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United States Environmental Protection Agency
National Health and Environmental Effects Research Laboratory
Research Triangle Park, NC 27711

OFFICE OF
RESEARCH AND DEVELOPMENT

MEMORANDUM

Date: 14 December 2001(revised 12/28/01)

Subject: Revised Analysis of the Thyroid Hormone Data from the Rat Developmental "Effects" Study - Argus Protocol 1416-003

From: Kevin M. Crofton, Ph.D.
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To: Annie Jarabek
National Center for Environmental Assessment

Attached is the revised analyses of the hormone data from the Argus Rat Developmental "Effects" Study (Argus Research Laboratories, Inc., 2001); #1416-003). This new analysis contains the data from all four developmental ages.

The report from Argus Laboratories (Argus Research Laboratories, Inc., 2001) contains thyroid hormone and thyrotrophin data from the "Effects" Study of ammonium perchlorate in the rat. The following is a statistical analysis of the T4 (thyroxine), T3(triiodothyronine), and TSH (thyroid stimulating hormone) data found in that report. Available data included maternal (dam) data for T3, T4 and TSH from the gestational day (GD) 21, postnatal day (PND)10, and PND22 time points. Data from fetal or offspring serum was available from PND5 in addition to the above time points.

Data analyzed in this report were obtained via e-mail from Annie Jarabek. This report utilized all the files from a series of e-mails sent on 12/20/01 from Annie Jarabek to Kevin Crofton. The filenames and contents are as shown in Table 1. Data were exported as ascii files for analyses by SAS. Please note that some files contained data that were incorrectly labeled or inappropriate for these analyses. These are labeled *'bad files'* in Table 1. There were also duplicate files with similar data and somewhat analogous names sent in earlier e-mails. These files are listed in Table 1. The data from these earlier files were not used.

Statistical Approaches

Maternal serum measures (T4, T3 and TSH) were subjected to separate two-way ANOVAs. Treatment (dose) and age (gestational day (GD) 21, postnatal days (PND) 10 and 22) were the independent between-subjects variables.

For the offspring data two separate approaches were used due to differences in experimental data. The data from GD21, PND5 and PND10 were obtained from litter-pooled serum samples so no gender analyses were possible. The data from PND22 were not from pooled samples. Therefore, the T3, T4 and TSH data from the first three ages were subjected to separate two-way ANOVAs with age (GD21, PND5, PND10) and treatment as between-subjects variables. The T3, T4 and TSH data from PND22 was subjected to separate two-way ANOVAs with gender and treatment as independent variables. Mean contrasts were performed using Duncan's Multiple range Test.

Significant two-way ANOVAs were followed by step-down one-way ANOVAs to determine main effects of treatment. If the interaction term was not significant, then the model was refit if main effects were found. A smaller model was then fitted to the data, retaining only the main effects previously found significant. This is consistent with the 'liberal' approach outlined in Crofton and Marcus (2001) and Marcus (2001).

The SAS outputs from these analyses are found in Appendix 1 (dam data) and Appendix 2 (fetal and offspring data).

Results Summary

Maternal Data: Exposure to perchlorate produced significant decreases in T3 and T4, and increases in TSH, in maternal serum collected. For maternal T3 there was no age-by-treatment interaction and the NOAEL was 1.0 mg/kg/day. For maternal T4 there was a significant age by treatment interaction. Step-down analyses revealed LOAELs for GD21, PND10 and PND21 of 0.01, 1.0 and 30.0 mg/kg/day, respectively. There was no NOAEL for maternal T4 on GD21. There was also a significant age-by-treatment interaction for maternal TSH concentrations (Figure 1). Step-down analyses revealed LOAELs for GD21, PND10 and PND21 of 0.01, 0.01 and 0.1 mg/kgday, respectively. There was no NOAEL for maternal TSH on either GD21 or PND10. These effects of perchlorate on T3, T4 and TSH are consistent with the known mechanism-of-action of perchlorate and previous data. The greater potency of perchlorate during pregnancy, as evidenced by NOAELs for T4 and TSH on GD21 compared to postnatal time points, suggests that there may be a slight increase in susceptibility of the pregnant rat compared to the lactating rat.

Fetal and Offspring Data: Maternal exposure to perchlorate resulted in hypothyroidism in offspring. For the data from GD21, PND5 and PND10 there were significant decreases in T3 and T4 and increases in TSH. For T3 there was no age-by-treatment interaction. The LOAEL was 0.01 mg/kg/day. There was no NOAEL determined for T3. For T4 there was no age-by-

treatment interaction. The LOAEL was 0.1 mg/kg/day and the NOAEL was 0.01. For TSH there was a significant age-by-treatment interaction. Step-down analyses revealed NOAEL for GD21 of 0.1 mg/kg/day. There was no significant effect of perchlorate on TSH on PND5. On PND10 the LOAEL was 0.01 mg/kg/day. There was no NOAEL for pup TSH on PND10.

Analyses of the data from PND22 pup serum revealed no significant gender-by-treatment interaction for T3. The NOAEL for pup T3 was 0.1 mg/kg/day. For pup T4 there was a significant gender-by-treatment interaction. For female pups there was no significant effect of perchlorate on T4. For male pups the LOAEL for T4 was 0.01 mg/kg/day. There was no NOAEL established for male pup T4. For pup TSH on PND22 there was a significant gender-by-treatment interaction. The NOAEL for female pup TSH was 0.01 mg/kg/day. For male pups the LOAEL for TSH was 0.01 mg/kg/day. There was no NOAEL established for male pup TSH.

Overall, these findings are consistent with the known mechanism-of-action of perchlorate and previous findings.

A summary of all NOAELs and LOAELs are compiled in Table 2.

