	3.43	68.60	159.00	86.30	2.28	390.00
2-P-3	13000.00	7.86	209.00	346.00	176.00	1.92	536.00
3-P-3	73900.00	33.10	1280.00	1810.00	1040.00	2.21	2840.00
4-P-3	18900.00	9.89	259.00	291.00	187.00	1.65	608.00
5-P-2	20700.00	14.50	400.00	859.00	391.00	0.00	1110.00

PumkinseedFillet

The following are the input vectors

	141	142	143	144	145	146	147
1-P-2	223.00	279.00	115.00	727.00	168.00	223.00	514.00
2-P-3	310.00	319.00	100.00	746.00	126.00	170.00	575.00
3-P-3	1600.00	1570.00	581.00	3980.00	573.00	729.00	2630.00
4-P-3	342.00	348.00	170.00	940.00	185.00	235.00	658.00
5-P-2	660.00	623.00	181.00	1710.00	189.00	294.00	1150.00

PumkinseedFillet

The following are the input vectors

	148	149	150	151	152	153
1-P-2	2.28	39.10	315.00	37.00	107.00	219.00
2-P-3	1.92	46.20	235.00	30.20	61.00	103.00
3-P-3	2.92	232.00	912.00	119.00	201.00	193.00
4-P-3	1.65	58.40	281.00	47.20	85.40	109.00
5-P-2	0.00	76.80	416.00	62.90	119.00	183.00

PumkinseedFillet

General Statistics for Untransformed data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.02	0.01	0.00	0.03
2	PCB_2	0.00	0.00	0.00	0.00
3	PCB_3	0.00	0.00	0.00	0.00
4	PCB_4	0.22	0.11	0.04	0.34
5	PCB_5	0.00	0.00	0.00	0.00
6	PCB_6	0.02	0.01	0.01	0.03
7	PCB_7	0.01	0.00	0.00	0.01
8	PCB_8	0.09	0.03	0.03	0.12
9	PCB_9	0.01	0.00	0.00	0.01
10	PCB_10	0.02	0.01	0.00	0.04
11	PCB_12_13	0.01	0.00	0.00	0.01
12	PCB_15	0.02	0.01	0.01	0.03
13	PCB_16	0.03	0.01	0.02	0.04
14	PCB_17	0.32	0.14	0.10	0.47
15	PCB_18_30	0.23	0.08	0.13	0.31
16	PCB_19	0.12	0.06	0.03	0.18
17	PCB_20_28	0.63	0.15	0.44	0.83
18	PCB_21_33	0.05	0.01	0.03	0.05
19	PCB_22	0.12	0.02	0.08	0.15
20	PCB_23	0.00	0.00	0.00	0.00
21	PCB_24	0.00	0.00	0.00	0.01
22	PCB_25	0.23	0.10	0.09	0.32
23	PCB_26_29	0.53	0.25	0.22	0.74
24	PCB_27	0.19	0.11	0.02	0.30
25	PCB_31	0.37	0.09	0.24	0.47
26	PCB_32	0.31	0.11	0.14	0.41
27	PCB_34	0.00	0.00	0.00	0.01
28	PCB_37	0.05	0.01	0.04	0.06
29	PCB_38	0.00	0.00	0.00	0.00
30	PCB_39	0.00	0.00	0.00	0.00
31	PCB_40_41_71	0.55	0.14	0.36	0.68
32	PCB_42	0.44	0.10	0.30	0.54
33	PCB_43	0.01	0.01	0.00	0.03
34	PCB_44_47_65	2.48	0.80	1.11	3.27
35	PCB_45_51	0.41	0.12	0.23	0.55
36	PCB_46	0.02	0.01	0.01	0.04
37	PCB_48	0.05	0.01	0.04	0.07
38	PCB_49_69	3.23	1.30	1.13	4.30
39	PCB_50_53	0.31	0.14	0.12	0.43
40	PCB_52	5.25	1.75	2.59	6.93
41	PCB_54	0.02	0.01	0.00	0.03
42	PCB_55	0.00	0.00	0.00	0.01
43	PCB_56	0.27	0.02	0.24	0.29
44	PCB_57	0.05	0.03	0.01	0.09
45	PCB_58	0.02	0.01	0.01	0.04
46	PCB_59_62_75	0.23	0.10	0.11	0.34

47	PCB_60	0.12	0.03	0.10	0.17
48	PCB_61_70_74_76	2.18	0.29	1.60	2.42
49	PCB_63	0.07	0.02	0.04	0.09
50	PCB_64	0.62	0.11	0.48	0.74
51	PCB_66	1.50	0.26	1.01	1.80
52	PCB_67	0.07	0.03	0.03	0.11
53	PCB_68	0.11	0.05	0.02	0.16
54	PCB_72	0.15	0.08	0.03	0.22
55	PCB_77	0.05	0.01	0.04	0.08
56	PCB_78	0.00	0.00	0.00	0.00
57	PCB_79	0.04	0.01	0.02	0.06
58	PCB_81	0.00	0.00	0.00	0.01
59	PCB_82	0.36	0.04	0.30	0.42
60	PCB_83	0.13	0.04	0.09	0.19
61	PCB_84	0.54	0.08	0.42	0.67
62	PCB_85_117_116	1.06	0.20	0.80	1.40
63	Coplanar1	3.45	0.76	2.09	4.39
64	PCB_88_91	0.97	0.10	0.80	1.06
65	PCB_89	0.01	0.00	0.01	0.02
66	PCB_90_101_113	6.85	1.38	4.31	8.48
67	PCB_92	1.71	0.32	1.09	1.97
68	Coplanar2	0.22	0.05	0.13	0.28
69	PCB_94	0.02	0.01	0.01	0.02
70	PCB_95	3.66	0.34	3.22	4.10
71	PCB_96	0.01	0.00	0.01	0.02
72	PCB_99	3.75	0.84	2.20	4.64
73	PCB_103	0.09	0.03	0.04	0.12
74	PCB_104	0.00	0.00	0.00	0.00
75	PCB_105	1.57	0.48	1.00	2.42
76	PCB_107_124	0.23	0.05	0.16	0.32
77	PCB_109	0.45	0.12	0.24	0.58
78	PCB_110_115	7.36	0.76	5.92	8.10
79	PCB_111	0.01	0.00	0.00	0.01
80	PCB_114	0.09	0.03	0.05	0.15
81	PCB_118	5.24	1.51	2.76	7.34
82	PCB_120	0.03	0.01	0.01	0.04
83	PCB_121	0.00	0.00	0.00	0.00
84	PCB_122	0.05	0.01	0.04	0.07
85	PCB_123	0.10	0.03	0.06	0.14
86	PCB_126	0.02	0.01	0.01	0.03
87	PCB_127	0.01	0.00	0.01	0.02
88	PCB_128_166	1.25	0.26	1.06	1.76
89	PCB_129_138_163	9.41	1.30	8.09	11.11
90	PCB_130	0.41	0.06	0.32	0.50
91	PCB_131	0.05	0.01	0.04	0.06
92	PCB_132	1.47	0.22	1.16	1.79
93	PCB_133	0.13	0.01	0.11	0.13
94	PCB_134_143	0.30	0.05	0.22	0.36
95	PCB_135_151	2.24	0.75	1.52	3.61
96	PCB_136	0.45	0.09	0.30	0.59
97	PCB_137	0.52	0.12	0.37	0.72
98	PCB_139_140	0.17	0.04	0.14	0.24
99	PCB_141	0.98	0.25	0.74	1.40
100	PCB_144	0.23	0.06	0.16	0.32
101	PCB_145	0.00	0.00	0.00	0.00
102	PCB_146	1.18	0.63	0.00	1.82
103	PCB_147_149	6.08	1.69	4.40	9.15
104	PCB_148	0.01	0.00	0.01	0.01
105	PCB_150	0.01	0.00	0.00	0.01
106	PCB_152	0.00	0.00	0.00	0.00
107	PCB_153_168	4.92	2.62	0.00	7.85
108	PCB_154	0.08	0.01	0.07	0.09
109	PCB_155	0.00	0.00	0.00	0.00
110	PCB_156_57	0.70	0.21	0.50	1.09
111	PCB_158	0.78	0.14	0.67	1.04
112	PCB_159	0.00	0.00	0.00	0.00
113	PCB_161	0.17	0.35	0.00	0.87
114	PCB_162	0.02	0.01	0.01	0.03
115	PCB_164	0.48	0.14	0.34	0.71
116	PCB_165	0.00	0.00	0.00	0.01
117	PCB_167	0.26	0.05	0.20	0.34

118	PCB_169	0.00	0.00	0.00	0.01
119	PCB_170	0.54	0.20	0.32	0.87
120	PCB_171_173	0.27	0.11	0.17	0.49
121	PCB_172	0.12	0.08	0.06	0.27
122	PCB_174	0.63	0.51	0.30	1.64
123	PCB_175	0.03	0.02	0.02	0.07
124	PCB_176	0.06	0.04	0.03	0.15
125	PCB_177	0.42	0.30	0.21	1.00
126	PCB_178	0.19	0.14	0.10	0.46
127	PCB_179	0.23	0.19	0.10	0.61
128	PCB_180_193	1.07	0.58	0.54	2.19
129	PCB_181	0.02	0.00	0.01	0.02
130	PCB_182	0.00	0.00	0.00	0.01
131	PCB_183_185	0.60	0.37	0.33	1.32
132	PCB_184	0.00	0.00	0.00	0.00
133	PCB_186	0.00	0.00	0.00	0.00
134	PCB_187	2.86	2.88	1.15	8.59
135	PCB_188	0.00	0.00	0.00	0.00
136	PCB_189	0.03	0.01	0.02	0.04
137	PCB_190	0.05	0.03	0.02	0.10
138	PCB_191	0.03	0.01	0.02	0.05
139	PCB_192	0.00	0.00	0.00	0.00
140	PCB_194	0.09	0.07	0.05	0.24
141	PCB_195	0.05	0.04	0.03	0.14
142	PCB_196	0.06	0.06	0.03	0.17
143	PCB_197_200	0.02	0.02	0.01	0.07
144	PCB_198_199	0.16	0.15	0.07	0.45
145	PCB_201	0.03	0.04	0.01	0.10
146	PCB_202	0.04	0.05	0.02	0.14
147	PCB_203	0.11	0.10	0.05	0.32
148	PCB_204	0.00	0.00	0.00	0.00
149	PCB_205	0.01	0.01	0.00	0.02
150	PCB_206	0.06	0.07	0.02	0.19
151	PCB_207	0.01	0.01	0.00	0.02
152	PCB_208	0.02	0.02	0.00	0.07
153	PCB_209	0.03	0.05	0.00	0.14

Variables transformed to interval of their range
PumkinseedFillet

General Statistics for Transformed Data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.40	0.33	0.00	1.00
2	PCB_2	0.37	0.38	0.00	1.00
3	PCB_3	0.27	0.38	0.00	1.00
4	PCB_4	0.59	0.37	-0.00	1.00
5	PCB_5	0.66	0.35	0.00	1.00
6	PCB_6	0.64	0.42	-0.00	1.00
7	PCB_7	0.56	0.38	0.00	1.00
8	PCB_8	0.63	0.36	0.00	1.00
9	PCB_9	0.60	0.37	0.00	1.00
10	PCB_10	0.53	0.33	-0.00	1.00
11	PCB_12_13	0.64	0.35	0.00	1.00
12	PCB_15	0.48	0.33	0.00	1.00
13	PCB_16	0.61	0.34	0.00	1.00
14	PCB_17	0.59	0.36	-0.00	1.00
15	PCB_18_30	0.51	0.42	-0.00	1.00
16	PCB_19	0.59	0.38	-0.00	1.00
17	PCB_20_28	0.49	0.38	-0.00	1.00
18	PCB_21_33	0.64	0.34	-0.00	1.00
19	PCB_22	0.54	0.35	0.00	1.00
20	PCB_23	0.58	0.35	0.00	1.00
21	PCB_24	0.32	0.41	0.00	1.00
22	PCB_25	0.61	0.44	-0.00	1.00
23	PCB_26_29	0.59	0.47	0.00	1.00
24	PCB_27	0.60	0.39	-0.00	1.00
25	PCB_31	0.55	0.42	0.00	1.00
26	PCB_32	0.63	0.43	0.00	1.00
27	PCB_34	0.63	0.37	0.00	1.00

28	PCB_37	0.33	0.36	-0.00	1.00
29	PCB_38	0.55	0.36	0.00	1.00
30	PCB_39	0.36	0.39	0.00	1.00
31	PCB_40_41_71	0.58	0.42	0.00	1.00
32	PCB_42	0.59	0.42	0.00	1.00
33	PCB_43	0.20	0.40	0.00	1.00
34	PCB_44_47_65	0.64	0.37	0.00	1.00
35	PCB_45_51	0.58	0.38	-0.00	1.00
36	PCB_46	0.51	0.34	0.00	1.00
37	PCB_48	0.52	0.37	0.00	1.00
38	PCB_49_69	0.66	0.41	-0.00	1.00
39	PCB_50_53	0.62	0.45	0.00	1.00
40	PCB_52	0.61	0.40	-0.00	1.00
41	PCB_54	0.58	0.37	0.00	1.00
42	PCB_55	0.37	0.45	0.00	1.00
43	PCB_56	0.55	0.45	0.00	1.00
44	PCB_57	0.56	0.38	-0.00	1.00
45	PCB_58	0.53	0.39	0.00	1.00
46	PCB_59_62_75	0.55	0.42	-0.00	1.00
47	PCB_60	0.34	0.35	-0.00	1.00
48	PCB_61_70_74_76	0.70	0.36	0.00	1.00
49	PCB_63	0.59	0.35	-0.00	1.00
50	PCB_64	0.55	0.41	0.00	1.00
51	PCB_66	0.62	0.34	-0.00	1.00
52	PCB_67	0.53	0.37	0.00	1.00
53	PCB_68	0.64	0.37	0.00	1.00
54	PCB_72	0.64	0.42	0.00	1.00
55	PCB_77	0.34	0.35	0.00	1.00
56	PCB_78	0.41	0.41	0.00	1.00
57	PCB_79	0.53	0.39	0.00	1.00
58	PCB_81	0.54	0.34	-0.00	1.00
59	PCB_82	0.47	0.39	0.00	1.00
60	PCB_83	0.40	0.35	0.00	1.00
61	PCB_84	0.49	0.33	-0.00	1.00
62	PCB_85_117_116	0.43	0.33	-0.00	1.00
63	Coplanar1	0.59	0.33	0.00	1.00
64	PCB_88_91	0.65	0.36	-0.00	1.00
65	PCB_89	0.35	0.36	0.00	1.00
66	PCB_90_101_113	0.61	0.33	0.00	1.00
67	PCB_92	0.71	0.36	-0.00	1.00
68	Coplanar2	0.59	0.33	-0.00	1.00
69	PCB_94	0.47	0.33	0.00	1.00
70	PCB_95	0.50	0.39	-0.00	1.00
71	PCB_96	0.50	0.36	0.00	1.00
72	PCB_99	0.64	0.34	0.00	1.00
73	PCB_103	0.67	0.37	0.00	1.00
74	PCB_104	0.66	0.35	0.00	1.00
75	PCB_105	0.40	0.33	-0.00	1.00
76	PCB_107_124	0.42	0.33	0.00	1.00
77	PCB_109	0.61	0.34	0.00	1.00
78	PCB_110_115	0.66	0.35	-0.00	1.00
79	PCB_111	0.48	0.37	0.00	1.00
80	PCB_114	0.41	0.33	0.00	1.00
81	PCB_118	0.54	0.33	-0.00	1.00
82	PCB_120	0.65	0.42	0.00	1.00
83	PCB_121	0.66	0.37	0.00	1.00
84	PCB_122	0.34	0.35	0.00	1.00
85	PCB_123	0.49	0.37	-0.00	1.00
86	PCB_126	0.38	0.34	-0.00	1.00
87	PCB_127	0.29	0.37	-0.00	1.00
88	PCB_128_166	0.27	0.37	-0.00	1.00
89	PCB_129_138_163	0.44	0.43	0.00	1.00
90	PCB_130	0.49	0.36	-0.00	1.00
91	PCB_131	0.61	0.33	-0.00	1.00
92	PCB_132	0.50	0.34	0.00	1.00
93	PCB_133	0.63	0.38	-0.00	1.00
94	PCB_134_143	0.59	0.36	0.00	1.00
95	PCB_135_151	0.35	0.36	-0.00	1.00
96	PCB_136	0.51	0.33	0.00	1.00
97	PCB_137	0.44	0.33	0.00	1.00
98	PCB_139_140	0.32	0.35	0.00	1.00

99	PCB_141	0.36	0.37	-0.00	1.00
100	PCB_144	0.44	0.40	0.00	1.00
101	PCB_145	0.68	0.35	-0.00	1.00
102	PCB_146	0.65	0.35	0.00	1.00
103	PCB_147_149	0.35	0.36	-0.00	1.00
104	PCB_148	0.43	0.41	0.00	1.00
105	PCB_150	0.52	0.35	0.00	1.00
106	PCB_152	0.47	0.34	-0.00	1.00
107	PCB_153_168	0.63	0.33	0.00	1.00
108	PCB_154	0.40	0.37	0.00	1.00
109	PCB_155	0.57	0.33	0.00	1.00
110	PCB_156_57	0.35	0.35	0.00	1.00
111	PCB_158	0.29	0.36	-0.00	1.00
112	PCB_159	0.55	0.38	0.00	1.00
113	PCB_161	0.20	0.40	0.00	1.00
114	PCB_162	0.42	0.39	-0.00	1.00
115	PCB_164	0.38	0.37	-0.00	1.00
116	PCB_165	0.58	0.36	0.00	1.00
117	PCB_167	0.44	0.35	-0.00	1.00
118	PCB_169	0.23	0.39	-0.00	1.00
119	PCB_170	0.41	0.37	0.00	1.00
120	PCB_171_173	0.32	0.36	0.00	1.00
121	PCB_172	0.26	0.37	-0.00	1.00
122	PCB_174	0.25	0.38	0.00	1.00
123	PCB_175	0.25	0.38	0.00	1.00
124	PCB_176	0.30	0.36	-0.00	1.00
125	PCB_177	0.26	0.37	0.00	1.00
126	PCB_178	0.24	0.38	0.00	1.00
127	PCB_179	0.26	0.37	0.00	1.00
128	PCB_180_193	0.32	0.35	-0.00	1.00
129	PCB_181	0.44	0.38	-0.00	1.00
130	PCB_182	0.29	0.39	0.00	1.00
131	PCB_183_185	0.27	0.37	0.00	1.00
132	PCB_184	0.29	0.36	-0.00	1.00
133	PCB_186	0.24	0.38	-0.00	1.00
134	PCB_187	0.23	0.39	-0.00	1.00
135	PCB_188	0.25	0.38	0.00	1.00
136	PCB_189	0.37	0.37	-0.00	1.00
137	PCB_190	0.35	0.35	-0.00	1.00
138	PCB_191	0.30	0.37	-0.00	1.00
139	PCB_192	0.25	0.38	0.00	1.00
140	PCB_194	0.24	0.38	0.00	1.00
141	PCB_195	0.24	0.38	-0.00	1.00
142	PCB_196	0.23	0.39	0.00	1.00
143	PCB_197_200	0.24	0.38	-0.00	1.00
144	PCB_198_199	0.24	0.38	0.00	1.00
145	PCB_201	0.22	0.39	-0.00	1.00
146	PCB_202	0.21	0.39	-0.00	1.00
147	PCB_203	0.22	0.39	0.00	1.00
148	PCB_204	0.25	0.38	0.00	1.00
149	PCB_205	0.23	0.39	0.00	1.00
150	PCB_206	0.21	0.40	-0.00	1.00
151	PCB_207	0.22	0.39	-0.00	1.00
152	PCB_208	0.21	0.39	0.00	1.00
153	PCB_209	0.22	0.39	-0.00	1.00

PumkinseedFillet

No.	Eigenvalue	Cum. Var
1	3.2805	65.61
2	0.9766	85.14
3	0.4644	94.43
4	0.1962	98.35
5	0.0823	100.00
6	0.0000	100.00

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 1	PCB_1	0.50	0.51	0.59
Var 2	PCB_2	0.32	0.33	0.34

Var	3	PCB_3	0.02	0.09	0.26
Var	4	PCB_4	0.92	0.95	0.95
Var	5	PCB_5	0.96	0.97	0.98
Var	6	PCB_6	0.90	0.98	1.00
Var	7	PCB_7	0.86	0.92	0.99
Var	8	PCB_8	0.88	0.88	1.00
Var	9	PCB_9	0.91	0.94	0.99
Var	10	PCB_10	0.82	0.83	0.90
Var	11	PCB_12_13	0.96	0.97	0.98
Var	12	PCB_15	0.67	0.67	0.69
Var	13	PCB_16	0.15	0.93	0.97
Var	14	PCB_17	0.92	0.95	0.97
Var	15	PCB_18_30	0.73	0.96	0.97
Var	16	PCB_19	0.91	0.96	0.98
Var	17	PCB_20_28	0.57	0.80	0.92
Var	18	PCB_21_33	0.14	0.99	1.00

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM			2	3	4
Var	19	PCB_22	0.38	0.78	0.94
Var	20	PCB_23	0.88	0.89	0.91
Var	21	PCB_24	0.02	0.30	0.99
Var	22	PCB_25	0.85	0.97	0.99
Var	23	PCB_26_29	0.78	0.99	1.00
Var	24	PCB_27	0.88	0.94	0.98
Var	25	PCB_31	0.68	0.92	0.98
Var	26	PCB_32	0.88	0.98	1.00
Var	27	PCB_34	0.95	0.96	1.00
Var	28	PCB_37	0.03	0.14	0.58
Var	29	PCB_38	0.78	0.79	0.98
Var	30	PCB_39	0.32	0.40	0.91
Var	31	PCB_40_41_71	0.82	0.93	0.99
Var	32	PCB_42	0.82	0.94	1.00
Var	33	PCB_43	0.84	1.00	1.00
Var	34	PCB_44_47_65	0.95	0.96	0.98
Var	35	PCB_45_51	0.90	0.96	0.97
Var	36	PCB_46	0.42	0.91	0.98

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM			2	3	4
Var	37	PCB_48	0.07	0.30	0.31
Var	38	PCB_49_69	0.95	0.99	1.00
Var	39	PCB_50_53	0.85	0.99	1.00
Var	40	PCB_52	0.90	0.98	1.00
Var	41	PCB_54	0.91	0.96	0.98
Var	42	PCB_55	0.09	0.42	0.99
Var	43	PCB_56	0.09	0.41	0.98
Var	44	PCB_57	0.85	0.91	0.99
Var	45	PCB_58	0.75	0.84	0.99
Var	46	PCB_59_62_75	0.67	0.92	0.98
Var	47	PCB_60	0.83	0.93	0.99
Var	48	PCB_61_70_74_76	0.88	0.97	0.98
Var	49	PCB_63	0.87	0.87	0.97
Var	50	PCB_64	0.58	0.84	1.00
Var	51	PCB_66	0.83	0.88	0.96
Var	52	PCB_67	0.81	0.90	0.96
Var	53	PCB_68	0.96	0.96	0.98
Var	54	PCB_72	0.92	0.98	0.99

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM			2	3	4
Var	55	PCB_77	0.58	0.94	0.99
Var	56	PCB_78	0.29	0.29	0.95
Var	57	PCB_79	0.22	0.64	0.70
Var	58	PCB_81	0.73	0.80	0.96

Var 59	PCB_82	-0.00	0.52	0.63
Var 60	PCB_83	0.22	0.33	0.76
Var 61	PCB_84	0.25	0.62	0.89
Var 62	PCB_85_117_116	0.10	0.89	1.00
Var 63	Coplanar1	0.42	0.98	0.99
Var 64	PCB_88_91	0.79	0.82	1.00
Var 65	PCB_89	0.55	0.90	0.97
Var 66	PCB_90_101_113	0.49	0.97	0.99
Var 67	PCB_92	0.91	0.98	0.99
Var 68	Coplanar2	0.72	0.80	0.95
Var 69	PCB_94	0.64	0.65	0.83
Var 70	PCB_95	0.68	0.77	0.99
Var 71	PCB_96	0.52	0.85	0.90
Var 72	PCB_99	0.54	0.93	1.00

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 73	PCB_103	0.96	0.96	0.99
Var 74	PCB_104	0.90	0.94	0.98
Var 75	PCB_105	0.07	0.89	1.00
Var 76	PCB_107_124	0.08	0.96	0.99
Var 77	PCB_109	0.49	0.89	1.00
Var 78	PCB_110_115	0.71	0.90	0.90
Var 79	PCB_111	0.68	0.77	0.84
Var 80	PCB_114	0.07	0.94	1.00
Var 81	PCB_118	0.32	0.89	1.00
Var 82	PCB_120	0.92	0.99	1.00
Var 83	PCB_121	0.97	0.97	0.97
Var 84	PCB_122	0.01	0.95	0.96
Var 85	PCB_123	0.13	0.82	0.95
Var 86	PCB_126	0.01	0.92	0.99
Var 87	PCB_127	-0.00	0.86	0.99
Var 88	PCB_128_166	0.06	0.91	1.00
Var 89	PCB_129_138_163	0.67	0.91	1.00
Var 90	PCB_130	0.53	0.95	1.00

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 91	PCB_131	0.30	0.66	1.00
Var 92	PCB_132	0.83	0.89	1.00
Var 93	PCB_133	0.41	0.66	0.93
Var 94	PCB_134_143	0.22	0.34	0.78
Var 95	PCB_135_151	0.96	0.96	0.98
Var 96	PCB_136	0.76	0.76	0.99
Var 97	PCB_137	0.11	0.95	0.95
Var 98	PCB_139_140	0.00	0.99	1.00
Var 99	PCB_141	0.95	0.96	0.97
Var 100	PCB_144	0.86	0.98	0.99
Var 101	PCB_145	0.13	0.17	0.99
Var 102	PCB_146	0.49	0.58	0.99
Var 103	PCB_147_149	0.99	0.99	1.00
Var 104	PCB_148	0.08	0.48	0.81
Var 105	PCB_150	0.03	0.21	0.94
Var 106	PCB_152	0.04	0.21	0.84
Var 107	PCB_153_168	0.03	0.99	0.99
Var 108	PCB_154	0.04	0.87	0.95

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4
Var 109	PCB_155	0.83	0.83	0.84
Var 110	PCB_156_57	0.02	0.84	1.00
Var 111	PCB_158	0.13	0.95	1.00
Var 112	PCB_159	0.07	0.29	0.51
Var 113	PCB_161	0.17	0.27	0.99
Var 114	PCB_162	0.58	0.94	1.00

Var 115 PCB_164	0.95	0.98	0.99
Var 116 PCB_165	0.01	0.00	1.00
Var 117 PCB_167	0.14	0.57	0.99
Var 118 PCB_169	0.86	1.00	1.00
Var 119 PCB_170	0.69	0.70	1.00
Var 120 PCB_171_173	0.94	0.96	1.00
Var 121 PCB_172	0.88	0.97	1.00
Var 122 PCB_174	0.91	1.00	1.00
Var 123 PCB_175	0.92	1.00	1.00
Var 124 PCB_176	0.94	0.98	0.99
Var 125 PCB_177	0.91	1.00	1.00
Var 126 PCB_178	0.90	1.00	1.00

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4
Var 127 PCB_179	0.91	0.99	0.99
Var 128 PCB_180_193	0.81	0.91	0.99
Var 129 PCB_181	0.02	0.39	1.00
Var 130 PCB_182	0.55	0.85	1.00
Var 131 PCB_183_185	0.92	0.99	1.00
Var 132 PCB_184	0.92	0.99	0.99
Var 133 PCB_186	0.89	1.00	1.00
Var 134 PCB_187	0.89	1.00	1.00
Var 135 PCB_188	0.85	0.99	1.00
Var 136 PCB_189	0.95	0.95	1.00
Var 137 PCB_190	0.79	0.88	0.99
Var 138 PCB_191	0.90	0.95	1.00
Var 139 PCB_192	0.81	0.99	1.00
Var 140 PCB_194	0.88	0.99	1.00
Var 141 PCB_195	0.87	0.99	1.00
Var 142 PCB_196	0.87	1.00	1.00
Var 143 PCB_197_200	0.88	1.00	1.00
Var 144 PCB_198_199	0.86	0.99	1.00

PumkinseedFillet

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4
Var 145 PCB_201	0.85	1.00	1.00
Var 146 PCB_202	0.84	1.00	1.00
Var 147 PCB_203	0.85	1.00	1.00
Var 148 PCB_204	0.82	0.99	1.00
Var 149 PCB_205	0.88	1.00	1.00
Var 150 PCB_206	0.84	1.00	1.00
Var 151 PCB_207	0.82	1.00	1.00
Var 152 PCB_208	0.82	1.00	1.00
Var 153 PCB_209	0.81	1.00	1.00

PumkinseedFillet

Number of tries in the Varimax Procedure = 3

Normalized Varimax Coordinates

	Comm.	1	2	3	4
1 1-P-2	1.0000	0.0692	0.7846	0.1147	0.0325
2 2-P-3	1.0000	0.6722	0.0621	0.2027	0.2136
3 3-P-3	1.0000	0.1959	0.1331	0.5780	0.0996
4 4-P-3	1.0000	0.5064	0.0594	0.1796	0.1376
5 5-P-2	1.0000	0.3789	0.0383	0.1333	0.4447

>= 0.1	4	2	5	3
< 0.1	1	3	0	2

PumkinseedFillet

Number of tries in the Varimax Procedure = 3

Normalized Varimax Coordinates

Comm. 5

1	1-P-2	1.0000	-0.0010
2	2-P-3	1.0000	-0.1506
3	3-P-3	1.0000	-0.0066
4	4-P-3	1.0000	0.1171
5	5-P-2	1.0000	0.0048

>= 0.1	2
< 0.1	3

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PumkinseedFillet
Pumkinseed Fillet

Number of Samples	5
Number of Variables	153
Number of End-Members in Model.	4
Starting Option used	1
Initial DENEG value	0.25000
Greatest allowed negative in END MEMBER Comp. . .	0.05000
Greatest allowed negative in sample composition .	0.05000
VARIMAX Cutoff used	0.01000

Maximum Value Row Index Matrix

Iteration	Factor 1	2	3	4
0	2	1	3	5
1	4	1	3	5
2	4	1	3	5

Varimax Coordinates of Extreme Raw Samples

	COMM.	EM 1	EM 2	EM 3	EM 4
4 4-P-3	0.9618	0.9111	0.1043	0.3037	0.1692
1 1-P-2	1.0000	0.0910	0.9849	0.1430	0.0361
3 3-P-3	0.9999	0.3313	0.2102	0.9097	0.1352
5 5-P-2	0.9995	0.6853	0.0628	0.2137	0.6930

Pumkinseed Fillet

********** INITIALIZATION **********

Compositions of End Members

	EM 1	EM 2	EM 3	EM 4
1 PCB_1	0.0220	0.0033	0.0108	0.0163
2 PCB_2	0.0002	-0.0000	0.0001	0.0002
3 PCB_3	0.0023	0.0018	0.0013	0.0015
4 PCB_4	0.2831	0.0407	0.1470	0.3135
5 PCB_5	0.0009	0.0000	0.0007	0.0011
6 PCB_6	0.0322	0.0096	0.0159	0.0318
7 PCB_7	0.0068	0.0027	0.0038	0.0062
8 PCB_8	0.1192	0.0314	0.0775	0.0943
9 PCB_9	0.0093	0.0028	0.0052	0.0083
10 PCB_10	0.0305	0.0033	0.0159	0.0247
11 PCB_12_13	0.0074	-0.0000	0.0047	0.0071
12 PCB_15	0.0246	0.0119	0.0187	0.0236
13 PCB_16	0.0317	0.0306	0.0165	0.0396
14 PCB_17	0.4235	0.0967	0.2293	0.4060
15 PCB_18_30	0.2826	0.1371	0.1338	0.2855
16 PCB_19	0.1479	0.0271	0.0760	0.1851
17 PCB_20_28	0.7698	0.4843	0.4446	0.6808
18 PCB_21_33	0.0485	0.0468	0.0303	0.0550
19 PCB_22	0.1367	0.1009	0.0795	0.1204
20 PCB_23	0.0006	0.0000	0.0003	0.0005
21 PCB_24	-0.0005	0.0052	0.0000	0.0087
22 PCB_25	0.3043	0.0941	0.1318	0.3015
23 PCB_26_29	0.7062	0.2159	0.2245	0.7331
24 PCB_27	0.2790	0.0205	0.0939	0.2531
25 PCB_31	0.4486	0.2631	0.2459	0.4217
26 PCB_32	0.3976	0.1405	0.1992	0.3911
27 PCB_34	0.0053	-0.0000	0.0024	0.0048
28 PCB_37	0.0528	0.0465	0.0403	0.0410
29 PCB_38	0.0028	0.0000	0.0010	0.0018
30 PCB_39	0.0025	0.0017	0.0017	0.0018
31 PCB_40_41_71	0.6641	0.3570	0.4078	0.6217
32 PCB_42	0.5329	0.2988	0.3378	0.4980
33 PCB_43	0.0002	0.0261	-0.0000	0.0000
34 PCB_44_47_65	3.1008	1.1090	2.0692	2.9802
35 PCB_45_51	0.5003	0.2309	0.3160	0.5080
36 PCB_46	0.0259	0.0183	0.0103	0.0369

37	PCB_48	0.0509	0.0623	0.0432	0.0543
38	PCB_49_69	4.1839	1.1327	2.2821	4.2294
39	PCB_50_53	0.4104	0.1182	0.1647	0.4220
40	PCB_52	6.6106	2.5904	3.7414	6.4787
41	PCB_54	0.0264	0.0032	0.0136	0.0349
42	PCB_55	-0.0006	0.0087	0.0000	0.0104
43	PCB_56	0.2879	0.2930	0.2418	0.2430
44	PCB_57	0.0790	0.0108	0.0285	0.0670
45	PCB_58	0.0343	0.0068	0.0114	0.0250
46	PCB_59_62_75	0.3160	0.1264	0.1077	0.2873
47	PCB_60	0.1167	0.1744	0.1113	0.0955
48	PCB_61_70_74_76	2.3548	1.6009	2.2561	2.2989
49	PCB_63	0.0843	0.0397	0.0617	0.0729
50	PCB_64	0.7271	0.5194	0.4810	0.6529
51	PCB_66	1.7236	1.0150	1.5213	1.5340
52	PCB_67	0.0944	0.0308	0.0440	0.0852
53	PCB_68	0.1449	0.0189	0.0812	0.1414
54	PCB_72	0.2073	0.0323	0.0873	0.2127
55	PCB_77	0.0480	0.0754	0.0359	0.0408
56	PCB_78	0.0033	-0.0000	0.0010	0.0000
57	PCB_79	0.0469	0.0212	0.0557	0.0344
58	PCB_81	0.0041	0.0053	0.0047	0.0028
59	PCB_82	0.3667	0.3334	0.4145	0.3079
60	PCB_83	0.1656	0.0900	0.1414	0.0976
61	PCB_84	0.6192	0.5078	0.4222	0.5331
62	PCB_85_117_116	0.9914	0.7978	1.3986	1.1140
63	Coplanar1	3.7179	2.0885	4.3817	3.4035
64	PCB_88_91	1.0610	0.7976	0.9644	0.9591
65	PCB_89	0.0115	0.0175	0.0085	0.0094
66	PCB_90_101_113	7.0345	4.3076	8.4686	7.4150
67	PCB_92	1.9234	1.0889	1.7652	1.8551
68	Coplanar2	0.2604	0.1276	0.2235	0.2101
69	PCB_94	0.0206	0.0075	0.0123	0.0152
70	PCB_95	4.0205	3.2208	3.3200	3.6793
71	PCB_96	0.0177	0.0119	0.0098	0.0170
72	PCB_99	3.7830	2.2015	4.6363	4.3088
73	PCB_103	0.1135	0.0406	0.0823	0.1059
74	PCB_104	0.0036	0.0000	0.0026	0.0030
75	PCB_105	1.3921	0.9951	2.4152	1.6669
76	PCB_107_124	0.2158	0.1588	0.3219	0.2260
77	PCB_109	0.4383	0.2373	0.5746	0.5308
78	PCB_110_115	7.6900	5.9193	7.7921	7.6626
79	PCB_111	0.0084	0.0034	0.0051	0.0120
80	PCB_114	0.0806	0.0479	0.1513	0.0927
81	PCB_118	5.0018	2.7633	7.3339	6.0740
82	PCB_120	0.0423	0.0144	0.0228	0.0436
83	PCB_121	0.0039	0.0000	0.0022	0.0040
84	PCB_122	0.0518	0.0444	0.0708	0.0494
85	PCB_123	0.1172	0.0650	0.1438	0.0798
86	PCB_126	0.0185	0.0148	0.0293	0.0111
87	PCB_127	0.0090	0.0083	0.0167	0.0109
88	PCB_128_166	1.0789	1.1683	1.7613	1.1750
89	PCB_129_138_163	8.2353	10.8200	11.1056	8.7812
90	PCB_130	0.3872	0.4557	0.4958	0.3210
91	PCB_131	0.0536	0.0563	0.0622	0.0354
92	PCB_132	1.4255	1.7867	1.6182	1.1563
93	PCB_133	0.1274	0.1330	0.1350	0.1117
94	PCB_134_143	0.3242	0.3312	0.3339	0.2210
95	PCB_135_151	1.9234	3.6125	2.3555	1.5020
96	PCB_136	0.4497	0.5925	0.4767	0.3015
97	PCB_137	0.5230	0.3650	0.7194	0.4910
98	PCB_139_140	0.1657	0.1391	0.2441	0.1572
99	PCB_141	0.8110	1.4026	1.1146	0.7928
100	PCB_144	0.1957	0.3154	0.2880	0.1601
101	PCB_145	0.0017	0.0016	0.0015	0.0008
102	PCB_146	1.3408	1.8230	1.5855	0.0059
103	PCB_147_149	5.2641	9.1504	6.5695	4.3949
104	PCB_148	0.0084	0.0071	0.0086	0.0070
105	PCB_150	0.0068	0.0054	0.0064	0.0047
106	PCB_152	0.0044	0.0036	0.0042	0.0033
107	PCB_153_168	5.2837	7.8551	0.0171	5.8049