References:

Argus Research Laboratories, Inc. (2001) Hormone, thyroid and neurohistological effects of oral (drinking water) exposure to ammonium perchlorate in pregnant and lactating rats and in fetuses and nursing pups exposed to ammonium perchlorate during gestation or via maternal milk. Horsham, PA: Protocol no. ARGUS 1416-003.

Crofton, K. M.; Marcus, A. (2001) Re-analyses of perchlorate hormone data from the 1998 ERD [memorandum with attachments to Annie Jarabek]. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development; October 15.

Marcus, A. (2001). Explanation of Re-analyses of Perchlorate Hormone Data from the 1998 ERD [memorandum to Annie Jarabek and Kevin Crofton]. Research Triangle Park, NC: U.S. Environmental Protection Agency, National Center for Environmental Assessment. October 19.

Table 1. List of files used in statistical analyses.

FILENAME	Alternate Filename*	Hormone	Age	Sex	File Description (if found in file)
Thyroid Hormones Effects Protocal all data.xls					All data files above combined into one file
GD20					
chXargusGDqa20002.doc					
t3Yargdfetus00.xls		T3	FETUS	pooled	The data in the 6 individual files is the same as that in the one zipped file
T3Yarggd20dam00.xls		T3	DAM	female	
T4Yargdam00.xls		T4	DAM	female	
T4yargfe.xls		T4	FETUS	pooled	
TSHYargdam20.xls		TSH	DAM	female	
TSHYarggdfetus00.xls		TSH	FETUS	pooled	
HORMONEDATAGD20-2-TH-Argus.zip					
Hormone@GD21Argus.xls		T3,T4,TSH	Dams	females	Thyroid Hormone - analyses in pregnant female rat serum samples at GD21 (from Argus Lab)following treatment with Ammonium Perchlorate.
		T3,T4,TSH	pups	pooled	Thyroid Hormone - analyses in rat fetal serum samples at GD21 from pooled litters for pregnant female rats(from Argus lab), following treatment with Ammonium Perchlorate.
PND 05					
CHT3pnd5pupz2.xls	CHT3pnd5pupX.xls	T3	pup	pooled	Triiodothyronine (T3) analysis in rat serum samples, obtained from pooled litters at PND5 following maternal treatment with Perchlorate.
CHT4pnd5pupz3.xls	CHT4pnd5pup.xls	T4	pup	pooled	Total Thyroxine (T4) analysis in rat serum samples, obtained from pooled litters at PND5 following treatment with Perchlorate.
TSHpnd5littersz1.xls	TSHpnd5littersX.xls	TSH	pup	pooled	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples, obtained from pooled litters at PND5 following maternal treatment with Perchlorate.
chTSHlD52x1puparg.xls	*bad file*	TSH	Pups	pooled	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples obtained from pooled litters at PND5 following maternal treatment with Perchlorate.
					Note: this file contains animal numbers that are not consistent with the other PND5 litter numbers - these are litter numbers from PND22
chT3lX1ldpnd5ARG .xls	*bad file*	%Bound			Triiodothyronine (T3) analysis in rat serum samples obtained from pooled litters at PND5 following maternal treatment with Perchlorate. *This is not what is in the file. The file may contain %bound data for iodine??*
chT3x1matpnd5ARG .xls	*bad file*	T3	Dam	female	*contains dam t3 data from PND22 not PND5*
chT42x1pnd5ARG .XLS	*bad file*	T4	pup	pooled	Total Thyroxine (T4) analysis in rat serum samples obtained from pooled litters at PND5 following maternal treatment with Perchlorate.
					Note: this file contains animal numbers that are not consistent with the other PND5 litter numbers - these are litter numbers from PND22

Table 1. Continued.

FILENAME	Alternate Filename*	Hormone	Age	Sex	File Description (if found in file)
PND 10					*all individual files are also found in the zipped file*
CH2T4PN10X1.xls	CH2T4PN10litX.xls	T4	pups	pooled	Total Thyroxine (T4) analysis in rat serum samples, obtained from pooled litters at PND10 following maternal treatment with Perchlorate.
Cht3pnd10damsy1.xls	Cht3pnd10damsX.xls	T3	dams	females	Triiodothyronine (T3) analysis in rat serum samples, obtained from maternal female rats (dams) at PND10 following treatment with Perchlorate.
Cht3pnd10litX2.xls	Cht3pnd10litX.xls	T3	pups	pooled	Triiodothyronine (T3) analysis in rat serum samples, obtained from pooled litters at PND10 following maternal treatment with Perchlorate.
Cht4pnd10damsy2.xls	Cht4pnd10damsX.xls	T4	dams	females	Total Thyroxine (T4) analysis in rat serum samples, obtained from maternal female rats (dams) at PND10 following treatment with Perchlorate.
TSHpnd10litteX3.xls	TSHpnd10litteX.xls	TSH	pups	pooled	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples, obtained from pooled litters at PND10 following maternal treatment with Perchlorate.
TSHpnd10y3.xls	TSHpnd10X.xls	TSH	dams	females	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples, obtained from maternal female rats (dams) at PND10 following treatment with Perchlorate.
HORMONEDATAPND10-1-TH-Argus.zip					
HormonePNd10argus.xls		T3,T4,TSH	Dams	females	Thyroid Hormone analysis in female rat serum samples at PND10,(from Argus Lab, Inc), following treatment with Perchlorate.
		T3,T4,TSH	pups	pooled	Thyroid Hormone - analyses in rat serum samples,obtained from pooled litters at PND10,(from Argus Lab, Inc),following maternal treatment with Perchlorate.

Table 1. Continued.