108	PCB_154	0.0808	0.0674	0.0941	0.0696
109	PCB_155	0.0004	0.0000	0.0002	0.0003
110	PCB_156_57	0.5953	0.4989	1.0855	0.7515
111	PCB_158	0.6920	0.7667	1.0413	0.7101
112	PCB_159	0.0023	0.0022	0.0030	0.0006
113	PCB_161	-0.0538	0.0007	0.0026	0.8621
114	PCB_162	0.0154	0.0275	0.0315	0.0169
115	PCB_164	0.3870	0.7113	0.5713	0.3804
116	PCB_165	0.0076	0.0041	0.0035	-0.0000
117	PCB_167	0.2097	0.2713	0.3441	0.2829
118	PCB_169	0.0011	0.0055	0.0011	0.0009
119	PCB_170	0.3255	0.8655	0.5849	0.6071
120	PCB_171_173	0.1816	0.4860	0.2805	0.2239
121	PCB_172	0.0615	0.2739	0.0947	0.0919
122	PCB_174	0.3592	1.6386	0.4949	0.3414
123	PCB_175	0.0187	0.0717	0.0256	0.0178
124	PCB_176	0.0456	0.1466	0.0595	0.0291
125	PCB_177	0.2606	1.0019	0.3435	0.2401
126	PCB_178	0.1173	0.4650	0.1411	0.0941
127	PCB_179	0.1475	0.6105	0.1862	0.0983
128	PCB_180_193	0.6053	2.1894	0.9207	1.0328
129	PCB_181	0.0120	0.0149	0.0203	0.0182
130	PCB_182	-0.0002	0.0113	0.0000	0.0049
131	PCB_183_185	0.3797	1.3172	0.5221	0.3993
132	PCB_184	0.0007	0.0017	0.0009	0.0007
133	PCB_186	0.0002	0.0014	0.0003	0.0002
134	PCB_187	1.4152	8.5949	1.8377	1.1839
135	PCB_188	0.0008	0.0021	0.0008	0.0008
136	PCB_189	0.0201	0.0424	0.0318	0.0230
137	PCB_190	0.0264	0.0983	0.0447	0.0500
138	PCB_191	0.0154	0.0533	0.0258	0.0226
139	PCB_192	0.0002	0.0014	0.0001	0.0000
140	PCB_194	0.0491	0.2411	0.0704	0.0641
141	PCB_195	0.0279	0.1379	0.0396	0.0382
142	PCB_196	0.0288	0.1725	0.0389	0.0361
143	PCB_197_200	0.0119	0.0711	0.0145	0.0103
144	PCB_198_199	0.0726	0.4495	0.0988	0.0985
145	PCB_201	0.0138	0.1039	0.0143	0.0108
146	PCB_202	0.0179	0.1379	0.0181	0.0169
147	PCB_203	0.0531	0.3178	0.0652	0.0664
148	PCB_204	0.0002	0.0014	0.0001	0.0000
149	PCB_205	0.0046	0.0242	0.0058	0.0044
150	PCB_206	0.0227	0.1947	0.0226	0.0240
151	PCB_207	0.0034	0.0229	0.0030	0.0036
152	PCB_208	0.0065	0.0662	0.0050	0.0068
153	PCB_209	0.0094	0.1354	0.0048	0.0106

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4
1	1-P-2	-0.0000	1.0000	-0.0000	0.0000
2	2-P-3	0.9486	-0.0119	-0.0633	0.1266
3	3-P-3	-0.0000	0.0000	1.0000	-0.0000
4	4-P-3	1.0000	0.0000	0.0000	-0.0000
5	5-P-2	-0.0000	-0.0000	-0.0000	1.0000

**********ITERATION 1**********

End-Member raw compositions for iteration 1

		EM 1	EM 2	EM 3	EM 4
1	PCB_1	0.0230	0.0028	0.0109	0.0168
2	PCB_2	0.0002	0.0000	0.0001	0.0002
3	PCB_3	0.0023	0.0018	0.0013	0.0015
4	PCB_4	0.2944	0.0339	0.1482	0.3269
5	PCB_5	0.0009	0.0000	0.0007	0.0011
6	PCB_6	0.0335	0.0092	0.0160	0.0330
7	PCB_7	0.0070	0.0026	0.0038	0.0063
8	PCB_8	0.1228	0.0285	0.0780	0.0960
9	PCB_9	0.0097	0.0027	0.0053	0.0086

10	PCB_10	0.0318	0.0025	0.0161	0.0255
11	PCB_12_13	0.0077	0.0000	0.0048	0.0073
12	PCB_15	0.0251	0.0114	0.0187	0.0240
13	PCB_16	0.0327	0.0315	0.0163	0.0411
14	PCB_17	0.4394	0.0883	0.2307	0.4204
15	PCB_18_30	0.2935	0.1373	0.1337	0.2965
16	PCB_19	0.1538	0.0240	0.0765	0.1937
17	PCB_20_28	0.7933	0.4868	0.4438	0.6973
18	PCB_21_33	0.0496	0.0479	0.0301	0.0566
19	PCB_22	0.1406	0.1022	0.0792	0.1231
20	PCB_23	0.0006	0.0000	0.0003	0.0006
21	PCB_24	0.0000	0.0055	0.0000	0.0093
22	PCB_25	0.3176	0.0918	0.1322	0.3143
23	PCB_26_29	0.7421	0.2154	0.2244	0.7706
24	PCB_27	0.2936	0.0159	0.0947	0.2656
25	PCB_31	0.4633	0.2642	0.2455	0.4342
26	PCB_32	0.4129	0.1367	0.1998	0.4057
27	PCB_34	0.0055	0.0000	0.0025	0.0050
28	PCB_37	0.0536	0.0469	0.0402	0.0409
29	PCB_38	0.0030	0.0000	0.0010	0.0018
30	PCB_39	0.0026	0.0017	0.0017	0.0018
31	PCB_40_41_71	0.6835	0.3538	0.4081	0.6376
32	PCB_42	0.5477	0.2963	0.3380	0.5100
33	PCB_43	0.0000	0.0277	0.0000	0.0000
34	PCB_44_47_65	3.1878	1.0482	2.0790	3.0565
35	PCB_45_51	0.5148	0.2255	0.3168	0.5228
36	PCB_46	0.0269	0.0188	0.0102	0.0387
37	PCB_48	0.0512	0.0635	0.0430	0.0549
38	PCB_49_69	4.3379	1.0599	2.2940	4.3843
39	PCB_50_53	0.4292	0.1152	0.1651	0.4414
40	PCB_52	6.8359	2.5175	3.7522	6.6903
41	PCB_54	0.0275	0.0025	0.0137	0.0366
42	PCB_55	0.0000	0.0093	0.0000	0.0111
43	PCB_56	0.2906	0.2963	0.2410	0.2422
44	PCB_57	0.0829	0.0096	0.0287	0.0700
45	PCB_58	0.0360	0.0065	0.0115	0.0261
46	PCB_59_62_75	0.3312	0.1276	0.1074	0.3002
47	PCB_60	0.1163	0.1784	0.1104	0.0934
48	PCB_61_70_74_76	2.3686	1.5594	2.2621	2.3071
49	PCB_63	0.0862	0.0383	0.0619	0.0739
50	PCB_64	0.7447	0.5218	0.4802	0.6646
51	PCB_66	1.7437	0.9830	1.5261	1.5392
52	PCB_67	0.0983	0.0299	0.0441	0.0883
53	PCB_68	0.1503	0.0149	0.0819	0.1465
54	PCB_72	0.2168	0.0288	0.0879	0.2225
55	PCB_77	0.0484	0.0779	0.0354	0.0407
56	PCB_78	0.0034	0.0000	0.0010	0.0000
57	PCB_79	0.0466	0.0190	0.0561	0.0332
58	PCB_81	0.0040	0.0054	0.0047	0.0026
59	PCB_82	0.3639	0.3283	0.4152	0.3005
60	PCB_83	0.1679	0.0867	0.1419	0.0949
61	PCB_84	0.6326	0.5132	0.4208	0.5398
62	PCB_85_117_116	0.9673	0.7597	1.4046	1.0985
63	Coplanar1	3.6930	1.9433	4.4056	3.3532
64	PCB_88_91	1.0696	0.7870	0.9656	0.9596
65	PCB_89	0.0117	0.0181	0.0084	0.0094
66	PCB_90_101_113	6.9718	4.0440	8.5115	7.3765
67	PCB_92	1.9421	1.0460	1.7718	1.8677
68	Coplanar2	0.2641	0.1215	0.2245	0.2100
69	PCB_94	0.0212	0.0072	0.0124	0.0155
70	PCB_95	4.0718	3.2145	3.3186	3.7032
71	PCB_96	0.0182	0.0120	0.0098	0.0175
72	PCB_99	3.7454	2.0473	4.6616	4.3080
73	PCB_103	0.1162	0.0380	0.0827	0.1080
74	PCB_104	0.0037	0.0000	0.0026	0.0030
75	PCB_105	1.3312	0.9052	2.4302	1.6256
76	PCB_107_124	0.2096	0.1485	0.3236	0.2205
77	PCB_109	0.4318	0.2160	0.5782	0.5309
78	PCB_110_115	7.6999	5.8007	7.8084	7.6662
79	PCB_111	0.0087	0.0033	0.0051	0.0125
80	PCB_114	0.0764	0.0413	0.1524	0.0894

81	PCB_118	4.8777	2.4738	7.3824	6.0265
82	PCB_120	0.0439	0.0138	0.0228	0.0452
83	PCB_121	0.0041	0.0000	0.0023	0.0041
84	PCB_122	0.0507	0.0427	0.0710	0.0481
85	PCB_123	0.1161	0.0601	0.1446	0.0759
86	PCB_126	0.0179	0.0139	0.0294	0.0099
87	PCB_127	0.0085	0.0077	0.0168	0.0106
88	PCB_128_166	1.0340	1.1307	1.7670	1.1366
89	PCB_129_138_163	8.0181	10.8018	11.1005	8.5998
90	PCB_130	0.3792	0.4531	0.4959	0.3080
91	PCB_131	0.0530	0.0559	0.0622	0.0334
92	PCB_132	1.4081	1.7973	1.6150	1.1182
93	PCB_133	0.1268	0.1328	0.1350	0.1098
94	PCB_134_143	0.3233	0.3310	0.3337	0.2123
95	PCB_135_151	1.8749	3.6921	2.3388	1.4212
96	PCB_136	0.4460	0.5998	0.4750	0.2867
97	PCB_137	0.5121	0.3425	0.7231	0.4774
98	PCB_139_140	0.1609	0.1325	0.2452	0.1517
99	PCB_141	0.7843	1.4209	1.1103	0.7643
100	PCB_144	0.1883	0.3172	0.2875	0.1500
101	PCB_145	0.0017	0.0016	0.0015	0.0008
102	PCB_146	1.3188	1.8381	1.5815	0.0000
103	PCB_147_149	5.1324	9.3138	6.5340	4.1959
104	PCB_148	0.0084	0.0070	0.0086	0.0069
105	PCB_150	0.0068	0.0054	0.0064	0.0046
106	PCB_152	0.0044	0.0036	0.0042	0.0033
107	PCB_153_168	5.5833	8.3515	0.0000	6.1400
108	PCB_154	0.0801	0.0657	0.0944	0.0679
109	PCB_155	0.0004	0.0000	0.0002	0.0003
110	PCB_156_57	0.5650	0.4618	1.0916	0.7325
111	PCB_158	0.6686	0.7493	1.0438	0.6877
112	PCB_159	0.0023	0.0021	0.0030	0.0004
113	PCB_161	0.0000	0.0005	0.0026	0.9257
114	PCB_162	0.0142	0.0272	0.0315	0.0158
115	PCB_164	0.3713	0.7201	0.5692	0.3640
116	PCB_165	0.0079	0.0041	0.0035	0.0000
117	PCB_167	0.2003	0.2667	0.3447	0.2788
118	PCB_169	0.0011	0.0058	0.0011	0.0008
119	PCB_170	0.3025	0.8833	0.5811	0.6047
120	PCB_171_173	0.1716	0.4990	0.2779	0.2170
121	PCB_172	0.0569	0.2852	0.0925	0.0894
122	PCB_174	0.3353	1.7110	0.4809	0.3159
123	PCB_175	0.0176	0.0746	0.0250	0.0167
124	PCB_176	0.0435	0.1521	0.0585	0.0257
125	PCB_177	0.2464	1.0436	0.3355	0.2243
126	PCB_178	0.1116	0.4855	0.1372	0.0867
127	PCB_179	0.1395	0.6373	0.1810	0.0866
128	PCB_180_193	0.5662	2.2697	0.9050	1.0250
129	PCB_181	0.0115	0.0146	0.0203	0.0181
130	PCB_182	0.0000	0.0120	0.0000	0.0052
131	PCB_183_185	0.3593	1.3675	0.5123	0.3802
132	PCB_184	0.0007	0.0018	0.0008	0.0007
133	PCB_186	0.0002	0.0015	0.0003	0.0002
134	PCB_187	1.3026	9.0227	1.7562	1.0535
135	PCB_188	0.0007	0.0022	0.0008	0.0008
136	PCB_189	0.0190	0.0431	0.0316	0.0222
137	PCB_190	0.0244	0.1017	0.0441	0.0497
138	PCB_191	0.0143	0.0551	0.0254	0.0220
139	PCB_192	0.0002	0.0015	0.0000	0.0000
140	PCB_194	0.0455	0.2519	0.0683	0.0616
141	PCB_195	0.0258	0.1441	0.0385	0.0368
142	PCB_196	0.0265	0.1809	0.0373	0.0342
143	PCB_197_200	0.0111	0.0747	0.0138	0.0093
144	PCB_198_199	0.0664	0.4717	0.0946	0.0942
145	PCB_201	0.0127	0.1095	0.0132	0.0095
146	PCB_202	0.0164	0.1455	0.0167	0.0153
147	PCB_203	0.0492	0.3338	0.0622	0.0635
148	PCB_204	0.0002	0.0015	0.0001	0.0000
149	PCB_205	0.0043	0.0253	0.0055	0.0041
150	PCB_206	0.0206	0.2056	0.0206	0.0221
151	PCB_207	0.0031	0.0241	0.0027	0.0034

152	PCB_208	0.0058	0.0700	0.0043	0.0062
153	PCB_209	0.0082	0.1437	0.0032	0.0095

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4
1	1-P-2	-0.0019	0.9458	0.0581	-0.0020
2	2-P-3	0.8966	-0.0026	0.0012	0.1049
3	3-P-3	0.0015	0.0105	0.9897	-0.0017
4	4-P-3	0.9456	0.0084	0.0601	-0.0141
5	5-P-2	-0.0024	0.0100	0.0596	0.9328

****

In the DENEG subroutine, it was found that none of the proportions
were less than -0.05000, hence, the DENEG process was not continued

****

NORMAL END OF JOB

07/13/09 14:02:27
White Sucker Carcass

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 Number of Variables . . . . . . . . . . . . . . 163
 Number of Samples . . . . . . . . . . . . . . . 8
 Cum sums sqrs . . . . . . . . . . . . . . . . . 100.0
 Data transformation option  . . . . . . . . . . 2
 Print Option  . . . . . . . . . . . . . . . . . minimal
 Proportion to constant sum of 100 option  . . Y
 Manually defined range. . . . . . . . . . . . no

 The data will be proportioned to a constant sum of 100.
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White Sucker Carcass

The following are the input vectors

	1	2	3	4	5	6	7
1-WS-5	10.20	0.00	0.00	157.00	0.00	42.50	5.76
2-WS-2	2600.00	0.00	69.00	42300.00	263.00	5930.00	890.00
2-WS-6	1410.00	0.00	52.70	17200.00	85.10	2030.00	324.00
3-WS-3	5300.00	18.70	198.00	93700.00	552.00	14500.00	2030.00
4-WS-5	420.00	0.00	13.20	9180.00	34.60	1140.00	154.00
5-WS-4	1190.00	8.23	37.40	28100.00	96.40	3800.00	472.00
6-WS-2	686.00	0.00	13.50	20300.00	70.20	3140.00	390.00
7-WS-2	281.00	0.00	0.00	15300.00	41.00	1900.00	244.00

White Sucker Carcass

The following are the input vectors

	8	9	10	11	12	13	14
1-WS-5	83.70	7.19	11.70	0.00	0.00	0.00	0.00
2-WS-2	28500.00	1550.00	2970.00	1720.00	704.00	0.00	1130.00
2-WS-6	9370.00	521.00	1530.00	669.00	384.00	0.00	886.00
3-WS-3	41700.00	3430.00	8550.00	0.00	1350.00	0.00	4390.00
4-WS-5	2330.00	230.00	840.00	0.00	308.00	0.00	273.00
5-WS-4	7750.00	776.00	2610.00	42.00	968.00	3.94	1110.00
6-WS-2	7830.00	762.00	1890.00	0.00	611.00	0.00	317.00
7-WS-2	3450.00	417.00	1420.00	0.00	496.00	0.00	249.00

White Sucker Carcass

The following are the input vectors

	15	16	17	18	19	20	21
1-WS-5	254.00	435.00	548.00	206.00	2230.00	249.00	337.00
2-WS-2	14300.00	85600.00	31400.00	47500.00	96100.00	8520.00	8170.00
2-WS-6	4720.00	30500.00	11800.00	19100.00	59900.00	5690.00	5570.00
3-WS-3	34500.00	145000.00	90700.00	95200.00	242000.00	28100.00	41400.00
4-WS-5	3640.00	27800.00	12100.00	12000.00	37200.00	2420.00	3920.00
5-WS-4	13000.00	71900.00	44000.00	36100.00	111000.00	10400.00	15300.00
6-WS-2	9220.00	63700.00	20600.00	36100.00	72400.00	6190.00	8160.00
7-WS-2	7510.00	46600.00	26100.00	24700.00	52300.00	5290.00	7070.00

White Sucker Carcass

The following are the input vectors

	22	23	24	25	26	27	28
1-WS-5	0.00	15.00	234.00	659.00	173.00	763.00	750.00
2-WS-2	65.80	0.00	18200.00	31100.00	68600.00	23900.00	55000.00
2-WS-6	28.80	0.00	7260.00	12900.00	24000.00	17100.00	22200.00
3-WS-3	154.00	0.00	33700.00	76900.00	115000.00	93700.00	120000.00
4-WS-5	29.10	0.00	6700.00	24000.00	30200.00	7300.00	21200.00
5-WS-4	80.90	3.94	24900.00	79200.00	95300.00	49500.00	59500.00
6-WS-2	39.80	0.00	11200.00	36100.00	59000.00	21300.00	43500.00
7-WS-2	37.90	0.00	11500.00	44700.00	52500.00	18800.00	34900.00

White Sucker Carcass

The following are the input vectors

	29	30	31	32	33	34	35
1-WS-5	11.50	0.00	0.00	88.00	4.84	12.10	2940.00
2-WS-2	1180.00	0.00	0.00	2500.00	0.00	322.00	129000.00

2-WS-6	525.00	0.00	0.00	1730.00	0.00	290.00	82800.00
3-WS-3	2160.00	0.00	289.00	10400.00	358.00	799.00	202000.00
4-WS-5	479.00	0.00	6410.00	1140.00	219.00	133.00	73900.00
5-WS-4	1280.00	3.94	3.94	3460.00	537.00	331.00	152000.00
6-WS-2	917.00	0.00	7720.00	1330.00	159.00	195.00	95300.00
7-WS-2	668.00	0.00	0.00	1390.00	214.00	155.00	79000.00

White Sucker Carcass

The following are the input vectors

	36	37	38	39	40	41	42
1-WS-5	1620.00	105.00	7070.00	1350.00	398.00	488.00	5470.00
2-WS-2	69900.00	3500.00	574000.00	91600.00	17600.00	13700.00	430000.00
2-WS-6	44300.00	2510.00	405000.00	41400.00	7080.00	12400.00	277000.00
3-WS-3	139000.00	20100.00	683000.00	134000.00	29500.00	29200.00	607000.00
4-WS-5	36000.00	6790.00	243000.00	41500.00	9430.00	4650.00	272000.00
5-WS-4	91000.00	19400.00	529000.00	105000.00	29300.00	13600.00	498000.00
6-WS-2	50500.00	12200.00	351000.00	70900.00	15000.00	8850.00	321000.00
7-WS-2	41100.00	2440.00	257000.00	59300.00	17000.00	6670.00	283000.00

White Sucker Carcass

The following are the input vectors

	43	44	45	46	47	48	49
1-WS-5	1350.00	4990.00	18.00	0.00	1210.00	52.50	41.90
2-WS-2	85200.00	312000.00	5690.00	0.00	43100.00	2280.00	1780.00
2-WS-6	36100.00	351000.00	2240.00	0.00	48600.00	3890.00	1200.00
3-WS-3	142000.00	451000.00	8690.00	0.00	66800.00	7640.00	2450.00
4-WS-5	56800.00	118000.00	1870.00	0.00	10000.00	3260.00	1650.00
5-WS-4	171000.00	365000.00	5880.00	3.94	31300.00	5910.00	3230.00
6-WS-2	78700.00	145000.00	4700.00	0.00	20700.00	2770.00	1830.00
7-WS-2	90700.00	215000.00	4010.00	0.00	11600.00	2710.00	1400.00

White Sucker Carcass

The following are the input vectors

	50	51	52	53	54	55	56
1-WS-5	655.00	776.00	6880.00	229.00	2630.00	5180.00	64.50
2-WS-2	18700.00	23600.00	539000.00	15300.00	83600.00	327000.00	2830.00
2-WS-6	11900.00	27000.00	641000.00	12800.00	81700.00	301000.00	1840.00
3-WS-3	41400.00	43000.00	492000.00	23500.00	203000.00	385000.00	6250.00
4-WS-5	21300.00	6250.00	79700.00	6100.00	44900.00	103000.00	1340.00
5-WS-4	59600.00	14600.00	248000.00	12000.00	113000.00	205000.00	4900.00
6-WS-2	22000.00	11300.00	201000.00	8210.00	61900.00	153000.00	2300.00
7-WS-2	24600.00	6090.00	102000.00	4830.00	50700.00	83600.00	1740.00

White Sucker Carcass

The following are the input vectors

	57	58	59	60	61	62	63
1-WS-5	109.00	168.00	60.50	272.00	0.00	159.00	0.00
2-WS-2	19000.00	14400.00	9540.00	4790.00	0.00	10700.00	0.00
2-WS-6	12200.00	8900.00	0.00	4580.00	0.00	12500.00	0.00
3-WS-3	22500.00	24400.00	0.00	12600.00	0.00	10500.00	0.00
4-WS-5	11500.00	14400.00	0.00	2130.00	149.00	2350.00	0.00
5-WS-4	19600.00	26500.00	3.94	5870.00	85.20	4610.00	3.94
6-WS-2	12300.00	13500.00	0.00	3270.00	0.00	4080.00	0.00
7-WS-2	8000.00	11300.00	0.00	2220.00	0.00	1710.00	0.00

White Sucker Carcass

The following are the input vectors

	64	65	66	67	68	69	70
1-WS-5	27.20	2050.00	1050.00	4520.00	4770.00	13800.00	4480.00
2-WS-2	474.00	116000.00	53300.00	228000.00	289000.00	1050000.00	193000.00
2-WS-6	579.00	142000.00	47000.00	232000.00	324000.00	1200000.00	185000.00
3-WS-3	605.00	163000.00	66400.00	276000.00	347000.00	955000.00	306000.00
4-WS-5	230.00	29300.00	19600.00	64900.00	85100.00	270000.00	83100.00
5-WS-4	422.00	67400.00	58100.00	191000.00	150000.00	525000.00	179000.00
6-WS-2	355.00	56000.00	25100.00	114000.00	136000.00	460000.00	112000.00
7-WS-2	163.00	25200.00	18700.00	79300.00	54400.00	201000.00	68600.00

White Sucker Carcass

The following are the input vectors

	71	72	73	74	75	76	77
1-WS-5	244.00	21700.00	4490.00	999.00	123.00	15900.00	131.00
2-WS-2	6200.00	1070000.00	217000.00	59000.00	11500.00	643000.00	5560.00
2-WS-6	6690.00	1740000.00	214000.00	45900.00	6330.00	628000.00	4060.00
3-WS-3	8360.00	1460000.00	352000.00	89200.00	16100.00	584000.00	8950.00
4-WS-5	1660.00	365000.00	96000.00	22300.00	4080.00	225000.00	3440.00
5-WS-4	4050.00	684000.00	204000.00	52700.00	11800.00	528000.00	8990.00
6-WS-2	3070.00	536000.00	120000.00	33900.00	7330.00	321000.00	4610.00
7-WS-2	1660.00	295000.00	83400.00	19200.00	4430.00	248000.00	4070.00

White Sucker Carcass

The following are the input vectors

	78	79	80	81	82	83	84
1-WS-5	12800.00	198.00	0.00	5240.00	0.00	674.00	1220.00
2-WS-2	643000.00	11400.00	567.00	511000.00	0.00	47400.00	101000.00
2-WS-6	1090000.00	7080.00	258.00	609000.00	0.00	61800.00	113000.00
3-WS-3	917000.00	19900.00	505.00	559000.00	0.00	61400.00	135000.00
4-WS-5	307000.00	7610.00	245.00	97400.00	0.00	9960.00	35500.00
5-WS-4	462000.00	16900.00	494.00	201000.00	3.94	22100.00	63000.00
6-WS-2	372000.00	9000.00	401.00	203000.00	0.00	20700.00	53200.00
7-WS-2	206000.00	6290.00	233.00	67800.00	0.00	7360.00	20400.00

White Sucker Carcass

The following are the input vectors

	85	86	87	88	89	90	91
1-WS-5	34300.00	16.10	0.00	266.00	14400.00	69.60	6.40
2-WS-2	1390000.00	680.00	0.00	41800.00	849000.00	2000.00	397.00
2-WS-6	2150000.00	795.00	0.00	48700.00	1310000.00	2450.00	277.00
3-WS-3	1730000.00	2290.00	0.00	52500.00	976000.00	7210.00	668.00
4-WS-5	509000.00	1380.00	0.00	6080.00	339000.00	4280.00	452.00
5-WS-4	990000.00	1820.00	3.94	12700.00	510000.00	5350.00	679.00
6-WS-2	751000.00	802.00	0.00	14900.00	502000.00	3140.00	341.00
7-WS-2	377000.00	638.00	0.00	3960.00	225000.00	2170.00	248.00

White Sucker Carcass

The following are the input vectors

	92	93	94	95	96	97	98
1-WS-5	191.00	337.00	65.10	47.60	4660.00	37700.00	1850.00
2-WS-2	12800.00	28900.00	2250.00	2070.00	334000.00	1900000.00	113000.00
2-WS-6	14100.00	30700.00	1120.00	2930.00	411000.00	2450000.00	136000.00
3-WS-3	13600.00	56200.00	6270.00	3310.00	424000.00	2760000.00	167000.00
4-WS-5	2510.00	8230.00	486.00	769.00	85900.00	506000.00	31700.00
5-WS-4	5630.00	10300.00	1020.00	1050.00	127000.00	725000.00	51300.00
6-WS-2	5140.00	13200.00	853.00	1170.00	138000.00	726000.00	46900.00
7-WS-2	1820.00	4640.00	316.00	378.00	45900.00	270000.00	18800.00

White Sucker Carcass

The following are the input vectors

	99	100	101	102	103	104	105
1-WS-5	400.00	9100.00	498.00	1230.00	10200.00	2720.00	1970.00
2-WS-2	24800.00	424000.00	20400.00	59600.00	243000.00	107000.00	138000.00
2-WS-6	33000.00	523000.00	22700.00	76000.00	296000.00	125000.00	175000.00
3-WS-3	33800.00	204000.00	34000.00	85200.00	520000.00	153000.00	205000.00
4-WS-5	6280.00	109000.00	9940.00	19600.00	108000.00	37600.00	38600.00
5-WS-4	10500.00	198000.00	13000.00	39100.00	210000.00	81900.00	50300.00
6-WS-2	10000.00	163000.00	10800.00	28300.00	150000.00	55000.00	61900.00
7-WS-2	3530.00	73900.00	4630.00	14100.00	76900.00	29400.00	19100.00

White Sucker Carcass

The following are the input vectors

	106	107	108	109	110	111	112
1-WS-5	620.00	5250.00	5.50	1460.00	10.50	5570.00	26700.00

2-WS-2	38300.00	179000.00	0.00	46000.00	572.00	199000.00	720000.00
2-WS-6	47800.00	274000.00	0.00	67500.00	642.00	255000.00	1060000.00
3-WS-3	65800.00	253000.00	0.00	94700.00	815.00	349000.00	1290000.00
4-WS-5	12200.00	51400.00	0.00	15800.00	154.00	79600.00	265000.00
5-WS-4	18700.00	74600.00	3.94	28400.00	326.00	99200.00	468000.00
6-WS-2	18000.00	74100.00	0.00	25300.00	263.00	99900.00	376000.00
7-WS-2	6340.00	27400.00	0.00	9580.00	109.00	37100.00	177000.00

White Sucker Carcass

The following are the input vectors

	113	114	115	116	117	118	119
1-WS-5	29.60	31.90	22.30	29800.00	250.00	0.00	2450.00
2-WS-2	1350.00	1740.00	1390.00	1160000.00	12100.00	65.70	248000.00
2-WS-6	1310.00	1640.00	1340.00	1720000.00	13500.00	52.60	323000.00
3-WS-3	2430.00	2370.00	1720.00	2010000.00	23500.00	67.80	351000.00
4-WS-5	679.00	702.00	478.00	384000.00	5650.00	32.20	50800.00
5-WS-4	1120.00	1280.00	969.00	486000.00	9910.00	46.60	81700.00
6-WS-2	812.00	873.00	750.00	496000.00	7280.00	32.90	93500.00
7-WS-2	359.00	420.00	339.00	204000.00	3140.00	16.00	26900.00

White Sucker Carcass

The following are the input vectors

	120	121	122	123	124	125	126
1-WS-5	3300.00	11.50	0.00	0.00	175.00	2170.00	14.00
2-WS-2	198000.00	467.00	0.00	0.00	4040.00	81600.00	426.00
2-WS-6	268000.00	171.00	0.00	0.00	5650.00	115000.00	358.00
3-WS-3	295000.00	1020.00	0.00	0.00	8010.00	151000.00	733.00
4-WS-5	58600.00	39.80	0.00	0.00	2690.00	26800.00	735.00
5-WS-4	86600.00	144.00	3.94	3.94	3730.00	42400.00	751.00
6-WS-2	90200.00	155.00	0.00	0.00	3850.00	39300.00	394.00
7-WS-2	29000.00	39.20	0.00	0.00	624.00	13800.00	277.00

White Sucker Carcass

The following are the input vectors

	127	128	129	130	131	132	133
1-WS-5	1120.00	15.00	4410.00	1800.00	1070.00	4500.00	272.00
2-WS-2	71300.00	101.00	136000.00	43600.00	16700.00	47900.00	4150.00
2-WS-6	101000.00	155.00	229000.00	71000.00	30400.00	93200.00	7080.00
3-WS-3	104000.00	240.00	238000.00	87500.00	40500.00	120000.00	9960.00
4-WS-5	19000.00	39.40	37500.00	16200.00	6620.00	20500.00	1770.00
5-WS-4	22700.00	90.30	48700.00	21400.00	7570.00	34800.00	2490.00
6-WS-2	27100.00	68.90	65200.00	25500.00	10400.00	34800.00	2760.00
7-WS-2	8510.00	35.50	20300.00	8200.00	3330.00	14700.00	983.00

White Sucker Carcass

The following are the input vectors

	134	135	136	137	138	139	140
1-WS-5	747.00	3350.00	1550.00	2240.00	11300.00	65.90	32.90
2-WS-2	10400.00	46000.00	14500.00	20500.00	160000.00	4030.00	985.00
2-WS-6	17100.00	77600.00	21400.00	30100.00	354000.00	5470.00	1410.00
3-WS-3	25100.00	110000.00	34100.00	48900.00	319000.00	6450.00	1690.00
4-WS-5	4730.00	20400.00	7820.00	10400.00	54000.00	1100.00	293.00
5-WS-4	7540.00	32200.00	11200.00	17600.00	71500.00	1410.00	432.00
6-WS-2	7490.00	30700.00	10600.00	16000.00	100000.00	1680.00	463.00
7-WS-2	2730.00	12100.00	4450.00	6750.00	33800.00	509.00	163.00

White Sucker Carcass

The following are the input vectors

	141	142	143	144	145	146	147
1-WS-5	4990.00	7.45	0.00	15200.00	9.22	155.00	758.00
2-WS-2	61500.00	142.00	64.30	96300.00	153.00	6140.00	8070.00
2-WS-6	122000.00	153.00	86.50	162000.00	159.00	10200.00	27900.00
3-WS-3	164000.00	242.00	98.50	354000.00	242.00	12500.00	24400.00
4-WS-5	32200.00	49.70	22.30	63300.00	59.60	1890.00	3340.00
5-WS-4	41200.00	71.10	35.00	74000.00	84.00	2220.00	6050.00
6-WS-2	47300.00	71.20	37.10	79000.00	77.70	2840.00	7630.00

7-WS-2	15900.00	27.80	13.60	32300.00	35.00	851.00	2680.00

White Sucker Carcass

The following are the input vectors

	148	149	150	151	152	153	154
1-WS-5	221.00	0.00	1110.00	601.00	796.00	328.00	1740.00
2-WS-2	4870.00	0.00	12100.00	5910.00	7360.00	1850.00	13400.00
2-WS-6	8750.00	14.50	31100.00	14100.00	17900.00	4020.00	27400.00
3-WS-3	10800.00	14.80	36300.00	18900.00	22100.00	6180.00	33500.00
4-WS-5	1720.00	6.93	5060.00	2840.00	3390.00	1130.00	4460.00
5-WS-4	2170.00	3.94	6250.00	4050.00	4870.00	1720.00	7140.00
6-WS-2	2790.00	4.72	8220.00	4730.00	6060.00	1900.00	8130.00
7-WS-2	866.00	3.99	2920.00	1640.00	2290.00	793.00	3420.00

White Sucker Carcass

The following are the input vectors

	155	156	157	158	159	160	161
1-WS-5	312.00	449.00	1460.00	0.00	78.50	586.00	77.20
2-WS-2	1830.00	2270.00	11400.00	11.30	698.00	4130.00	552.00
2-WS-6	3590.00	3590.00	25100.00	14.70	1700.00	6590.00	919.00
3-WS-3	5840.00	5510.00	39300.00	29.90	2400.00	8680.00	1130.00
4-WS-5	1130.00	1150.00	5630.00	6.47	371.00	1610.00	212.00
5-WS-4	1580.00	1670.00	7770.00	7.34	452.00	1790.00	262.00
6-WS-2	1740.00	1620.00	8980.00	8.74	576.00	2140.00	299.00
7-WS-2	692.00	819.00	3570.00	4.85	211.00	1490.00	186.00

White Sucker Carcass

The following are the input vectors

	162	163
1-WS-5	208.00	261.00
2-WS-2	1060.00	849.00
2-WS-6	1400.00	667.00
3-WS-3	1990.00	1370.00
4-WS-5	384.00	293.00
5-WS-4	463.00	342.00
6-WS-2	512.00	464.00
7-WS-2	519.00	793.00

White Sucker Carcass

General Statistics for Untransformed data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.01	0.01	0.00	0.02
2	PCB_2	0.00	0.00	0.00	0.00
3	PCB_3	0.00	0.00	0.00	0.00
4	PCB_4	0.20	0.10	0.04	0.37
5	PCB_5	0.00	0.00	0.00	0.00
6	PCB_6	0.03	0.01	0.01	0.06
7	PCB_7	0.00	0.00	0.00	0.01
8	PCB_8	0.08	0.05	0.02	0.16
9	PCB_9	0.01	0.00	0.00	0.01
10	PCB_10	0.02	0.01	0.00	0.03
11	PCB_11	0.00	0.00	0.00	0.01
12	PCB_12_13	0.01	0.00	0.00	0.01
13	PCB_14	0.00	0.00	0.00	0.00
14	PCB_15	0.01	0.00	0.00	0.02
15	PCB_16	0.09	0.04	0.02	0.15
16	PCB_17	0.49	0.26	0.11	0.93
17	PCB_18_30	0.25	0.14	0.05	0.52
18	PCB_19	0.27	0.14	0.05	0.49
19	PCB_20_28	0.71	0.25	0.26	1.04
20	PCB_21_33	0.07	0.03	0.02	0.11
21	PCB_22	0.09	0.05	0.02	0.16
22	PCB_23	0.00	0.00	0.00	0.00
23	PCB_24	0.00	0.00	0.00	0.00
24	PCB_25	0.12	0.06	0.03	0.23
25	PCB_26_29	0.38	0.26	0.06	0.89

26	PCB_27	0.49	0.32	0.04	1.04
27	PCB_31	0.24	0.12	0.07	0.42
28	PCB_32	0.38	0.18	0.10	0.69
29	PCB_34	0.01	0.00	0.00	0.01
30	PCB_35	0.00	0.00	0.00	0.00
31	PCB_36	0.02	0.04	0.00	0.10
32	PCB_37	0.02	0.01	0.01	0.04
33	PCB_38	0.00	0.00	0.00	0.00
34	PCB_39	0.00	0.00	0.00	0.00
35	PCB_40_41_71	0.96	0.36	0.36	1.57
36	PCB_42	0.53	0.19	0.19	0.82
37	PCB_43	0.07	0.05	0.01	0.17
38	PCB_44_47_65	3.34	1.15	1.74	5.10
39	PCB_45_51	0.63	0.30	0.18	1.18
40	PCB_46	0.16	0.09	0.03	0.34
41	PCB_48	0.10	0.03	0.05	0.13
42	PCB_49_69	3.13	1.46	1.21	5.62
43	PCB_50_53	0.82	0.53	0.16	1.80
44	PCB_52	2.14	0.96	1.23	4.27
45	PCB_54	0.04	0.02	0.00	0.08
46	PCB_55	0.00	0.00	0.00	0.00
47	PCB_56	0.24	0.04	0.16	0.30
48	PCB_57	0.03	0.02	0.01	0.05
49	PCB_58	0.02	0.01	0.01	0.03
50	PCB_59_62_75	0.26	0.16	0.05	0.51
51	PCB_60	0.13	0.03	0.10	0.19
52	PCB_61_70_74_76	2.13	0.52	1.28	2.98
53	PCB_63	0.08	0.02	0.06	0.10
54	PCB_64	0.70	0.21	0.36	1.01
55	PCB_66	1.58	0.18	1.28	1.81
56	PCB_67	0.02	0.01	0.01	0.04
57	PCB_68	0.11	0.05	0.03	0.18
58	PCB_72	0.14	0.08	0.04	0.23
59	PCB_73	0.01	0.02	0.00	0.05
60	PCB_77	0.04	0.01	0.02	0.07
61	PCB_78	0.00	0.00	0.00	0.00
62	PCB_79	0.04	0.01	0.03	0.06
63	PCB_80	0.00	0.00	0.00	0.00
64	PCB_81	0.00	0.00	0.00	0.01
65	PCB_82	0.57	0.06	0.47	0.64
66	PCB_83	0.31	0.08	0.21	0.50
67	PCB_84	1.24	0.22	1.02	1.63
68	PCB_85_117_116	1.34	0.15	1.08	1.60
69	Coplanar1	4.50	0.76	3.40	5.80
70	PCB_88_91	1.20	0.20	0.81	1.53
71	PCB_89	0.04	0.01	0.03	0.06
72	PCB_90_101_113	5.99	0.64	5.35	7.63
73	PCB_92	1.36	0.26	0.94	1.74
74	Coplanar2	0.33	0.07	0.20	0.45
75	PCB_94	0.06	0.02	0.03	0.10
76	PCB_95	3.63	0.80	2.28	4.93
77	PCB_96	0.05	0.02	0.02	0.08
78	PCB_99	4.01	0.57	3.15	4.93
79	PCB_103	0.09	0.04	0.03	0.14
80	PCB_104	0.00	0.00	0.00	0.00
81	PCB_105	1.97	0.55	1.29	2.83
82	PCB_106	0.00	0.00	0.00	0.00
83	PCB_107_124	0.21	0.05	0.15	0.27
84	PCB_109	0.50	0.09	0.30	0.58
85	PCB_110_115	8.07	0.74	6.75	9.42
86	PCB_111	0.01	0.01	0.00	0.02
87	PCB_112	0.00	0.00	0.00	0.00
88	PCB_114	0.15	0.06	0.07	0.23
89	PCB_118	4.69	0.75	3.55	5.74
90	PCB_120	0.03	0.02	0.01	0.07
91	PCB_121	0.00	0.00	0.00	0.01
92	PCB_122	0.05	0.01	0.04	0.07
93	PCB_123	0.13	0.04	0.08	0.22
94	PCB_126	0.01	0.01	0.00	0.02
95	PCB_127	0.01	0.00	0.01	0.01
96	PCB_128_166	1.42	0.32	0.91	1.85