FILENAME	Alternate Filename*	Hormone	Age	Sex	File Description (if found in file)
PND 22					
ch X1T3fe3pnd22ARG .xls		T3	PUPS	Female	Triiodothyronine (T3) analysis in rat serum samples obtained from female pups at PND 22 following maternal treatment with Perchlorate.
ChSHX1pnd22malepuparg.xls		TSH	PUPS	Male	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples obtained from male pups at PND 22 following maternal treatment with Perchlorate.
chT3x1malepnd22ARG .xls		T3	PUPS	Male	Triiodothyronine (T3) analysis in rat serum samples obtained from male pups at PND 22 following maternal treatment with Perchlorate.
chT3x1matpnd5ARG .xls		T3	DAMS	Female	Triiodothyronine (T3) analysis in rat serum samples obtained from maternal female rats (dams) at PND 22 following treatment with Perchlorate.
chT4X1FEmalepup.xls		T4	PUPS	Female	Total Thyroxine (T4) analysis in rat serum samples obtained from female pups at PND 22 following treatment with Perchlorate.
chT4X1malepup.xls		T4	PUPS	Male	Total Thyroxine (T4) analysis in rat serum samples obtained from male pups at PND 22 following maternal treatment with Perchlorate.
ChTSHX1pnd22fepuparg.xls		TSH	PUPS	Female	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples obtained from female pups at PND 22 following treatment with Perchlorate.
T4x1argdam22.xls		T4	DAMS	Female	Total Thyroxine (T4) analysis in rat serum samples obtained from maternal female rats (dams) at PND 22 following treatment with Perchlorate.
TSHchX1pnd22damarg.xls		TSH	DAMS	Female	Thyroid Stimulating Hormone (TSH) analysis in rat serum samples obtained from maternal female rats (dams) at PND 22 following treatment with Perchlorate
HORMONEDATAPND22-1-TH-Argus.zip					.
Hormone@PND22Argus.xls		T3,T4,TSH	Dams	females	Thyroid Hormone analyses in rat serum samples obtained from maternal female rats (dams) at PND 22 (from Argus lab, Inc), following treatment with Perchlorate.
		T3,T4,TSH	pups	males	Thyroid Hormone analyses in rat male pupserum samples obtained from maternal female rats (dams) at PND 22 (from Argus lab, Inc), following treatment with Perchlorate.
		T3,T4,TSH	pups	females	Thyroid Hormone analyses in rat female pup serum samples obtained from maternal female rats (dams) at PND 22 (from Argus lab, Inc), following treatment with Perchlorate.
* = files with different names containing the same data.					

Table 2. List of NOAELs and LOAELs from the Argus "Effects" study (0, 0.01, 0.1, 1.0, 30.m mg/kg/day).

Generation	Hormone	Age	Sex	Original Analyses	
				NOAEL	LOAEL
Dams	T3	GD21	F	1.0	30.0
		PND10	F		
		PND22	F		
	T4	GD21	F	-	0.01
		PND10	F	0.1	1
		PND22	F	1.0	30.0
	TSH	GD21	F	-	0.01
		PND10	F	-	0.01
		PND22	F	0.01	0.1
Fetus and Offspring	T3	GD21	Pooled	-	0.01
		PND5	Pooled		
		PND10	Pooled		
		PND22	F	0.01	1.0
			M		
	T4	GD21	Pooled	0.01	0.1
		PND5	Pooled		
		PND10	Pooled		
		PND22	F	no significant effects	
			M	-	0.01
	TSH	GD21	Pooled	0.1	1.0
		PND5	Pooled	no significant effects	
		PND10	Pooled	-	0.01
		PND22	F	0.01	0.1
			M	-	0.01

Appendix I - Statistical Analyses of Hormone Data from Dams in the "Effects" Study

Argus Research Laboratories, Inc. (2001) Hormone, thyroid and neurohistological effects of oral (drinking water) exposure to ammonium perchlorate in pregnant and lactating rats and in fetuses and nursing pups exposed to ammonium perchlorate during gestation or via maternal milk. Horsham, PA: Protocol no. ARGUS 1416-003.

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WARNING: Your system is scheduled to expire on January 1, 2002, which is 5 days from now. Please contact your installation
         representative to have your system renewed. The SAS system will no longer function on or after that date.
 Welcome to the NHEERL-RTP SAS Information Delivery System.


1          *THIS FILE IS FOUND AT [CRofton.THYROID.PERCHLORATE]perchlorate_TH_EFFECTSPROTOCOL.SAS;
2          *IT ANALYAZES THE THYROID HORMONE DATA FROM THE WPAFB 'EFFECTS PROTOCOL' STUDY;
3
4          *INPUT DATA INTO SAS DATASET;
5          DATA RAW; INFILE '[CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT';
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
6                    INPUT ANIM GENDER$ dose$ AGE$ CODE$ RES TH$ AGE2$ GEN$;
7                            IF GEN = 'pup' THEN DELETE;
8                            IF GEN = 'fetal' THEN DELETE;
9
10         *DEFINITIONS OF VARIABLES;
11         *       ANIM = ANIMAL ID;
12         *          GENDER = ONLY APPLICABLE FOR DAMS AND PND21 DATA;
13         *                 POOLED FETAL AND PUP SAMPLES FOR ALL OTHER DAYS;
14         *          TRT = TREATMENT CODE;
15         *          AGE = AGE OF SAMPLE;
16         *                  DAY21 = GESTATIONAL DAY 21;
17         *                  PND5, 10 AND 22 = POSTNATAL AGES;
18         *          CODE = ORIGINAL COMBINED SAMPLE CODE;
19         *          RES = HORMONE MEASUREMENT;
20         *          TH = HORMONE, T3, T4 OR TSH;
21         *          AGE2 = ADDITIONAL AGE VARIABLE - IGNORE;
22         *          GEN = GENERATTION, FETAL, PUP OR DAM;
23
24         *ASSIGN TREATMENTS TO DOSAGE CODES IN MG/KG/DAY;
25                   IF DOSE = '1' THEN TRT = '1-CONTROL';
26                   IF DOSE = '2' THEN TRT = '2----0.01';
27                   IF DOSE = '3' THEN TRT = '3-----0.1';
28                   IF DOSE = '4' THEN TRT = '4-----1.0';
29                   IF DOSE = '5' THEN TRT = '5----30.0';
30
31         *PRINT THE RAW DATA FILE;

NOTE: The infile '[CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT' is:
      File=DSA21:[SAS$USERS.CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT

NOTE: 1825 records were read from the infile '[CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT'.
      The minimum record length was 79.
      The maximum record length was 80.
NOTE: The data set WORK.RAW has 714 observations and 10 variables.

32                 PROC PRINT;
```

```
WARNING: The BASE Product product with which PRINT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
 33
12                                                    The SAS System                        15:53 Thursday, December 27, 2001

 34          *SORT DATA BY DAY, TRT AND GENDER -- THEN GET MEANS;

NOTE: The PROCEDURE PRINT printed pages 1-13.

 35          DATA XMEAN_1; SET RAW;
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
 36

NOTE: The data set WORK.XMEAN_1 has 714 observations and 10 variables.

 36           PROC SORT; BY TH AGE TRT;
WARNING: The BASE Product product with which SORT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
 37

NOTE: The data set WORK.XMEAN_1 has 714 observations and 10 variables.

 37           PROC MEANS N MEAN STDERR MIN MAX STD VAR CV;
WARNING: The BASE Product product with which MEANS is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
 38                          BY TH AGE TRT;
 39                          VAR RES;
 40                          output out=EFFECT1 MEAN=X_T3 X_T4 X_TSH STDERR=SE1 SE2 SE3;
 41
 42

NOTE: The data set WORK.EFFECT1 has 45 observations and 7 variables.
NOTE: The PROCEDURE MEANS printed pages 14-20.

 42           PROC PRINT DATA = EFFECT1;
WARNING: The BASE Product product with which PRINT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
 43                    TITLE "DATA MEANS SORTED BY TH AND AGE AND TRT";
 44
 45          *SORT DATA BY DAY, TRT AND GENDER -- THEN GET MEANS;

NOTE: The PROCEDURE PRINT printed page 21.

 46          DATA XMEAN_2; SET RAW;
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
 47

NOTE: The data set WORK.XMEAN_2 has 714 observations and 10 variables.

 47           PROC SORT; BY TH TRT;
WARNING: The BASE Product product with which SORT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
 48

NOTE: The data set WORK.XMEAN_2 has 714 observations and 10 variables.
```

```
48          PROC MEANS N MEAN STDERR MIN MAX STD VAR CV;
WARNING: The BASE Product product with which MEANS is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
49                          BY TH TRT;
50                          VAR RES;
13                                                    The SAS System                          15:53 Thursday, December 27, 2001

51                          output out=EFFECT2 MEAN=X_T3 X_T4 X_TSH STDERR=SE1 SE2 SE3;
52
53

NOTE: The data set WORK.EFFECT2 has 15 observations and 6 variables.
NOTE: The PROCEDURE MEANS printed pages 22-24.

53          PROC PRINT DATA = EFFECT2;
WARNING: The BASE Product product with which PRINT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
54                    TITLE "DATA MEANS SORTED BY TH AND TRT";
55
56
57         *  ANALYZE DATA FROM DAMS      ;
58
59         *RUN TWO-WAY ANOVAS - AGE*DOSE - ONE FOR EACH HORMONE;
60

NOTE: The PROCEDURE PRINT printed page 25.

61         DATA ANALY1; SET RAW;
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
62

NOTE: The data set WORK.ANALY1 has 714 observations and 10 variables.

62          PROC SORT;BY TH AGE TRT;
WARNING: The BASE Product product with which SORT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
63

NOTE: The data set WORK.ANALY1 has 714 observations and 10 variables.

63          PROC GLM; BY TH;
WARNING: The SAS/STAT product with which GLM is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
64                          CLASSES AGE TRT;
65                          MODEL RES = AGE|TRT;
66                          TITLE1 "WPAFB EFFECTS STUDY - DAM ANOVAS";
67                          TITLE2 "TWO-WAY ANOVAS - AGE BY TREATMENT";
68
69
70         *  STEP-DOWN ANALYSES FOR T3  ;
71         *  TWO-WAY ANOVA REVEALED ONLY MAIN EFFECTS OF AGE AND TRT;
72

NOTE: The PROCEDURE GLM printed pages 26-31.
```

```
73          DATA D_T3; SET RAW;
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
74
75                    IF TH = "T4" THEN DELETE;
76                    IF TH = "TSH" THEN DELETE;
77
78
```



```
NOTE: The data set WORK.D_T3 has 238 observations and 10 variables.

78           PROC SORT; BY TRT AGE;
WARNING: The BASE Product product with which SORT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
79

NOTE: The data set WORK.D_T3 has 238 observations and 10 variables.

79           PROC GLM;
WARNING: The SAS/STAT product with which GLM is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
80                          CLASSES TRT AGE;
81                          MODEL RES = TRT AGE;
82                          MEANS TRT/DUNCAN;
83                          TITLE1 "WPAFB EFFECTS STUDY - DAM T3 DATA";
84                          TITLE2 "ONE-WAY ANOVA - WITH AGE AND TRT IN MODEL STATEMENT";
85
86
87          *  STEP-DOWN ANALYSES FOR T4;
88          *  TWO-WAY ANOVAS REVEALED SIGNIFICANT INTERACTIONS BETWEEN AGE AND TRT;
89

NOTE: Means from the MEANS statement are not adjusted for other terms in the model.  For adjusted means, use the LSMEANS statement.
NOTE: The PROCEDURE GLM printed pages 32-34.

90          DATA D_T4; SET RAW;
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
91
92                    IF TH = "T3" THEN DELETE;
93                    IF TH = "TSH" THEN DELETE;
94
95

NOTE: The data set WORK.D_T4 has 238 observations and 10 variables.