97	PCB_129_138_163	8.61	1.95	5.36	10.76
98	PCB_130	0.52	0.09	0.37	0.65
99	PCB_131	0.11	0.02	0.07	0.14
100	PCB_132	1.79	0.48	0.80	2.34
101	PCB_133	0.12	0.02	0.09	0.16
102	PCB_134_143	0.32	0.02	0.28	0.33
103	PCB_135_151	1.73	0.37	1.30	2.51
104	PCB_136	0.61	0.05	0.55	0.70
105	PCB_137	0.61	0.15	0.38	0.80
106	PCB_139_140	0.19	0.04	0.13	0.26
107	PCB_141	0.91	0.24	0.54	1.29
108	PCB_142	0.00	0.00	0.00	0.00
109	PCB_144	0.28	0.06	0.19	0.37
110	PCB_145	0.00	0.00	0.00	0.00
111	PCB_146	1.11	0.22	0.74	1.37
112	PCB_147_149	4.51	0.89	3.52	6.58
113	PCB_148	0.01	0.00	0.01	0.01
114	PCB_150	0.01	0.00	0.01	0.01
115	PCB_152	0.01	0.00	0.01	0.01
116	PCB_153_168	6.11	1.38	4.05	7.84
117	PCB_154	0.07	0.01	0.06	0.09
118	PCB_155	0.00	0.00	0.00	0.00
119	PCB_156_57	0.98	0.34	0.53	1.42
120	PCB_158	0.93	0.20	0.58	1.17
121	PCB_159	0.00	0.00	0.00	0.00
122	PCB_160	0.00	0.00	0.00	0.00
123	PCB_161	0.00	0.00	0.00	0.00
124	PCB_162	0.03	0.01	0.01	0.04
125	PCB_164	0.45	0.09	0.27	0.59
126	PCB_165	0.00	0.00	0.00	0.01
127	PCB_167	0.31	0.09	0.17	0.44
128	PCB_169	0.00	0.00	0.00	0.00
129	PCB_170	0.74	0.24	0.40	1.09
130	PCB_171_173	0.28	0.08	0.16	0.44
131	PCB_172	0.12	0.06	0.06	0.26
132	PCB_174	0.44	0.26	0.26	1.11
133	PCB_175	0.03	0.01	0.02	0.07
134	PCB_176	0.09	0.04	0.05	0.18
135	PCB_177	0.38	0.18	0.24	0.83
136	PCB_178	0.14	0.09	0.08	0.38
137	PCB_179	0.20	0.13	0.11	0.55
138	PCB_180_193	1.21	0.66	0.61	2.79
139	PCB_181	0.02	0.01	0.01	0.03
140	PCB_182	0.01	0.00	0.00	0.01
141	PCB_183_185	0.56	0.28	0.32	1.23
142	PCB_184	0.00	0.00	0.00	0.00
143	PCB_186	0.00	0.00	0.00	0.00
144	PCB_187	1.19	1.00	0.53	3.75
145	PCB_188	0.00	0.00	0.00	0.00
146	PCB_189	0.03	0.01	0.02	0.05
147	PCB_190	0.09	0.05	0.04	0.19
148	PCB_191	0.03	0.01	0.02	0.05
149	PCB_192	0.00	0.00	0.00	0.00
150	PCB_194	0.11	0.07	0.05	0.27
151	PCB_195	0.06	0.04	0.03	0.15
152	PCB_196	0.08	0.05	0.04	0.20
153	PCB_197_200	0.03	0.02	0.01	0.08
154	PCB_198_199	0.13	0.12	0.06	0.43
155	PCB_201	0.02	0.02	0.01	0.08
156	PCB_202	0.03	0.03	0.01	0.11
157	PCB_203	0.13	0.09	0.06	0.36
158	PCB_204	0.00	0.00	0.00	0.00
159	PCB_205	0.01	0.00	0.00	0.02
160	PCB_206	0.04	0.04	0.02	0.14
161	PCB_207	0.01	0.01	0.00	0.02
162	PCB_208	0.01	0.01	0.00	0.05
163	PCB_209	0.01	0.02	0.00	0.06

Variables transformed to interval of their range
White Sucker Carcass

General Statistics for Transformed Data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.37	0.30	-0.00	1.00
2	PCB_2	0.25	0.43	0.00	1.00
3	PCB_3	0.33	0.30	0.00	1.00
4	PCB_4	0.50	0.32	0.00	1.00
5	PCB_5	0.40	0.29	0.00	1.00
6	PCB_6	0.42	0.31	0.00	1.00
7	PCB_7	0.38	0.31	-0.00	1.00
8	PCB_8	0.42	0.35	-0.00	1.00
9	PCB_9	0.42	0.31	-0.00	1.00
10	PCB_10	0.50	0.32	-0.00	1.00
11	PCB_11	0.17	0.33	0.00	1.00
12	PCB_12_13	0.51	0.31	0.00	1.00
13	PCB_14	0.13	0.33	0.00	1.00
14	PCB_15	0.36	0.28	0.00	1.00
15	PCB_16	0.54	0.31	0.00	1.00
16	PCB_17	0.47	0.31	0.00	1.00
17	PCB_18_30	0.43	0.30	-0.00	1.00
18	PCB_19	0.50	0.33	0.00	1.00
19	PCB_20_28	0.57	0.32	0.00	1.00
20	PCB_21_33	0.51	0.34	0.00	1.00
21	PCB_22	0.49	0.33	-0.00	1.00
22	PCB_23	0.57	0.33	0.00	1.00
23	PCB_24	0.13	0.33	0.00	1.00
24	PCB_25	0.47	0.32	-0.00	1.00
25	PCB_26_29	0.39	0.31	-0.00	1.00
26	PCB_27	0.45	0.32	-0.00	1.00
27	PCB_31	0.47	0.36	0.00	1.00
28	PCB_32	0.48	0.30	0.00	1.00
29	PCB_34	0.50	0.32	-0.00	1.00
30	PCB_35	0.13	0.33	0.00	1.00
31	PCB_36	0.23	0.39	0.00	1.00
32	PCB_37	0.43	0.30	0.00	1.00
33	PCB_38	0.45	0.37	0.00	1.00
34	PCB_39	0.62	0.35	-0.00	1.00
35	PCB_40_41_71	0.49	0.30	0.00	1.00
36	PCB_42	0.54	0.31	-0.00	1.00
37	PCB_43	0.41	0.35	0.00	1.00
38	PCB_44_47_65	0.47	0.34	-0.00	1.00
39	PCB_45_51	0.45	0.30	-0.00	1.00
40	PCB_46	0.41	0.30	0.00	1.00
41	PCB_48	0.56	0.33	-0.00	1.00
42	PCB_49_69	0.43	0.33	0.00	1.00
43	PCB_50_53	0.40	0.32	0.00	1.00
44	PCB_52	0.30	0.32	-0.00	1.00
45	PCB_54	0.42	0.30	0.00	1.00
46	PCB_55	0.13	0.33	0.00	1.00
47	PCB_56	0.55	0.28	-0.00	1.00
48	PCB_57	0.48	0.40	0.00	1.00
49	PCB_58	0.52	0.39	0.00	1.00
50	PCB_59_62_75	0.45	0.35	0.00	1.00
51	PCB_60	0.38	0.31	0.00	1.00
52	PCB_61_70_74_76	0.50	0.31	-0.00	1.00
53	PCB_63	0.61	0.37	0.00	1.00
54	PCB_64	0.53	0.32	0.00	1.00
55	PCB_66	0.57	0.34	0.00	1.00
56	PCB_67	0.45	0.30	-0.00	1.00
57	PCB_68	0.56	0.33	0.00	1.00
58	PCB_72	0.50	0.40	-0.00	1.00
59	PCB_73	0.16	0.33	0.00	1.00
60	PCB_77	0.44	0.30	-0.00	1.00
61	PCB_78	0.16	0.33	0.00	1.00
62	PCB_79	0.39	0.33	0.00	1.00
63	PCB_80	0.13	0.33	0.00	1.00
64	PCB_81	0.28	0.30	-0.00	1.00
65	PCB_82	0.58	0.37	0.00	1.00
66	PCB_83	0.36	0.29	-0.00	1.00
67	PCB_84	0.37	0.36	-0.00	1.00

68	PCB_85_117_116	0.51	0.30	0.00	1.00
69	Coplanar1	0.46	0.32	-0.00	1.00
70	PCB_88_91	0.55	0.28	0.00	1.00
71	PCB_89	0.26	0.29	-0.00	1.00
72	PCB_90_101_113	0.28	0.28	0.00	1.00
73	PCB_92	0.52	0.32	0.00	1.00
74	Coplanar2	0.54	0.29	-0.00	1.00
75	PCB_94	0.51	0.33	-0.00	1.00
76	PCB_95	0.51	0.30	0.00	1.00
77	PCB_96	0.47	0.34	-0.00	1.00
78	PCB_99	0.48	0.32	-0.00	1.00
79	PCB_103	0.51	0.33	0.00	1.00
80	PCB_104	0.63	0.34	0.00	1.00
81	PCB_105	0.45	0.36	-0.00	1.00
82	PCB_106	0.13	0.33	0.00	1.00
83	PCB_107_124	0.49	0.36	-0.00	1.00
84	PCB_109	0.71	0.33	0.00	1.00
85	PCB_110_115	0.50	0.28	-0.00	1.00
86	PCB_111	0.34	0.33	0.00	1.00
87	PCB_112	0.13	0.33	0.00	1.00
88	PCB_114	0.48	0.37	0.00	1.00
89	PCB_118	0.52	0.34	0.00	1.00
90	PCB_120	0.37	0.32	0.00	1.00
91	PCB_121	0.40	0.33	0.00	1.00
92	PCB_122	0.45	0.30	-0.00	1.00
93	PCB_123	0.36	0.31	-0.00	1.00
94	PCB_126	0.32	0.31	-0.00	1.00
95	PCB_127	0.70	0.35	0.00	1.00
96	PCB_128_166	0.54	0.35	0.00	1.00
97	PCB_129_138_163	0.60	0.36	-0.00	1.00
98	PCB_130	0.53	0.33	0.00	1.00
99	PCB_131	0.54	0.32	0.00	1.00
100	PCB_132	0.64	0.31	-0.00	1.00
101	PCB_133	0.39	0.29	0.00	1.00
102	PCB_134_143	0.68	0.34	0.00	1.00
103	PCB_135_151	0.36	0.30	-0.00	1.00
104	PCB_136	0.42	0.30	0.00	1.00
105	PCB_137	0.56	0.37	0.00	1.00
106	PCB_139_140	0.48	0.29	-0.00	1.00
107	PCB_141	0.49	0.32	-0.00	1.00
108	PCB_142	0.13	0.33	0.00	1.00
109	PCB_144	0.50	0.32	-0.00	1.00
110	PCB_145	0.58	0.31	-0.00	1.00
111	PCB_146	0.59	0.34	-0.00	1.00
112	PCB_147_149	0.32	0.29	-0.00	1.00
113	PCB_148	0.49	0.30	0.00	1.00
114	PCB_150	0.50	0.32	-0.00	1.00
115	PCB_152	0.57	0.35	-0.00	1.00
116	PCB_153_168	0.54	0.36	0.00	1.00
117	PCB_154	0.47	0.39	-0.00	1.00
118	PCB_155	0.59	0.27	0.00	1.00
119	PCB_156_57	0.50	0.39	-0.00	1.00
120	PCB_158	0.60	0.33	-0.00	1.00
121	PCB_159	0.35	0.34	0.00	1.00
122	PCB_160	0.13	0.33	0.00	1.00
123	PCB_161	0.13	0.33	0.00	1.00
124	PCB_162	0.61	0.34	0.00	1.00
125	PCB_164	0.55	0.29	-0.00	1.00
126	PCB_165	0.31	0.30	0.00	1.00
127	PCB_167	0.52	0.34	0.00	1.00
128	PCB_169	0.17	0.32	0.00	1.00
129	PCB_170	0.49	0.35	-0.00	1.00
130	PCB_171_173	0.41	0.30	0.00	1.00
131	PCB_172	0.30	0.30	0.00	1.00
132	PCB_174	0.21	0.31	0.00	1.00
133	PCB_175	0.27	0.30	-0.00	1.00
134	PCB_176	0.25	0.30	0.00	1.00
135	PCB_177	0.24	0.30	-0.00	1.00
136	PCB_178	0.20	0.31	-0.00	1.00
137	PCB_179	0.20	0.31	0.00	1.00
138	PCB_180_193	0.28	0.30	0.00	1.00

139	PCB_181	0.54	0.34	0.00	1.00
140	PCB_182	0.44	0.30	-0.00	1.00
141	PCB_183_185	0.26	0.30	-0.00	1.00
142	PCB_184	0.25	0.30	-0.00	1.00
143	PCB_186	0.76	0.31	0.00	1.00
144	PCB_187	0.20	0.31	-0.00	1.00
145	PCB_188	0.19	0.31	-0.00	1.00
146	PCB_189	0.50	0.33	0.00	1.00
147	PCB_190	0.29	0.32	0.00	1.00
148	PCB_191	0.40	0.31	-0.00	1.00
149	PCB_192	0.45	0.32	0.00	1.00
150	PCB_194	0.27	0.31	-0.00	1.00
151	PCB_195	0.24	0.31	-0.00	1.00
152	PCB_196	0.23	0.31	-0.00	1.00
153	PCB_197_200	0.21	0.30	-0.00	1.00
154	PCB_198_199	0.19	0.31	-0.00	1.00
155	PCB_201	0.20	0.31	-0.00	1.00
156	PCB_202	0.16	0.32	0.00	1.00
157	PCB_203	0.21	0.31	0.00	1.00
158	PCB_204	0.64	0.30	0.00	1.00
159	PCB_205	0.24	0.31	-0.00	1.00
160	PCB_206	0.20	0.31	-0.00	1.00
161	PCB_207	0.19	0.31	-0.00	1.00
162	PCB_208	0.17	0.31	0.00	1.00
163	PCB_209	0.17	0.32	0.00	1.00

White Sucker Carcass

No.	Eigenvalue	Cum. Var
1	5.3247	66.56
2	1.2046	81.62
3	0.6841	90.17
4	0.2905	93.80
5	0.1879	96.15
6	0.1534	98.07
7	0.1060	99.39
8	0.0487	100.00
9	0.0000	100.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 1	PCB_1	-0.00	0.21	0.58	0.91	0.97	0.98
Var 2	PCB_2	0.05	0.05	0.26	0.45	0.92	1.00
Var 3	PCB_3	0.02	0.22	0.44	0.84	0.97	0.98
Var 4	PCB_4	0.36	0.45	0.78	0.99	1.00	1.00
Var 5	PCB_5	0.02	0.22	0.64	0.97	0.97	0.99
Var 6	PCB_6	0.20	0.25	0.66	0.98	0.98	0.99
Var 7	PCB_7	0.13	0.20	0.66	0.99	0.99	1.00
Var 8	PCB_8	0.00	0.23	0.75	0.89	0.88	1.00
Var 9	PCB_9	0.13	0.23	0.67	0.96	0.97	0.98
Var 10	PCB_10	0.42	0.48	0.73	0.98	0.98	0.99
Var 11	PCB_11	0.09	0.39	0.49	0.61	0.61	0.89
Var 12	PCB_12_13	0.89	0.93	0.95	0.97	0.97	0.98
Var 13	PCB_14	0.18	0.18	0.19	0.26	0.99	1.00
Var 14	PCB_15	0.04	0.14	0.43	0.82	0.93	0.98
Var 15	PCB_16	0.51	0.54	0.85	0.97	0.98	0.99
Var 16	PCB_17	0.77	0.80	0.85	0.90	0.95	0.96
Var 17	PCB_18_30	0.75	0.77	0.92	0.98	0.98	1.00
Var 18	PCB_19	0.60	0.64	0.79	0.87	0.93	0.94

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 19	PCB_20_28	0.63	0.68	0.82	0.96	0.97	0.98
Var 20	PCB_21_33	0.35	0.44	0.82	0.96	0.97	0.99
Var 21	PCB_22	0.35	0.47	0.70	0.93	0.95	0.99
Var 22	PCB_23	0.80	0.85	0.89	0.99	0.99	1.00
Var 23	PCB_24	0.20	0.96	0.96	0.98	0.98	1.00
Var 24	PCB_25	0.89	0.90	0.96	0.99	1.00	1.00

Var 25	PCB_26_29	0.93	0.95	0.96	0.98	0.99	1.00
Var 26	PCB_27	0.93	0.94	0.96	0.98	0.98	0.99
Var 27	PCB_31	0.46	0.53	0.80	0.87	0.94	0.99
Var 28	PCB_32	0.81	0.81	0.88	0.96	0.98	0.98
Var 29	PCB_34	0.87	0.89	0.90	0.96	0.96	0.97
Var 30	PCB_35	0.18	0.18	0.19	0.26	0.99	1.00
Var 31	PCB_36	0.00	0.02	0.59	0.78	0.78	0.85
Var 32	PCB_37	0.17	0.30	0.54	0.89	0.94	0.97
Var 33	PCB_38	0.78	0.86	0.91	0.93	0.98	1.00
Var 34	PCB_39	0.19	0.70	0.84	0.99	0.99	1.00
Var 35	PCB_40_41_71	0.89	0.95	0.95	0.98	0.99	1.00
Var 36	PCB_42	0.88	0.94	0.93	0.98	1.00	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 37	PCB_43	0.30	0.31	0.34	0.45	0.79	0.79
Var 38	PCB_44_47_65	0.93	0.95	0.94	0.97	0.97	1.00
Var 39	PCB_45_51	0.93	0.94	0.94	0.96	0.98	0.99
Var 40	PCB_46	0.90	0.95	0.96	0.99	1.00	1.00
Var 41	PCB_48	0.26	0.74	0.95	0.99	0.99	0.99
Var 42	PCB_49_69	0.93	0.93	0.96	0.98	1.00	1.00
Var 43	PCB_50_53	0.95	0.97	0.97	1.00	1.00	1.00
Var 44	PCB_52	0.79	0.78	0.83	0.89	0.90	0.95
Var 45	PCB_54	0.84	0.86	0.90	0.92	0.97	0.97
Var 46	PCB_55	0.18	0.18	0.19	0.26	0.99	1.00
Var 47	PCB_56	0.04	0.37	0.87	0.91	0.99	0.99
Var 48	PCB_57	0.79	0.79	0.89	0.94	0.94	0.99
Var 49	PCB_58	0.80	0.83	0.95	0.97	0.99	1.00
Var 50	PCB_59_62_75	0.85	0.91	0.93	0.95	0.99	1.00
Var 51	PCB_60	0.22	0.67	0.96	1.00	1.00	1.00
Var 52	PCB_61_70_74_76	0.05	0.45	0.65	0.99	1.00	1.00
Var 53	PCB_63	0.70	0.76	0.73	0.90	0.95	1.00
Var 54	PCB_64	0.71	0.88	0.89	0.96	0.98	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 55	PCB_66	0.45	0.65	0.64	0.66	0.69	1.00
Var 56	PCB_67	0.78	0.81	0.83	0.86	0.98	0.99
Var 57	PCB_68	0.73	0.81	0.90	0.95	0.97	1.00
Var 58	PCB_72	0.84	0.84	0.94	0.98	1.00	1.00
Var 59	PCB_73	0.10	0.12	0.26	0.29	0.29	0.89
Var 60	PCB_77	-0.01	0.85	0.90	0.95	1.00	1.00
Var 61	PCB_78	0.06	0.07	0.67	0.81	0.90	0.91
Var 62	PCB_79	0.34	0.78	0.81	0.94	0.94	1.00
Var 63	PCB_80	0.18	0.18	0.19	0.26	0.99	1.00
Var 64	PCB_81	0.02	0.83	0.89	0.91	0.92	0.97
Var 65	PCB_82	0.13	0.53	0.87	0.89	0.93	0.92
Var 66	PCB_83	0.63	0.65	0.64	0.70	0.98	0.99
Var 67	PCB_84	0.64	0.65	0.75	0.95	0.99	1.00
Var 68	PCB_85_117_116	0.18	0.73	0.75	0.76	0.77	0.96
Var 69	Coplanar1	0.01	0.70	0.71	0.90	0.90	0.99
Var 70	PCB_88_91	0.71	0.79	0.76	0.84	0.97	1.00
Var 71	PCB_89	0.14	0.87	0.91	0.95	0.95	1.00
Var 72	PCB_90_101_113	0.05	0.45	0.45	0.62	0.63	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 73	PCB_92	0.86	0.88	0.85	0.92	0.99	0.99
Var 74	Coplanar2	0.72	0.74	0.71	0.79	0.93	0.98
Var 75	PCB_94	0.80	0.84	0.83	0.87	0.93	0.97
Var 76	PCB_95	0.47	0.64	0.65	0.94	0.95	0.99
Var 77	PCB_96	0.91	0.96	0.96	0.98	1.00	1.00
Var 78	PCB_99	0.03	0.29	0.84	0.81	0.81	0.99
Var 79	PCB_103	0.84	0.85	0.86	0.92	0.99	1.00
Var 80	PCB_104	0.73	0.87	0.88	0.91	0.91	0.97

Var 81	PCB_105	0.20	0.89	0.96	0.98	0.98	0.99
Var 82	PCB_106	0.18	0.18	0.19	0.26	0.99	1.00
Var 83	PCB_107_124	0.32	0.83	0.94	0.97	0.97	0.97
Var 84	PCB_109	0.03	0.70	0.73	0.83	0.92	0.96
Var 85	PCB_110_115	0.12	0.13	0.42	0.85	0.90	0.98
Var 86	PCB_111	0.47	0.48	0.76	0.92	0.98	0.98
Var 87	PCB_112	0.18	0.18	0.19	0.26	0.99	1.00
Var 88	PCB_114	0.19	0.83	0.98	1.00	1.00	1.00
Var 89	PCB_118	-0.01	0.47	0.87	0.90	0.93	0.94
Var 90	PCB_120	0.48	0.50	0.80	0.98	1.00	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 91	PCB_121	0.60	0.61	0.85	0.93	0.98	0.99
Var 92	PCB_122	0.37	0.72	0.85	0.89	0.90	0.98
Var 93	PCB_123	0.09	0.38	0.50	0.99	1.00	1.00
Var 94	PCB_126	0.09	0.17	0.51	0.96	0.97	1.00
Var 95	PCB_127	0.61	0.66	0.73	0.94	0.93	0.93
Var 96	PCB_128_166	0.42	0.92	0.94	0.99	0.98	1.00
Var 97	PCB_129_138_163	0.77	0.85	0.90	0.97	0.98	0.98
Var 98	PCB_130	0.39	0.74	0.82	0.98	0.99	0.99
Var 99	PCB_131	0.56	0.92	0.95	0.99	1.00	1.00
Var 100	PCB_132	0.23	0.22	0.30	0.89	0.89	1.00
Var 101	PCB_133	-0.01	0.00	0.24	0.84	0.90	0.98
Var 102	PCB_134_143	0.18	0.45	0.47	0.50	0.98	0.99
Var 103	PCB_135_151	0.01	0.80	0.80	0.94	0.99	1.00
Var 104	PCB_136	0.02	0.44	0.43	0.44	0.95	1.00
Var 105	PCB_137	0.39	0.81	0.83	0.99	0.99	0.99
Var 106	PCB_139_140	0.25	0.56	0.61	0.98	1.00	1.00
Var 107	PCB_141	0.94	0.97	0.96	0.99	0.99	0.99
Var 108	PCB_142	0.20	0.96	0.96	0.98	0.98	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 109	PCB_144	0.56	0.67	0.72	0.94	0.97	0.99
Var 110	PCB_145	0.25	0.47	0.72	0.78	0.92	0.98
Var 111	PCB_146	0.54	0.58	0.62	0.98	0.98	1.00
Var 112	PCB_147_149	0.49	0.95	0.95	0.99	1.00	1.00
Var 113	PCB_148	0.13	0.14	0.20	0.73	0.93	1.00
Var 114	PCB_150	0.23	0.27	0.32	0.51	0.80	1.00
Var 115	PCB_152	0.31	0.51	0.50	0.54	0.70	0.91
Var 116	PCB_153_168	0.78	0.79	0.80	0.95	0.96	0.98
Var 117	PCB_154	0.07	0.10	0.10	0.75	0.98	0.99
Var 118	PCB_155	0.34	0.74	0.86	0.93	0.96	1.00
Var 119	PCB_156_57	0.30	0.87	0.94	1.00	1.00	1.00
Var 120	PCB_158	0.51	0.86	0.87	0.99	1.00	1.00
Var 121	PCB_159	0.17	0.22	0.69	0.92	0.92	1.00
Var 122	PCB_160	0.18	0.18	0.19	0.26	0.99	1.00
Var 123	PCB_161	0.18	0.18	0.19	0.26	0.99	1.00
Var 124	PCB_162	0.08	0.22	0.48	0.65	0.78	0.83
Var 125	PCB_164	0.71	0.71	0.75	0.97	0.99	1.00
Var 126	PCB_165	0.28	0.30	0.79	0.92	0.95	0.97

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 127	PCB_167	0.59	0.89	0.90	0.98	0.99	0.99
Var 128	PCB_169	0.19	0.98	0.98	0.99	0.99	1.00
Var 129	PCB_170	0.90	0.93	0.93	0.97	0.99	1.00
Var 130	PCB_171_173	0.68	0.91	0.92	0.99	0.99	0.99
Var 131	PCB_172	0.52	0.96	0.96	0.99	1.00	1.00
Var 132	PCB_174	0.30	0.99	0.99	1.00	1.00	1.00
Var 133	PCB_175	0.41	0.96	0.97	1.00	1.00	1.00
Var 134	PCB_176	0.31	0.97	0.97	0.99	0.99	0.99
Var 135	PCB_177	0.33	0.98	0.99	1.00	1.00	1.00
Var 136	PCB_178	0.21	0.98	0.99	0.99	0.99	1.00

Var 137 PCB_179	0.18	0.99	0.99	0.98	0.98	1.00
Var 138 PCB_180_193	0.56	0.97	0.97	0.98	0.99	1.00
Var 139 PCB_181	0.55	0.80	0.84	0.99	1.00	1.00
Var 140 PCB_182	0.80	0.93	0.95	1.00	1.00	1.00
Var 141 PCB_183_185	0.38	0.97	0.97	1.00	0.99	1.00
Var 142 PCB_184	0.32	0.94	0.94	0.95	0.95	1.00
Var 143 PCB_186	0.03	0.88	0.88	0.96	0.95	0.97
Var 144 PCB_187	0.22	0.98	0.98	0.99	0.99	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4	5	6	7
Var 145 PCB_188	0.23	0.95	0.95	0.94	0.94	1.00
Var 146 PCB_189	0.72	0.74	0.76	0.95	0.96	1.00
Var 147 PCB_190	0.51	0.89	0.88	0.90	0.91	0.98
Var 148 PCB_191	0.70	0.91	0.91	0.98	0.99	1.00
Var 149 PCB_192	0.18	0.24	0.58	0.71	0.77	0.99
Var 150 PCB_194	0.50	0.97	0.97	0.98	0.99	1.00
Var 151 PCB_195	0.39	0.98	0.98	0.99	0.99	1.00
Var 152 PCB_196	0.37	0.98	0.98	0.99	0.99	1.00
Var 153 PCB_197_200	0.22	0.99	0.99	0.99	0.99	1.00
Var 154 PCB_198_199	0.33	0.99	0.99	1.00	1.00	1.00
Var 155 PCB_201	0.22	0.99	0.99	0.99	0.99	1.00
Var 156 PCB_202	0.20	0.98	0.98	0.98	0.98	1.00
Var 157 PCB_203	0.31	0.99	0.99	1.00	1.00	1.00
Var 158 PCB_204	0.24	0.56	0.55	0.92	0.96	0.99
Var 159 PCB_205	0.37	0.97	0.98	0.99	1.00	1.00
Var 160 PCB_206	0.23	0.97	0.97	0.98	0.99	1.00
Var 161 PCB_207	0.24	0.98	0.97	0.98	0.99	1.00
Var 162 PCB_208	0.17	0.96	0.96	0.97	0.98	1.00

White Sucker Carcass

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4	5	6	7
Var 163 PCB_209	0.11	0.94	0.93	0.95	0.98	1.00

White Sucker Carcass

Number of tries in the Varimax Procedure = 4

Normalized Varimax Coordinates

	Comm.	1	2	3	4
1 1-WS-5	1.0000	0.0715	0.1452	0.6042	0.0692
2 2-WS-2	1.0000	0.1624	0.3537	0.0493	0.0704
3 2-WS-6	1.0000	0.0223	0.6520	0.1594	0.1245
4 3-WS-3	1.0000	0.1810	0.2198	0.1321	0.0888
5 4-WS-5	1.0000	0.2604	0.1636	0.0791	0.3543
6 5-WS-4	1.0000	0.4020	0.0993	0.0613	0.1130
7 6-WS-2	1.0000	0.2499	0.2181	0.0825	0.1581
8 7-WS-2	1.0000	0.7001	0.0627	0.0649	0.1255
	>= 0.1	6	6	3	5
	< 0.1	2	2	5	3

White Sucker Carcass

Number of tries in the Varimax Procedure = 4

Normalized Varimax Coordinates

	Comm.	5	6	7	8
1 1-WS-5	1.0000	0.0786	0.0091	0.0130	0.0091
2 2-WS-2	1.0000	0.1336	0.0339	0.1734	0.0233
3 2-WS-6	1.0000	0.0858	0.0178	-0.0678	0.0060
4 3-WS-3	1.0000	0.3091	0.0301	0.0249	0.0142
5 4-WS-5	1.0000	0.0861	0.0343	0.0160	0.0063
6 5-WS-4	1.0000	0.0867	0.2071	0.0229	0.0076
7 6-WS-2	1.0000	0.1162	0.0180	0.0429	0.1144
8 7-WS-2	1.0000	0.1054	-0.0800	0.0212	0.0002

>= 0.1	4	1	1	1
< 0.1	4	7	7	7

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White Sucker Carcass
White Sucker Carcass - 6 EMs

Number of Samples	8
Number of Variables	163
Number of End-Members in Model.	6
Starting Option used	1
Initial DENEG value	0.25000
Greatest allowed negative in END MEMBER Comp. . .	0.05000
Greatest allowed negative in sample composition .	0.05000
VARIMAX Cutoff used	0.01000

Maximum Value Row Index Matrix

Iteration	Factor 1	2	3	4	5	6
0	8	3	1	5	4	6
1	8	3	1	5	4	6

Varimax Coordinates of Extreme Raw Samples

	COMM.	EM 1	EM 2	EM 3	EM 4	EM 5
8 7-WS-2	0.9918	0.9625	0.0943	0.0919	0.1546	0.1225
3 2-WS-6	0.9661	0.0121	0.9219	0.2546	0.2171	0.0614
1 1-WS-5	0.9972	0.1175	0.2243	0.9525	0.1089	0.1176
5 4-WS-5	0.9928	0.5519	0.3448	0.1607	0.7145	0.1681
4 3-WS-3	0.9891	0.4067	0.5114	0.3025	0.1945	0.6547
6 5-WS-4	0.9981	0.8208	0.2167	0.1277	0.2240	0.1595

Varimax Coordinates of Extreme Raw Samples

	COMM.	EM 6
8 7-WS-2	0.9918	-0.0954
3 2-WS-6	0.9661	0.0194
1 1-WS-5	0.9972	0.0127
5 4-WS-5	0.9928	0.0690
4 3-WS-3	0.9891	0.0654
6 5-WS-4	0.9981	0.4306

White Sucker Carcass - 6 EMs

********** INITIALIZATION **********

Compositions of End Members

	EM 1	EM 2	EM 3	EM 4	EM 5
1 PCB_1	0.0053	0.0067	0.0022	0.0058	0.0215
2 PCB_2	-0.0000	-0.0000	0.0000	0.0000	0.0001
3 PCB_3	-0.0000	0.0002	0.0000	0.0002	0.0008
4 PCB_4	0.3112	0.0739	0.0393	0.1468	0.3755
5 PCB_5	0.0008	0.0004	-0.0000	0.0005	0.0023
6 PCB_6	0.0401	0.0097	0.0103	0.0193	0.0593
7 PCB_7	0.0051	0.0016	0.0014	0.0024	0.0083
8 PCB_8	0.0785	0.0630	0.0125	0.0281	0.1838
9 PCB_9	0.0090	0.0028	0.0017	0.0039	0.0143
10 PCB_10	0.0285	0.0049	0.0036	0.0145	0.0331
11 PCB_11	0.0003	0.0052	-0.0009	-0.0017	0.0015
12 PCB_12_13	0.0103	0.0013	0.0002	0.0054	0.0052
13 PCB_14	-0.0000	-0.0000	0.0000	0.0000	-0.0000
14 PCB_15	0.0036	0.0021	0.0006	0.0041	0.0161
15 PCB_16	0.1561	0.0205	0.0625	0.0614	0.1394
16 PCB_17	0.9983	0.1606	0.1037	0.4812	0.6109
17 PCB_18_30	0.5094	0.0157	0.1445	0.1912	0.3352
18 PCB_19	0.5314	0.0899	0.0536	0.2223	0.3934
19 PCB_20_28	1.0787	0.2410	0.5579	0.6346	0.9598
20 PCB_21_33	0.1055	0.0169	0.0640	0.0428	0.1071
21 PCB_22	0.1386	0.0082	0.0884	0.0700	0.1549
22 PCB_23	0.0007	0.0001	0.0000	0.0005	0.0006
23 PCB_24	0.0001	0.0003	0.0036	-0.0001	0.0002
24 PCB_25	0.2315	0.0265	0.0587	0.1067	0.1306
25 PCB_26_29	0.8902	0.0019	0.1794	0.3981	0.2661

26	PCB_27	1.0915	0.0908	0.0521	0.5186	0.4559
27	PCB_31	0.3718	0.0318	0.2037	0.1406	0.3460
28	PCB_32	0.7285	0.0942	0.1875	0.3620	0.4839
29	PCB_34	0.0141	0.0025	0.0028	0.0082	0.0089
30	PCB_35	-0.0000	-0.0000	0.0000	0.0000	-0.0000
31	PCB_36	0.0188	0.0173	-0.0039	0.1144	0.0173
32	PCB_37	0.0254	0.0041	0.0224	0.0175	0.0388
33	PCB_38	0.0041	-0.0004	0.0013	0.0035	0.0011
34	PCB_39	0.0031	0.0012	0.0030	0.0021	0.0031
35	PCB_40_41_71	1.6240	0.3930	0.7071	1.1759	0.8248
36	PCB_42	0.8373	0.1904	0.3974	0.5805	0.5522
37	PCB_43	0.0679	0.0150	0.0278	0.1323	0.0887
38	PCB_44_47_65	5.3451	1.9754	1.6716	3.8813	2.8529
39	PCB_45_51	1.2433	0.2056	0.3248	0.6839	0.5581
40	PCB_46	0.3445	0.0232	0.0996	0.1525	0.1118
41	PCB_48	0.1355	0.0523	0.1204	0.0767	0.1149
42	PCB_49_69	5.7598	1.2588	1.3150	4.3065	2.4280
43	PCB_50_53	1.8228	0.0940	0.3499	0.9191	0.5158
44	PCB_52	4.0318	1.1637	1.3294	1.7658	1.4321
45	PCB_54	0.0845	0.0097	0.0050	0.0333	0.0353
46	PCB_55	-0.0000	-0.0000	0.0000	0.0000	-0.0000
47	PCB_56	0.2346	0.2146	0.2973	0.1633	0.2644
48	PCB_57	0.0510	0.0111	0.0148	0.0525	0.0254
49	PCB_58	0.0291	0.0059	0.0100	0.0267	0.0102
50	PCB_59_62_75	0.4866	0.0276	0.1670	0.3417	0.1447
51	PCB_60	0.1217	0.1197	0.1899	0.0997	0.1707

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4	EM 5
52	PCB_61_70_74_76	2.0484	2.8658	1.6950	1.2809	1.9334
53	PCB_63	0.0992	0.0604	0.0548	0.0966	0.0962
54	PCB_64	1.0024	0.3079	0.6611	0.7310	0.7685
55	PCB_66	1.7363	1.4565	1.2267	1.6118	1.6120
56	PCB_67	0.0357	0.0070	0.0163	0.0228	0.0244
57	PCB_68	0.1667	0.0639	0.0230	0.1812	0.0966
58	PCB_72	0.2280	0.0386	0.0406	0.2286	0.0960
59	PCB_73	0.0052	0.0187	0.0072	-0.0111	0.0132
60	PCB_77	0.0450	0.0200	0.0665	0.0343	0.0502
61	PCB_78	-0.0001	0.0001	-0.0001	0.0021	0.0000
62	PCB_79	0.0347	0.0579	0.0383	0.0367	0.0428
63	PCB_80	-0.0000	-0.0000	0.0000	0.0000	-0.0000
64	PCB_81	0.0036	0.0030	0.0065	0.0038	0.0027
65	PCB_82	0.5102	0.6248	0.5089	0.4875	0.6418
66	PCB_83	0.3726	0.2120	0.2540	0.3022	0.2631
67	PCB_84	1.6051	1.0291	1.1086	1.0403	1.0881
68	PCB_85_117_116	1.1397	1.5236	1.1466	1.3694	1.4361
69	Coplanar1	4.1898	5.6228	3.3095	4.3238	3.9605
70	PCB_88_91	1.3984	0.8459	1.0871	1.3266	1.2342
71	PCB_89	0.0349	0.0324	0.0587	0.0262	0.0352
72	PCB_90_101_113	5.5308	7.1142	5.5584	5.9843	5.2213
73	PCB_92	1.6562	0.9333	1.0999	1.5125	1.3785
74	Coplanar2	0.4037	0.2230	0.2388	0.3603	0.3716
75	PCB_94	0.0956	0.0333	0.0288	0.0679	0.0691
76	PCB_95	5.0526	2.9656	3.8130	3.4664	2.4013
77	PCB_96	0.0828	0.0167	0.0325	0.0559	0.0347
78	PCB_99	3.8816	4.4515	3.2861	5.0008	3.2712
79	PCB_103	0.1301	0.0337	0.0476	0.1228	0.0815
80	PCB_104	0.0052	0.0016	-0.0001	0.0041	0.0024
81	PCB_105	1.3940	2.7714	1.2832	1.5949	2.2532
82	PCB_106	-0.0000	-0.0000	0.0000	0.0000	-0.0000
83	PCB_107_124	0.1475	0.2713	0.1686	0.1674	0.2403
84	PCB_109	0.4276	0.5221	0.2963	0.5826	0.5519
85	PCB_110_115	7.3792	9.1762	8.5753	8.3686	6.4744
86	PCB_111	0.0119	0.0029	0.0040	0.0214	0.0085
87	PCB_112	-0.0000	-0.0000	0.0000	0.0000	-0.0000
88	PCB_114	0.0790	0.2179	0.0666	0.1002	0.2089
89	PCB_118	4.5220	5.6700	3.6328	5.6686	3.7125
90	PCB_120	0.0427	0.0097	0.0172	0.0682	0.0277