95           PROC SORT; BY AGE TRT;
WARNING: The BASE Product product with which SORT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
96

NOTE: The data set WORK.D_T4 has 238 observations and 10 variables.

96           PROC GLM; BY AGE;
WARNING: The SAS/STAT product with which GLM is associated will expire within 30 days. Please contact your SAS installation
```

```
        representative to have it renewed.
97                          CLASSES TRT;
98                          MODEL RES = TRT;
99                          MEANS TRT/DUNCAN;
100                         TITLE1 "WPAFB EFFECTS STUDY - DAM T4 DATA";
101                         TITLE2 "ONE-WAY ANOVA - BY AGE";
102
103
104        *  STEP-DOWN ANALYSES FOR T4;
105        *  TWO-WAY ANOVAS REVEALED SIGNIFICANT INTERACTIONS BETWEEN AGE AND TRT;
106
```



```
NOTE: The PROCEDURE GLM printed pages 35-43.

107        DATA D_TSH; SET RAW;
WARNING: The BASE Product product with which DATASTEP is associated will expire within 30 days. Please contact your SAS
         installation representative to have it renewed.
108
109                  IF TH = "T3" THEN DELETE;
110                  IF TH = "T4" THEN DELETE;
111
112

NOTE: The data set WORK.D_TSH has 238 observations and 10 variables.

112         PROC SORT; BY AGE TRT;
WARNING: The BASE Product product with which SORT is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
113

NOTE: The data set WORK.D_TSH has 238 observations and 10 variables.

113         PROC GLM; BY AGE;
WARNING: The SAS/STAT product with which GLM is associated will expire within 30 days. Please contact your SAS installation
         representative to have it renewed.
114                         CLASSES TRT;
115                         MODEL RES = TRT;
116                         MEANS TRT/DUNCAN;
117                         TITLE1 "WPAFB EFFECTS STUDY - DAM TSH DATA";
118                         TITLE2 "ONE-WAY ANOVA - BY AGE";
119
120
121        ENDSAS;

NOTE: The PROCEDURE GLM printed pages 44-52.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
```


OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
1	16616	F	1	PND10	16616F1P	95.56	T3	10	dam	1-CONTROL
2	16617	F	1	PND10	16617F1P	93.44	T3	10	dam	1-CONTROL
3	16618	F	1	PND10	16618F1P	102.68	T3	10	dam	1-CONTROL
4	16619	F	1	PND10	16619F1P	115.64	T3	10	dam	1-CONTROL

5	16620	F	1	PND10	16620F1P	90.72	T3	10	dam	1-CONTROL
6	16621	F	1	PND10	16621F1P	111.27	T3	10	dam	1-CONTROL
7	16623	F	1	PND10	16623F1P	116.91	T3	10	dam	1-CONTROL
8	16625	F	1	PND10	16625F1P	79.69	T3	10	dam	1-CONTROL
9	16626	F	1	PND10	16626F1P	88.66	T3	10	dam	1-CONTROL
10	16629	F	1	PND10	16629F1P	89.68	T3	10	dam	1-CONTROL
11	16630	F	1	PND10	16630F1P	112.65	T3	10	dam	1-CONTROL
12	16631	F	1	PND10	16631F1P	104.36	T3	10	dam	1-CONTROL
13	16634	F	1	PND10	16634F1P	97.36	T3	10	dam	1-CONTROL
14	16635	F	1	PND10	16635F1P	98.18	T3	10	dam	1-CONTROL
15	16636	F	1	PND10	16636F1P	92.73	T3	10	dam	1-CONTROL
16	16637	F	1	PND10	16637F1P	109.08	T3	10	dam	1-CONTROL
17	16640	F	2	PND10	16640F2P	82.97	T3	10	dam	2----0.01
18	16641	F	2	PND10	16641F2P	97.75	T3	10	dam	2----0.01
19	16643	F	2	PND10	16643F2P	117.56	T3	10	dam	2----0.01
20	16644	F	2	PND10	16644F2P	81.08	T3	10	dam	2----0.01
21	16645	F	2	PND10	16645F2P	104.85	T3	10	dam	2----0.01
22	16646	F	2	PND10	16646F2P	118.33	T3	10	dam	2----0.01
23	16647	F	2	PND10	16647F2P	94.52	T3	10	dam	2----0.01
24	16649	F	2	PND10	16649F2P	85.38	T3	10	dam	2----0.01
25	16650	F	2	PND10	16650F2P	101.77	T3	10	dam	2----0.01
26	16651	F	2	PND10	16651F2P	100.12	T3	10	dam	2----0.01
27	16653	F	2	PND10	16653F2P	99.01	T3	10	dam	2----0.01
28	16654	F	2	PND10	16654F2P	91.84	T3	10	dam	2----0.01
29	16655	F	2	PND10	16655F2P	86.36	T3	10	dam	2----0.01
30	16656	F	2	PND10	16656F2P	104.51	T3	10	dam	2----0.01
31	16657	F	2	PND10	16657F2P	113.35	T3	10	dam	2----0.01
32	16659	F	2	PND10	16659F2P	92.23	T3	10	dam	2----0.01
33	16662	F	3	PND10	16662F3P	100.41	T3	10	dam	3-----0.1
34	16664	F	3	PND10	16664F3P	102.59	T3	10	dam	3-----0.1
35	16665	F	3	PND10	16665F3P	111.81	T3	10	dam	3-----0.1
36	16666	F	3	PND10	16666F3P	115.03	T3	10	dam	3-----0.1
37	16667	F	3	PND10	16667F3P	103.91	T3	10	dam	3-----0.1
38	16668	F	3	PND10	16668F3P	104.94	T3	10	dam	3-----0.1
39	16669	F	3	PND10	16669F3P	90.76	T3	10	dam	3-----0.1
40	16670	F	3	PND10	16670F3P	92.79	T3	10	dam	3-----0.1
41	16673	F	3	PND10	16673F3P	103.82	T3	10	dam	3-----0.1
42	16675	F	3	PND10	16675F3P	80.58	T3	10	dam	3-----0.1
43	16676	F	3	PND10	16676F3P	78.49	T3	10	dam	3-----0.1
44	16678	F	3	PND10	16678F3P	105.71	T3	10	dam	3-----0.1
45	16679	F	3	PND10	16679F3P	90.26	T3	10	dam	3-----0.1
46	16680	F	3	PND10	16680F3P	110.91	T3	10	dam	3-----0.1
47	16681	F	3	PND10	16681F3P	92.79	T3	10	dam	3-----0.1
48	16683	F	3	PND10	16683F3P	83.01	T3	10	dam	3-----0.1
49	16685	F	4	PND10	16685F4P	91.43	T3	10	dam	4-----1.0
50	16686	F	4	PND10	16686F4P	96.16	T3	10	dam	4-----1.0
51	16687	F	4	PND10	16687F4P	119.75	T3	10	dam	4-----1.0
52	16688	F	4	PND10	16688F4P	109.06	T3	10	dam	4-----1.0
53	16689	F	4	PND10	16689F4P	109.15	T3	10	dam	4-----1.0
54	16690	F	4	PND10	16690F4P	92.90	T3	10	dam	4-----1.0
55	16692	F	4	PND10	16692F4P	89.69	T3	10	dam	4-----1.0
56	16693	F	4	PND10	16693F4P	93.48	T3	10	dam	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
57	16695	F	4	PND10	16695F4P	101.30	T3	10	dam	4-----1.0

58	16696	F	4	PND10	16696F4P	93.98	T3	10	dam	4-----1.0
59	16697	F	4	PND10	16697F4P	79.92	T3	10	dam	4-----1.0
60	16698	F	4	PND10	16698F4P	82.59	T3	10	dam	4-----1.0
61	16699	F	4	PND10	16699F4P	108.70	T3	10	dam	4-----1.0
62	16701	F	4	PND10	16701F4P	94.05	T3	10	dam	4-----1.0
63	16706	F	4	PND10	16706F4P	93.17	T3	10	dam	4-----1.0
64	16707	F	4	PND10	16707F4P	107.46	T3	10	dam	4-----1.0
65	16708	F	5	PND10	16708F5P	109.60	T3	10	dam	5----30.0
66	16709	F	5	PND10	16709F5P	77.66	T3	10	dam	5----30.0
67	16711	F	5	PND10	16711F5P	83.89	T3	10	dam	5----30.0
68	16712	F	5	PND10	16712F5P	90.31	T3	10	dam	5----30.0
69	16713	F	5	PND10	16713F5P	87.47	T3	10	dam	5----30.0
70	16715	F	5	PND10	16715F5P	90.81	T3	10	dam	5----30.0
71	16716	F	5	PND10	16716F5P	104.29	T3	10	dam	5----30.0
72	16717	F	5	PND10	16717F5P	101.33	T3	10	dam	5----30.0
73	16718	F	5	PND10	16718F5P	85.60	T3	10	dam	5----30.0