91	PCB_121	0.0050	0.0014	0.0015	0.0070	0.0027
92	PCB_122	0.0387	0.0667	0.0458	0.0403	0.0567
93	PCB_123	0.0923	0.1363	0.0833	0.1332	0.2242
94	PCB_126	0.0065	0.0059	0.0155	0.0071	0.0259
95	PCB_127	0.0078	0.0131	0.0117	0.0128	0.0132
96	PCB_128_166	0.9193	1.8687	1.1349	1.3720	1.7024
97	PCB_129_138_163	5.0728	10.8948	9.2218	7.8449	10.8433
98	PCB_130	0.3652	0.6061	0.4532	0.4999	0.6600
99	PCB_131	0.0673	0.1449	0.0991	0.1004	0.1316
100	PCB_132	1.5442	2.5392	2.1528	1.6571	0.9211
101	PCB_133	0.0934	0.1072	0.1193	0.1555	0.1392
102	PCB_134_143	0.2760	0.3315	0.3039	0.3137	0.3306

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4	EM 5
103	PCB_135_151	1.5509	1.3153	2.4943	1.7443	2.0724
104	PCB_136	0.5927	0.5619	0.6640	0.6016	0.6094
105	PCB_137	0.3817	0.7839	0.4852	0.6282	0.8166
106	PCB_139_140	0.1239	0.2096	0.1538	0.1979	0.2590
107	PCB_141	0.5079	1.1989	1.2919	0.8099	0.9741
108	PCB_142	0.0000	0.0001	0.0013	-0.0000	0.0001
109	PCB_144	0.1864	0.2865	0.3636	0.2634	0.3666
110	PCB_145	0.0022	0.0029	0.0026	0.0025	0.0033
111	PCB_146	0.7362	1.1610	1.3530	1.2607	1.4023
112	PCB_147_149	3.4264	4.5780	6.5805	4.2610	4.9913
113	PCB_148	0.0075	0.0063	0.0071	0.0109	0.0100
114	PCB_150	0.0087	0.0080	0.0076	0.0110	0.0099
115	PCB_152	0.0073	0.0065	0.0053	0.0078	0.0073
116	PCB_153_168	3.6805	7.3302	7.3946	6.0359	7.6554
117	PCB_154	0.0637	0.0602	0.0614	0.0920	0.0940
118	PCB_155	0.0003	0.0003	-0.0000	0.0005	0.0003
119	PCB_156_57	0.5011	1.4033	0.6202	0.8255	1.3601
120	PCB_158	0.5660	1.1798	0.8187	0.9551	1.1569
121	PCB_159	0.0010	0.0012	0.0027	0.0005	0.0044
122	PCB_160	-0.0000	-0.0000	0.0000	0.0000	-0.0000
123	PCB_161	-0.0000	-0.0000	0.0000	0.0000	-0.0000
124	PCB_162	0.0168	0.0289	0.0421	0.0465	0.0355
125	PCB_164	0.2631	0.4970	0.5375	0.4348	0.5875
126	PCB_165	0.0054	0.0020	0.0032	0.0112	0.0031
127	PCB_167	0.1513	0.4373	0.2792	0.2997	0.3989
128	PCB_169	0.0008	0.0008	0.0036	0.0006	0.0011
129	PCB_170	0.3778	0.9754	1.0992	0.6247	0.9072
130	PCB_171_173	0.1633	0.3100	0.4441	0.2703	0.3436
131	PCB_172	0.0656	0.1329	0.2629	0.1097	0.1593
132	PCB_174	0.2994	0.4135	1.1013	0.3410	0.4770
133	PCB_175	0.0200	0.0314	0.0666	0.0294	0.0397
134	PCB_176	0.0572	0.0777	0.1824	0.0788	0.1016
135	PCB_177	0.2458	0.3476	0.8186	0.3340	0.4400
136	PCB_178	0.0969	0.1097	0.3731	0.1229	0.1470
137	PCB_179	0.1491	0.1542	0.5401	0.1670	0.2112
138	PCB_180_193	0.6529	1.5115	2.7935	0.9244	1.2116
139	PCB_181	0.0095	0.0238	0.0164	0.0177	0.0251
140	PCB_182	0.0032	0.0063	0.0081	0.0047	0.0067
141	PCB_183_185	0.3228	0.5369	1.2243	0.5384	0.6497
142	PCB_184	0.0006	0.0008	0.0018	0.0008	0.0010
143	PCB_186	0.0003	0.0004	0.0000	0.0004	0.0004
144	PCB_187	0.6891	0.8257	3.6676	0.9793	1.4943
145	PCB_188	0.0008	0.0009	0.0022	0.0009	0.0011
146	PCB_189	0.0146	0.0421	0.0393	0.0311	0.0469
147	PCB_190	0.0486	0.1074	0.1927	0.0651	0.0842
148	PCB_191	0.0164	0.0370	0.0549	0.0289	0.0415
149	PCB_192	0.0001	0.0000	0.0000	0.0001	0.0000
150	PCB_194	0.0516	0.1264	0.2759	0.0859	0.1346
151	PCB_195	0.0318	0.0592	0.1484	0.0486	0.0727
152	PCB_196	0.0454	0.0760	0.1962	0.0584	0.0853
153	PCB_197_200	0.0174	0.0196	0.0795	0.0186	0.0261

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4	EM 5
154	PCB_198_199	0.0698	0.1276	0.4226	0.0694	0.1369
155	PCB_201	0.0154	0.0182	0.0754	0.0182	0.0251
156	PCB_202	0.0186	0.0211	0.1076	0.0165	0.0257
157	PCB_203	0.0711	0.1104	0.3571	0.0925	0.1558
158	PCB_204	0.0001	0.0001	0.0000	0.0001	0.0001
159	PCB_205	0.0041	0.0072	0.0193	0.0063	0.0093
160	PCB_206	0.0307	0.0341	0.1408	0.0222	0.0377
161	PCB_207	0.0039	0.0047	0.0186	0.0030	0.0049
162	PCB_208	0.0110	0.0086	0.0497	0.0045	0.0095
163	PCB_209	0.0171	0.0064	0.0621	0.0024	0.0079

White Sucker Carcass - 6 EMs

********** INITIALIZATION **********

Compositions of End Members

		EM 6
1	PCB_1	0.0105
2	PCB_2	0.0001
3	PCB_3	0.0003
4	PCB_4	0.2413
5	PCB_5	0.0009
6	PCB_6	0.0328
7	PCB_7	0.0041
8	PCB_8	0.0736
9	PCB_9	0.0068
10	PCB_10	0.0218
11	PCB_11	0.0012
12	PCB_12_13	0.0082
13	PCB_14	0.0000
14	PCB_15	0.0091
15	PCB_16	0.1114
16	PCB_17	0.6213
17	PCB_18_30	0.3698
18	PCB_19	0.3079
19	PCB_20_28	0.9437
20	PCB_21_33	0.0867
21	PCB_22	0.1263
22	PCB_23	0.0007
23	PCB_24	0.0001
24	PCB_25	0.2132
25	PCB_26_29	0.6663
26	PCB_27	0.8125
27	PCB_31	0.4110
28	PCB_32	0.5085
29	PCB_34	0.0110
30	PCB_35	0.0000
31	PCB_36	0.0033
32	PCB_37	0.0290
33	PCB_38	0.0045
34	PCB_39	0.0028
35	PCB_40_41_71	1.3181
36	PCB_42	0.7820
37	PCB_43	0.1650
38	PCB_44_47_65	4.6040
39	PCB_45_51	0.9083
40	PCB_46	0.2503
41	PCB_48	0.1159
42	PCB_49_69	4.3087
43	PCB_50_53	1.4558
44	PCB_52	3.0496
45	PCB_54	0.0501
46	PCB_55	0.0000
47	PCB_56	0.2676
48	PCB_57	0.0492

```
  49 PCB_58               0.0280
  50 PCB_59_62_75         0.5073
  51 PCB_60               0.1251
****************************** INITIALIZATION ****************************

                    Compositions of End Members

                          EM 6

  52 PCB_61_70_74_76      2.1212
  53 PCB_63               0.1043
  54 PCB_64               0.9563
  55 PCB_66               1.7977
  56 PCB_67               0.0417
  57 PCB_68               0.1720
  58 PCB_72               0.2287
  59 PCB_73               0.0067
  60 PCB_77               0.0504
  61 PCB_78               0.0008
  62 PCB_79               0.0402
  63 PCB_80               0.0000
  64 PCB_81               0.0037
  65 PCB_82               0.5726
  66 PCB_83               0.5024
  67 PCB_84               1.6398
  68 PCB_85_117_116       1.3061
  69 Coplanar1            4.5703
  70 PCB_88_91            1.5466
  71 PCB_89               0.0355
  72 PCB_90_101_113       5.6604
  73 PCB_92               1.7534
  74 Coplanar2            0.4582
  75 PCB_94               0.1027
  76 PCB_95               4.6043
  77 PCB_96               0.0770
  78 PCB_99               3.8373
  79 PCB_103              0.1462
  80 PCB_104              0.0044
  81 PCB_105              1.7265
  82 PCB_106              0.0000
  83 PCB_107_124          0.1866
  84 PCB_109              0.5437
  85 PCB_110_115          8.3422
  86 PCB_111              0.0156
  87 PCB_112              0.0000
  88 PCB_114              0.1079
  89 PCB_118              4.2865
  90 PCB_120              0.0459
  91 PCB_121              0.0059
  92 PCB_122              0.0492
  93 PCB_123              0.0878
  94 PCB_126              0.0091
  95 PCB_127              0.0089
  96 PCB_128_166          1.0950
  97 PCB_129_138_163      6.2193
  98 PCB_130              0.4401
  99 PCB_131              0.0891
 100 PCB_132              1.7625
 101 PCB_133              0.1139
 102 PCB_134_143          0.3334
****************************** INITIALIZATION ****************************

                    Compositions of End Members

                          EM 6

 103 PCB_135_151          1.8016
 104 PCB_136              0.7047
 105 PCB_137              0.4289
 106 PCB_139_140          0.1588
 107 PCB_141              0.6319
```

108	PCB_142	0.0001
109	PCB_144	0.2378
110	PCB_145	0.0028
111	PCB_146	0.8585
112	PCB_147_149	3.9678
113	PCB_148	0.0098
114	PCB_150	0.0112
115	PCB_152	0.0085
116	PCB_153_168	4.0739
117	PCB_154	0.0850
118	PCB_155	0.0004
119	PCB_156_57	0.6840
120	PCB_158	0.7336
121	PCB_159	0.0014
122	PCB_160	0.0000
123	PCB_161	0.0000
124	PCB_162	0.0326
125	PCB_164	0.3578
126	PCB_165	0.0067
127	PCB_167	0.1903
128	PCB_169	0.0008
129	PCB_170	0.3980
130	PCB_171_173	0.1795
131	PCB_172	0.0633
132	PCB_174	0.2953
133	PCB_175	0.0211
134	PCB_176	0.0646
135	PCB_177	0.2752
136	PCB_178	0.1004
137	PCB_179	0.1564
138	PCB_180_193	0.5802
139	PCB_181	0.0119
140	PCB_182	0.0037
141	PCB_183_185	0.3473
142	PCB_184	0.0006
143	PCB_186	0.0003
144	PCB_187	0.6680
145	PCB_188	0.0008
146	PCB_189	0.0178
147	PCB_190	0.0451
148	PCB_191	0.0178
149	PCB_192	0.0000
150	PCB_194	0.0490
151	PCB_195	0.0331
152	PCB_196	0.0399
153	PCB_197_200	0.0151

********** INITIALIZATION **********

Compositions of End Members

EM 6

154	PCB_198_199	0.0626
155	PCB_201	0.0141
156	PCB_202	0.0160
157	PCB_203	0.0656
158	PCB_204	0.0001
159	PCB_205	0.0037
160	PCB_206	0.0171
161	PCB_207	0.0025
162	PCB_208	0.0048
163	PCB_209	0.0042

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4	EM 5
1	1-WS-5	-0.0000	0.0000	1.0000	-0.0000	0.0000
2	2-WS-2	0.2085	0.7946	-0.1952	-0.2663	0.3106
3	2-WS-6	-0.0000	1.0000	-0.0000	0.0000	-0.0000
4	3-WS-3	-0.0000	0.0000	-0.0000	0.0000	1.0000

5	4-WS-5	-0.0000	-0.0000	-0.0000	1.0000	0.0000
6	5-WS-4	-0.0000	-0.0000	-0.0000	-0.0000	0.0000
7	6-WS-2	0.2811	0.3226	-0.0354	0.2361	0.1710
8	7-WS-2	1.0000	-0.0000	-0.0000	0.0000	0.0000

MIXING PROPORTIONS

	Sample	EM 6
1	1-WS-5	0.0000
2	2-WS-2	0.1478
3	2-WS-6	0.0000
4	3-WS-3	0.0000
5	4-WS-5	0.0000
6	5-WS-4	1.0000
7	6-WS-2	0.0247
8	7-WS-2	-0.0000

****
The DENEG Procedure no longer needs to continue as none of the
End-Member Compositions were less than -0.0500
****
NORMAL END OF JOB

07/13/09 15:04:12
White Sucker - Fillet

Number of Variables 153
Number of Samples 8
Cum sums sqrs 100.0
Data transformation option 2
Print Option . . . . . minimal
Proportion to constant sum of 100 option . . Y
Manually defined range. . . . . no

The data will be proportioned to a constant sum of 100.
White Sucker - Fillet

The following are the input vectors

	1	2	3	4	5	6	7
1-WS-5	4.70	0.00	0.00	70.30	0.00	16.30	2.53
2-WS-2	1570.00	4.61	41.60	26300.00	122.00	3750.00	571.00
2-WS-6	567.00	0.00	28.50	8320.00	25.10	946.00	177.00
3-WS-3	1540.00	4.40	48.60	28600.00	99.20	4260.00	583.00
4-WS-5	157.00	0.00	5.88	3280.00	0.00	398.00	55.80
5-WS-4	269.00	1.95	9.91	6590.00	16.60	853.00	105.00
6-WS-2	269.00	0.00	6.96	7680.00	12.20	1220.00	154.00
7-WS-2	85.90	0.89	1.64	5680.00	0.00	808.00	103.00

White Sucker - Fillet

The following are the input vectors

	8	9	10	11	12	13	14
1-WS-5	41.10	3.95	6.57	0.00	0.00	0.00	7.93
2-WS-2	15400.00	1030.00	2520.00	971.00	384.00	0.00	658.00
2-WS-6	4180.00	246.00	844.00	0.00	164.00	0.00	414.00
3-WS-3	11700.00	1020.00	3000.00	912.00	362.00	0.00	1140.00
4-WS-5	801.00	82.40	351.00	0.00	92.10	119.00	92.00
5-WS-4	1630.00	175.00	748.00	345.00	179.00	279.00	220.00
6-WS-2	2740.00	318.00	810.00	623.00	210.00	0.00	131.00
7-WS-2	1410.00	191.00	641.00	442.00	171.00	0.00	160.00

White Sucker - Fillet

The following are the input vectors

	15	16	17	18	19	20	21
1-WS-5	90.00	187.00	217.00	86.50	616.00	79.30	107.00
2-WS-2	9190.00	54400.00	22200.00	31900.00	51400.00	3550.00	4310.00
2-WS-6	2380.00	14200.00	5220.00	9690.00	16200.00	1610.00	1670.00
3-WS-3	10800.00	46700.00	28600.00	30700.00	76400.00	7690.00	13200.00
4-WS-5	1340.00	10100.00	4450.00	4380.00	12500.00	839.00	1370.00
5-WS-4	3180.00	18800.00	11300.00	9200.00	23700.00	1920.00	3360.00
6-WS-2	3110.00	24900.00	8190.00	14200.00	27500.00	2170.00	3140.00
7-WS-2	2800.00	20300.00	11600.00	10300.00	20200.00	1870.00	2730.00

White Sucker - Fillet

The following are the input vectors

	22	23	24	25	26	27	28
1-WS-5	0.00	67.50	195.00	83.30	234.00	219.00	3.43
2-WS-2	0.00	9790.00	16800.00	46700.00	13700.00	30000.00	701.00
2-WS-6	0.00	3490.00	4840.00	13800.00	5740.00	9260.00	221.00
3-WS-3	77.30	10400.00	23000.00	38900.00	28400.00	38500.00	660.00
4-WS-5	10.20	2240.00	7740.00	11900.00	2390.00	7650.00	163.00
5-WS-4	21.60	5030.00	16000.00	26300.00	10200.00	14100.00	275.00
6-WS-2	19.10	4190.00	13600.00	24600.00	7970.00	18200.00	370.00
7-WS-2	27.10	3910.00	16400.00	24600.00	7220.00	15200.00	277.00

White Sucker - Fillet

The following are the input vectors

	29	30	31	32	33	34	35
1-WS-5	0.00	0.00	0.00	3.21	1010.00	559.00	45.50
2-WS-2	0.00	1660.00	110.00	193.00	99700.00	57500.00	3350.00

2-WS-6	22.90	841.00	50.20	111.00	41400.00	20600.00	1190.00
3-WS-3	0.00	3220.00	0.00	213.00	71600.00	49100.00	3070.00
4-WS-5	0.00	391.00	68.70	38.00	31500.00	15300.00	1270.00
5-WS-4	0.00	744.00	90.60	51.30	45100.00	27400.00	4730.00
6-WS-2	32.10	475.00	76.60	74.30	41500.00	20800.00	1750.00
7-WS-2	0.00	472.00	57.80	40.50	37100.00	19800.00	0.00

White Sucker - Fillet

The following are the input vectors

	36	37	38	39	40	41	42
1-WS-5	2600.00	514.00	148.00	164.00	1980.00	499.00	2130.00
2-WS-2	461000.00	72100.00	13500.00	10700.00	352000.00	70800.00	255000.00
2-WS-6	186000.00	23200.00	4340.00	5070.00	122000.00	21500.00	171000.00
3-WS-3	266000.00	47000.00	10800.00	10600.00	234000.00	49900.00	172000.00
4-WS-5	99000.00	17600.00	4090.00	1790.00	111000.00	24000.00	54300.00
5-WS-4	159000.00	30300.00	8540.00	3850.00	182000.00	48500.00	104000.00
6-WS-2	147000.00	30800.00	6630.00	3280.00	137000.00	34800.00	66600.00
7-WS-2	119000.00	28900.00	8150.00	3080.00	138000.00	43100.00	100000.00

White Sucker - Fillet

The following are the input vectors

	43	44	45	46	47	48	49
1-WS-5	8.89	349.00	13.60	13.40	208.00	231.00	2000.00
2-WS-2	3940.00	27600.00	2860.00	1270.00	12800.00	15700.00	293000.00
2-WS-6	1120.00	18500.00	1880.00	781.00	4280.00	8900.00	226000.00
3-WS-3	2270.00	24300.00	2120.00	1470.00	14900.00	15100.00	184000.00
4-WS-5	614.00	3960.00	1570.00	623.00	8470.00	2440.00	30200.00
5-WS-4	1340.00	8550.00	1270.00	1020.00	17400.00	3960.00	65400.00
6-WS-2	1670.00	8730.00	1410.00	829.00	9130.00	4710.00	82300.00
7-WS-2	1530.00	4670.00	1080.00	732.00	12300.00	2620.00	41700.00

White Sucker - Fillet

The following are the input vectors

	50	51	52	53	54	55	56
1-WS-5	66.00	909.00	1410.00	18.70	36.50	51.20	81.90
2-WS-2	10200.00	67500.00	184000.00	1800.00	12100.00	9080.00	3370.00
2-WS-6	4550.00	34400.00	101000.00	737.00	5020.00	3420.00	1460.00
3-WS-3	8140.00	75200.00	151000.00	2070.00	7860.00	8090.00	3700.00
4-WS-5	2270.00	18900.00	41700.00	496.00	4490.00	5360.00	746.00
5-WS-4	3270.00	34200.00	57000.00	1290.00	5470.00	7140.00	1390.00
6-WS-2	3540.00	27100.00	65600.00	921.00	5470.00	5910.00	1120.00
7-WS-2	2100.00	24800.00	35400.00	710.00	3790.00	5400.00	865.00

White Sucker - Fillet

The following are the input vectors

	57	58	59	60	61	62	63
1-WS-5	30.20	95.00	20.80	653.00	251.00	1500.00	1290.00
2-WS-2	187.00	3550.00	423.00	110000.00	37700.00	199000.00	200000.00
2-WS-6	185.00	5010.00	409.00	81400.00	26900.00	133000.00	140000.00
3-WS-3	2210.00	6760.00	302.00	59600.00	28400.00	108000.00	121000.00
4-WS-5	0.00	1530.00	123.00	11200.00	7550.00	28000.00	29900.00
5-WS-4	41.40	934.00	118.00	16100.00	15900.00	53000.00	34700.00
6-WS-2	53.60	1790.00	202.00	22400.00	11000.00	47100.00	46200.00
7-WS-2	348.00	639.00	50.80	10200.00	8870.00	34800.00	17100.00

White Sucker - Fillet

The following are the input vectors

	64	65	66	67	68	69	70
1-WS-5	4150.00	1340.00	68.60	6580.00	1340.00	305.00	40.10
2-WS-2	778000.00	151000.00	5150.00	1010000.00	180000.00	49700.00	10400.00
2-WS-6	564000.00	92700.00	3440.00	797000.00	113000.00	25300.00	3910.00
3-WS-3	388000.00	116000.00	3170.00	599000.00	133000.00	30900.00	5660.00
4-WS-5	108000.00	32200.00	705.00	156000.00	36900.00	8700.00	1650.00
5-WS-4	134000.00	46500.00	1100.00	200000.00	54000.00	14100.00	3240.00
6-WS-2	164000.00	46300.00	1210.00	221000.00	49700.00	13800.00	3050.00
7-WS-2	88200.00	31000.00	699.00	140000.00	37100.00	8930.00	2130.00

White Sucker - Fillet

The following are the input vectors

	71	72	73	74	75	76	77
1-WS-5	5070.00	44.80	4080.00	64.30	0.00	1710.00	200.00
2-WS-2	510000.00	5680.00	702000.00	10200.00	408.00	391000.00	39900.00
2-WS-6	332000.00	2360.00	478000.00	3850.00	140.00	332000.00	34800.00
3-WS-3	242000.00	3250.00	373000.00	6920.00	146.00	215000.00	21800.00
4-WS-5	95000.00	1470.00	128000.00	2860.00	83.90	35400.00	3320.00
5-WS-4	145000.00	2710.00	137000.00	4420.00	118.00	51500.00	4850.00
6-WS-2	141000.00	1900.00	147000.00	3790.00	143.00	81600.00	7950.00
7-WS-2	109000.00	2100.00	88300.00	3030.00	99.60	29700.00	2840.00

White Sucker - Fillet

The following are the input vectors

	78	79	80	81	82	83	84
1-WS-5	368.00	9570.00	3.70	97.20	4800.00	21.50	0.00
2-WS-2	75400.00	1240000.00	539.00	29100.00	1130000.00	1950.00	349.00
2-WS-6	54900.00	961000.00	402.00	22700.00	1020000.00	1250.00	141.00
3-WS-3	45800.00	707000.00	517.00	16500.00	576000.00	2270.00	235.00
4-WS-5	13400.00	215000.00	415.00	2100.00	132000.00	1460.00	162.00
5-WS-4	15700.00	291000.00	332.00	3130.00	154000.00	1230.00	169.00
6-WS-2	17800.00	315000.00	308.00	5290.00	278000.00	1190.00	141.00
7-WS-2	6600.00	176000.00	222.00	1710.00	112000.00	897.00	106.00

White Sucker - Fillet

The following are the input vectors

	85	86	87	88	89	90	91
1-WS-5	58.90	134.00	77.50	11.60	1600.00	11300.00	531.00
2-WS-2	10200.00	32600.00	7650.00	1680.00	226000.00	1320000.00	76600.00
2-WS-6	8120.00	25300.00	4390.00	2610.00	209000.00	1190000.00	67900.00
3-WS-3	4860.00	28300.00	1620.00	1410.00	126000.00	884000.00	48300.00
4-WS-5	828.00	3340.00	575.00	342.00	25700.00	175000.00	9030.00
5-WS-4	1560.00	3060.00	679.00	244.00	30500.00	211000.00	12300.00
6-WS-2	2110.00	8810.00	727.00	624.00	52500.00	301000.00	17800.00
7-WS-2	845.00	3670.00	387.00	220.00	19800.00	134000.00	8080.00

White Sucker - Fillet

The following are the input vectors

	92	93	94	95	96	97	98
1-WS-5	120.00	2660.00	143.00	333.00	2910.00	749.00	507.00
2-WS-2	17300.00	102000.00	14400.00	40200.00	190000.00	71900.00	87600.00
2-WS-6	16500.00	218000.00	10700.00	29000.00	130000.00	51300.00	75100.00
3-WS-3	11400.00	134000.00	10400.00	24300.00	172000.00	52900.00	61400.00
4-WS-5	2080.00	39700.00	3020.00	5140.00	38700.00	14000.00	10300.00
5-WS-4	2430.00	48700.00	3480.00	9870.00	57600.00	22800.00	13400.00
6-WS-2	4270.00	67600.00	4370.00	10900.00	57500.00	21600.00	19100.00
7-WS-2	1480.00	28200.00	2130.00	6160.00	33500.00	12400.00	7260.00

White Sucker - Fillet

The following are the input vectors

	99	100	101	102	103	104	105
1-WS-5	172.00	1300.00	441.00	3.38	1650.00	7350.00	9.16
2-WS-2	27300.00	118000.00	37700.00	411.00	131000.00	603000.00	1090.00
2-WS-6	22700.00	120000.00	31200.00	307.00	119000.00	483000.00	646.00
3-WS-3	20200.00	84200.00	29300.00	257.00	109000.00	413000.00	808.00
4-WS-5	3840.00	14900.00	5350.00	63.80	25800.00	95700.00	240.00
5-WS-4	4330.00	16600.00	7340.00	89.00	26600.00	108000.00	320.00
6-WS-2	7120.00	30600.00	9090.00	107.00	41100.00	139000.00	321.00
7-WS-2	2460.00	11100.00	976.00	42.20	17600.00	83900.00	154.00

White Sucker - Fillet

The following are the input vectors

	106	107	108	109	110	111	112
1-WS-5	8.56	6.37	8620.00	80.20	0.00	761.00	1010.00

2-WS-2	1110.00	987.00	830000.00	10100.00	29.80	178000.00	137000.00
2-WS-6	731.00	547.00	765000.00	6420.00	29.50	162000.00	130000.00
3-WS-3	793.00	533.00	623000.00	7240.00	23.00	112000.00	92700.00
4-WS-5	265.00	172.00	134000.00	1870.00	11.00	17400.00	17700.00
5-WS-4	345.00	262.00	141000.00	2360.00	13.20	19700.00	22000.00
6-WS-2	335.00	282.00	209000.00	2780.00	11.40	34700.00	33700.00
7-WS-2	173.00	144.00	96400.00	1360.00	4.78	11900.00	12700.00

White Sucker - Fillet

The following are the input vectors

	113	114	115	116	117	118	119
1-WS-5	47.40	71.60	718.00	3.12	326.00	3.58	1220.00
2-WS-2	126.00	3110.00	68200.00	291.00	52500.00	76.00	88400.00
2-WS-6	148.00	5310.00	71500.00	169.00	51200.00	54.00	80200.00
3-WS-3	1190.00	3810.00	47800.00	0.00	31800.00	79.90	56800.00
4-WS-5	26.00	377.00	9230.00	220.00	5780.00	27.90	10800.00
5-WS-4	32.70	810.00	11200.00	0.00	5520.00	18.90	7840.00
6-WS-2	28.50	519.00	18000.00	155.00	9990.00	47.00	19400.00
7-WS-2	13.90	542.00	6820.00	120.00	3790.00	22.60	6650.00

White Sucker - Fillet

The following are the input vectors

	120	121	122	123	124	125	126
1-WS-5	537.00	301.00	1390.00	82.40	230.00	1060.00	483.00
2-WS-2	31900.00	13200.00	39700.00	3460.00	8160.00	39400.00	11400.00
2-WS-6	27400.00	11300.00	34000.00	2680.00	6370.00	28800.00	7160.00
3-WS-3	23100.00	9930.00	33700.00	2780.00	7520.00	30000.00	9950.00
4-WS-5	4630.00	1880.00	6180.00	558.00	1620.00	5850.00	2590.00
5-WS-4	4970.00	1480.00	8640.00	656.00	2070.00	7640.00	3030.00
6-WS-2	8930.00	3160.00	12200.00	1030.00	2830.00	10800.00	3940.00
7-WS-2	3930.00	147.00	6980.00	466.00	1380.00	5910.00	2200.00

White Sucker - Fillet

The following are the input vectors

	127	128	129	130	131	132	133
1-WS-5	675.00	3070.00	21.80	0.00	1460.00	0.00	2.44
2-WS-2	15600.00	116000.00	3010.00	0.00	48400.00	106.00	52.70
2-WS-6	9820.00	98600.00	2450.00	766.00	40100.00	82.30	39.90
3-WS-3	15200.00	89700.00	1720.00	0.00	44900.00	68.20	28.30
4-WS-5	3600.00	20300.00	331.00	0.00	9460.00	17.10	6.93
5-WS-4	5010.00	12500.00	313.00	0.00	10200.00	18.90	9.19
6-WS-2	6230.00	30500.00	586.00	0.00	17900.00	23.50	13.60
7-WS-2	3420.00	403.00	231.00	0.00	8090.00	12.90	6.23

White Sucker - Fillet

The following are the input vectors

	134	135	136	137	138	139	140
1-WS-5	4700.00	3.12	46.80	180.00	61.30	2.44	232.00
2-WS-2	77500.00	121.00	4240.00	11100.00	3540.00	2.97	6520.00
2-WS-6	50300.00	80.10	4060.00	7840.00	3310.00	0.00	7300.00
3-WS-3	103000.00	69.90	3220.00	6860.00	2580.00	0.85	6900.00
4-WS-5	21400.00	19.10	604.00	1400.00	480.00	2.48	1360.00
5-WS-4	19300.00	21.10	516.00	733.00	432.00	0.89	810.00
6-WS-2	27600.00	28.30	999.00	1850.00	899.00	2.06	2480.00
7-WS-2	15000.00	14.50	393.00	639.00	0.86	11900.00	894.00

White Sucker - Fillet

The following are the input vectors

	141	142	143	144	145	146	147
1-WS-5	157.00	225.00	102.00	489.00	106.00	142.00	425.00
2-WS-2	3760.00	4870.00	1430.00	8300.00	1440.00	1810.00	7930.00
2-WS-6	3300.00	4040.00	929.00	5990.00	968.00	1120.00	6330.00
3-WS-3	4100.00	5160.00	1630.00	8180.00	1570.00	1510.00	9020.00
4-WS-5	817.00	1160.00	424.00	2030.00	385.00	400.00	1890.00
5-WS-4	620.00	722.00	389.00	987.00	405.00	393.00	1250.00
6-WS-2	1450.00	1740.00	614.00	2330.00	631.00	590.00	2570.00

7-WS-2	539.00	619.00	322.00	971.00	348.00	370.00	1050.00

White Sucker - Fillet

The following are the input vectors

	148	149	150	151	152	153
1-WS-5	2.44	23.80	183.00	22.40	69.20	105.00
2-WS-2	10.60	514.00	2990.00	381.00	807.00	701.00
2-WS-6	6.83	414.00	2380.00	325.00	558.00	330.00
3-WS-3	8.04	611.00	2290.00	281.00	524.00	391.00
4-WS-5	2.48	122.00	516.00	68.40	135.00	120.00
5-WS-4	2.32	100.00	401.00	57.80	107.00	85.00
6-WS-2	3.82	198.00	757.00	106.00	190.00	173.00
7-WS-2	2.06	97.20	718.00	86.30	252.00	385.00

White Sucker - Fillet

General Statistics for Untransformed data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.01	0.00	0.00	0.02
2	PCB_2	0.00	0.00	0.00	0.00
3	PCB_3	0.00	0.00	0.00	0.00
4	PCB_4	0.18	0.08	0.06	0.31
5	PCB_5	0.00	0.00	0.00	0.00
6	PCB_6	0.03	0.01	0.01	0.05
7	PCB_7	0.00	0.00	0.00	0.01
8	PCB_8	0.07	0.03	0.03	0.13
9	PCB_9	0.01	0.00	0.00	0.01
10	PCB_10	0.02	0.01	0.01	0.03
11	PCB_11	0.01	0.01	0.00	0.02
12	PCB_12_13	0.00	0.00	0.00	0.01
13	PCB_14	0.00	0.00	0.00	0.01
14	PCB_15	0.01	0.00	0.00	0.01
15	PCB_16	0.08	0.03	0.02	0.12
16	PCB_17	0.47	0.24	0.13	0.89
17	PCB_18_30	0.24	0.13	0.05	0.51
18	PCB_19	0.25	0.13	0.07	0.45
19	PCB_20_28	0.59	0.23	0.15	0.89
20	PCB_21_33	0.05	0.02	0.01	0.08
21	PCB_22	0.08	0.04	0.02	0.14
22	PCB_23	0.00	0.00	0.00	0.00
23	PCB_24	0.10	0.04	0.03	0.17
24	PCB_26_29	0.31	0.21	0.04	0.72
25	PCB_27	0.50	0.32	0.07	1.08
26	PCB_31	0.20	0.10	0.05	0.32
27	PCB_32	0.35	0.18	0.09	0.67
28	PCB_34	0.01	0.00	0.00	0.01
29	PCB_35	0.00	0.00	0.00	0.00
30	PCB_37	0.02	0.01	0.00	0.03
31	PCB_38	0.00	0.00	0.00	0.00
32	PCB_39	0.00	0.00	0.00	0.00
33	PCB_40_41_71	1.02	0.39	0.38	1.63
34	PCB_42	0.56	0.21	0.19	0.87
35	PCB_43	0.04	0.04	0.00	0.15
36	PCB_44_47_65	3.52	1.18	1.72	5.22
37	PCB_45_51	0.68	0.31	0.21	1.27
38	PCB_46	0.17	0.09	0.04	0.36
39	PCB_48	0.10	0.03	0.05	0.14
40	PCB_49_69	3.47	1.72	1.13	6.06
41	PCB_50_53	0.87	0.54	0.20	1.89
42	PCB_52	2.33	0.92	1.58	4.39
43	PCB_54	0.03	0.02	0.01	0.07
44	PCB_55	0.22	0.04	0.17	0.28
45	PCB_57	0.03	0.02	0.01	0.07
46	PCB_58	0.02	0.01	0.01	0.03
47	PCB_59_62_75	0.27	0.18	0.04	0.54
48	PCB_60	0.13	0.03	0.08	0.19
49	PCB_61_70_74_76	1.88	0.28	1.27	2.18
50	PCB_63	0.08	0.02	0.04	0.10
51	PCB_64	0.75	0.24	0.32	1.09

52	PCB_66	1.48	0.29	0.94	1.76
53	PCB_67	0.02	0.01	0.01	0.04
54	PCB_68	0.11	0.06	0.03	0.19
55	PCB_72	0.13	0.08	0.03	0.24
56	PCB_77	0.04	0.01	0.01	0.07
57	PCB_78	0.01	0.01	0.00	0.02
58	PCB_79	0.05	0.02	0.02	0.08
59	PCB_81	0.01	0.00	0.00	0.02
60	PCB_82	0.59	0.12	0.45	0.77
61	PCB_83	0.31	0.08	0.20	0.49
62	PCB_84	1.33	0.16	1.17	1.64
63	PCB_85_117_116	1.17	0.19	0.75	1.41
64	Coplanar1	4.40	0.64	3.38	5.47
65	PCB_88_91	1.21	0.18	0.86	1.44
66	PCB_89	0.04	0.01	0.03	0.06
67	PCB_90_101_113	6.39	0.61	5.37	7.38
68	PCB_92	1.38	0.22	1.05	1.67
69	Coplanar2	0.34	0.06	0.23	0.44
70	PCB_94	0.07	0.02	0.03	0.10
71	PCB_95	3.80	0.67	2.61	4.78
72	PCB_96	0.05	0.02	0.02	0.09
73	PCB_99	4.27	0.61	3.33	5.40
74	PCB_103	0.09	0.04	0.04	0.14
75	PCB_104	0.00	0.00	0.00	0.00
76	PCB_105	2.01	0.62	1.30	3.07
77	PCB_107_124	0.20	0.07	0.12	0.32
78	PCB_109	0.46	0.10	0.29	0.57
79	PCB_110_115	8.40	0.56	7.64	9.07
80	PCB_111	0.01	0.00	0.00	0.02
81	PCB_114	0.13	0.05	0.08	0.21
82	PCB_118	6.27	1.74	3.91	9.44
83	PCB_120	0.03	0.02	0.01	0.06
84	PCB_121	0.00	0.00	0.00	0.01
85	PCB_122	0.05	0.01	0.03	0.08
86	PCB_123	0.19	0.07	0.09	0.31
87	PCB_126	0.03	0.02	0.02	0.06
88	PCB_127	0.01	0.00	0.01	0.02
89	PCB_128_166	1.31	0.33	0.87	1.94
90	PCB_129_138_163	8.35	1.61	5.88	11.02
91	PCB_130	0.46	0.09	0.35	0.63
92	PCB_131	0.10	0.03	0.06	0.15
93	PCB_132	1.57	0.43	0.72	2.17
94	PCB_133	0.11	0.01	0.09	0.13
95	PCB_134_143	0.27	0.02	0.22	0.30
96	PCB_135_151	1.65	0.34	1.20	2.37
97	PCB_136	0.57	0.07	0.47	0.70
98	PCB_137	0.51	0.13	0.32	0.70
99	PCB_139_140	0.17	0.04	0.11	0.22
100	PCB_141	0.79	0.22	0.49	1.11
101	PCB_142	0.25	0.09	0.04	0.36
102	PCB_145	0.00	0.00	0.00	0.00
103	PCB_146	1.04	0.18	0.77	1.35
104	PCB_147_149	4.24	0.76	3.33	5.99
105	PCB_148	0.01	0.00	0.01	0.01
106	PCB_150	0.01	0.00	0.01	0.01
107	PCB_152	0.01	0.00	0.01	0.01
108	PCB_153_168	5.81	1.04	4.23	7.08
109	PCB_154	0.07	0.01	0.06	0.08
110	PCB_155	0.00	0.00	0.00	0.00
111	PCB_156_57	0.92	0.34	0.52	1.50
112	PCB_158	0.86	0.19	0.56	1.20
113	PCB_159	0.01	0.01	0.00	0.04
114	PCB_160	0.03	0.02	0.01	0.06
115	PCB_164	0.47	0.11	0.30	0.66
116	PCB_165	0.00	0.00	0.00	0.01
117	PCB_167	0.29	0.10	0.17	0.47
118	PCB_169	0.00	0.00	0.00	0.00
119	PCB_170	0.56	0.23	0.24	1.00
120	PCB_171_173	0.24	0.08	0.15	0.44
121	PCB_172	0.10	0.06	0.01	0.25
122	PCB_174	0.41	0.28	0.26	1.13