74	16719	F	5	PND10	16719F5P	78.88	T3	10	dam	5----30.0
75	16722	F	5	PND10	16722F5P	95.71	T3	10	dam	5----30.0
76	16723	F	5	PND10	16723F5P	100.74	T3	10	dam	5----30.0
77	16724	F	5	PND10	16724F5P	79.56	T3	10	dam	5----30.0
78	16725	F	5	PND10	16725F5P	98.87	T3	10	dam	5----30.0
79	16728	F	5	PND10	16728F5P	95.28	T3	10	dam	5----30.0
80	16730	F	5	PND10	16730F5P	92.33	T3	10	dam	5----30.0
81	16616	F	1	PND10	16616F1P	3.76	T4	10	dam	1-CONTROL
82	16617	F	1	PND10	16617F1P	4.87	T4	10	dam	1-CONTROL
83	16618	F	1	PND10	16618F1P	4.81	T4	10	dam	1-CONTROL
84	16619	F	1	PND10	16619F1P	4.12	T4	10	dam	1-CONTROL
85	16620	F	1	PND10	16620F1P	3.72	T4	10	dam	1-CONTROL
86	16621	F	1	PND10	16621F1P	4.20	T4	10	dam	1-CONTROL
87	16623	F	1	PND10	16623F1P	3.51	T4	10	dam	1-CONTROL
88	16625	F	1	PND10	16625F1P	3.80	T4	10	dam	1-CONTROL
89	16626	F	1	PND10	16626F1P	3.54	T4	10	dam	1-CONTROL
90	16629	F	1	PND10	16629F1P	3.33	T4	10	dam	1-CONTROL
91	16630	F	1	PND10	16630F1P	4.05	T4	10	dam	1-CONTROL
92	16631	F	1	PND10	16631F1P	4.05	T4	10	dam	1-CONTROL
93	16634	F	1	PND10	16634F1P	4.46	T4	10	dam	1-CONTROL
94	16635	F	1	PND10	16635F1P	4.10	T4	10	dam	1-CONTROL
95	16636	F	1	PND10	16636F1P	3.75	T4	10	dam	1-CONTROL
96	16637	F	1	PND10	16637F1P	4.43	T4	10	dam	1-CONTROL
97	16640	F	2	PND10	16640F2P	4.10	T4	10	dam	2----0.01
98	16641	F	2	PND10	16641F2P	3.49	T4	10	dam	2----0.01
99	16643	F	2	PND10	16643F2P	3.83	T4	10	dam	2----0.01
100	16644	F	2	PND10	16644F2P	3.45	T4	10	dam	2----0.01
101	16645	F	2	PND10	16645F2P	3.72	T4	10	dam	2----0.01
102	16646	F	2	PND10	16646F2P	3.30	T4	10	dam	2----0.01
103	16647	F	2	PND10	16647F2P	4.45	T4	10	dam	2----0.01
104	16649	F	2	PND10	16649F2P	3.43	T4	10	dam	2----0.01
105	16650	F	2	PND10	16650F2P	3.55	T4	10	dam	2----0.01
106	16651	F	2	PND10	16651F2P	3.29	T4	10	dam	2----0.01
107	16653	F	2	PND10	16653F2P	3.95	T4	10	dam	2----0.01
108	16654	F	2	PND10	16654F2P	3.61	T4	10	dam	2----0.01
109	16655	F	2	PND10	16655F2P	3.97	T4	10	dam	2----0.01
110	16656	F	2	PND10	16656F2P	3.55	T4	10	dam	2----0.01
111	16657	F	2	PND10	16657F2P	4.61	T4	10	dam	2----0.01
112	16659	F	2	PND10	16659F2P	3.83	T4	10	dam	2----0.01

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
113	16662	F	3	PND10	16662F3P	3.97	T4	10	dam	3-----0.1
114	16664	F	3	PND10	16664F3P	3.48	T4	10	dam	3-----0.1
115	16665	F	3	PND10	16665F3P	3.89	T4	10	dam	3-----0.1
116	16666	F	3	PND10	16666F3P	3.18	T4	10	dam	3-----0.1
117	16667	F	3	PND10	16667F3P	3.66	T4	10	dam	3-----0.1
118	16668	F	3	PND10	16668F3P	4.57	T4	10	dam	3-----0.1
119	16669	F	3	PND10	16669F3P	3.69	T4	10	dam	3-----0.1
120	16670	F	3	PND10	16670F3P	3.90	T4	10	dam	3-----0.1
121	16673	F	3	PND10	16673F3P	3.65	T4	10	dam	3-----0.1
122	16675	F	3	PND10	16675F3P	3.35	T4	10	dam	3-----0.1
123	16676	F	3	PND10	16676F3P	3.88	T4	10	dam	3-----0.1
124	16678	F	3	PND10	16678F3P	4.02	T4	10	dam	3-----0.1
125	16679	F	3	PND10	16679F3P	4.06	T4	10	dam	3-----0.1
126	16680	F	3	PND10	16680F3P	3.81	T4	10	dam	3-----0.1
127	16681	F	3	PND10	16681F3P	3.81	T4	10	dam	3-----0.1
128	16683	F	3	PND10	16683F3P	3.03	T4	10	dam	3-----0.1
129	16685	F	4	PND10	16685F4P	3.25	T4	10	dam	4-----1.0
130	16686	F	4	PND10	16686F4P	3.84	T4	10	dam	4-----1.0
131	16687	F	4	PND10	16687F4P	4.35	T4	10	dam	4-----1.0
132	16688	F	4	PND10	16688F4P	2.84	T4	10	dam	4-----1.0
133	16689	F	4	PND10	16689F4P	3.27	T4	10	dam	4-----1.0
134	16690	F	4	PND10	16690F4P	3.39	T4	10	dam	4-----1.0
135	16692	F	4	PND10	16692F4P	3.68	T4	10	dam	4-----1.0
136	16693	F	4	PND10	16693F4P	4.34	T4	10	dam	4-----1.0
137	16695	F	4	PND10	16695F4P	4.19	T4	10	dam	4-----1.0
138	16696	F	4	PND10	16696F4P	3.34	T4	10	dam	4-----1.0
139	16697	F	4	PND10	16697F4P	3.86	T4	10	dam	4-----1.0
140	16698	F	4	PND10	16698F4P	4.02	T4	10	dam	4-----1.0
141	16699	F	4	PND10	16699F4P	3.71	T4	10	dam	4-----1.0
142	16701	F	4	PND10	16701F4P	3.26	T4	10	dam	4-----1.0
143	16706	F	4	PND10	16706F4P	3.95	T4	10	dam	4-----1.0
144	16707	F	4	PND10	16707F4P	3.96	T4	10	dam	4-----1.0
145	16708	F	5	PND10	16708F5P	3.79	T4	10	dam	5----30.0
146	16709	F	5	PND10	16709F5P	3.08	T4	10	dam	5----30.0
147	16711	F	5	PND10	16711F5P	3.98	T4	10	dam	5----30.0
148	16712	F	5	PND10	16712F5P	4.28	T4	10	dam	5----30.0
149	16713	F	5	PND10	16713F5P	3.83	T4	10	dam	5----30.0