123	PCB_175	0.03	0.01	0.02	0.07
124	PCB_176	0.08	0.04	0.06	0.19
125	PCB_177	0.35	0.20	0.24	0.86
126	PCB_178	0.13	0.10	0.07	0.39
127	PCB_179	0.19	0.14	0.09	0.55
128	PCB_180_193	0.91	0.67	0.02	2.50
129	PCB_181	0.02	0.00	0.01	0.02
130	PCB_182	0.00	0.00	0.00	0.01
131	PCB_183_185	0.49	0.27	0.31	1.19
132	PCB_184	0.00	0.00	0.00	0.00
133	PCB_186	0.00	0.00	0.00	0.00
134	PCB_187	1.11	1.05	0.47	3.83
135	PCB_188	0.00	0.00	0.00	0.00
136	PCB_189	0.03	0.01	0.02	0.04
137	PCB_190	0.07	0.04	0.02	0.15
138	PCB_191	0.02	0.01	0.00	0.05
139	PCB_192	0.07	0.17	0.00	0.52
140	PCB_194	0.07	0.05	0.03	0.19
141	PCB_195	0.04	0.03	0.02	0.13
142	PCB_196	0.06	0.05	0.02	0.18
143	PCB_197_200	0.02	0.02	0.01	0.08
144	PCB_198_199	0.10	0.11	0.03	0.40
145	PCB_201	0.02	0.02	0.01	0.09
146	PCB_202	0.03	0.03	0.01	0.12
147	PCB_203	0.10	0.10	0.04	0.35
148	PCB_204	0.00	0.00	0.00	0.00
149	PCB_205	0.01	0.01	0.00	0.02
150	PCB_206	0.04	0.04	0.01	0.15
151	PCB_207	0.00	0.01	0.00	0.02
152	PCB_208	0.01	0.02	0.00	0.06
153	PCB_209	0.02	0.03	0.00	0.09

Variables transformed to interval of their range
White Sucker - Fillet

General Statistics for Transformed Data

Variable Number		Average	Standard Deviation	Minimum Value	Maximum Value
1	PCB_1	0.32	0.31	0.00	1.00
2	PCB_2	0.37	0.39	0.00	1.00
3	PCB_3	0.45	0.28	0.00	1.00
4	PCB_4	0.48	0.31	0.00	1.00
5	PCB_5	0.35	0.36	0.00	1.00
6	PCB_6	0.45	0.31	0.00	1.00
7	PCB_7	0.41	0.31	-0.00	1.00
8	PCB_8	0.35	0.35	-0.00	1.00
9	PCB_9	0.45	0.33	0.00	1.00
10	PCB_10	0.50	0.32	-0.00	1.00
11	PCB_11	0.41	0.37	0.00	1.00
12	PCB_12_13	0.51	0.30	0.00	1.00
13	PCB_14	0.20	0.36	0.00	1.00
14	PCB_15	0.29	0.31	-0.00	1.00
15	PCB_16	0.57	0.31	-0.00	1.00
16	PCB_17	0.44	0.31	-0.00	1.00
17	PCB_18_30	0.42	0.29	-0.00	1.00
18	PCB_19	0.47	0.33	0.00	1.00
19	PCB_20_28	0.60	0.32	0.00	1.00
20	PCB_21_33	0.56	0.35	-0.00	1.00
21	PCB_22	0.51	0.32	-0.00	1.00
22	PCB_23	0.38	0.35	0.00	1.00
23	PCB_24	0.49	0.32	-0.00	1.00
24	PCB_26_29	0.39	0.30	-0.00	1.00
25	PCB_27	0.43	0.32	0.00	1.00
26	PCB_31	0.55	0.38	-0.00	1.00
27	PCB_32	0.45	0.30	0.00	1.00
28	PCB_34	0.47	0.32	-0.00	1.00
29	PCB_35	0.16	0.33	0.00	1.00
30	PCB_37	0.46	0.28	0.00	1.00
31	PCB_38	0.50	0.41	0.00	1.00
32	PCB_39	0.47	0.30	0.00	1.00

33	PCB_40_41_71	0.51	0.31	-0.00	1.00
34	PCB_42	0.55	0.31	-0.00	1.00
35	PCB_43	0.30	0.29	0.00	1.00
36	PCB_44_47_65	0.51	0.34	-0.00	1.00
37	PCB_45_51	0.44	0.30	0.00	1.00
38	PCB_46	0.40	0.30	0.00	1.00
39	PCB_48	0.58	0.34	0.00	1.00
40	PCB_49_69	0.47	0.35	-0.00	1.00
41	PCB_50_53	0.40	0.32	-0.00	1.00
42	PCB_52	0.27	0.33	-0.00	1.00
43	PCB_54	0.40	0.30	-0.00	1.00
44	PCB_55	0.47	0.36	0.00	1.00
45	PCB_57	0.39	0.31	0.00	1.00
46	PCB_58	0.49	0.38	-0.00	1.00
47	PCB_59_62_75	0.45	0.36	0.00	1.00
48	PCB_60	0.41	0.30	-0.00	1.00
49	PCB_61_70_74_76	0.67	0.31	0.00	1.00
50	PCB_63	0.64	0.34	-0.00	1.00
51	PCB_64	0.56	0.32	0.00	1.00
52	PCB_66	0.66	0.36	0.00	1.00
53	PCB_67	0.45	0.30	-0.00	1.00
54	PCB_68	0.53	0.36	0.00	1.00
55	PCB_72	0.49	0.40	0.00	1.00
56	PCB_77	0.42	0.28	0.00	1.00
57	PCB_78	0.35	0.41	0.00	1.00
58	PCB_79	0.45	0.37	0.00	1.00
59	PCB_81	0.22	0.30	0.00	1.00
60	PCB_82	0.43	0.36	-0.00	1.00
61	PCB_83	0.38	0.29	0.00	1.00
62	PCB_84	0.34	0.35	-0.00	1.00
63	PCB_85_117_116	0.64	0.30	-0.00	1.00
64	Coplanar1	0.49	0.31	-0.00	1.00
65	PCB_88_91	0.60	0.31	0.00	1.00
66	PCB_89	0.22	0.30	-0.00	1.00
67	PCB_90_101_113	0.51	0.30	0.00	1.00
68	PCB_92	0.53	0.36	-0.00	1.00
69	Coplanar2	0.53	0.32	-0.00	1.00
70	PCB_94	0.53	0.34	0.00	1.00
71	PCB_95	0.55	0.31	-0.00	1.00
72	PCB_96	0.44	0.33	0.00	1.00
73	PCB_99	0.45	0.29	-0.00	1.00
74	PCB_103	0.55	0.35	-0.00	1.00
75	PCB_104	0.60	0.32	0.00	1.00
76	PCB_105	0.40	0.35	-0.00	1.00
77	PCB_107_124	0.40	0.34	-0.00	1.00
78	PCB_109	0.60	0.35	-0.00	1.00
79	PCB_110_115	0.53	0.39	-0.00	1.00
80	PCB_111	0.32	0.31	-0.00	1.00
81	PCB_114	0.44	0.39	-0.00	1.00
82	PCB_118	0.43	0.31	0.00	1.00
83	PCB_120	0.36	0.31	-0.00	1.00
84	PCB_121	0.49	0.30	0.00	1.00
85	PCB_122	0.45	0.34	-0.00	1.00
86	PCB_123	0.45	0.32	0.00	1.00
87	PCB_126	0.33	0.37	0.00	1.00
88	PCB_127	0.36	0.30	0.00	1.00
89	PCB_128_166	0.41	0.31	-0.00	1.00
90	PCB_129_138_163	0.48	0.31	-0.00	1.00
91	PCB_130	0.40	0.32	-0.00	1.00
92	PCB_131	0.45	0.31	0.00	1.00
93	PCB_132	0.59	0.30	0.00	1.00
94	PCB_133	0.46	0.30	-0.00	1.00
95	PCB_134_143	0.61	0.27	0.00	1.00
96	PCB_135_151	0.38	0.29	0.00	1.00
97	PCB_136	0.42	0.28	-0.00	1.00
98	PCB_137	0.50	0.34	-0.00	1.00
99	PCB_139_140	0.56	0.33	0.00	1.00
100	PCB_141	0.49	0.35	-0.00	1.00
101	PCB_142	0.64	0.28	0.00	1.00
102	PCB_145	0.79	0.30	0.00	1.00
103	PCB_146	0.47	0.31	0.00	1.00

104	PCB_147_149	0.34	0.29	-0.00	1.00
105	PCB_148	0.52	0.33	-0.00	1.00
106	PCB_150	0.40	0.35	0.00	1.00
107	PCB_152	0.48	0.34	-0.00	1.00
108	PCB_153_168	0.55	0.36	-0.00	1.00
109	PCB_154	0.54	0.37	0.00	1.00
110	PCB_155	0.57	0.28	0.00	1.00
111	PCB_156_57	0.41	0.34	-0.00	1.00
112	PCB_158	0.47	0.29	0.00	1.00
113	PCB_159	0.17	0.33	-0.00	1.00
114	PCB_160	0.39	0.34	-0.00	1.00
115	PCB_164	0.47	0.31	-0.00	1.00
116	PCB_165	0.33	0.31	0.00	1.00
117	PCB_167	0.39	0.32	-0.00	1.00
118	PCB_169	0.25	0.30	0.00	1.00
119	PCB_170	0.42	0.30	-0.00	1.00
120	PCB_171_173	0.31	0.29	-0.00	1.00
121	PCB_172	0.37	0.27	-0.00	1.00
122	PCB_174	0.17	0.32	0.00	1.00
123	PCB_175	0.20	0.31	0.00	1.00
124	PCB_176	0.19	0.31	-0.00	1.00
125	PCB_177	0.17	0.31	-0.00	1.00
126	PCB_178	0.20	0.31	0.00	1.00
127	PCB_179	0.22	0.30	-0.00	1.00
128	PCB_180_193	0.36	0.27	-0.00	1.00
129	PCB_181	0.50	0.34	0.00	1.00
130	PCB_182	0.13	0.33	0.00	1.00
131	PCB_183_185	0.20	0.31	0.00	1.00
132	PCB_184	0.78	0.31	0.00	1.00
133	PCB_186	0.15	0.32	0.00	1.00
134	PCB_187	0.19	0.31	-0.00	1.00
135	PCB_188	0.17	0.31	-0.00	1.00
136	PCB_189	0.55	0.36	0.00	1.00
137	PCB_190	0.35	0.29	0.00	1.00
138	PCB_191	0.48	0.27	-0.00	1.00
139	PCB_192	0.13	0.33	0.00	1.00
140	PCB_194	0.28	0.29	-0.00	1.00
141	PCB_195	0.22	0.30	0.00	1.00
142	PCB_196	0.21	0.30	-0.00	1.00
143	PCB_197_200	0.19	0.31	0.00	1.00
144	PCB_198_199	0.20	0.31	-0.00	1.00
145	PCB_201	0.18	0.31	0.00	1.00
146	PCB_202	0.16	0.32	-0.00	1.00
147	PCB_203	0.20	0.31	0.00	1.00
148	PCB_204	0.13	0.33	0.00	1.00
149	PCB_205	0.20	0.31	0.00	1.00
150	PCB_206	0.19	0.31	-0.00	1.00
151	PCB_207	0.18	0.31	0.00	1.00
152	PCB_208	0.17	0.32	0.00	1.00
153	PCB_209	0.16	0.32	0.00	1.00

White Sucker - Fillet

No.	Eigenvalue	Cum. Var
1	5.3562	66.95
2	1.2171	82.17
3	0.6855	90.73
4	0.3027	94.52
5	0.1648	96.58
6	0.1188	98.06
7	0.0834	99.11
8	0.0715	100.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4	5	6	7
Var 1 PCB_1	0.01	0.13	0.32	0.96	0.99	0.99
Var 2 PCB_2	0.27	0.30	0.55	0.63	0.90	1.00
Var 3 PCB_3	0.01	0.37	0.42	0.90	0.91	0.99
Var 4 PCB_4	0.34	0.43	0.75	0.99	1.00	1.00
Var 5 PCB_5	0.03	0.20	0.51	0.86	1.00	1.00

Var 6	PCB_6	0.25	0.27	0.71	0.96	0.97	1.00
Var 7	PCB_7	0.14	0.16	0.69	0.95	0.97	0.98
Var 8	PCB_8	-0.00	0.11	0.63	0.88	0.89	0.93
Var 9	PCB_9	0.15	0.18	0.70	0.90	0.91	0.99
Var 10	PCB_10	0.43	0.50	0.79	0.99	1.00	1.00
Var 11	PCB_11	0.48	0.50	0.81	0.84	0.85	0.98
Var 12	PCB_12_13	0.81	0.90	0.93	0.95	0.97	0.99
Var 13	PCB_14	0.21	0.22	0.54	0.59	0.83	0.91
Var 14	PCB_15	0.02	0.08	0.49	0.80	0.80	1.00
Var 15	PCB_16	0.50	0.58	0.88	1.00	1.00	1.00
Var 16	PCB_17	0.81	0.82	0.91	0.92	0.95	1.00
Var 17	PCB_18_30	0.77	0.80	0.97	0.98	0.98	1.00
Var 18	PCB_19	0.60	0.64	0.86	0.89	0.93	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 19	PCB_20_28	0.61	0.68	0.79	0.95	0.97	0.99
Var 20	PCB_21_33	0.29	0.57	0.83	0.95	0.98	0.98
Var 21	PCB_22	0.32	0.50	0.70	0.93	0.95	0.96
Var 22	PCB_23	0.71	0.71	0.83	0.87	0.96	0.99
Var 23	PCB_24	0.90	0.90	0.94	0.99	0.99	0.99
Var 24	PCB_26_29	0.92	0.93	0.95	0.98	1.00	1.00
Var 25	PCB_27	0.91	0.94	0.96	0.99	0.99	1.00
Var 26	PCB_31	0.45	0.54	0.79	0.91	0.91	0.92
Var 27	PCB_32	0.81	0.81	0.90	0.92	0.97	1.00
Var 28	PCB_34	0.83	0.84	0.88	0.90	0.94	1.00
Var 29	PCB_35	0.01	0.05	0.05	0.05	0.16	0.74
Var 30	PCB_37	0.28	0.39	0.51	0.88	0.89	0.99
Var 31	PCB_38	0.68	0.72	0.96	0.98	0.98	0.99
Var 32	PCB_39	-0.02	0.68	0.74	0.94	0.97	1.00
Var 33	PCB_40_41_71	0.92	0.95	0.98	0.99	1.00	1.00
Var 34	PCB_42	0.92	0.96	0.95	0.99	1.00	1.00
Var 35	PCB_43	0.10	0.10	0.21	0.34	0.74	0.73
Var 36	PCB_44_47_65	0.95	0.96	0.96	0.97	0.98	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 37	PCB_45_51	0.94	0.94	0.95	0.98	0.98	1.00
Var 38	PCB_46	0.90	0.93	0.95	1.00	1.00	1.00
Var 39	PCB_48	0.26	0.80	0.94	0.97	0.99	1.00
Var 40	PCB_49_69	0.96	0.96	0.98	1.00	1.00	1.00
Var 41	PCB_50_53	0.95	0.95	0.95	1.00	1.00	1.00
Var 42	PCB_52	0.77	0.77	0.81	0.92	0.92	0.99
Var 43	PCB_54	0.79	0.82	0.90	0.94	0.95	1.00
Var 44	PCB_55	-0.01	0.45	0.57	0.73	0.84	0.85
Var 45	PCB_57	0.57	0.60	0.89	0.90	0.99	0.99
Var 46	PCB_58	0.92	0.92	0.94	0.97	0.97	0.97
Var 47	PCB_59_62_75	0.88	0.91	0.93	0.96	0.97	0.99
Var 48	PCB_60	-0.01	0.69	0.80	0.98	0.99	1.00
Var 49	PCB_61_70_74_76	0.02	0.23	0.63	0.66	0.72	0.81
Var 50	PCB_63	0.73	0.75	0.71	0.96	0.96	1.00
Var 51	PCB_64	0.77	0.92	0.90	0.97	0.97	0.99
Var 52	PCB_66	0.59	0.60	0.57	0.93	0.93	0.99
Var 53	PCB_67	0.77	0.79	0.76	0.85	0.90	0.90
Var 54	PCB_68	0.77	0.83	0.95	0.98	0.99	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 55	PCB_72	0.88	0.89	0.98	0.99	1.00	1.00
Var 56	PCB_77	-0.00	0.91	0.91	0.96	1.00	1.00
Var 57	PCB_78	0.00	0.51	0.83	0.87	0.92	0.99
Var 58	PCB_79	0.15	0.45	0.49	0.78	0.97	0.99
Var 59	PCB_81	0.15	0.93	0.98	0.98	0.98	1.00
Var 60	PCB_82	0.56	0.84	0.94	0.95	0.98	0.99
Var 61	PCB_83	0.68	0.72	0.71	0.75	0.86	0.92

Var 62	PCB_84	0.39	0.40	0.43	0.61	0.99	1.00
Var 63	PCB_85_117_116	0.41	0.66	0.72	0.95	0.97	0.99
Var 64	Coplanar1	0.12	0.87	0.88	0.92	0.94	0.94
Var 65	PCB_88_91	0.81	0.83	0.81	0.99	1.00	1.00
Var 66	PCB_89	0.19	0.91	0.91	0.91	0.99	1.00
Var 67	PCB_90_101_113	0.07	0.81	0.79	0.83	0.83	0.94
Var 68	PCB_92	0.87	0.89	0.87	0.96	0.97	1.00
Var 69	Coplanar2	0.78	0.84	0.81	0.90	0.97	1.00
Var 70	PCB_94	0.78	0.87	0.86	0.90	0.95	1.00
Var 71	PCB_95	0.46	0.61	0.71	0.93	0.98	0.99
Var 72	PCB_96	0.92	0.93	0.94	0.98	1.00	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 73	PCB_99	-0.00	0.43	0.74	0.80	0.80	0.82
Var 74	PCB_103	0.93	0.93	0.96	0.99	1.00	1.00
Var 75	PCB_104	0.68	0.89	0.90	0.92	0.92	0.99
Var 76	PCB_105	0.44	0.92	0.98	0.99	0.99	1.00
Var 77	PCB_107_124	0.58	0.91	0.98	1.00	1.00	1.00
Var 78	PCB_109	0.05	0.60	0.76	0.98	1.00	1.00
Var 79	PCB_110_115	0.01	0.32	0.86	0.86	0.99	0.99
Var 80	PCB_111	0.45	0.47	0.87	0.93	0.99	1.00
Var 81	PCB_114	0.39	0.86	0.98	0.99	1.00	1.00
Var 82	PCB_118	0.27	0.91	0.90	0.95	0.97	1.00
Var 83	PCB_120	0.53	0.53	0.85	0.92	0.99	0.99
Var 84	PCB_121	0.63	0.74	0.93	0.99	1.00	1.00
Var 85	PCB_122	0.52	0.78	0.85	0.90	0.97	0.99
Var 86	PCB_123	0.13	0.41	0.73	0.83	0.98	1.00
Var 87	PCB_126	0.50	0.63	0.63	0.73	0.87	0.88
Var 88	PCB_127	0.35	0.64	0.62	0.64	0.92	0.93
Var 89	PCB_128_166	0.80	0.95	0.94	0.98	0.99	0.99
Var 90	PCB_129_138_163	0.92	0.95	0.96	0.98	0.99	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 91	PCB_130	0.68	0.91	0.97	0.99	0.99	0.99
Var 92	PCB_131	0.74	0.93	0.95	0.96	0.98	0.98
Var 93	PCB_132	0.13	0.34	0.48	0.47	0.59	0.61
Var 94	PCB_133	-0.03	0.08	0.47	0.92	0.95	0.99
Var 95	PCB_134_143	0.00	-0.00	0.23	0.32	0.69	0.79
Var 96	PCB_135_151	-0.03	0.81	0.80	0.96	0.98	0.99
Var 97	PCB_136	0.21	0.42	0.45	0.64	0.83	0.83
Var 98	PCB_137	0.53	0.84	0.92	0.99	0.99	0.99
Var 99	PCB_139_140	0.46	0.74	0.78	0.95	0.98	0.99
Var 100	PCB_141	0.92	0.94	0.95	0.96	0.99	0.98
Var 101	PCB_142	0.67	0.72	0.75	0.91	0.96	0.96
Var 102	PCB_145	0.48	0.51	0.61	0.76	0.88	0.93
Var 103	PCB_146	0.49	0.73	0.76	0.89	0.98	0.99
Var 104	PCB_147_149	0.48	0.93	0.93	0.95	0.95	0.96
Var 105	PCB_148	0.16	0.16	0.35	0.93	0.98	0.99
Var 106	PCB_150	0.29	0.32	0.63	0.96	0.98	0.98
Var 107	PCB_152	0.41	0.50	0.58	0.68	0.83	0.99
Var 108	PCB_153_168	0.86	0.88	0.88	0.94	0.99	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM		2	3	4	5	6	7
Var 109	PCB_154	0.01	0.02	0.06	0.95	0.96	1.00
Var 110	PCB_155	0.19	0.59	0.85	0.93	0.93	0.95
Var 111	PCB_156_57	0.50	0.91	0.97	0.99	1.00	1.00
Var 112	PCB_158	0.76	0.93	0.95	0.96	0.97	0.97
Var 113	PCB_159	0.16	0.96	0.98	0.99	1.00	1.00
Var 114	PCB_160	0.43	0.66	0.71	0.75	0.75	0.97
Var 115	PCB_164	0.94	0.94	0.93	0.95	0.96	0.96
Var 116	PCB_165	0.11	0.11	0.50	0.52	0.80	0.82
Var 117	PCB_167	0.74	0.94	0.94	0.97	0.99	1.00

Var 118 PCB_169	0.02	0.92	0.94	0.94	0.96	1.00
Var 119 PCB_170	0.78	0.96	0.96	0.98	0.99	0.99
Var 120 PCB_171_173	0.44	0.98	0.98	0.98	0.99	1.00
Var 121 PCB_172	0.52	0.96	0.97	0.99	0.99	1.00
Var 122 PCB_174	0.16	0.99	0.99	1.00	1.00	1.00
Var 123 PCB_175	0.22	0.99	0.99	0.99	0.99	1.00
Var 124 PCB_176	0.12	0.99	0.99	0.99	0.99	1.00
Var 125 PCB_177	0.17	0.99	0.99	0.99	0.99	1.00
Var 126 PCB_178	0.07	0.99	0.99	0.99	0.99	1.00

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4	5	6	7
Var 127 PCB_179	0.05	0.99	0.99	0.99	0.99	1.00
Var 128 PCB_180_193	0.45	0.95	0.97	0.99	0.99	1.00
Var 129 PCB_181	0.86	0.91	0.93	0.96	0.97	0.97
Var 130 PCB_182	0.32	0.50	0.46	0.70	0.74	0.89
Var 131 PCB_183_185	0.15	0.99	0.99	0.99	0.99	1.00
Var 132 PCB_184	0.00	0.93	0.93	0.97	0.99	1.00
Var 133 PCB_186	0.17	0.97	0.97	0.98	0.99	1.00
Var 134 PCB_187	0.10	0.99	0.99	1.00	1.00	1.00
Var 135 PCB_188	0.18	0.96	0.97	0.97	0.99	0.99
Var 136 PCB_189	0.87	0.90	0.91	0.95	0.99	1.00
Var 137 PCB_190	0.55	0.93	0.93	0.95	0.95	0.95
Var 138 PCB_191	0.71	0.93	0.95	0.98	0.98	0.99
Var 139 PCB_192	0.39	0.40	0.56	0.79	0.89	0.91
Var 140 PCB_194	0.29	0.98	0.98	0.98	1.00	1.00
Var 141 PCB_195	0.19	0.99	0.99	0.99	0.99	1.00
Var 142 PCB_196	0.19	0.98	0.99	0.99	0.99	1.00
Var 143 PCB_197_200	0.09	0.99	0.99	0.99	0.99	1.00
Var 144 PCB_198_199	0.17	0.98	0.99	0.99	0.99	0.99

White Sucker - Fillet

COEF. OF DETERMINATION (KMCD)

Number of EM	2	3	4	5	6	7
Var 145 PCB_201	0.09	0.99	0.99	0.99	0.99	1.00
Var 146 PCB_202	0.11	0.98	0.98	0.99	0.99	1.00
Var 147 PCB_203	0.17	0.99	0.99	1.00	1.00	1.00
Var 148 PCB_204	0.13	0.97	0.98	0.99	1.00	1.00
Var 149 PCB_205	0.13	0.99	0.99	0.99	1.00	1.00
Var 150 PCB_206	0.12	0.97	0.97	0.99	0.99	0.99
Var 151 PCB_207	0.13	0.97	0.97	0.99	0.99	0.99
Var 152 PCB_208	0.10	0.96	0.96	0.99	0.99	0.99
Var 153 PCB_209	0.07	0.96	0.95	0.98	0.99	0.99

White Sucker - Fillet

Number of tries in the Varimax Procedure = 5

Normalized Varimax Coordinates

	Comm.	1	2	3	4
1 1-WS-5	1.0000	0.0890	0.1405	0.5980	0.0646
2 2-WS-2	1.0000	0.1693	0.3469	0.0659	0.0840
3 2-WS-6	1.0000	0.0274	0.7150	0.1432	0.0929
4 3-WS-3	1.0000	0.2124	0.2176	0.1358	0.0766
5 4-WS-5	1.0000	0.2759	0.1489	0.0871	0.3620
6 5-WS-4	1.0000	0.3939	0.0918	0.0569	0.1616
7 6-WS-2	1.0000	0.2723	0.1982	0.0942	0.1329
8 7-WS-2	1.0000	0.7223	0.0471	0.0870	0.1050
	>= 0.1	6	6	3	4
	< 0.1	2	2	5	4

White Sucker - Fillet

Number of tries in the Varimax Procedure = 5

Normalized Varimax Coordinates

Comm.	5	6	7	8

1	1-WS-5	1.0000	0.0744	0.0110	0.0128	0.0098
2	2-WS-2	1.0000	0.1211	0.1525	0.0282	0.0321
3	2-WS-6	1.0000	0.0681	-0.0655	0.0076	0.0114
4	3-WS-3	1.0000	0.2962	0.0204	0.0215	0.0194
5	4-WS-5	1.0000	0.0655	0.0188	0.0239	0.0179
6	5-WS-4	1.0000	0.0824	0.0397	0.0151	0.1587
7	6-WS-2	1.0000	0.1171	0.0202	0.1499	0.0152
8	7-WS-2	1.0000	0.1078	0.0088	0.0038	-0.0818
		>= 0.1	4	1	1	1
		< 0.1	4	7	7	7

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White Sucker - Fillet
White Sucker Fillet

Number of Samples	8
Number of Variables	153
Number of End-Members in Model.	6
Starting Option used	1
Initial DENEG value	0.25000
Greatest allowed negative in END MEMBER Comp. . .	0.05000
Greatest allowed negative in sample composition .	0.05000
VARIMAX Cutoff used	0.01000

Maximum Value Row Index Matrix

Iteration	Factor 1	2	3	4	5	6
0	8	3	1	5	4	6
1	8	3	1	5	4	6

Varimax Coordinates of Extreme Raw Samples

	COMM.	EM 1	EM 2	EM 3	EM 4	EM 5
8 7-WS-2	0.9901	0.9651	0.0632	0.1156	0.1221	0.1416
3 2-WS-6	0.9841	0.0338	0.9581	0.1930	0.1308	0.0762
1 1-WS-5	0.9997	0.1441	0.2297	0.9492	0.1016	0.1198
5 4-WS-5	0.9917	0.5647	0.3069	0.1750	0.7281	0.1306
4 3-WS-3	0.9901	0.4684	0.4834	0.2978	0.1689	0.6467
6 5-WS-4	0.9771	0.8277	0.1972	0.1176	0.3596	0.1657

Varimax Coordinates of Extreme Raw Samples

	COMM.	EM 6
8 7-WS-2	0.9901	-0.0798
3 2-WS-6	0.9841	-0.0703
1 1-WS-5	0.9997	0.0224
5 4-WS-5	0.9917	0.0293
4 3-WS-3	0.9901	0.0404
6 5-WS-4	0.9771	0.2874

White Sucker Fillet

********** INITIALIZATION **********

Compositions of End Members

	EM 1	EM 2	EM 3	EM 4	EM 5
1 PCB_1	0.0031	0.0053	0.0038	0.0062	0.0166
2 PCB_2	0.0000	-0.0000	0.0000	-0.0000	0.0000
3 PCB_3	0.0001	0.0002	0.0000	0.0002	0.0005
4 PCB_4	0.2489	0.0821	0.0562	0.1342	0.3139
5 PCB_5	-0.0000	0.0003	-0.0000	-0.0000	0.0011
6 PCB_6	0.0363	0.0107	0.0129	0.0168	0.0483
7 PCB_7	0.0045	0.0019	0.0020	0.0022	0.0066
8 PCB_8	0.0561	0.0512	0.0311	0.0278	0.1356
9 PCB_9	0.0086	0.0032	0.0031	0.0035	0.0120
10 PCB_10	0.0284	0.0077	0.0054	0.0146	0.0325
11 PCB_11	0.0223	0.0018	-0.0003	0.0016	0.0126
12 PCB_12_13	0.0080	0.0016	-0.0000	0.0042	0.0042
13 PCB_14	0.0004	-0.0014	0.0003	0.0055	-0.0011
14 PCB_15	0.0064	0.0027	0.0067	0.0033	0.0111
15 PCB_16	0.1242	0.0228	0.0733	0.0553	0.1176
16 PCB_17	0.9338	0.1826	0.1434	0.4419	0.5616
17 PCB_18_30	0.5024	0.0366	0.1788	0.1724	0.2905
18 PCB_19	0.4817	0.1180	0.0656	0.1979	0.3680
19 PCB_20_28	0.9415	0.1501	0.5033	0.5584	0.8494
20 PCB_21_33	0.0860	0.0117	0.0653	0.0371	0.0820
21 PCB_22	0.1264	0.0049	0.0893	0.0614	0.1366
22 PCB_23	0.0012	-0.0001	0.0000	0.0004	0.0008
23 PCB_24	0.1787	0.0283	0.0558	0.0977	0.1109
24 PCB_26_29	0.7450	0.0338	0.1611	0.3337	0.2408
25 PCB_27	1.1340	0.1352	0.0667	0.5250	0.4389

26	PCB_31	0.3457	0.0235	0.1967	0.1175	0.2939
27	PCB_32	0.7053	0.1017	0.1761	0.3405	0.4426
28	PCB_34	0.0129	0.0027	0.0027	0.0073	0.0079
29	PCB_35	0.0003	0.0003	-0.0000	0.0002	0.0002
30	PCB_37	0.0196	0.0042	0.0006	0.0157	0.0313
31	PCB_38	0.0027	0.0005	-0.0000	0.0031	0.0001
32	PCB_39	0.0019	0.0011	0.0026	0.0017	0.0024
33	PCB_40_41_71	1.6440	0.4160	0.8177	1.3301	0.7911
34	PCB_42	0.8769	0.1805	0.4577	0.6448	0.5173
35	PCB_43	0.0195	-0.0057	0.0405	0.0714	0.0287
36	PCB_44_47_65	5.2857	1.9128	2.0849	4.1831	3.0201
37	PCB_45_51	1.3020	0.2645	0.4102	0.7492	0.5514
38	PCB_46	0.3645	0.0390	0.1209	0.1718	0.1137
39	PCB_48	0.1353	0.0448	0.1342	0.0737	0.1120
40	PCB_49_69	6.1048	1.1239	1.6137	4.6760	2.4689
41	PCB_50_53	1.9293	0.1808	0.4100	1.0138	0.5123
42	PCB_52	4.2272	1.4250	1.7613	2.1022	1.5848
43	PCB_54	0.0702	0.0146	0.0065	0.0267	0.0288
44	PCB_55	0.2236	0.1628	0.2866	0.1807	0.2651
45	PCB_57	0.0456	0.0186	0.0108	0.0654	0.0225
46	PCB_58	0.0338	0.0057	0.0112	0.0275	0.0151
47	PCB_59_62_75	0.5556	0.0030	0.1764	0.3653	0.1282
48	PCB_60	0.1176	0.0840	0.1883	0.1045	0.1666
49	PCB_61_70_74_76	2.0070	2.0820	1.6359	1.3943	2.0682
50	PCB_63	0.0956	0.0452	0.0533	0.0984	0.0921
51	PCB_64	1.1077	0.2731	0.7499	0.8049	0.7746

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4	EM 5
52	PCB_66	1.6300	0.9705	1.1447	1.8244	1.6995
53	PCB_67	0.0346	0.0045	0.0157	0.0234	0.0217
54	PCB_68	0.1716	0.0519	0.0288	0.1941	0.0904
55	PCB_72	0.2432	0.0293	0.0422	0.2307	0.0851
56	PCB_77	0.0383	0.0127	0.0670	0.0316	0.0394
57	PCB_78	0.0129	-0.0000	0.0249	-0.0023	0.0213
58	PCB_79	0.0274	0.0419	0.0783	0.0655	0.0696
59	PCB_81	0.0027	0.0042	0.0169	0.0057	0.0039
60	PCB_82	0.4396	0.7737	0.5288	0.4661	0.6616
61	PCB_83	0.4040	0.2135	0.2113	0.3293	0.2807
62	PCB_84	1.5374	1.2170	1.2260	1.1784	1.1512
63	PCB_85_117_116	0.7396	1.3370	1.0446	1.2682	1.3488
64	Coplanar1	3.7101	5.3777	3.3524	4.4468	4.2570
65	PCB_88_91	1.3707	0.8518	1.0942	1.3668	1.2489
66	PCB_89	0.0304	0.0329	0.0558	0.0295	0.0351
67	PCB_90_101_113	5.8605	7.2981	5.3750	6.3783	6.2660
68	PCB_92	1.6029	1.0196	1.0969	1.5359	1.3954
69	Coplanar2	0.3989	0.2455	0.2467	0.3712	0.3455
70	PCB_94	0.0975	0.0407	0.0319	0.0717	0.0664
71	PCB_95	4.7966	3.1950	4.1132	3.9871	2.6819
72	PCB_96	0.0924	0.0214	0.0366	0.0612	0.0335
73	PCB_99	3.5365	4.5558	3.2971	5.1807	3.9800
74	PCB_103	0.1358	0.0376	0.0521	0.1224	0.0765
75	PCB_104	0.0045	0.0017	-0.0001	0.0036	0.0020
76	PCB_105	1.3375	3.0789	1.3937	1.5261	2.3657
77	PCB_107_124	0.1263	0.3218	0.1632	0.1419	0.2384
78	PCB_109	0.2863	0.5070	0.3002	0.5719	0.4961
79	PCB_110_115	7.7547	8.8447	7.8150	9.1420	7.6036
80	PCB_111	0.0093	0.0036	0.0030	0.0174	0.0051
81	PCB_114	0.0731	0.2129	0.0787	0.0874	0.1818
82	PCB_118	5.1320	9.5986	3.8875	5.7528	6.4969
83	PCB_120	0.0379	0.0112	0.0176	0.0612	0.0231
84	PCB_121	0.0045	0.0013	-0.0000	0.0068	0.0025
85	PCB_122	0.0391	0.0761	0.0479	0.0364	0.0547
86	PCB_123	0.1618	0.2434	0.1075	0.1404	0.3169
87	PCB_126	0.0113	0.0465	0.0621	0.0198	0.0200
88	PCB_127	0.0107	0.0228	0.0097	0.0154	0.0146
89	PCB_128_166	0.8935	1.9411	1.3043	1.1102	1.3895
90	PCB_129_138_163	5.7753	10.8119	9.2537	7.3597	9.3919

91	PCB_130	0.3590	0.6201	0.4347	0.3856	0.5199
92	PCB_131	0.0679	0.1508	0.0983	0.0909	0.1241
93	PCB_132	1.4783	1.7659	2.2204	1.8888	1.3482
94	PCB_133	0.0950	0.1004	0.1164	0.1297	0.1146
95	PCB_134_143	0.2865	0.2680	0.2720	0.2278	0.2698
96	PCB_135_151	1.4918	1.1560	2.3836	1.6572	1.8327
97	PCB_136	0.5691	0.4537	0.6153	0.6126	0.5651
98	PCB_137	0.3155	0.6781	0.4165	0.4367	0.6535
99	PCB_139_140	0.1116	0.2100	0.1404	0.1667	0.2220
100	PCB_141	0.5075	1.0919	1.0645	0.6501	0.9116
101	PCB_142	0.0553	0.2779	0.3622	0.2420	0.3185
102	PCB_145	0.0020	0.0029	0.0028	0.0028	0.0029

********** INITIALIZATION **********

Compositions of End Members

		EM 1	EM 2	EM 3	EM 4	EM 5
103	PCB_146	0.7925	1.0922	1.3484	1.1152	1.1868
104	PCB_147_149	3.4651	4.5019	5.9878	3.8785	4.3958
105	PCB_148	0.0069	0.0060	0.0075	0.0104	0.0088
106	PCB_150	0.0077	0.0066	0.0070	0.0114	0.0085
107	PCB_152	0.0067	0.0054	0.0051	0.0075	0.0062
108	PCB_153_168	4.1216	6.9443	7.0559	5.6217	6.6045
109	PCB_154	0.0600	0.0610	0.0651	0.0797	0.0800
110	PCB_155	0.0002	0.0002	0.0000	0.0005	0.0002
111	PCB_156_57	0.4975	1.4761	0.6243	0.7228	1.1912
112	PCB_158	0.5772	1.1737	0.8296	0.7699	0.9940
113	PCB_159	-0.0002	0.0007	0.0388	0.0005	0.0121
114	PCB_160	0.0221	0.0404	0.0600	0.0147	0.0329
115	PCB_164	0.3157	0.6407	0.5899	0.4061	0.5103
116	PCB_165	0.0044	0.0029	0.0023	0.0087	0.0006
117	PCB_167	0.1520	0.4656	0.2672	0.2356	0.3328
118	PCB_169	0.0010	0.0007	0.0029	0.0012	0.0010
119	PCB_170	0.2688	0.7679	0.9906	0.4419	0.6314
120	PCB_171_173	0.1751	0.2625	0.4367	0.1977	0.2601
121	PCB_172	0.0068	0.1090	0.2450	0.0818	0.1133
122	PCB_174	0.3106	0.3259	1.1327	0.2621	0.3770
123	PCB_175	0.0208	0.0261	0.0670	0.0239	0.0315
124	PCB_176	0.0631	0.0608	0.1875	0.0705	0.0844
125	PCB_177	0.2571	0.2841	0.8620	0.2439	0.3395
126	PCB_178	0.0964	0.0754	0.3926	0.1091	0.1156
127	PCB_179	0.1571	0.1008	0.5494	0.1570	0.1764
128	PCB_180_193	0.0179	0.9748	2.4952	0.8817	1.0431
129	PCB_181	0.0092	0.0234	0.0176	0.0134	0.0189
130	PCB_182	0.0002	0.0056	0.0003	0.0002	-0.0011
131	PCB_183_185	0.3724	0.3949	1.1878	0.4131	0.5167
132	PCB_184	0.0005	0.0007	0.0000	0.0007	0.0007
133	PCB_186	0.0003	0.0004	0.0020	0.0003	0.0004
134	PCB_187	0.6095	0.5240	3.8256	0.8703	1.1478
135	PCB_188	0.0006	0.0008	0.0025	0.0008	0.0008
136	PCB_189	0.0163	0.0373	0.0382	0.0250	0.0344
137	PCB_190	0.0192	0.0797	0.1455	0.0529	0.0770
138	PCB_191	0.0012	0.0310	0.0500	0.0218	0.0293
139	PCB_192	0.4719	0.0112	-0.0013	-0.0571	-0.0257
140	PCB_194	0.0402	0.0702	0.1889	0.0586	0.0780
141	PCB_195	0.0242	0.0333	0.1277	0.0351	0.0474
142	PCB_196	0.0260	0.0420	0.1828	0.0486	0.0597
143	PCB_197_200	0.0139	0.0106	0.0829	0.0178	0.0193
144	PCB_198_199	0.0341	0.0663	0.3971	0.0800	0.0946
145	PCB_201	0.0154	0.0110	0.0862	0.0163	0.0188
146	PCB_202	0.0153	0.0135	0.1154	0.0160	0.0185
147	PCB_203	0.0415	0.0654	0.3457	0.0770	0.1021
148	PCB_204	0.0001	0.0001	0.0020	0.0001	0.0001
149	PCB_205	0.0042	0.0042	0.0194	0.0051	0.0069
150	PCB_206	0.0281	0.0259	0.1486	0.0186	0.0263
151	PCB_207	0.0035	0.0035	0.0182	0.0026	0.0033
152	PCB_208	0.0097	0.0068	0.0562	0.0044	0.0064
153	PCB_209	0.0148	0.0059	0.0852	0.0029	0.0055

White Sucker Fillet

********** INITIALIZATION **********

Compositions of End Members

		EM 6
1	PCB_1	0.0086
2	PCB_2	0.0001
3	PCB_3	0.0002
4	PCB_4	0.2108
5	PCB_5	0.0005
6	PCB_6	0.0283
7	PCB_7	0.0037
8	PCB_8	0.0694
9	PCB_9	0.0064
10	PCB_10	0.0229
11	PCB_11	0.0110
12	PCB_12_13	0.0053
13	PCB_14	0.0064
14	PCB_15	0.0058
15	PCB_16	0.0988
16	PCB_17	0.6202
17	PCB_18_30	0.3432
18	PCB_19	0.3021
19	PCB_20_28	0.6980
20	PCB_21_33	0.0534
21	PCB_22	0.0870
22	PCB_23	0.0005
23	PCB_24	0.1460
24	PCB_26_29	0.4693
25	PCB_27	0.7903
26	PCB_31	0.2598
27	PCB_32	0.4345
28	PCB_34	0.0088
29	PCB_35	-0.0001
30	PCB_37	0.0194
31	PCB_38	0.0027
32	PCB_39	0.0016
33	PCB_40_41_71	1.4250
34	PCB_42	0.8275
35	PCB_43	0.1086
36	PCB_44_47_65	5.0949
37	PCB_45_51	0.9798
38	PCB_46	0.2598
39	PCB_48	0.1165
40	PCB_49_69	5.5813
41	PCB_50_53	1.4584
42	PCB_52	3.1607
43	PCB_54	0.0450
44	PCB_55	0.2395
45	PCB_57	0.0420
46	PCB_58	0.0285
47	PCB_59_62_75	0.4819
48	PCB_60	0.1221
49	PCB_61_70_74_76	1.8837
50	PCB_63	0.1019
51	PCB_64	0.9881

********** INITIALIZATION **********

Compositions of End Members

		EM 6
52	PCB_66	1.7431
53	PCB_67	0.0344
54	PCB_68	0.1714
55	PCB_72	0.2135
56	PCB_77	0.0415
57	PCB_78	0.0012
58	PCB_79	0.0240

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  59 PCB_81               0.0037
  60 PCB_82               0.5258
  61 PCB_83               0.4353
  62 PCB_84               1.6087
  63 PCB_85_117_116       1.1189
  64 Coplanar1            4.4265
  65 PCB_88_91            1.4178
  66 PCB_89               0.0352
  67 PCB_90_101_113       6.2725
  68 PCB_92               1.6501
  69 Coplanar2            0.4423
  70 PCB_94               0.1024
  71 PCB_95               4.6180
  72 PCB_96               0.0831
  73 PCB_99               4.6028
  74 PCB_103              0.1365
  75 PCB_104              0.0041
  76 PCB_105              1.5695
  77 PCB_107_124          0.1480
  78 PCB_109              0.4801
  79 PCB_110_115          8.8674
  80 PCB_111              0.0103
  81 PCB_114              0.1009
  82 PCB_118              4.8130
  83 PCB_120              0.0385
  84 PCB_121              0.0053
  85 PCB_122              0.0477
  86 PCB_123              0.1073
  87 PCB_126              0.0317
  88 PCB_127              0.0053
  89 PCB_128_166          0.9334
  90 PCB_129_138_163      6.3369
  91 PCB_130              0.3667
  92 PCB_131              0.0706
  93 PCB_132              1.0366
  94 PCB_133              0.1076
  95 PCB_134_143          0.2923
  96 PCB_135_151          1.6974
  97 PCB_136              0.6570
  98 PCB_137              0.3935
  99 PCB_139_140          0.1305
 100 PCB_141              0.4773
 101 PCB_142              0.2003
 102 PCB_145              0.0027
***************************** INITIALIZATION ****************************

                     Compositions of End Members

                           EM 6

 103 PCB_146              0.7960
 104 PCB_147_149          3.5294
 105 PCB_148              0.0097
 106 PCB_150              0.0103
 107 PCB_152              0.0082
 108 PCB_153_168          4.2671
 109 PCB_154              0.0741
 110 PCB_155              0.0003
 111 PCB_156_57           0.5967
 112 PCB_158              0.6285
 113 PCB_159              0.0008
 114 PCB_160              0.0157
 115 PCB_164              0.3092
 116 PCB_165              0.0023
 117 PCB_167              0.1708
 118 PCB_169              0.0007
 119 PCB_170              0.2906
 120 PCB_171_173          0.1630
 121 PCB_172              0.0497
 122 PCB_174              0.2785
 123 PCB_175              0.0216
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124	PCB_176	0.0643
125	PCB_177	0.2589
126	PCB_178	0.1046
127	PCB_179	0.1614
128	PCB_180_193	0.4505
129	PCB_181	0.0111
130	PCB_182	-0.0019
131	PCB_183_185	0.3328
132	PCB_184	0.0006
133	PCB_186	0.0003
134	PCB_187	0.6993
135	PCB_188	0.0008
136	PCB_189	0.0163
137	PCB_190	0.0373
138	PCB_191	0.0126
139	PCB_192	0.0619
140	PCB_194	0.0280
141	PCB_195	0.0222
142	PCB_196	0.0286
143	PCB_197_200	0.0146
144	PCB_198_199	0.0495
145	PCB_201	0.0149
146	PCB_202	0.0166
147	PCB_203	0.0500
148	PCB_204	0.0001
149	PCB_205	0.0036
150	PCB_206	0.0198
151	PCB_207	0.0026
152	PCB_208	0.0064
153	PCB_209	0.0078

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4	EM 5
1	1-WS-5	-0.0000	0.0000	1.0000	0.0000	0.0000
2	2-WS-2	-0.2496	0.6327	-0.0713	-0.2864	0.2399
3	2-WS-6	-0.0000	1.0000	-0.0000	0.0000	-0.0000
4	3-WS-3	-0.0000	0.0000	-0.0000	-0.0000	1.0000
5	4-WS-5	-0.0000	0.0000	-0.0000	1.0000	-0.0000
6	5-WS-4	0.0000	0.0000	-0.0000	-0.0000	0.0000
7	6-WS-2	0.2751	0.2176	-0.0186	0.2811	0.2699
8	7-WS-2	1.0000	0.0000	-0.0000	-0.0000	0.0000

MIXING PROPORTIONS

	Sample	EM 6
1	1-WS-5	0.0000
2	2-WS-2	0.7346
3	2-WS-6	0.0000
4	3-WS-3	0.0000
5	4-WS-5	0.0000
6	5-WS-4	1.0000
7	6-WS-2	-0.0251
8	7-WS-2	0.0000

**********ITERATION 1**********

End-Member raw compositions for iteration 1

		EM 1	EM 2	EM 3	EM 4	EM 5
1	PCB_1	0.0029	0.0057	0.0038	0.0071	0.0210
2	PCB_2	0.0000	0.0000	0.0000	0.0000	0.0000
3	PCB_3	0.0001	0.0003	0.0000	0.0003	0.0006
4	PCB_4	0.2631	0.0385	0.0043	0.1090	0.3505
5	PCB_5	0.0000	0.0003	0.0000	0.0000	0.0015
6	PCB_6	0.0381	0.0037	0.0067	0.0118	0.0542
7	PCB_7	0.0046	0.0012	0.0013	0.0016	0.0075
8	PCB_8	0.0574	0.0501	0.0238	0.0194	0.1644
9	PCB_9	0.0091	0.0018	0.0016	0.0021	0.0136

10	PCB_10	0.0301	0.0023	0.0000	0.0116	0.0356
11	PCB_11	0.0242	0.0000	0.0000	0.0000	0.0111
12	PCB_12_13	0.0087	0.0001	0.0000	0.0035	0.0035
13	PCB_14	0.0002	0.0000	0.0001	0.0072	0.0000
14	PCB_15	0.0064	0.0013	0.0067	0.0023	0.0126
15	PCB_16	0.1282	0.0000	0.0596	0.0357	0.1194
16	PCB_17	0.9962	0.0000	0.0000	0.3352	0.4962
17	PCB_18_30	0.5285	0.0000	0.0935	0.0851	0.2438
18	PCB_19	0.5149	0.0259	0.0000	0.1335	0.3623
19	PCB_20_28	0.9770	0.0000	0.3871	0.4623	0.8535
20	PCB_21_33	0.0881	0.0000	0.0602	0.0224	0.0828
21	PCB_22	0.1298	0.0000	0.0797	0.0424	0.1436
22	PCB_23	0.0013	0.0000	0.0000	0.0003	0.0007
23	PCB_24	0.1879	0.0000	0.0228	0.0791	0.0968
24	PCB_26_29	0.7921	0.0000	0.0076	0.2395	0.1147
25	PCB_27	1.2164	0.0000	0.0000	0.3982	0.2827
26	PCB_31	0.3578	0.0000	0.1572	0.0512	0.2883
27	PCB_32	0.7484	0.0000	0.0373	0.2582	0.3956
28	PCB_34	0.0138	0.0000	0.0000	0.0062	0.0070
29	PCB_35	0.0003	0.0003	0.0000	0.0002	0.0002
30	PCB_37	0.0209	0.0002	0.0000	0.0156	0.0367
31	PCB_38	0.0029	0.0000	0.0000	0.0034	0.0000
32	PCB_39	0.0018	0.0008	0.0028	0.0015	0.0025
33	PCB_40_41_71	1.7053	0.0546	0.5932	1.2830	0.5595
34	PCB_42	0.9064	0.0000	0.3421	0.5943	0.4233
35	PCB_43	0.0157	0.0000	0.0438	0.0854	0.0280
36	PCB_44_47_65	5.5083	0.9624	1.2043	4.0258	2.4651
37	PCB_45_51	1.3711	0.0000	0.1725	0.6282	0.3628
38	PCB_46	0.3837	0.0000	0.0564	0.1248	0.0468
39	PCB_48	0.1356	0.0138	0.1337	0.0528	0.1044
40	PCB_49_69	6.4260	0.0000	0.3911	4.5051	1.5417
41	PCB_50_53	2.0456	0.0000	0.0044	0.8154	0.1419
42	PCB_52	4.4215	0.6470	1.1052	1.5662	0.8718
43	PCB_54	0.0752	0.0005	0.0000	0.0168	0.0197
44	PCB_55	0.2183	0.1346	0.3020	0.1607	0.2741
45	PCB_57	0.0481	0.0116	0.0013	0.0747	0.0171
46	PCB_58	0.0355	0.0000	0.0051	0.0270	0.0103
47	PCB_59_62_75	0.5834	0.0000	0.0737	0.3276	0.0092
48	PCB_60	0.1122	0.0661	0.2065	0.0946	0.1781
49	PCB_61_70_74_76	2.0328	2.1017	1.5294	1.2092	2.1155
50	PCB_63	0.0982	0.0301	0.0413	0.1020	0.0936
51	PCB_64	1.1341	0.0126	0.6514	0.7270	0.6868
52	PCB_66	1.6586	0.7612	1.0035	1.9192	1.7525
53	PCB_67	0.0358	0.0000	0.0105	0.0208	0.0186
54	PCB_68	0.1814	0.0203	0.0000	0.2116	0.0724
55	PCB_72	0.2577	0.0000	0.0000	0.2410	0.0454
56	PCB_77	0.0362	0.0017	0.0744	0.0271	0.0376

End-Member raw compositions for iteration 1

		EM 1	EM 2	EM 3	EM 4	EM 5
57	PCB_78	0.0123	0.0000	0.0284	0.0000	0.0236
58	PCB_79	0.0238	0.0427	0.0920	0.0749	0.0806
59	PCB_81	0.0017	0.0036	0.0207	0.0056	0.0032
60	PCB_82	0.4303	0.8661	0.5484	0.4658	0.7288
61	PCB_83	0.4162	0.1579	0.1568	0.3157	0.2506
62	PCB_84	1.5550	1.1078	1.1330	1.0723	1.0362
63	PCB_85_117_116	0.7070	1.4871	1.1133	1.4167	1.5258
64	Coplanar1	3.7107	5.8625	3.2200	4.6990	4.4465
65	PCB_88_91	1.3867	0.6793	1.0119	1.3810	1.2233
66	PCB_89	0.0285	0.0312	0.0623	0.0272	0.0347
67	PCB_90_101_113	5.8738	7.6890	5.2052	6.5674	6.4201
68	PCB_92	1.6347	0.8384	0.9520	1.5443	1.3564
69	Coplanar2	0.4078	0.1988	0.2029	0.3705	0.3363
70	PCB_94	0.1018	0.0252	0.0137	0.0672	0.0600
71	PCB_95	4.8408	2.6490	3.9104	3.7520	2.0003
72	PCB_96	0.0964	0.0010	0.0214	0.0545	0.0174
73	PCB_99	3.5201	4.8168	3.1886	5.7275	4.1171
74	PCB_103	0.1415	0.0094	0.0289	0.1235	0.0619
75	PCB_104	0.0049	0.0011	0.0000	0.0036	0.0015
76	PCB_105	1.3252	3.6101	1.3963	1.5781	2.7072
77	PCB_107_124	0.1229	0.3798	0.1719	0.1438	0.2735

78	PCB_109	0.2799	0.5678	0.2977	0.6635	0.5619
79	PCB_110_115	7.7080	9.0359	7.7648	9.5690	7.5070
80	PCB_111	0.0097	0.0020	0.0013	0.0206	0.0041
81	PCB_114	0.0718	0.2558	0.0792	0.0910	0.2179
82	PCB_118	5.2190	11.0526	3.5360	6.0513	7.0544
83	PCB_120	0.0392	0.0033	0.0119	0.0705	0.0194
84	PCB_121	0.0048	0.0005	0.0000	0.0079	0.0021
85	PCB_122	0.0382	0.0866	0.0498	0.0346	0.0591
86	PCB_123	0.1667	0.2723	0.0935	0.1379	0.3753
87	PCB_126	0.0072	0.0537	0.0751	0.0186	0.0188
88	PCB_127	0.0108	0.0267	0.0096	0.0172	0.0162
89	PCB_128_166	0.8616	2.2353	1.4092	1.1525	1.5283
90	PCB_129_138_163	5.5030	12.0868	10.1445	7.6294	10.3645
91	PCB_130	0.3527	0.6931	0.4530	0.3884	0.5690
92	PCB_131	0.0656	0.1742	0.1060	0.0964	0.1410
93	PCB_132	1.4338	1.7931	2.4232	1.9847	1.2594
94	PCB_133	0.0930	0.0987	0.1214	0.1395	0.1193
95	PCB_134_143	0.2869	0.2581	0.2665	0.2079	0.2645
96	PCB_135_151	1.4204	0.9549	2.6104	1.6421	1.8788
97	PCB_136	0.5625	0.4014	0.6227	0.6208	0.5573
98	PCB_137	0.3057	0.7811	0.4401	0.4685	0.7601
99	PCB_139_140	0.1089	0.2374	0.1471	0.1828	0.2573
100	PCB_141	0.4677	1.2342	1.2122	0.6590	1.0109
101	PCB_142	0.0297	0.3239	0.4406	0.2805	0.3835
102	PCB_145	0.0019	0.0030	0.0029	0.0030	0.0031
103	PCB_146	0.7514	1.1368	1.4935	1.1845	1.2814
104	PCB_147_149	3.2776	4.6010	6.6460	3.8319	4.5291
105	PCB_148	0.0068	0.0055	0.0075	0.0114	0.0094
106	PCB_150	0.0077	0.0061	0.0067	0.0127	0.0088
107	PCB_152	0.0067	0.0050	0.0047	0.0079	0.0061
108	PCB_153_168	3.9016	7.5792	7.8193	5.9151	7.2391
109	PCB_154	0.0592	0.0596	0.0659	0.0856	0.0861
110	PCB_155	0.0002	0.0002	0.0000	0.0006	0.0002
111	PCB_156_57	0.4851	1.7730	0.6533	0.7876	1.4174
112	PCB_158	0.5569	1.3380	0.8932	0.8155	1.1172

End-Member raw compositions for iteration 1

		EM 1	EM 2	EM 3	EM 4	EM 5
113	PCB_159	0.0000	0.0000	0.0493	0.0000	0.0136
114	PCB_160	0.0195	0.0434	0.0702	0.0096	0.0341
115	PCB_164	0.2958	0.7215	0.6621	0.4172	0.5574
116	PCB_165	0.0046	0.0025	0.0018	0.0103	0.0000
117	PCB_167	0.1430	0.5560	0.2969	0.2553	0.3861
118	PCB_169	0.0009	0.0004	0.0034	0.0012	0.0009
119	PCB_170	0.2164	0.8738	1.1825	0.4489	0.7037
120	PCB_171_173	0.1565	0.2698	0.5063	0.1868	0.2707
121	PCB_172	0.0000	0.1241	0.3078	0.0895	0.1319
122	PCB_174	0.2524	0.2689	1.3526	0.1871	0.3416
123	PCB_175	0.0175	0.0242	0.0793	0.0216	0.0319
124	PCB_176	0.0541	0.0502	0.2205	0.0640	0.0828
125	PCB_177	0.2136	0.2461	1.0231	0.1957	0.3243
126	PCB_178	0.0749	0.0461	0.4715	0.0920	0.1007
127	PCB_179	0.1288	0.0523	0.6537	0.1286	0.1548
128	PCB_180_193	0.0000	1.0997	3.1491	0.9910	1.2084
129	PCB_181	0.0086	0.0272	0.0198	0.0141	0.0216
130	PCB_182	0.0003	0.0074	0.0003	0.0003	0.0000
131	PCB_183_185	0.3147	0.3398	1.4057	0.3692	0.5087
132	PCB_184	0.0006	0.0008	0.0000	0.0008	0.0008
133	PCB_186	0.0002	0.0003	0.0024	0.0002	0.0003
134	PCB_187	0.3774	0.2585	4.6835	0.7274	1.1008
135	PCB_188	0.0005	0.0007	0.0030	0.0007	0.0007
136	PCB_189	0.0147	0.0423	0.0440	0.0264	0.0390
137	PCB_190	0.0098	0.0896	0.1788	0.0550	0.0874
138	PCB_191	0.0000	0.0369	0.0628	0.0251	0.0352
139	PCB_192	0.5150	0.0000	0.0000	0.0000	0.0000
140	PCB_194	0.0298	0.0691	0.2289	0.0546	0.0807
141	PCB_195	0.0169	0.0287	0.1554	0.0315	0.0480
142	PCB_196	0.0148	0.0356	0.2247	0.0450	0.0601
143	PCB_197_200	0.0090	0.0044	0.1013	0.0141	0.0162
144	PCB_198_199	0.0079	0.0503	0.4940	0.0694	0.0891
145	PCB_201	0.0104	0.0043	0.1051	0.0115	0.0150

146	PCB_202	0.0081	0.0056	0.1421	0.0091	0.0125
147	PCB_203	0.0196	0.0509	0.4269	0.0672	0.1010
148	PCB_204	0.0000	0.0000	0.0025	0.0000	0.0000
149	PCB_205	0.0031	0.0031	0.0234	0.0043	0.0068
150	PCB_206	0.0197	0.0165	0.1811	0.0069	0.0173
151	PCB_207	0.0025	0.0024	0.0222	0.0013	0.0022
152	PCB_208	0.0065	0.0026	0.0687	0.0000	0.0020
153	PCB_209	0.0100	0.0000	0.1042	0.0000	0.0000

End-Member raw compositions for iteration 1

EM 6

1	PCB_1	0.0104
2	PCB_2	0.0001
3	PCB_3	0.0003
4	PCB_4	0.2122
5	PCB_5	0.0007
6	PCB_6	0.0274
7	PCB_7	0.0036
8	PCB_8	0.0754
9	PCB_9	0.0061
10	PCB_10	0.0227
11	PCB_11	0.0090
12	PCB_12_13	0.0051
13	PCB_14	0.0084
14	PCB_15	0.0056
15	PCB_16	0.0942
16	PCB_17	0.5757
17	PCB_18_30	0.3151
18	PCB_19	0.2740
19	PCB_20_28	0.6509
20	PCB_21_33	0.0444
21	PCB_22	0.0769
22	PCB_23	0.0004
23	PCB_24	0.1441
24	PCB_26_29	0.4223
25	PCB_27	0.7558
26	PCB_31	0.2427
27	PCB_32	0.3851
28	PCB_34	0.0082
29	PCB_35	0.0000
30	PCB_37	0.0206
31	PCB_38	0.0029
32	PCB_39	0.0015
33	PCB_40_41_71	1.4130
34	PCB_42	0.8412
35	PCB_43	0.1357
36	PCB_44_47_65	5.2595
37	PCB_45_51	0.9396
38	PCB_46	0.2434
39	PCB_48	0.1106
40	PCB_49_69	5.7309
41	PCB_50_53	1.4150
42	PCB_52	2.9929
43	PCB_54	0.0415
44	PCB_55	0.2401
45	PCB_57	0.0432
46	PCB_58	0.0284
47	PCB_59_62_75	0.4851
48	PCB_60	0.1184
49	PCB_61_70_74_76	1.8698
50	PCB_63	0.1069
51	PCB_64	0.9748
52	PCB_66	1.8132
53	PCB_67	0.0357
54	PCB_68	0.1814
55	PCB_72	0.2182
56	PCB_77	0.0404

End-Member raw compositions for iteration 1

EM 6

57	PCB_78	0.0000

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 58 PCB_79                0.0192
 59 PCB_81                0.0031
 60 PCB_82                0.5468
 61 PCB_83                0.4589
 62 PCB_84                1.6530
 63 PCB_85_117_116        1.2183
 64 Coplanar1             4.6798
 65 PCB_88_91             1.4519
 66 PCB_89                0.0349
 67 PCB_90_101_113        6.4365
 68 PCB_92                1.7005
 69 Coplanar2             0.4669
 70 PCB_94                0.1086
 71 PCB_95                4.6074
 72 PCB_96                0.0840
 73 PCB_99                4.9598
 74 PCB_103               0.1426
 75 PCB_104               0.0043
 76 PCB_105               1.6392
 77 PCB_107_124           0.1523
 78 PCB_109               0.5410
 79 PCB_110_115           9.2161
 80 PCB_111               0.0111
 81 PCB_114               0.1094
 82 PCB_118               4.7972
 83 PCB_120               0.0401
 84 PCB_121               0.0059
 85 PCB_122               0.0498
 86 PCB_123               0.0936
 87 PCB_126               0.0346
 88 PCB_127               0.0037
 89 PCB_128_166           0.9165
 90 PCB_129_138_163       6.2665
 91 PCB_130               0.3637
 92 PCB_131               0.0693
 93 PCB_132               0.8416
 94 PCB_133               0.1100
 95 PCB_134_143           0.2951
 96 PCB_135_151           1.6991
 97 PCB_136               0.6816
 98 PCB_137               0.4112
 99 PCB_139_140           0.1344
100 PCB_141               0.4277
101 PCB_142               0.2248
102 PCB_145               0.0028
103 PCB_146               0.7572
104 PCB_147_149           3.3688
105 PCB_148               0.0105
106 PCB_150               0.0111
107 PCB_152               0.0088
108 PCB_153_168           4.1029
109 PCB_154               0.0782
110 PCB_155               0.0004
111 PCB_156_57            0.6193
112 PCB_158               0.6267
         End-Member raw compositions for iteration  1
                          EM 6

113 PCB_159               0.0000
114 PCB_160               0.0110
115 PCB_164               0.2874
116 PCB_165               0.0018
117 PCB_167               0.1685
118 PCB_169               0.0005
119 PCB_170               0.2460
120 PCB_171_173           0.1405
121 PCB_172               0.0465
122 PCB_174               0.2095
123 PCB_175               0.0185
124 PCB_176               0.0558
125 PCB_177               0.2163
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126	PCB_178	0.0861
127	PCB_179	0.1348
128	PCB_180_193	0.4126
129	PCB_181	0.0111
130	PCB_182	0.0000
131	PCB_183_185	0.2619
132	PCB_184	0.0006
133	PCB_186	0.0002
134	PCB_187	0.4987
135	PCB_188	0.0007
136	PCB_189	0.0148
137	PCB_190	0.0340
138	PCB_191	0.0128
139	PCB_192	0.0000
140	PCB_194	0.0135
141	PCB_195	0.0142
142	PCB_196	0.0183
143	PCB_197_200	0.0098
144	PCB_198_199	0.0285
145	PCB_201	0.0097
146	PCB_202	0.0098
147	PCB_203	0.0310
148	PCB_204	0.0000
149	PCB_205	0.0024
150	PCB_206	0.0086
151	PCB_207	0.0012
152	PCB_208	0.0020
153	PCB_209	0.0005

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4	EM 5
1	1-WS-5	0.1227	-0.0152	0.8479	-0.0101	0.0046
2	2-WS-2	-0.0515	0.4834	-0.0023	-0.2119	0.1848
3	2-WS-6	0.1214	0.7800	0.0521	0.0214	-0.0082
4	3-WS-3	0.1643	-0.0121	0.0545	-0.0067	0.7719
5	4-WS-5	0.1609	-0.0013	0.0518	0.7700	-0.0060
6	5-WS-4	0.1610	-0.0116	0.0548	-0.0053	0.0042
7	6-WS-2	0.3645	0.1668	0.0381	0.2198	0.2044
8	7-WS-2	0.9263	0.0006	0.0533	0.0008	-0.0012

MIXING PROPORTIONS

	Sample	EM 6
1	1-WS-5	0.0501
2	2-WS-2	0.5975
3	2-WS-6	0.0333
4	3-WS-3	0.0281
5	4-WS-5	0.0246
6	5-WS-4	0.7968
7	6-WS-2	0.0064
8	7-WS-2	0.0202

**********ITERATION 2**********

End-Member raw compositions for iteration 2

		EM 1	EM 2	EM 3	EM 4	EM 5
1	PCB_1	0.0019	0.0052	0.0026	0.0072	0.0243
2	PCB_2	0.0000	0.0000	0.0000	0.0000	0.0001
3	PCB_3	0.0000	0.0002	0.0000	0.0003	0.0007
4	PCB_4	0.2967	0.0279	0.0000	0.1055	0.4002
5	PCB_5	0.0000	0.0004	0.0000	0.0000	0.0018
6	PCB_6	0.0438	0.0028	0.0051	0.0112	0.0630
7	PCB_7	0.0053	0.0012	0.0012	0.0016	0.0087
8	PCB_8	0.0643	0.0563	0.0214	0.0178	0.1961
9	PCB_9	0.0105	0.0019	0.0013	0.0019	0.0160
10	PCB_10	0.0342	0.0009	0.0000	0.0112	0.0404
11	PCB_11	0.0303	0.0000	0.0000	0.0000	0.0136

12	PCB_12_13	0.0099	0.0000	0.0000	0.0034	0.0033
13	PCB_14	0.0000	0.0000	0.0000	0.0074	0.0000
14	PCB_15	0.0072	0.0013	0.0074	0.0022	0.0149
15	PCB_16	0.1490	0.0000	0.0633	0.0339	0.1352
16	PCB_17	1.1475	0.0000	0.0000	0.3219	0.5107
17	PCB_18_30	0.6296	0.0000	0.0970	0.0760	0.2646
18	PCB_19	0.5999	0.0158	0.0000	0.1247	0.4021
19	PCB_20_28	1.0970	0.0000	0.3695	0.4565	0.9244
20	PCB_21_33	0.1029	0.0000	0.0677	0.0213	0.0944
21	PCB_22	0.1498	0.0000	0.0863	0.0413	0.1636
22	PCB_23	0.0016	0.0000	0.0000	0.0002	0.0008
23	PCB_24	0.2135	0.0000	0.0115	0.0773	0.0968
24	PCB_26_29	0.9226	0.0000	0.0000	0.2303	0.0670
25	PCB_27	1.4078	0.0000	0.0000	0.3824	0.2276
26	PCB_31	0.4269	0.0000	0.1758	0.0451	0.3315
27	PCB_32	0.8614	0.0000	0.0003	0.2497	0.4107
28	PCB_34	0.0155	0.0000	0.0000	0.0060	0.0070
29	PCB_35	0.0003	0.0004	0.0000	0.0002	0.0002
30	PCB_37	0.0222	0.0000	0.0000	0.0156	0.0413
31	PCB_38	0.0029	0.0000	0.0000	0.0034	0.0000
32	PCB_39	0.0019	0.0006	0.0030	0.0015	0.0028
33	PCB_40_41_71	1.8212	0.0000	0.4612	1.2871	0.3749
34	PCB_42	0.9863	0.0000	0.2873	0.5936	0.3700
35	PCB_43	0.0022	0.0000	0.0305	0.0881	0.0160
36	PCB_44_47_65	5.8902	0.3421	0.6259	4.0179	2.0393
37	PCB_45_51	1.5482	0.0000	0.0921	0.6166	0.2749
38	PCB_46	0.4450	0.0000	0.0464	0.1204	0.0196
39	PCB_48	0.1543	0.0081	0.1485	0.0514	0.1130
40	PCB_49_69	6.9430	0.0000	0.0000	4.5065	0.7767
41	PCB_50_53	2.3423	0.0000	0.0000	0.7962	0.0000
42	PCB_52	5.0773	0.5267	1.0505	1.5025	0.6113
43	PCB_54	0.0885	0.0000	0.0000	0.0155	0.0183
44	PCB_55	0.2304	0.1280	0.3250	0.1597	0.2972
45	PCB_57	0.0433	0.0000	0.0000	0.0761	0.0047
46	PCB_58	0.0379	0.0000	0.0009	0.0271	0.0061
47	PCB_59_62_75	0.6502	0.0000	0.0258	0.3267	0.0000
48	PCB_60	0.1158	0.0597	0.2257	0.0948	0.1961
49	PCB_61_70_74_76	2.1919	2.2643	1.5750	1.1746	2.2938
50	PCB_63	0.0983	0.0144	0.0279	0.1029	0.0914
51	PCB_64	1.2354	0.0000	0.6307	0.7258	0.6601
52	PCB_66	1.6137	0.4991	0.7988	1.9387	1.7171
53	PCB_67	0.0396	0.0000	0.0081	0.0207	0.0174
54	PCB_68	0.1780	0.0000	0.0000	0.2144	0.0409
55	PCB_72	0.2665	0.0000	0.0000	0.2436	0.0000
56	PCB_77	0.0385	0.0000	0.0829	0.0273	0.0394

End-Member raw compositions for iteration 2

		EM 1	EM 2	EM 3	EM 4	EM 5
57	PCB_78	0.0166	0.0000	0.0356	0.0000	0.0302
58	PCB_79	0.0125	0.0343	0.0949	0.0769	0.0836
59	PCB_81	0.0009	0.0030	0.0236	0.0058	0.0028
60	PCB_82	0.4120	0.9283	0.5542	0.4607	0.7898
61	PCB_83	0.4410	0.1233	0.1206	0.3143	0.2306
62	PCB_84	1.6600	1.1008	1.1292	1.0575	1.0067
63	PCB_85_117_116	0.5408	1.4474	1.0235	1.4321	1.5716
64	Coplanar1	3.4541	5.9389	2.8682	4.7000	4.4151
65	PCB_88_91	1.3961	0.5202	0.9234	1.3888	1.1823
66	PCB_89	0.0286	0.0314	0.0686	0.0271	0.0362
67	PCB_90_101_113	5.6758	7.7333	4.8743	6.5621	6.4023
68	PCB_92	1.6628	0.6764	0.8184	1.5490	1.3051
69	Coplanar2	0.4182	0.1590	0.1636	0.3710	0.3255
70	PCB_94	0.1102	0.0166	0.0020	0.0666	0.0568
71	PCB_95	5.1047	2.3916	3.9333	3.7367	1.5488
72	PCB_96	0.1068	0.0000	0.0150	0.0540	0.0071
73	PCB_99	3.0310	4.4519	2.6167	5.7865	3.8095
74	PCB_103	0.1475	0.0000	0.0095	0.1242	0.0466
75	PCB_104	0.0052	0.0006	0.0000	0.0036	0.0009
76	PCB_105	1.2197	3.9431	1.3312	1.5542	2.9771
77	PCB_107_124	0.1127	0.4197	0.1746	0.1409	0.3043
78	PCB_109	0.1937	0.5232	0.2130	0.6732	0.5498
79	PCB_110_115	7.2807	8.6683	7.3085	9.6133	7.0759

80	PCB_111	0.0075	0.0000	0.0000	0.0211	0.0006
81	PCB_114	0.0635	0.2835	0.0737	0.0890	0.2478
82	PCB_118	4.9126	11.8336	3.0355	5.9963	7.3301
83	PCB_120	0.0334	0.0000	0.0004	0.0722	0.0086
84	PCB_121	0.0043	0.0000	0.0000	0.0080	0.0008
85	PCB_122	0.0379	0.0954	0.0520	0.0337	0.0646
86	PCB_123	0.1684	0.2966	0.0838	0.1354	0.4296
87	PCB_126	0.0041	0.0592	0.0851	0.0185	0.0190
88	PCB_127	0.0091	0.0281	0.0083	0.0173	0.0162
89	PCB_128_166	0.7706	2.4052	1.4503	1.1456	1.6266
90	PCB_129_138_163	4.9015	12.7067	10.5380	7.6283	11.0662
91	PCB_130	0.3367	0.7408	0.4613	0.3851	0.6120
92	PCB_131	0.0566	0.1860	0.1070	0.0962	0.1525
93	PCB_132	1.3096	1.7151	2.5316	2.0062	1.1160
94	PCB_133	0.0829	0.0870	0.1163	0.1412	0.1160
95	PCB_134_143	0.3028	0.2649	0.2748	0.2050	0.2741
96	PCB_135_151	1.3758	0.7892	2.7666	1.6592	1.9332
97	PCB_136	0.5517	0.3451	0.6126	0.6248	0.5421
98	PCB_137	0.2600	0.8246	0.4246	0.4680	0.8326
99	PCB_139_140	0.0901	0.2419	0.1371	0.1838	0.2769
100	PCB_141	0.4098	1.3254	1.3158	0.6580	1.0996
101	PCB_142	0.0000	0.3184	0.4613	0.2865	0.4144
102	PCB_145	0.0016	0.0029	0.0029	0.0030	0.0031
103	PCB_146	0.6496	1.0960	1.5446	1.1979	1.3180
104	PCB_147_149	3.1221	4.6600	7.1565	3.8434	4.7029
105	PCB_148	0.0058	0.0040	0.0065	0.0116	0.0090
106	PCB_150	0.0067	0.0045	0.0053	0.0129	0.0080
107	PCB_152	0.0065	0.0042	0.0039	0.0079	0.0057
108	PCB_153_168	3.3884	7.7278	8.1355	5.9514	7.6127
109	PCB_154	0.0534	0.0521	0.0605	0.0866	0.0868
110	PCB_155	0.0002	0.0002	0.0000	0.0006	0.0002
111	PCB_156_57	0.3925	1.9308	0.6133	0.7810	1.5744
112	PCB_158	0.4845	1.4118	0.8988	0.8151	1.1960

End-Member raw compositions for iteration 2

		EM 1	EM 2	EM 3	EM 4	EM 5
113	PCB_159	0.0000	0.0000	0.0590	0.0000	0.0171
114	PCB_160	0.0209	0.0500	0.0821	0.0090	0.0394
115	PCB_164	0.2607	0.7675	0.7074	0.4169	0.5943
116	PCB_165	0.0034	0.0007	0.0003	0.0106	0.0000
117	PCB_167	0.1107	0.6036	0.3024	0.2541	0.4207
118	PCB_169	0.0009	0.0002	0.0038	0.0012	0.0008
119	PCB_170	0.1536	0.9398	1.3208	0.4514	0.7707
120	PCB_171_173	0.1470	0.2819	0.5672	0.1875	0.2909
121	PCB_172	0.0000	0.1263	0.3473	0.0922	0.1447
122	PCB_174	0.2645	0.2854	1.5779	0.1877	0.3736
123	PCB_175	0.0164	0.0243	0.0902	0.0218	0.0343
124	PCB_176	0.0518	0.0466	0.2501	0.0649	0.0871
125	PCB_177	0.2156	0.2540	1.1809	0.1969	0.3520
126	PCB_178	0.0717	0.0362	0.5439	0.0942	0.1026
127	PCB_179	0.1298	0.0370	0.7539	0.1312	0.1597
128	PCB_180_193	0.0000	1.0714	3.5414	1.0260	1.2937
129	PCB_181	0.0070	0.0291	0.0207	0.0141	0.0235
130	PCB_182	0.0002	0.0088	0.0005	0.0002	0.0000
131	PCB_183_185	0.3010	0.3296	1.6051	0.3744	0.5415
132	PCB_184	0.0005	0.0008	0.0000	0.0008	0.0008
133	PCB_186	0.0001	0.0004	0.0029	0.0002	0.0003
134	PCB_187	0.3038	0.1590	5.4371	0.7551	1.1918
135	PCB_188	0.0004	0.0007	0.0035	0.0007	0.0008
136	PCB_189	0.0116	0.0445	0.0472	0.0265	0.0424
137	PCB_190	0.0000	0.0939	0.2015	0.0560	0.0962
138	PCB_191	0.0000	0.0378	0.0694	0.0258	0.0384
139	PCB_192	0.6728	0.0000	0.0000	0.0000	0.0000
140	PCB_194	0.0237	0.0710	0.2631	0.0556	0.0875
141	PCB_195	0.0134	0.0276	0.1792	0.0324	0.0522
142	PCB_196	0.0080	0.0328	0.2591	0.0466	0.0643
143	PCB_197_200	0.0080	0.0024	0.1181	0.0147	0.0167
144	PCB_198_199	0.0000	0.0448	0.5753	0.0726	0.0952
145	PCB_201	0.0102	0.0030	0.1232	0.0120	0.0156
146	PCB_202	0.0080	0.0050	0.1678	0.0096	0.0131
147	PCB_203	0.0089	0.0463	0.4956	0.0698	0.1099

148	PCB_204	0.0000	0.0000	0.0030	0.0000	0.0000
149	PCB_205	0.0028	0.0028	0.0271	0.0044	0.0074
150	PCB_206	0.0224	0.0190	0.2153	0.0070	0.0191
151	PCB_207	0.0027	0.0027	0.0263	0.0013	0.0023
152	PCB_208	0.0081	0.0036	0.0823	0.0000	0.0023
153	PCB_209	0.0136	0.0000	0.1260	0.0000	0.0000

End-Member raw compositions for iteration 2

EM 6

1	PCB_1	0.0110
2	PCB_2	0.0001
3	PCB_3	0.0003
4	PCB_4	0.2290
5	PCB_5	0.0009
6	PCB_6	0.0298
7	PCB_7	0.0039
8	PCB_8	0.0855
9	PCB_9	0.0067
10	PCB_10	0.0245
11	PCB_11	0.0111
12	PCB_12_13	0.0053
13	PCB_14	0.0089
14	PCB_15	0.0061
15	PCB_16	0.1044
16	PCB_17	0.6142
17	PCB_18_30	0.3560
18	PCB_19	0.2946
19	PCB_20_28	0.6759
20	PCB_21_33	0.0469
21	PCB_22	0.0812
22	PCB_23	0.0004
23	PCB_24	0.1566
24	PCB_26_29	0.4540
25	PCB_27	0.8228
26	PCB_31	0.2765
27	PCB_32	0.4010
28	PCB_34	0.0084
29	PCB_35	0.0000
30	PCB_37	0.0213
31	PCB_38	0.0029
32	PCB_39	0.0014
33	PCB_40_41_71	1.4437
34	PCB_42	0.8939
35	PCB_43	0.1499
36	PCB_44_47_65	5.5387
37	PCB_45_51	0.9992
38	PCB_46	0.2663
39	PCB_48	0.1212
40	PCB_49_69	6.0190
41	PCB_50_53	1.5373
42	PCB_52	3.2726
43	PCB_54	0.0459
44	PCB_55	0.2553
45	PCB_57	0.0373
46	PCB_58	0.0288
47	PCB_59_62_75	0.5208
48	PCB_60	0.1220
49	PCB_61_70_74_76	1.9931
50	PCB_63	0.1082
51	PCB_64	1.0229
52	PCB_66	1.7958
53	PCB_67	0.0389
54	PCB_68	0.1772
55	PCB_72	0.2154
56	PCB_77	0.0430

End-Member raw compositions for iteration 2

EM 6

57	PCB_78	0.0000
58	PCB_79	0.0071
59	PCB_81	0.0025

60	PCB_82	0.5632
61	PCB_83	0.4913
62	PCB_84	1.7792
63	PCB_85_117_116	1.1868
64	Coplanar1	4.7068
65	PCB_88_91	1.4700
66	PCB_89	0.0366
67	PCB_90_101_113	6.4278
68	PCB_92	1.7376
69	Coplanar2	0.4892
70	PCB_94	0.1177
71	PCB_95	4.8087
72	PCB_96	0.0905
73	PCB_99	4.8576
74	PCB_103	0.1476
75	PCB_104	0.0044
76	PCB_105	1.6459
77	PCB_107_124	0.1531
78	PCB_109	0.5231
79	PCB_110_115	9.2099
80	PCB_111	0.0094
81	PCB_114	0.1125
82	PCB_118	4.5184
83	PCB_120	0.0344
84	PCB_121	0.0056
85	PCB_122	0.0529
86	PCB_123	0.0790
87	PCB_126	0.0386
88	PCB_127	0.0007
89	PCB_128_166	0.8633
90	PCB_129_138_163	5.9546
91	PCB_130	0.3563
92	PCB_131	0.0630
93	PCB_132	0.5947
94	PCB_133	0.1044
95	PCB_134_143	0.3129
96	PCB_135_151	1.7105
97	PCB_136	0.6978
98	PCB_137	0.3974
99	PCB_139_140	0.1237
100	PCB_141	0.3721
101	PCB_142	0.2157
102	PCB_145	0.0028
103	PCB_146	0.6640
104	PCB_147_149	3.2574
105	PCB_148	0.0104
106	PCB_150	0.0109
107	PCB_152	0.0091
108	PCB_153_168	3.7002
109	PCB_154	0.0770
110	PCB_155	0.0004
111	PCB_156_57	0.5787
112	PCB_158	0.5842

End-Member raw compositions for iteration 2

EM 6

113	PCB_159	0.0000
114	PCB_160	0.0107
115	PCB_164	0.2576
116	PCB_165	0.0001
117	PCB_167	0.1491
118	PCB_169	0.0004
119	PCB_170	0.1991
120	PCB_171_173	0.1285
121	PCB_172	0.0377
122	PCB_174	0.2089
123	PCB_175	0.0176
124	PCB_176	0.0535
125	PCB_177	0.2174
126	PCB_178	0.0842
127	PCB_179	0.1348

128	PCB_180_193	0.2961
129	PCB_181	0.0105
130	PCB_182	0.0000
131	PCB_183_185	0.2337
132	PCB_184	0.0006
133	PCB_186	0.0003
134	PCB_187	0.4390
135	PCB_188	0.0007
136	PCB_189	0.0121
137	PCB_190	0.0295
138	PCB_191	0.0103
139	PCB_192	0.0000
140	PCB_194	0.0037
141	PCB_195	0.0100
142	PCB_196	0.0121
143	PCB_197_200	0.0087
144	PCB_198_199	0.0192
145	PCB_201	0.0090
146	PCB_202	0.0097
147	PCB_203	0.0223
148	PCB_204	0.0000
149	PCB_205	0.0019
150	PCB_206	0.0082
151	PCB_207	0.0012
152	PCB_208	0.0023
153	PCB_209	0.0014

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4	EM 5
1	1-WS-5	0.0646	-0.0142	0.7463	0.1053	0.0178
2	2-WS-2	-0.0625	0.4167	-0.0012	-0.0226	0.1690
3	2-WS-6	0.0514	0.6802	0.0450	0.1633	0.0087
4	3-WS-3	0.1443	-0.0097	0.0461	0.1410	0.6478
5	4-WS-5	0.1425	0.0106	0.0427	0.7833	-0.0034
6	5-WS-4	0.1429	-0.0077	0.0479	0.1549	0.0130
7	6-WS-2	0.2941	0.1529	0.0307	0.3339	0.1764
8	7-WS-2	0.7585	0.0149	0.0420	0.1670	0.0047

MIXING PROPORTIONS

	Sample	EM 6
1	1-WS-5	0.0802
2	2-WS-2	0.5007
3	2-WS-6	0.0513
4	3-WS-3	0.0304
5	4-WS-5	0.0241
6	5-WS-4	0.6490
7	6-WS-2	0.0119
8	7-WS-2	0.0129

**********ITERATION 3**********

End-Member raw compositions for iteration 3

		EM 1	EM 2	EM 3	EM 4	EM 5
1	PCB_1	0.0018	0.0045	0.0021	0.0074	0.0248
2	PCB_2	0.0001	0.0000	0.0000	0.0000	0.0001
3	PCB_3	0.0000	0.0002	0.0000	0.0003	0.0007
4	PCB_4	0.3024	0.0306	0.0000	0.0996	0.3994
5	PCB_5	0.0000	0.0003	0.0000	0.0000	0.0018
6	PCB_6	0.0448	0.0032	0.0047	0.0102	0.0630
7	PCB_7	0.0054	0.0013	0.0011	0.0014	0.0087
8	PCB_8	0.0651	0.0536	0.0170	0.0161	0.1985
9	PCB_9	0.0108	0.0020	0.0012	0.0017	0.0160
10	PCB_10	0.0349	0.0014	0.0000	0.0104	0.0402
11	PCB_11	0.0313	0.0000	0.0000	0.0000	0.0128
12	PCB_12_13	0.0101	0.0000	0.0000	0.0031	0.0030
13	PCB_14	0.0000	0.0000	0.0000	0.0078	0.0000

14	PCB_15	0.0074	0.0012	0.0071	0.0021	0.0150
15	PCB_16	0.1532	0.0000	0.0613	0.0303	0.1329
16	PCB_17	1.1739	0.0000	0.0000	0.2934	0.4816
17	PCB_18_30	0.6491	0.0000	0.0978	0.0571	0.2468
18	PCB_19	0.6133	0.0330	0.0000	0.1079	0.3904
19	PCB_20_28	1.1238	0.0000	0.3749	0.4405	0.9085
20	PCB_21_33	0.1059	0.0000	0.0670	0.0190	0.0931
21	PCB_22	0.1543	0.0000	0.0850	0.0387	0.1622
22	PCB_23	0.0016	0.0000	0.0000	0.0002	0.0007
23	PCB_24	0.2190	0.0000	0.0131	0.0729	0.0911
24	PCB_26_29	0.9483	0.0000	0.0000	0.2070	0.0343
25	PCB_27	1.4433	0.0000	0.0000	0.3458	0.1801
26	PCB_31	0.4411	0.0000	0.1692	0.0330	0.3230
27	PCB_32	0.8821	0.0000	0.0172	0.2300	0.3901
28	PCB_34	0.0159	0.0000	0.0000	0.0057	0.0066
29	PCB_35	0.0003	0.0004	0.0000	0.0002	0.0002
30	PCB_37	0.0225	0.0000	0.0000	0.0156	0.0415
31	PCB_38	0.0029	0.0000	0.0000	0.0034	0.0000
32	PCB_39	0.0019	0.0006	0.0030	0.0016	0.0028
33	PCB_40_41_71	1.8566	0.0000	0.5022	1.2766	0.3217
34	PCB_42	1.0095	0.0000	0.2940	0.5842	0.3431
35	PCB_43	0.0026	0.0000	0.0261	0.0922	0.0156
36	PCB_44_47_65	5.9933	0.4793	0.7158	3.9638	1.8818
37	PCB_45_51	1.5848	0.0000	0.1207	0.5853	0.2255
38	PCB_46	0.4575	0.0000	0.0527	0.1092	0.0033
39	PCB_48	0.1587	0.0111	0.1451	0.0483	0.1102
40	PCB_49_69	7.0883	0.0000	0.0000	4.4430	0.5428
41	PCB_50_53	2.4053	0.0000	0.0000	0.7431	0.0000
42	PCB_52	5.1983	0.6960	1.1054	1.3652	0.4422
43	PCB_54	0.0907	0.0021	0.0000	0.0127	0.0155
44	PCB_55	0.2342	0.1280	0.3167	0.1580	0.2972
45	PCB_57	0.0430	0.0000	0.0000	0.0778	0.0038
46	PCB_58	0.0387	0.0000	0.0021	0.0269	0.0049
47	PCB_59_62_75	0.6686	0.0000	0.0381	0.3177	0.0000
48	PCB_60	0.1177	0.0593	0.2205	0.0951	0.1976
49	PCB_61_70_74_76	2.2059	2.2775	1.5501	1.1246	2.2840
50	PCB_63	0.0992	0.0155	0.0294	0.1038	0.0905
51	PCB_64	1.2641	0.0000	0.6346	0.7144	0.6329
52	PCB_66	1.6199	0.5131	0.8259	1.9632	1.7125
53	PCB_67	0.0407	0.0000	0.0081	0.0202	0.0163
54	PCB_68	0.1792	0.0000	0.0000	0.2170	0.0363
55	PCB_72	0.2707	0.0000	0.0000	0.2447	0.0000
56	PCB_77	0.0397	0.0000	0.0808	0.0274	0.0391

End-Member raw compositions for iteration 3

		EM 1	EM 2	EM 3	EM 4	EM 5
57	PCB_78	0.0174	0.0000	0.0347	0.0000	0.0304
58	PCB_79	0.0109	0.0338	0.0960	0.0801	0.0864
59	PCB_81	0.0009	0.0030	0.0232	0.0061	0.0029
60	PCB_82	0.4034	0.9178	0.5436	0.4578	0.8006
61	PCB_83	0.4478	0.1293	0.1214	0.3100	0.2207
62	PCB_84	1.6809	1.1192	1.1137	1.0303	0.9765
63	PCB_85_117_116	0.5116	1.4156	1.0178	1.4649	1.6053
64	Coplanar1	3.3872	5.9047	2.8927	4.7214	4.4471
65	PCB_88_91	1.4078	0.5373	0.9342	1.3953	1.1690
66	PCB_89	0.0288	0.0313	0.0671	0.0271	0.0363
67	PCB_90_101_113	5.6166	7.7365	4.9207	6.5706	6.4239
68	PCB_92	1.6767	0.6976	0.8345	1.5501	1.2857
69	Coplanar2	0.4225	0.1626	0.1647	0.3702	0.3197
70	PCB_94	0.1121	0.0183	0.0024	0.0651	0.0541
71	PCB_95	5.1745	2.5056	3.9555	3.6844	1.4242
72	PCB_96	0.1093	0.0000	0.0164	0.0523	0.0033
73	PCB_99	2.9548	4.4173	2.6867	5.8879	3.8427
74	PCB_103	0.1500	0.0000	0.0127	0.1241	0.0426
75	PCB_104	0.0053	0.0007	0.0000	0.0036	0.0007
76	PCB_105	1.1662	3.8964	1.3158	1.5417	3.0332
77	PCB_107_124	0.1071	0.4146	0.1715	0.1393	0.3105
78	PCB_109	0.1796	0.5101	0.2184	0.6913	0.5621
79	PCB_110_115	7.2166	8.6777	7.3663	9.6884	7.0728
80	PCB_111	0.0074	0.0000	0.0000	0.0217	0.0005
81	PCB_114	0.0593	0.2782	0.0708	0.0881	0.2533

82	PCB_118	4.7472	11.8119	3.1787	5.9638	7.4323
83	PCB_120	0.0331	0.0000	0.0036	0.0742	0.0081
84	PCB_121	0.0042	0.0000	0.0000	0.0082	0.0007
85	PCB_122	0.0372	0.0944	0.0506	0.0329	0.0653
86	PCB_123	0.1648	0.2955	0.0866	0.1334	0.4371
87	PCB_126	0.0036	0.0577	0.0821	0.0186	0.0196
88	PCB_127	0.0085	0.0282	0.0093	0.0175	0.0167
89	PCB_128_166	0.7371	2.3878	1.4480	1.1475	1.6594
90	PCB_129_138_163	4.7347	12.5879	10.4640	7.6931	11.2812
91	PCB_130	0.3289	0.7363	0.4591	0.3836	0.6211
92	PCB_131	0.0536	0.1842	0.1071	0.0969	0.1559
93	PCB_132	1.2868	1.7559	2.5903	2.0372	1.1273
94	PCB_133	0.0817	0.0869	0.1175	0.1440	0.1171
95	PCB_134_143	0.3053	0.2669	0.2706	0.2004	0.2716
96	PCB_135_151	1.3881	0.7866	2.7248	1.6833	1.9440
97	PCB_136	0.5547	0.3468	0.6083	0.6298	0.5394
98	PCB_137	0.2466	0.8111	0.4202	0.4729	0.8507
99	PCB_139_140	0.0855	0.2383	0.1378	0.1870	0.2830
100	PCB_141	0.3921	1.3155	1.3061	0.6636	1.1254
101	PCB_142	0.0000	0.3036	0.4490	0.2992	0.4290
102	PCB_145	0.0016	0.0029	0.0028	0.0031	0.0032
103	PCB_146	0.6331	1.0919	1.5482	1.2225	1.3432
104	PCB_147_149	3.0992	4.6533	7.0881	3.8729	4.7580
105	PCB_148	0.0058	0.0039	0.0065	0.0119	0.0091
106	PCB_150	0.0066	0.0044	0.0055	0.0131	0.0080
107	PCB_152	0.0065	0.0042	0.0039	0.0080	0.0057
108	PCB_153_168	3.2765	7.6720	8.1211	6.0439	7.7676
109	PCB_154	0.0528	0.0515	0.0606	0.0881	0.0877
110	PCB_155	0.0002	0.0002	0.0000	0.0006	0.0002
111	PCB_156_57	0.3580	1.9023	0.6114	0.7849	1.6142
112	PCB_158	0.4629	1.3980	0.8979	0.8224	1.2212

End-Member raw compositions for iteration 3

		EM 1	EM 2	EM 3	EM 4	EM 5
113	PCB_159	0.0000	0.0000	0.0572	0.0000	0.0177
114	PCB_160	0.0209	0.0499	0.0805	0.0084	0.0400
115	PCB_164	0.2503	0.7627	0.7041	0.4204	0.6073
116	PCB_165	0.0033	0.0011	0.0010	0.0109	0.0000
117	PCB_167	0.0999	0.5965	0.3020	0.2564	0.4323
118	PCB_169	0.0009	0.0003	0.0038	0.0012	0.0008
119	PCB_170	0.1397	0.9277	1.3024	0.4612	0.7944
120	PCB_171_173	0.1457	0.2810	0.5595	0.1895	0.2962
121	PCB_172	0.0000	0.1209	0.3393	0.0977	0.1512
122	PCB_174	0.2729	0.2876	1.5444	0.1881	0.3775
123	PCB_175	0.0166	0.0242	0.0885	0.0222	0.0349
124	PCB_176	0.0527	0.0466	0.2456	0.0663	0.0883
125	PCB_177	0.2208	0.2536	1.1554	0.1987	0.3564
126	PCB_178	0.0746	0.0365	0.5327	0.0971	0.1038
127	PCB_179	0.1350	0.0383	0.7383	0.1341	0.1606
128	PCB_180_193	0.0000	1.0206	3.4684	1.0912	1.3594
129	PCB_181	0.0066	0.0287	0.0205	0.0142	0.0241
130	PCB_182	0.0000	0.0089	0.0008	0.0001	0.0000
131	PCB_183_185	0.3053	0.3313	1.5793	0.3822	0.5505
132	PCB_184	0.0005	0.0008	0.0000	0.0008	0.0008
133	PCB_186	0.0002	0.0004	0.0028	0.0002	0.0003
134	PCB_187	0.3261	0.1499	5.3191	0.7954	1.2233
135	PCB_188	0.0004	0.0007	0.0034	0.0007	0.0008
136	PCB_189	0.0108	0.0440	0.0470	0.0271	0.0435
137	PCB_190	0.0000	0.0913	0.1972	0.0584	0.0997
138	PCB_191	0.0000	0.0364	0.0679	0.0272	0.0401
139	PCB_192	0.6953	0.0000	0.0000	0.0000	0.0000
140	PCB_194	0.0232	0.0708	0.2596	0.0575	0.0902
141	PCB_195	0.0136	0.0273	0.1760	0.0337	0.0537
142	PCB_196	0.0081	0.0321	0.2544	0.0490	0.0666
143	PCB_197_200	0.0086	0.0025	0.1157	0.0154	0.0171
144	PCB_198_199	0.0000	0.0430	0.5631	0.0776	0.0994
145	PCB_201	0.0110	0.0032	0.1206	0.0125	0.0159
146	PCB_202	0.0090	0.0051	0.1639	0.0101	0.0134
147	PCB_203	0.0097	0.0448	0.4854	0.0739	0.1138
148	PCB_204	0.0000	0.0000	0.0029	0.0000	0.0000
149	PCB_205	0.0029	0.0028	0.0266	0.0046	0.0076

150	PCB_206	0.0238	0.0197	0.2106	0.0069	0.0192
151	PCB_207	0.0029	0.0027	0.0257	0.0013	0.0023
152	PCB_208	0.0088	0.0039	0.0804	0.0000	0.0021
153	PCB_209	0.0149	0.0004	0.1230	0.0000	0.0000

End-Member raw compositions for iteration 3
EM 6

1	PCB_1	0.0112
2	PCB_2	0.0001
3	PCB_3	0.0003
4	PCB_4	0.2260
5	PCB_5	0.0009
6	PCB_6	0.0291
7	PCB_7	0.0038
8	PCB_8	0.0859
9	PCB_9	0.0065
10	PCB_10	0.0241
11	PCB_11	0.0105
12	PCB_12_13	0.0052
13	PCB_14	0.0094
14	PCB_15	0.0060
15	PCB_16	0.1029
16	PCB_17	0.5974
17	PCB_18_30	0.3487
18	PCB_19	0.2838
19	PCB_20_28	0.6583
20	PCB_21_33	0.0445
21	PCB_22	0.0780
22	PCB_23	0.0004
23	PCB_24	0.1554
24	PCB_26_29	0.4411
25	PCB_27	0.8093
26	PCB_31	0.2719
27	PCB_32	0.3845
28	PCB_34	0.0082
29	PCB_35	0.0000
30	PCB_37	0.0212
31	PCB_38	0.0029
32	PCB_39	0.0014
33	PCB_40_41_71	1.4368
34	PCB_42	0.8957
35	PCB_43	0.1567
36	PCB_44_47_65	5.5613
37	PCB_45_51	0.9870
38	PCB_46	0.2627
39	PCB_48	0.1204
40	PCB_49_69	6.0315
41	PCB_50_53	1.5253
42	PCB_52	3.2424
43	PCB_54	0.0448
44	PCB_55	0.2564
45	PCB_57	0.0369
46	PCB_58	0.0286
47	PCB_59_62_75	0.5215
48	PCB_60	0.1216
49	PCB_61_70_74_76	1.9925
50	PCB_63	0.1086
51	PCB_64	1.0183
52	PCB_66	1.7982
53	PCB_67	0.0391
54	PCB_68	0.1776
55	PCB_72	0.2145
56	PCB_77	0.0432

End-Member raw compositions for iteration 3
EM 6

57	PCB_78	0.0000
58	PCB_79	0.0055
59	PCB_81	0.0025
60	PCB_82	0.5687
61	PCB_83	0.4965

62	PCB_84	1.7963
63	PCB_85_117_116	1.2048
64	Coplanar1	4.7588
65	PCB_88_91	1.4734
66	PCB_89	0.0369
67	PCB_90_101_113	6.4570
68	PCB_92	1.7434
69	Coplanar2	0.4938
70	PCB_94	0.1188
71	PCB_95	4.8306
72	PCB_96	0.0908
73	PCB_99	4.9229
74	PCB_103	0.1484
75	PCB_104	0.0044
76	PCB_105	1.6569
77	PCB_107_124	0.1540
78	PCB_109	0.5334
79	PCB_110_115	9.2919
80	PCB_111	0.0094
81	PCB_114	0.1138
82	PCB_118	4.4836
83	PCB_120	0.0342
84	PCB_121	0.0057
85	PCB_122	0.0537
86	PCB_123	0.0726
87	PCB_126	0.0403
88	PCB_127	0.0001
89	PCB_128_166	0.8604
90	PCB_129_138_163	5.9423
91	PCB_130	0.3553
92	PCB_131	0.0624
93	PCB_132	0.5497
94	PCB_133	0.1046
95	PCB_134_143	0.3146
96	PCB_135_151	1.7171
97	PCB_136	0.7041
98	PCB_137	0.3989
99	PCB_139_140	0.1232
100	PCB_141	0.3628
101	PCB_142	0.2221
102	PCB_145	0.0029
103	PCB_146	0.6531
104	PCB_147_149	3.2422
105	PCB_148	0.0106
106	PCB_150	0.0111
107	PCB_152	0.0092
108	PCB_153_168	3.6584
109	PCB_154	0.0776
110	PCB_155	0.0004
111	PCB_156_57	0.5781
112	PCB_158	0.5818

End-Member raw compositions for iteration 3

EM 6

113	PCB_159	0.0000
114	PCB_160	0.0101
115	PCB_164	0.2537
116	PCB_165	0.0000
117	PCB_167	0.1481
118	PCB_169	0.0003
119	PCB_170	0.1939
120	PCB_171_173	0.1257
121	PCB_172	0.0387
122	PCB_174	0.2045
123	PCB_175	0.0174
124	PCB_176	0.0529
125	PCB_177	0.2155
126	PCB_178	0.0838
127	PCB_179	0.1338
128	PCB_180_193	0.3051
129	PCB_181	0.0105

130	PCB_182	0.0000
131	PCB_183_185	0.2258
132	PCB_184	0.0006
133	PCB_186	0.0003
134	PCB_187	0.4280
135	PCB_188	0.0007
136	PCB_189	0.0118
137	PCB_190	0.0297
138	PCB_191	0.0106
139	PCB_192	0.0000
140	PCB_194	0.0016
141	PCB_195	0.0091
142	PCB_196	0.0112
143	PCB_197_200	0.0085
144	PCB_198_199	0.0184
145	PCB_201	0.0087
146	PCB_202	0.0096
147	PCB_203	0.0211
148	PCB_204	0.0000
149	PCB_205	0.0017
150	PCB_206	0.0074
151	PCB_207	0.0011
152	PCB_208	0.0021
153	PCB_209	0.0010

MIXING PROPORTIONS

	Sample	EM 1	EM 2	EM 3	EM 4	EM 5
1	1-WS-5	0.0583	-0.0148	0.7568	0.0776	0.0229
2	2-WS-2	-0.0497	0.4128	-0.0016	-0.0202	0.1755
3	2-WS-6	0.0430	0.6822	0.0436	0.1564	0.0181
4	3-WS-3	0.1633	-0.0091	0.0441	0.1304	0.6348
5	4-WS-5	0.1630	0.0225	0.0398	0.7545	-0.0058
6	5-WS-4	0.1642	-0.0050	0.0472	0.1565	0.0179
7	6-WS-2	0.2989	0.1610	0.0274	0.3242	0.1743
8	7-WS-2	0.7446	0.0302	0.0367	0.1756	0.0057

MIXING PROPORTIONS

	Sample	EM 6
1	1-WS-5	0.0991
2	2-WS-2	0.4832
3	2-WS-6	0.0567
4	3-WS-3	0.0365
5	4-WS-5	0.0261
6	5-WS-4	0.6193
7	6-WS-2	0.0141
8	7-WS-2	0.0072

****
In the DENEG subroutine, it was found that none of the proportions
were less than -0.05000, hence, the DENEG process was not continued
****

NORMAL END OF JOB

A1. QUALITY ASSURANCE PROJECT PLAN
FOR
CORNELL-DUBILIER BOUND BROOK REASSESSMENT
SOUTH PLAINFIELD, NEW JERSEY

U.S. EPA Work Assignment No.: 0-360
Lockheed Martin Work Order No.: EAC00360
U.S. EPA Contract No.: EP-C-04-032

Prepared For:
United States Environmental Protection Agency/Environmental Response Team
Edison, NJ

October 3, 2008

Approved By:

REAC Task Leader	Date 12/2/08
REAC Group Leader	Date 10/8/08
REAC Quality Assurance Officer	Date 10/3/08
REAC Program Manager	Date 10/3/08
U.S. EPA Work Assignment Manager	Date 12/1/08

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A. PROJECT MANAGEMENT

This Quality Assurance Project Plan (QAPP) was prepared in accordance with *EPA Requirements for Quality Assurance Project Plans (QAPPs)*, *EPA QA/R5*, and the *Response, Engineering, and Analytical Contract (REAC) Program QAPP*. This QAPP follows the graded approach outlined in the Uniform Federal Policy (UFP) – QAPP.

A3. DISTRIBUTION LIST

The following personnel will receive copies of the approved QAPP for the Cornell-Dubilier Bound Brook Reassessment, Work Assignment (WA) No. 0-360.

1. Mark Sprenger, Environmental Protection Agency/Environmental Response Team (EPA/ERT) Work Assignment Manager (WAM)
2. Larry A. Lyons, REAC Task Leader (TL)/Quality Control (QC) Coordinator
3. Dennis Miller, REAC Program Manager
4. Deborah Killeen, REAC Quality Assurance Officer (QAO)
5. Cindy Kleiman, REAC Biology Group Leader

A4. PROJECT ORGANIZATION

The following individuals will participate in the project:

<u>EPA/ERT</u>
Mark Sprenger – WAM
Stephen Blaze - Quality Assurance (QA) Coordinator

<u>REAC</u>
Larry A. Lyons - TL/QC Coordinator
Erica Wentz – Environmental Technician
John Johnson – Analytical Subcontracting Representative
Deborah Killeen – QAO/Validation Oversight
Cindy Kleiman – Document Review
To be determined - Data Validation and Report Writing

Crayfish, sunfish (pumpkinseed) and carp will be collected by REAC personnel. Tissue samples of these biota will be processed (homogenized) and analyzed by Pace Analytical Services, Inc. in Minneapolis, Minnesota (MN) for Aroclor analysis, polychlorinated biphenyl (PCB) congeners, percent (%) solids, % lipids and lipid fractionization. A wildlife survey of the Bound Brook system will be subcontracted to Stantec, Inc. The survey will be used for defining the receptors that could be potentially exposed to site contaminants for an ecological risk assessment (ERA).

The REAC TL/QC Coordinator for the project is the primary point of contact with the EPA/ERT WAM. The TL is responsible for the completion of the Work Plan (WP) and QAPP, project team organization and supervision of all project tasks, including reporting and deliverables.

A5. PROBLEM DEFINITION/BACKGROUND

The Cornell-Dubilier site was a capacitor manufacturing facility using PCBs. Releases of contaminants including PCBs into Bound Brook have been previously documented in the 1999 ERT final report titled "Ecological Evaluation". A review of this historical data indicates that crayfish, pumpkinseed (finfish) and carp accumulate PCBs effectively. Aroclor 1248 and Aroclor 1254 have been previously identified at the site. In addition, recent sediment sampling performed by EPA Region II indicates that PCB contamination associated with the site has not declined within Bound Brook over the past 10 years.

A6. PROJECT DESCRIPTION AND SCHEDULE

Crayfish, pumpkinseed, and carp will be collected at seven sampling locations within the Bound Brook system and will be analyzed for PCB Aroclors along with % solids and % lipids. One composite of each type of fish will be analyzed for PCB congeners. The crayfish will be collected using traps and transported back to the ERT/REAC Biology Laboratory for a depuration period. Following a 12- to 24-hour depuration period, the crayfish will be measured, weighed, composited and frozen until the tissue samples are homogenized and analyzed. The fish (carp and pumpkinseed) will be collected using electroshocker equipment and will be measured, weighed, and frozen until the tissue samples are Homogenized and analyzed. Sampling will be conducted by REAC personnel. Homogenization of tissue and analyses will be performed by the outside laboratory

Concentrations of the Aroclors and PCB congeners will be used to assess the current PCB levels in the biota and establish baseline concentrations of PCBs in the Bound Brook system. The data will also be used to provide a fingerprint of the PCBs within the Bound Brook system. In addition an inventory of ecological receptors that actually utilize or inhabit the Bound Brook system will be defined by wildlife specialists (subcontracted to Stantec, Inc.) The wildlife survey will be utilized to define the receptors potentially being exposed to site contaminants for ERA.

The schedule of activities and reports is as follows:

WP	September 26, 2008
HASP	September 19, 2008
Final QAPP	October 3, 2008
Field Work	Weeks of September 22 and 29, 2008
Trip Report	Two weeks following completion of field work
Final Analytical Report	Two weeks after receipt of last data package
Draft Data Summary Report	Two weeks following receipt of validated results
Final Summary Report	Two weeks following review of draft summary report
Final Report	TBD

A7. DATA QUALITY OBJECTIVES AND CRITERIA FOR MEASUREMENT OF DATA

Aroclor and PCB congener concentrations in the crayfish, pumpkinseed and carp within the Bound Brook system will be evaluated to establish baseline concentrations of PCBs. The wildlife survey will assist in establishing the receptors that could be potentially exposed to the PCBs. An ERA will compile the site contaminant data within the biota and assess the potential risk of wildlife that exists or could utilize the Bound Brook system. Ecological risk will be determined using computer-based models to determine the no observed adverse effect level (NOAEL) and the lowest observed adverse effect level (LOAEL) for PCBs. The models will incorporate toxicity reference values (TRVs) and dietary ingestion rates for various wildlife receptors determined to be present on site for these calculations.

Data categories (DCs) corresponding to the data use objectives required for successful completion of this WA are summarized in Table 1, *Field Sampling Summary* and Table 2, *QA/QC Analyses and Data Categories Summary*. One of the three DCs based on the Superfund Data Categories described by the 1993 Office of Solid Waste and Emergency Response (OSWER), Office of Emergency and Remedial Response (OERR) Directive, will be used for this WA and are described below.

Definitive data (DD) will be used for data collection activities that require a high level of accuracy using EPA or other industry-recognized methods. For the data to be definitive, either total measurement error or analytical error must be determined. The following requirements for DD are applicable for the analysis of PCBs as Aroclors, PCB congeners, percent (%) lipids and lipid fractionization in tissue samples:

- Sample documentation in the form of field logbooks, the appropriate field data sheets, and chain of custody forms will be provided.
- All instrument calibration and/or performance check procedures/methods will be summarized and documented in the field/personal or instrument log notebook.
- Detection limit(s) will be determined and documented, along with the data, where appropriate.
- Sample holding times will be documented; this includes documentation of sample collection and analysis dates.
- Initial and continuing instrument calibration data will be provided.
- Rinsate blanks, field blanks, collocated samples, trip blanks, duplicate samples, and matrix spikes will be included at the frequency specified in the QA tables in REAC SOP #4016, *Preparation of Work Plans for REAC Activations* depending on the matrix.
- Performance Evaluation (PE) samples are optional.
- Analyte identification will be confirmed on 100% of the samples by analytical methods associated with definitive data.
- Quantitation results for all samples will be provided.
- Analytical or total measurement error must be determined on 100% of the samples.

  - **Analytical error** determination measures the precision of the analytical method. At a minimum, two replicate aliquots are taken from a thoroughly homogenized sample or two media blanks, prepared and analyzed in accordance with the method, calculated and compared to method-specific performance criteria.
  - **Total measurement error** is determined from independently collected samples from the same location and analyzed by analytical methods associated with definitive data. Quality control parameters such as the mean, variance, and coefficient of variation is calculated and compared to established measurement criteria.

The data use categories are based on the Data Quality Indicators (DQIs) used to determine the acceptability or usability of the data. Two DQIs used in the laboratory measurement process that will be evaluated during the validation procedure are precision and accuracy.

- Precision is a measure of agreement between replicate measurements under similar conditions and may be expressed as Relative Percent Difference (RPD). In the REAC Laboratory, the RPD will be calculated between a matrix spike (MS) and matrix spike duplicate (MSD). A Percent Difference (%D) or RPD may be calculated between the results of a sample and a field duplicate sample after the measurement process is complete.

- Accuracy is a measure of the agreement between an observed value and an accepted reference value. This will be determined by analyzing a known reference material or a sample to which a specific amount of a known reference material has been added to. Accuracy will be expressed as Percent Recovery (%R). Since accuracy takes into account the effects of variability (precision), accuracy is a combination of bias and precision.

A8. TRAINING AND CERTIFICATION

All REAC field personnel involved with sampling activities shall have the following documented training:

- Occupational Safety and Health Administration (OSHA) 40-hour and 8-hour refresher in Hazardous Waste Operations (29 CFR 1910.120)
- Department of Transportation (DOT) Hazardous Material Shipping
- First Aid and Cardiopulmonary Resuscitation (CPR) training (at least one team member)
- Supervisor Training, 8-hour (20 CFR 1910.120 E4), for those in charge of field activities

It will be the responsibility of the outside laboratory to maintain a valid demonstration of capability (DOC) for the analyst(s) performing the Aroclor and PCB congener analyses.

A9. DOCUMENTS AND RECORDS

The REAC Program QAPP serves as the basis for this site-specific QAPP. The most current approved version of the QAPP is available to all REAC technical personnel as an uncontrolled copy on the REAC local area network (LAN). All observations noted during field efforts, if any, will be documented in accordance with REAC Standard Operating Procedures (SOPs) #4001, *Logbook Documentation and SOP #2002, Sample Documentation.* Documents and records that will be generated during this project include:

- WP
- QAPP
- HASP
- Projected Work Assignment (PWA)
- Chain of Custody Records
- Trip Report
- Data Validation Records
- Final Analytical Report
- Field Change Form, if required
- Custody Seals
- Draft Summary Report
- Final Summary Report
- Data Assessment Forms
- Data Reduction Records
- Final Report

The Final Report will provide a description of the project, sampling and laboratory procedures and difficulties encountered. Documents will be prepared in accordance with the following REAC SOPs:

REAC SOP #4005	*Chain of Custody Procedures*
REAC SOP #4006	*Preparation of Quality Assurance Project Plans (QAPPs)*
REAC SOP #4016	*Preparation of Work Plans for REAC Activations*
REAC SOP #4019	*Preparation of Preliminary Reports*
REAC SOP #4020	*Analytical Report Preparation*
REAC SOP #4021	*Preparation of Final Reports*
REAC SOP #4022	*Preparation of Tables*
REAC SOP #4023	*Preparation of Figures*
REAC SOP #4024	*Preparation of Appendices*
REAC SOP #4025	*Use and Format of References and Source Material in Reports and Tables*
REAC SOP #4026	*Use of Numbers in REAC Documents*

B. DATA GENERATION AND ACQUISITION

B1. SAMPLING PLAN DESIGN

Seven sampling locations will be incorporated into the study design, as follows:

1) Reference location upstream of the site within Bound Brook
2) Bound Brook adjacent to the site
3) Downstream of the site between the R&R culverts
4) Below the confluence of Bound Brook and Cedar Brook
5) At the Clinton Avenue Crossing
6) New Market Pond
7) Spring Lake

Any modifications to the expected sampling plan will be documented on a WA Field Change Form and reflected in an amendment to the QAPP.

B2. SAMPLING METHODS

Crayfish Sampling. Crayfish will be collected at each sampling location using crayfish traps. At least five traps will be baited and placed at each sampling location. The traps will be checked on a daily basis. Five composite samples each comprised of five individuals will be collected and analyzed for each location for a total of 175 crayfish. The crayfish will be brought back to the ERT/REAC Biology Laboratory for a 12- to 24-hour depuration period. Following depuration, the crayfish will be measured and weighed, composited into the five samples and frozen at minus (-) 20 degrees Celsius (°C) until the tissue samples are processed for homogenization.

Pumpkinseed Sampling. Pumpkinseeds will be collected at each sampling location using fish electroshocking equipment. A barge electroshocker will be used for the fish collecting in Bound Brook and a boat electroshocker will be used for the sampling in Spring Lake and New Market Pond. A target of five individuals of similar size will be collected for each of the five composite samples at each location for a total of 175 fish. Each pumpkinseed will be measured and weighed. The fish will then be composited at each location and the composite sample will be weighed and frozen at -20°C until the tissue samples are processed for homogenization.

Carp Sampling. Carp will be collected at each sampling location at the same time as the pumpkinseed using fish electroshocking equipment. A target of eight individual carp will be collected from each sampling location for a total of 56 carp. Each carp will be measured, weighed and frozen at -20°C until the tissue samples are processed for homogenization.

Global Positioning System (GPS) Data Collection. Positional data will be collected at each sampling location using a Trimble TSC Surveyor. Real-time data will be collected, collecting a minimum of 60 data points at each sample locations. Geographic information will be used for visual representation of data in site maps.

Sample Volume, Container, Preservation, and Holding Time Requirements. Collecting sufficient sample volume and mass is critical for the analysis of required parameters and the completion of QC determinations, and is dictated by the analytical method and the sample matrix. These activities will follow REAC SOP #2003, *Sample Storage, Preservation, and Handling*. Appropriate volumes, preservation and holding times for the analyses and matrices outlined in the scope of work are summarized in Table 1. The holding time for PCB Aroclors is 14 days for extraction once the tissue samples are homogenized and 40 days for PCB Aroclor analyses. There are no demonstrated holding times associated with PCB congeners in tissue matrices. All tissue samples will be kept at -20ºC until homogenized and analyzed.

Sampling Equipment Decontamination. Removing or neutralizing contaminants from equipment, or using new/different equipment between sampling locations, minimizes the likelihood of sample cross contamination, reduces or eliminates transfer of contaminants to clean areas, and prevents the mixing of incompatible substances. New equipment (e.g., trowels, scrub brushes) will be used at each sampling location, or decontamination of sampling equipment will be performed between each sampling location either at the sampling location, prior to leaving for the sampling site, or in designated areas on the site. Decontamination procedures will follow REAC SOP #2006, *Sampling Equipment Decontamination*.

B3. SAMPLE HANDLING AND CUSTODY

Each sample collected will receive a unique identifier indicative of the location from which it will be collected. COC records will be used to document the collection of all samples. The chain of custody summarizes and identifies the sampling date, media and volume collected, analyses to be conducted, and sample custodian. Chain of custody records will be generated for each shipping cooler. All chain of custody records will receive a peer review in the field prior to shipment of the samples in accordance with REAC SOP #4005, *Chain of Custody Procedures*. At least two custody seals will be placed across the shipping containers to ensure sample integrity. The samples collected by REAC personnel will be shipped to the ERT/REAC Laboratory or to the appropriate subcontract laboratory for analysis in accordance with REAC SOP #2004, *Sample Packaging and Shipment.*

Tissue Processing and Analytical Determinations. All tissue samples will be homogenized and analyzed by Pace Analytical Services, Inc. as follows:

Crayfish. Before homogenization, each composite sample will be weighed and then homogenized using stainless steel blenders. Each homogenized composite sample will be kept frozen at -20°C until the samples are analyzed for Aroclor determinations, percent (%) solids, % lipids and lipid fractionization. In addition, one composite sample from each sampling location will be analyzed for PCB congeners.

Pumpkinseed Filets and Carcasses. Each composite sample will be thawed. Each individual fish from each composite sample will be weighed and the left side of each fish will be filleted. The filet and the remainder of the carcass will be weighed for each individual fish. The composite sample of all filets and the composite sample of all carcasses will also be weighed and then homogenized using stainless steel blenders. All homogenized tissue samples will be kept frozen at -20°C until the samples are analyzed for Aroclor determinations, % solids and % lipids. In addition, one composite filet and one composite carcass sample from each sampling location will be analyzed for PCB congeners.

Carp Filets and Carcasses. Each individual carp will be thawed, weighed, and the left side of each fish will be filleted. The filet will be weighed and the remainder of the carcass will be weighed for each individual carp. Each filet and each carcass sample will be homogenized separately using stainless steel blenders. All homogenized tissue samples will be kept frozen at -20°C until the samples are analyzed. Each filet and carcass sample will be analyzed for Aroclor determinations, % solids and % lipids. In addition, one filet and one carcass sample from each sampling location will be analyzed for PCB congeners.

B4. ANALYTICAL METHODS

- EPA Method SW-846-1668A for the 209 PCB Congeners
- EPA Method SW-846-8082 for PCB Aroclor Analysis
- Bligh & Dyer (1959), A rapid method of total lipid extraction and purification

B5. QUALITY CONTROL

Field QC samples are designed to assess the variability of the matrix or medium being sampled and to detect contamination and sampling error in the field. No additional field QC samples will be collected for this project since five composite samples comprised of five individuals will be collected and analyzed for each location. Sufficient mass will be collected for the matrix spike/matrix spike duplicate (MS/MSD) analyses.

Laboratory QC samples are analyzed in the laboratory and are used to determine any matrix effects and to assess the performance of the laboratory. Laboratory quality control for PCBs will follow EPA Method 8082A and will include the following:

- MS/MSD samples will be analyzed for 5% of the samples collected
- One method blank (MB) will be analyzed every 12 hours
- One LCS per batch of 20 samples per matrix

The following QC samples will be analyzed for PCB congener analysis:

- Method blank at the frequency of one per batch not to exceed 20 samples of the same matrix
- QC Check Sample analyzed on a quarterly basis at a minimum

B6. INSTRUMENT/EQUIPMENT TESTING, INSPECTION, AND MAINTENANCE

The ability to generate data of known quality is dependent on the maintenance of equipment and analytical instrumentation on a routine and as needed basis. Preventive maintenance actions are taken to prevent instruments from failing during use, to ensure proper instrument performance, and to increase the reliability of the measurement

system. Typically, maintenance is initiated when the QC requirements of the method are not met, previous experience with the instrument indicates maintenance should be performed, manufacturer's recommendations, a schedule determined by each group, or prior to and after monitoring and sampling. Each piece of equipment and analytical instrument is assigned a preventive maintenance logbook. All maintenance activities are recorded in this logbook and include the following information: date of service, person/vendor performing the service, type of maintenance performed and the reason, parts replaced, and any other pertinent information. In addition, an ample supply of spare parts is maintained by each group to minimize downtime of the equipment/instruments. Each piece of equipment will be checked operationally prior to deployment.

It will be the responsibility of the outside laboratories to maintain all laboratory instrumentation that will be used for this project.

B7. INSTRUMENT/EQUIPMENT CALIBRATION AND FREQUENCY

Operational calibration is generally performed as part of the analytical procedure and is dependent upon the type of instrumentation. Typically, certified standards with certificates of analysis are used to prepare calibration standards for analytical instruments. The preparation of all reference standards for calibration follow the guidelines specified in REAC SOP #1012, *Preparation of Standard Solutions*. Preparation of a standard curve is accomplished by using calibration standards containing the species to be analyzed into a specific solvent mixture to be introduced into the instrument. The concentrations of the working standards are chosen to cover the working range of the instrument. The calibration curve is prepared by plotting instrument response versus the concentration of the standards. Concentrations of the samples analyzed are read directly from the calibration curve or determined by interpolation.

Instrument calibration typically consists of two types: initial calibration and continuing calibration. Initial calibration procedures establish the calibration range of the instrument and determine the instrument response over that range. The instrument response may be area counts, peak height, or absorbance, and is expressed as a % relative standard deviation (RSD) or a correlation coefficient. Continuing calibration measures the instrument response to a single calibration standard, and the response is compared with the initial calibration. Continuing calibration may be used as a single point within a 12 hour period, or every 10 samples, depending on the analyte to be measured.

Periodic calibration is performed on equipment required for analytical methods, but not routinely calibrated as part of the analytical procedure. Analytical balances are calibrated on an annual basis by an external agency. Balances are routinely calibrated using Class "S" weights that are purchased with a certificate of traceability. Class "S" weights are routinely calibrated every three years. Several National Institute of Standards and Technology (NIST) reference thermometers are used to calibrate the working thermometers in refrigerators, freezers, and ovens. Glass thermometers are compared with the NIST thermometers every 12 months. Metal and probe-type thermometers are calibrated on a quarterly basis.

For PCBs, a minimum of a five-point calibration curve using certified standards is completed before sample analysis. An acceptable continuing calibration check must be demonstrated every 12 hours during sample analysis by analyzing a mid-point PCB standard.

Laboratory quality control for PCB congeners will follow EPA Method 1668A. The instrument will be tuned using perfluorokerosene (PFK) or another reference material. Quantitative analysis is performed either by the isotope dilution or the internal standard techniques. Depending on the type of congener, a multi-point or single-point calibration may be used.

No field calibration is required for the Trimble TSCe GPS Datalogger. However, the settings should be checked daily to ensure that the proper settings are being used according to the manufacturer's instructions.

B8. INSPECTION/ACCEPTANCE OF SUPPLIES AND CONSUMABLES

It is the responsibility of the EPA/ERT to provide adequate facilities, equipment and supplies for REAC to perform all field related tasks for this WA. REAC personnel are responsible for the procurement, inspection, and acceptance

of supplies and consumables for this WA. In the event that any portion of this project is subcontracted, it will be the responsibility of the subcontractor to inspect and accept supplies and consumables.

B9. NON-DIRECT MEASUREMENT

Historical data from the ERT Final report titled *Ecological Evaluation for Cornell Dubilier Electronics Site*, August 1999, will be used by the ERT WAM to determine appropriate sampling locations for this project.

B10. DATA MANAGEMENT

Individual WA project files are maintained in a REAC central repository known as Central File. All documents associated with WA 0-360 will be submitted to Central Files and will be identified by the WA number, project name and type of document. Documents filed will include the WA, WP, QAPP, Final Analytical Report, Draft Data Summary, Final Report, outside laboratory results, field notebooks, copies of logbook entries, maps and any presentations which may be generated. Electronic copies of the deliverables will be archived in accordance with Administrative Procedure (AP) #34, *Archiving Electronic Files*, and saved on the REAC archive drive. Hard and electronic copies of all deliverables will remain permanently in REAC Central Files and in the REAC archive folder once a WA is closed. Central Files are organized and maintained by Support Services personnel. Access to Central Files is regulated to ensure the integrity and completeness of the files, and retrieval of documents from the Central File can only be done through Support Services personnel. All deliverables and other relevant project information will be submitted in electronic format to the site-specific ERT-IMS website. All chain of custody records are forwarded to the Data Validation and Report Writing (DV&RW) Group for incorporation into the Final Analytical Reports.

GPS data will be directly acquired, processed using Pathfinder Office software, and transferred into a project database. Contaminant data will be received electronically, as well as in hard copy form, from the analytical laboratories and transferred into a project database. In all cases, data entered into the project database will be reviewed and verified for accuracy. All laboratory procedures will be reviewed and the data verified for the appropriate QA objectives.

C. ASSESSMENT/OVERSIGHT

C1. ASSESSMENT AND RESPONSE ACTIONS

The TL/QC Coordinator, Operations Section Leader, Analytical Section Leader and QAO are responsible for QA assessments and corrective action for this WA. The tasks associated with this QAPP may be assessed through the use of peer reviews and management system reviews. Peer review enables the reviewers to identify and correct reporting errors before reports are submitted. Management system reviews establish compliance with prevailing management structure, policies and procedures, and ensures that the required data are obtained. All project deliverables will receive an internal peer review prior to release, per guidelines established in the REAC AP #22, *Peer Review of REAC Deliverables.*

The EPA/ERT WAM or assigned liaison for this task will be present during the site field work and will have the responsibility for verifying that the proper SOPs and sampling procedures are followed. If any technical issues or deficiencies are identified, they will be reported to the REAC TL for immediate resolution or corrective action. Any changes in scope of work will be documented on a WA Field Change Form and approved by the WAM.

C2. REPORTS TO MANAGEMENT

REAC Report	Recipients
Monthly Progress	EPA/ERT Project Officer and WAM
Quality Assurance Quarterly Reports	EPA/ERT Project Officer and QA Manager

D. DATA VALIDATION AND USABILITY

D1. DATA REVIEW, VERIFICATION AND VALIDATION

All data produced under this QAPP will be evaluated to determine compliance with the stated collection methods, type, and number of samples collected, sample handling, and correct analytical procedures. Data review will be conducted in the laboratory prior to data release to evaluate the validity of the sample batch. Two data quality indicators, precision and accuracy, will be used to assess the batch. Data verification is the steps taken to determine whether the quality requirements specified in the "B" elements of this QAPP have been met. Data verification will be performed by the REAC TL/QC Coordinator or by the Data Validation and Report Writing (DV&RW) Group when inconsistencies or non-compliant laboratory data are discovered. For field activities, it is necessary to determine whether the samples were collected using the sampling design specified in element B1, whether the samples were collected according to a specific method or SOP as specified in element B2, whether the collected samples have been recorded and handled properly as in element B3, and whether the proper amount of QC samples were taken to satisfy the QC requirements specified in element B5. For analytical activities, each sample should be verified to ensure that the procedures used to generate the data (as specified in element B4) were performed as specified. The proper amount of QC checks (as specified in element B5) that were prepared and analyzed during the actual analysis provide an indication of the quality of the data. Instrument calibrations (as specified in element B7) are evaluated to determine whether the correct number of calibration standards were used and the range of the analysis, whether standards were analyzed in an appropriate sequence specific to the methods used, and were performed prior to the analysis of samples, blanks and QC samples in an appropriate time frame.

The DV&RW Group is responsible for reviewing 10% of the analytical data against a set of criteria to verify its validity prior to use. The data validation process summarizes the data and QC deficiencies, and determines the impact on the overall data quality. Data validation qualifiers are assigned in the data assessment records, entered on the results tables, and are noted in the case narrative of the final analytical report.

D2. VERIFICATION AND VALIDATION METHODS

Data verification occurs at each level in the field and in the laboratory to ensure that appropriate outputs are being generated routinely. Records produced electronically or maintained as hard copies are subject to data verification. During field activities, records associated with sample collection such as field data sheets, chain of custody records, shipper's air bills, logbook documentation, or electronic devices to log samples or print sample labels are verified against approved SOPs or procedures. At sample receipt, chain of custody records are verified along with refrigerator and freezer logs to ensure the integrity of the samples. During sample preparation, digestion/extraction logs, certificates of analysis for surrogates and spiking compounds, refrigerator and freezer logs, analytical requests and standard preparation logs are verified. Manufacturer's certificates for calibration and/or internal standards, instrument run or injection logs, standard preparation logs, calculation worksheets, and QC sample results are verified during the analysis of the sample set. Review of data package or client deliverables are verified for compliance with peer review procedures.

Data validation will be conducted to determine how seriously the sample data deviate from acceptance limits and the potential effect on the data. All anomalies will be documented in the case narrative of the final analytical report.

D3. RECONCILIATION WITH USER REQUIREMENTS

Responsibility lies with the EPA.

REFERENCES

REAC. 2003. Quality Assurance Project Plan for the Response Engineering and Analytical Contract.

U.S. Environmental Protection Agency. 2001. *EPA Requirements for Quality Assurance Project Plans*: EPA QA/R-5, EPA/240/B-01/003.

U.S. Environmental Protection Agency. 1990. *Quality Assurance/Quality Control Guidance for Removal Activities*, EPA/540/G-90/004, Office of Emergency and Remedial Response.

United States Environmental Protection Agency. 2005. Uniform Federal Policy for Quality Assurance Project Plans, EPA-505-B-04-900A, Version 1.

TABLE 1. Field Sampling Summary - Tissue
Cornell-Dubilier Bound Brook Reassessment- South Plainfield, NJ

							QC Extras				
Analytical Parameter	Action Level[1]	Matrix	Container Type and Volume (# Containers req'd)	Preservative	Holding Times	Subtotal Samples[3]	Rinsate Blanks[2]	Field/ Trip Blanks	PE Samples[4]	Total Matrix Spikes[5]	Total Field Samples[6]
Aroclor Determinations	TBD	T (Crayfish)	5 individuals per plastic bag	Freeze	14 days/ 40 days	35	NA	NA	NA	4	35
PCB Congeners	TBD	T (Crayfish)	5 individuals per plastic bag	Freeze	14 days/ 40 days	7	NA	NA	NA	1	35
% Solids	NA	T (Crayfish)	5 individuals per plastic bag	Freeze	7 days	35	NA	NA	NA	NA	35
% Lipids	NA	T (Crayfish)	5 individuals per plastic bag	Freeze	14 days/40 days	35	NA	NA	NA	NA	35
Lipid Fractionization	NA	T (Crayfish)	5 individuals per plastic bag	Freeze	NA	35	NA	NA	NA	NA	35
Aroclor Determinations	TBD	T (Pumpkinseed Filet & Carcass)	5 individuals per plastic bag	Freeze	14 days/ 40 days	35 filets + 35 carcasses	NA	NA	NA	7	70
PCB Congeners	TBD	T (Pumpkinseed Filet & Carcass)	5 individuals per plastic bag	Freeze	14 days/ 40 days	7 filets + 7 carcasses	NA	NA	NA	2	70
% Solids	NA	T (Pumpkinseed Filet & Carcass)	5 individuals per plastic bag	Freeze	7 days	70	NA	NA	NA	NA	70
% Lipids	NA	T (Pumpkinseed Filet & Carcass)	5 individuals per plastic bag	Freeze	14 days/ 40 days	70	NA	NA	NA	NA	5
Aroclor Determinations	TBD	T (Carp Filet and Carcass)	1 carp per plastic bag	Freeze	14 days/ 40 days	56 filets + 56 carcasses	NA	NA	NA	12	112
PCB Congeners	TBD	T (Carp Filet and Carcass)	1 carp per plastic bag	Freeze	14 days/ 40 days	7 filets + 7 carcasses	NA	NA	NA	2	14
% Solids	NA	T (Carp Filet and Carcass)	1 carp per plastic bag	Freeze	7 days	112	NA	NA	NA	1	5
% Lipids	NA	T (Carp Filet and Carcass)	1 carp per plastic bag	Freeze	14 days/ 40 days	112	NA	NA	NA	NA	112

NOTES: * Matrix: T=Tissue, NA = Not Applicable, TBD = To Be Determined, SD = Screening Data, SD/DC = Screening Data with Definitive Confirmation, DD = Definitive Data, PCB = Polychlorinated Biphenyl

1. The concentration level, specific or generic, needed to make an evaluation. This level will provide a basis for determining the analytical method to be used.
2. If dedicated sampling tools are not used, rinsate blanks are required for the aqueous matrix. They are optional for the soil matrix. For DD, a minimum of one blank is required per type of sampling device per day.
3. Each subtotal sample represents a composite sample of five individual crayfish and five individual pumpkinseed; For the carp, each subtotal sample is one individual.
4. Performance evaluation samples are optional for SD/DC and DD at one per parameter per matrix. For SD, enter "NA."
5. Ensure that a sufficient volume of environmental sample is collected for lab spiking. All analyses conducted at the REAC laboratories require matrix spike samples at a frequency of ≥10 percent of the total samples, regardless of data category. In addition, for SD/DC and DD: Determine bias (percent recovery) using a minimum of two matrix spikes. Determine precision using a minimum of eight matrix spikes.
6. Add the numbers of rinsate blanks, field blanks, trip blanks, and PE samples to the subtotal number of samples to determine this.

TABLE 2. QA/QC Analysis and Data Categories Summary - Tissue
Cornell Dubilier Bound Brook Reassessment – South Plainfield, NJ

			Matrix Spikes		QA/QC	
Analytical Parameter	Matrix*	Analytical Method Reference	Lab[1]	Additional[2]	Detection Limits[3]	Data Category[4]
Aroclor Determinations	T	SW-846-8082A	12	NA	Laboratory-Specific	DD
PCB Congeners	T	SW-846-1668A	2	NA	Laboratory-Specific	DD
Lipid Fractionation	T	Bligh & Dyer or equivalent	NA	NA	NA	DD

NOTES: * Matrix: T= Tissue, DD = Definitive Data, SD = Screening Data, TBD = To be determined

1. Ensure that a sufficient volume of environmental sample is collected for lab spiking. All analyses conducted at the REAC laboratories require matrix spike samples at a frequency of ≥10 percent of the total samples, regardless of data category.
2. For SD/DC and DD: Determine bias (percent recovery) using a minimum of two matrix spikes. Determine precision using a minimum of eight matrix spikes. Laboratory matrix spikes may be utilized to fulfill these additional QC requirements.
3. To be determined by the person arranging the analysis. Should be equal to or less than the action level.
4. Enter data category desired: SD, SD/DC, DD.

LOCKHEED MARTIN

DATE: November 13, 2008

TO: Mark Sprenger, U.S. EPA/ERT Work Assignment Manager

THROUGH: Dennis Miller, REAC Program Manager

FROM: Larry A. Lyons, REAC Biology Group, Task Leader
Erica Wentz, REAC Biology Group, Environmental Specialist

SUBJECT: TRIP REPORT FOR THE CORNELL-DUBILIER BOUND BROOK REASSESSMENT (WORK ASSIGNMENT NO. 360)

BACKGROUND

Under this work assignment (WA), Response Engineering and Analytical Contract (REAC) personnel will provide technical support to the Environmental Protection Agency /Environmental Response Team (EPA/ERT) and EPA Region II for the reassessment of the Cornell-Dubilier Site in South Plainfield, New Jersey (NJ). The intent of this WA is to collect biological samples within Bound Brook for contaminant analyses and conduct an ecological risk assessment (ERA) in support of Removal Action.

The Cornell-Dubilier site was a capacitor manufacturing facility using polychlorinated biphenyls (PCBs). Releases of contaminants including PCBs into Bound Brook have been previously documented in the 1999 ERT final report entitled "Ecological Evaluation". A review of the historical data indicates that crayfish, sunfish (pumpkinseed and bluegill sunfish), white suckers and carp accumulate PCBs effectively. In addition, recent sediment sampling performed by EPA Region II indicates that PCB contamination associated with the site has not declined within Bound Brook over the past 10 years.

The fundamental objectives of this WA are as follows:

1) Assess the current PCB levels in selected fish (sunfish, white suckers and carp) and invertebrates (crayfish) and compare with historical data from Bound Brook.
2) Re-establish the baseline concentrations of PCBs in fish and invertebrate tissue within the Bound Brook for remedy effectiveness monitoring.
3) Provide a fingerprint of the PCB congeners within Bound Brook from the site to the New Market Pond.
4) Define the ecological receptors that actually exist in the Bound Brook system.
5) Provide an ERA that could potentially support Removal Action.

This interim report presents the site investigation activities. The final report will incorporate the results and the five objectives above.

FIELD SAMPLING PLAN

Figure 1 identifies the seven sampling stations which are:

Station 1: Reference location situated within Bound Brook upstream of the site
Station 2: Bound Brook adjacent to the Site's landfill

Station 3: Bound Brook adjacent to the site
Station 4: Bound Brook below the confluence of Bound Brook and Cedar Brook
Station 5: Bound Brook at the Clinton Avenue crossing
Station 6: New Market Pond station which is the most downstream Bound Brook station
Station 7: Spring Lake

SITE INVESTIGATION ACTIVITES

The site investigation activities were performed during the weeks of September 22, September 29 and October 6, 2008.

Crayfish Sampling

Crayfish sampling was performed by placing five crayfish traps at each of the seven stations during the week of September 22, 2008. Bait (cat food) was placed into each trap and the traps were checked daily over a three-day period. Only one crayfish was captured from this sampling effort at Station 5. A few other crayfish were later collected at Station 5 during the electroshocking for the fish sampling.

Fish (Carp, White Suckers, Pumpkinseed and Bluegill Sunfish) Sampling

Fish collections were performed using electroshocker equipment provided by EPA Region II during the week of September 29, 2008. A boat electroshocker was used at Stations 6 and 7 and a barge electroshocker was used at Stations 1 through 5 for the fish collections.

Only the target fish (*i.e.*, carp, white suckers, pumpkinseed and bluegill sunfish) were retained from the electroshocking collections and placed into coolers. All other fish were released back to the aquatic system. Other fish species that were commonly found at some of the Bound Brook stations were the American eel, banded killifish, large mouth bass, redfin pickerel, and bullhead catfish.

Fish collections were brought back to the ERT/REAC Biological Laboratory where they were measured and weighed. For each fish a scraping of a few scales were removed and retained for possible age determinations. Carp were collected from Stations 6 and 7 and white suckers were collected from all stations. Pumpkin seed sunfish were collected from Stations 1 through 5 and bluegill sunfish were collected from Stations 5, 6 and 7. A total of 16 carp, 37 white suckers, 124 pumpkinseed sunfish and 63 bluegill sunfish were collected. Tables 1 to 7 present the fish collected at each station, the length and weight of each fish.

The carp were treated as individual specimens. All of the white suckers were treated as individual specimens with the exception of two white sucker samples that were composited for Station 2. All of the pumpkinseed and bluegill sunfish were composited into samples primarily based on size. Each individual fish or composite sample was wrapped in aluminum foil and placed into a ziplock bag and then placed into a freezer set at minus (-) 20 degrees Celsius (ºC). All 95 samples, including the individual and composite samples, were packaged in dry ice and shipped to the subcontract laboratory. The processing of these samples by the subcontract laboratory will involve filleting one side of each fish and then homogenizing the fillets followed by homogenizing the remainder of the carcass to provide two sets of tissue results for each sample. The total number of samples of fillets and carcasses will be 190 tissue samples. Each fillet and carcass sample will be weighed. Each homogenized sample (*i.e.*, fillet and carcass) will be analyzed for percent (%) solids, % lipids and PCB Aroclors. A total of 49 tissue samples will also be analyzed for PCB congeners (See Tables 1 to 7).

Asiatic Clam Sampling

Asiatic clam sampling was performed at Stations 1 through 5 during the week of October 6, 2008. Since crayfish were not readily available for sampling, the Asiatic clams were used as the invertebrate species for monitoring PCB accumulations. Numerous Asiatic clams were found at each of these five stations either on the surface of the stream bed or slightly buried. The clams were retrieved from the stream bed using dip nets and transported back to the ERT/REAC Biological Laboratory for a depuration period of 24 hours. Following the depuration period, the clams were sorted to size and frozen at -20 ºC. Three composite samples based on size ranges of the clams were compiled (See Table 8).

During the week of October 10, 2008, the tissue was removed from each of the bivalve shells and the total amount of tissue for each composite sample was weighed. The 15 composite samples were packaged in dry ice and shipped to the subcontract laboratory to be homogenized and analyzed for % solids, % lipids and PCB Aroclors. Five of the 15 composite samples will also be analyzed for PCB congeners. Table 8 identifies the samples, number of individuals per composite sample, size range and the tissue weights of the composite samples.

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Dennis Miller, REAC Program Manager

Table 1. Fish Collected at Station 1- Reference
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 9/30/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		1-WS-1	151	36.7
		1-WS-2	184	69.9
		1-WS-3	219	112.0
		1-WS-4	215	113.1
		1-WS-5	236	145.6
		1-WS-6	277	223.0
		1-WS-7	374	559.7
Pumpkinseed Sunfish	1-P-1	1-P-1-1	152	116.1
		1-P-1-2	156	96.6
		1-P-1-3	147	94.6
		1-P-1-4	136	61.2
		1-P-1-5	134	64.9
	1-P-2	1-P-2-1	118	42.1
		1-P-2-2	106	30.4
		1-P-2-3	113	38.3
		1-P-2-4	114	38.8
		1-P-2-5	98	22.7
		1-P-2-6	96	22.7
		1-P-2-7	101	24.3
		1-P-2-8	102	26.4
	1-P-3	1-P-3-1	103	24.1
		1-P-3-2	108	30.4
		1-P-3-3	101	24.2
		1-P-3-4	110	32.0
		1-P-3-5	106	28.0
		1-P-3-6	108	32.5
		1-P-3-7	114	37.0
	1-P-4	1-P-4-1	133	59.6
		1-P-4-2	124	38.4
		1-P-4-3	120	44.5
		1-P-4-4	123	54.1
	1-P-5	1-P-5-1	107	33.0
		1-P-5-2	90	18.5
		1-P-5-3	90	17.7
		1-P-5-4	102	26.3
		1-P-5-5	97	20.6
		1-P-5-6	91	17.7
		1-P-5-7	90	15.2
		1-P-5-8	79	13.1

All samples analyzed for Aroclors, % Lipids, and % Solids

-Samples selected for PCB Congener Analysis

Table 2. Fish Collected at Station 2- Site/Landfill
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 10/2/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		2-WS-1	277	222.9
		2-WS-2	234	142.9
		2-WS-3	185	64.6
		2-WS-4	187	78.0
		2-WS-5	181	56.9
	2-WS-6	2-WS-6-1	137	27.3
		2-WS-6-2	151	38.4
		2-WS-6-3	153	37.7
	2-WS-7	2-WS-7-1	158	38.4
		2-WS-7-2	155	41.5
		2-WS-8	93	9.8
Pumpkinseed Sunfish	2-P-1	2-P-1-1	123	46.7
		2-P-1-2	117	39.0
		2-P-1-3	124	43.1
		2-P-1-4	129	50.1
		2-P-1-5	111	31.6
		2-P-1-6	117	35.2
	2-P-2	2-P-2-1	96	20.5
		2-P-2-2	108	20.7
		2-P-2-3	104	25.0
		2-P-2-4	106	27.3
		2-P-2-5	94	17.9
		2-P-2-6	106	25.3
		2-P-2-7	108	27.6
		2-P-2-8	113	31.7
		2-P-2-9	97	22.7
		2-P-2-10	106	27.3
		2-P-2-11	107	27.2
		2-P-2-12	92	17.1
	2-P-3	2-P-3-1	129	49.9
		2-P-3-2	133	51.7
		2-P-3-3	132	51.0
		2-P-3-4	128	49.7
		2-P-3-5	128	45.9

All samples analyzed for Aroclors, % Lipids, and % Solids

-Samples selected for PCB Congener Analysis

Table 2 Continued. Fish Collected at Station 2- Site/Landfill
Cornell Dublier Site
South Plainfield, NJ

Date Collected 10/2/08

		Individual Fish	Length (mm)	Weight (g)
Pumpkinseed Sunfish	2-P-4	2-P-4-1	138	64.0
		2-P-4-2	141	71.7
		2-P-4-3	138	65.3
		2-P-4-4	147	77.1
		2-P-4-5	136	59.4
		2-P-4-6	139	61.6
	2-P-5	2-P-5-1	148	78.7
		2-P-5-2	140	72.1
		2-P-5-3	146	75.4
		2-P-5-4	143	69.0
		2-P-5-5	146	70.5

All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis

Table 3. Fish Collected at Station 3-Adjacent to Site
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 10/2/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		3-WS-1	207	104.5
		3-WS-2	225	131.1
		3-WS-3	324	375.0
		3-WS-4	322	361.8
		3-WS-5	352	455.7
		3-WS-6	324	438.6
		3-WS-7	378	616.1
		3-WS-8	371	602.7
Pumpkinseed Sunfish	3-P-1	3-P-1-1	101	22.7
		3-P-1-2	107	28.1
		3-P-1-3	104	24.5
		3-P-1-4	109	29.9
		3-P-1-5	103	24.9
		3-P-1-6	94	18.4
		3-P-1-7	96	19.9
	3-P-2	3-P-2-1	115	36.2
		3-P-2-2	115	36.3
		3-P-2-3	120	43.0
		3-P-2-4	124	44.0
	3-P-3	3-P-3-1	134	51.7
		3-P-3-2	130	52.1
		3-P-3-3	130	47.0
		3-P-3-4	136	65.5
		3-P-3-5	133	55.1
	3-P-4	3-P-4-1	141	62.6
		3-P-4-2	137	62.6
		3-P-4-3	134	53.4
		3-P-4-4	137	61.7
		3-P-4-5	137	60.7
	3-P-5	3-P-5-1	151	83.1
		3-P-5-2	144	78.1
		3-P-5-3	143	72.8
		3-P-5-4	150	82.2
		3-P-5-5	147	79.1

All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis

Table 4. Fish Collected at Station 4-Oakmoor Street
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 9/30/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		4-WS-1	155	41.3
		4-WS-2	172	56.2
		4-WS-3	194	82.6
		4-WS-4	205	95.3
		4-WS-5	207	89.0
		4-WS-6	250	161.6
		4-WS-7	244	149.5
		4-WS-8	268	212.4
Pumpkinseed Sunfish	4-P-1	4-P-1-1	98	21.0
		4-P-1-2	103	30.2
		4-P-1-3	112	36.9
		4-P-1-4	116	38.1
		4-P-1-5	98	23.0
		4-P-1-6	101	23.1
		4-P-1-7	118	41.3
	4-P-2	4-P-2-1	151	91.9
		4-P-2-2	146	87.8
		4-P-2-3	148	89.1
	4-P-3	4-P-3-1	141	74.2
		4-P-3-2	124	43.2
		4-P-3-3	136	56.0
		4-P-3-4	120	45.9
		4-P-3-5	146	54.3
	4-P-4	4-P-4-1	131	55.3
		4-P-4-2	137	66.5
		4-P-4-3	132	62.8
		4-P-4-4	123	44.8
		4-P-4-5	136	55.7

All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis

Table 5. Fish Collected at Station 5- Clinton Avenue
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 9/30/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		5-WS-1	218	111.5
		5-WS-2	227	124.1
		5-WS-3	268	224.3
		5-WS-4	308	318.0
		5-WS-5	331	410.0
		5-WS-6	382	622.3
		5-WS-7	344	499.8
		5-WS-8	407	702.0
Pumpkinseed Sunfish	5-P-1	5-P-1-1	141	74.2
		5-P-1-2	141	74.7
		5-P-1-3	152	91.7
		5-P-1-4	160	101.4
		5-P-1-5	156	105.9
		5-P-1-6	155	105.1
	5-P-2	5-P-2-1	136	60.8
		5-P-2-2	130	62.5
		5-P-2-3	147	86.3
		5-P-2-4	134	66.4
		5-P-2-5	141	76.8
		5-P-2-6	138	68.4
Blue Gill Sunfish	5-BG-1	5-BG-1-1	170	119.1
		5-BG-1-2	168	118.5
		5-BG-1-3	171	113.7
		5-BG-1-4	164	109.3
	5-BG-2	5-BG-2-1	170	106.6
		5-BG-2-2	182	148.4
		5-BG-2-3	173	127.6
		5-BG-2-4	174	127.3
	5-BG-3	5-BG-3-1	142	71.4
		5-BG-3-2	140	61.9
		5-BG-3-3	151	76.7
		5-BG-3-4	163	86.5
		5-BG-3-5	143	64.8

All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis

Table 6. Fish Collected at Station 6-New Market Pond
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 10/1/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		6-WS-1	330	415.4
		6-WS-2	320	373.8
		6-WS-3	255	196.0
Carp		6-C-1	600	4019
		6-C-2	480	1834
		6-C-3	550	2659
		6-C-4	640	4274
		6-C-5	580	2800
		6-C-6	420	1186
		6-C-7	330	739
		6-C-8	420	1107
Blue Gill Sunfish	6-BG-1	6-BG-1-1	169	114.3
		6-BG-1-2	170	107.7
		6-BG-1-3	165	104.8
		6-BG-1-4	175	108.7
		6-BG-1-5	175	117.0
	6-BG-2	6-BG-2-1	155	87.6
		6-BG-2-2	148	83.4
		6-BG-2-3	157	83.5
		6-BG-2-4	147	64.1
		6-BG-2-5	141	61.6
	6-BG-3	6-BG-3-1	132	45.1
		6-BG-3-2	130	45.7
		6-BG-3-3	106	26.9
		6-BG-3-4	105	23.7
		6-BG-3-5	124	40.5
	6-BG-4	6-BG-4-1	135	53.6
		6-BG-4-2	162	85.9
		6-BG-4-3	162	89.9
		6-BG-4-4	143	68.5
		6-BG-4-5	162	88.9
	6-BG-5	6-BG-5-1	167	99.2
		6-BG-5-2	163	90.7
		6-BG-5-3	155	82.7
		6-BG-5-4	153	75.8
		6-BG-5-5	172	109.2

All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis

Table 7. Fish Collected at Station 7-Spring Lake
Cornell Dubilier Site
South Plainfield, NJ

Date Collected 10/1/08

		Individual Fish	Length (mm)	Weight (g)
White Suckers		7-WS-1	380	657.7
		7-WS-2	340	469.6
		7-WS-3	355	526.3
Carp		7-C-1	665	5070
		7-C-2	625	3431
		7-C-3	550	2464
		7-C-4	570	2715
		7-C-5	530	2004
		7-C-6	580	3512
		7-C-7	585	2942
		7-C-8	570	2744
Blue Gill Sunfish	7-BG-1	7-BG-1-1	170	105.8
		7-BG-1-2	170	107.7
		7-BG-1-3	165	108.2
		7-BG-1-4	165	84.1
		7-BG-1-5	155	82.2
	7-BG-2	7-BG-2-1	160	76.1
		7-BG-2-2	145	61.7
		7-BG-2-3	142	54.2
		7-BG-2-4	136	54.4
		7-BG-2-5	140	61.9
	7-BG-3	7-BG-3-1	140	52.9
		7-BG-3-2	136	53.3
		7-BG-3-3	130	46.7
		7-BG-3-4	134	47.2
		7-BG-3-5	126	39.7
	7-BG-4	7-BG-4-1	131	50.3
		7-BG-4-2	135	49.2
		7-BG-4-3	155	70.9
		7-BG-4-4	135	48.7
		7-BG-4-5	126	43.7
	7-BG-5	7-BG-5-1	160	87.7
		7-BG-5-2	155	72.4
		7-BG-5-3	136	62.3
		7-BG-5-4	155	83.6
		7-BG-5-5	150	75.8

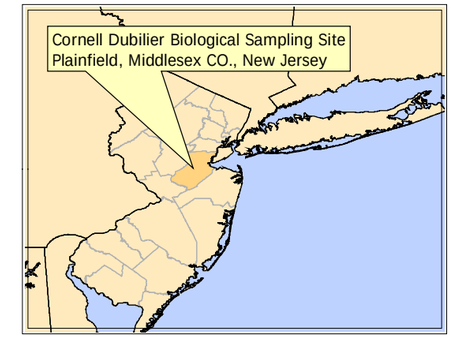
All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis

Table 8. Asiatic Clams Collected at Stations 1, 2, 3, 4, & 5
Cornell Dubilier Site
South Plainfield, NJ

Collected 9/25/08 and 10/7/08

	Composite	# of Individuals	Size Range (mm)	Weight (g)
Station 1- Reference	1	124	9-21	24.5
	2	197	8-20	53.5
	3	64	21-30	50.4
Station 2- Site/ Landfill	1	186	12-16	51.2
	2	79	16-21	53.5
	3	25	22-29	50.9
Station 3- Adjacent to Site	1	272	9-18	80.8
	2	167	19-23	205.4
	3	170	24-31	203.9
Station 4- Oakmoor Street	1	320	9-17	70.0
	2	82	17-20	49.8
	3	69	20-27	107.5
Station 5- Clinton Avenue	1	67	10-19	54.5
	2	47	19-24	55.0
	3	22	24-32	53.9

All samples analyzed for Aroclors, % Lipids, and % Solids
-Samples selected for PCB Congener Analysis



Magnetic North

Map created using 1:24,000 topographic map from USGS and site survey GPS data.

Map Creation Date: 02 Dec 2008

Coordinate system: WGS 1984

2,300 0 2,300 4,600

Feet

Data: g:\arcviewprojects\reac4\00-360
MXD file: g:\arcinfoprojects\reac4\EAC00360_CornellDubilier\360_Site_Location_fXrev001
Revision Number: 001

U.S EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-360

Figure 1
Sampling Locations
Cornell-Dubilier Biological Sampling
Plainfield, New Jersey
October, 2008