150	16715	F	5	PND10	16715F5P	4.19	T4	10	dam	5----30.0
151	16716	F	5	PND10	16716F5P	4.00	T4	10	dam	5----30.0
152	16717	F	5	PND10	16717F5P	3.49	T4	10	dam	5----30.0
153	16718	F	5	PND10	16718F5P	3.46	T4	10	dam	5----30.0
154	16719	F	5	PND10	16719F5P	3.11	T4	10	dam	5----30.0
155	16722	F	5	PND10	16722F5P	2.93	T4	10	dam	5----30.0
156	16723	F	5	PND10	16723F5P	3.57	T4	10	dam	5----30.0
157	16724	F	5	PND10	16724F5P	3.60	T4	10	dam	5----30.0
158	16725	F	5	PND10	16725F5P	3.45	T4	10	dam	5----30.0
159	16728	F	5	PND10	16728F5P	3.78	T4	10	dam	5----30.0
160	16730	F	5	PND10	16730F5P	2.93	T4	10	dam	5----30.0
161	16616	F	1	PND10	16616F1P	5.85	TSH	10	dam	1-CONTROL
162	16617	F	1	PND10	16617F1P	5.28	TSH	10	dam	1-CONTROL
163	16618	F	1	PND10	16618F1P	5.14	TSH	10	dam	1-CONTROL
164	16619	F	1	PND10	16619F1P	4.79	TSH	10	dam	1-CONTROL
165	16620	F	1	PND10	16620F1P	4.74	TSH	10	dam	1-CONTROL
166	16621	F	1	PND10	16621F1P	4.77	TSH	10	dam	1-CONTROL
167	16623	F	1	PND10	16623F1P	4.75	TSH	10	dam	1-CONTROL

168	16625	F	1	PND10	16625F1P	3.93	TSH	10	dam	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
169	16626	F	1	PND10	16626F1P	5.20	TSH	10	dam	1-CONTROL
170	16629	F	1	PND10	16629F1P	6.05	TSH	10	dam	1-CONTROL
171	16630	F	1	PND10	16630F1P	5.54	TSH	10	dam	1-CONTROL
172	16631	F	1	PND10	16631F1P	4.57	TSH	10	dam	1-CONTROL
173	16634	F	1	PND10	16634F1P	5.08	TSH	10	dam	1-CONTROL
174	16635	F	1	PND10	16635F1P	5.05	TSH	10	dam	1-CONTROL
175	16636	F	1	PND10	16636F1P	4.63	TSH	10	dam	1-CONTROL
176	16637	F	1	PND10	16637F1P	5.70	TSH	10	dam	1-CONTROL
177	16640	F	2	PND10	16640F2P	5.48	TSH	10	dam	2----0.01
178	16641	F	2	PND10	16641F2P	5.24	TSH	10	dam	2----0.01
179	16643	F	2	PND10	16643F2P	6.46	TSH	10	dam	2----0.01
180	16644	F	2	PND10	16644F2P	7.15	TSH	10	dam	2----0.01
181	16645	F	2	PND10	16645F2P	6.86	TSH	10	dam	2----0.01
182	16646	F	2	PND10	16646F2P	7.45	TSH	10	dam	2----0.01
183	16647	F	2	PND10	16647F2P	6.62	TSH	10	dam	2----0.01
184	16649	F	2	PND10	16649F2P	6.19	TSH	10	dam	2----0.01
185	16650	F	2	PND10	16650F2P	5.60	TSH	10	dam	2----0.01
186	16651	F	2	PND10	16651F2P	7.18	TSH	10	dam	2----0.01
187	16653	F	2	PND10	16653F2P	5.98	TSH	10	dam	2----0.01
188	16654	F	2	PND10	16654F2P	6.45	TSH	10	dam	2----0.01
189	16655	F	2	PND10	16655F2P	6.22	TSH	10	dam	2----0.01
190	16656	F	2	PND10	16656F2P	7.00	TSH	10	dam	2----0.01
191	16657	F	2	PND10	16657F2P	6.34	TSH	10	dam	2----0.01
192	16659	F	2	PND10	16659F2P	5.12	TSH	10	dam	2----0.01
193	16662	F	3	PND10	16662F3P	6.67	TSH	10	dam	3-----0.1
194	16664	F	3	PND10	16664F3P	5.21	TSH	10	dam	3-----0.1
195	16665	F	3	PND10	16665F3P	7.60	TSH	10	dam	3-----0.1
196	16666	F	3	PND10	16666F3P	7.51	TSH	10	dam	3-----0.1
197	16667	F	3	PND10	16667F3P	6.70	TSH	10	dam	3-----0.1
198	16668	F	3	PND10	16668F3P	4.99	TSH	10	dam	3-----0.1
199	16669	F	3	PND10	16669F3P	6.19	TSH	10	dam	3-----0.1
200	16670	F	3	PND10	16670F3P	6.23	TSH	10	dam	3-----0.1
201	16673	F	3	PND10	16673F3P	7.18	TSH	10	dam	3-----0.1
202	16675	F	3	PND10	16675F3P	6.40	TSH	10	dam	3-----0.1
203	16676	F	3	PND10	16676F3P	6.66	TSH	10	dam	3-----0.1
204	16678	F	3	PND10	16678F3P	6.56	TSH	10	dam	3-----0.1
205	16679	F	3	PND10	16679F3P	7.16	TSH	10	dam	3-----0.1
206	16680	F	3	PND10	16680F3P	6.99	TSH	10	dam	3-----0.1
207	16681	F	3	PND10	16681F3P	6.09	TSH	10	dam	3-----0.1
208	16683	F	3	PND10	16683F3P	6.14	TSH	10	dam	3-----0.1
209	16685	F	4	PND10	16685F4P	6.37	TSH	10	dam	4-----1.0
210	16686	F	4	PND10	16686F4P	7.13	TSH	10	dam	4-----1.0
211	16687	F	4	PND10	16687F4P	6.34	TSH	10	dam	4-----1.0
212	16688	F	4	PND10	16688F4P	6.64	TSH	10	dam	4-----1.0
213	16689	F	4	PND10	16689F4P	7.41	TSH	10	dam	4-----1.0
214	16690	F	4	PND10	16690F4P	6.09	TSH	10	dam	4-----1.0
215	16692	F	4	PND10	16692F4P	7.11	TSH	10	dam	4-----1.0
216	16693	F	4	PND10	16693F4P	6.25	TSH	10	dam	4-----1.0
217	16695	F	4	PND10	16695F4P	6.81	TSH	10	dam	4-----1.0
218	16696	F	4	PND10	16696F4P	8.34	TSH	10	dam	4-----1.0
219	16697	F	4	PND10	16697F4P	5.70	TSH	10	dam	4-----1.0
220	16698	F	4	PND10	16698F4P	6.62	TSH	10	dam	4-----1.0

221	16699	F	4	PND10	16699F4P	6.45	TSH	10	dam	4-----1.0
222	16701	F	4	PND10	16701F4P	8.23	TSH	10	dam	4-----1.0
223	16706	F	4	PND10	16706F4P	7.89	TSH	10	dam	4-----1.0
224	16707	F	4	PND10	16707F4P	7.04	TSH	10	dam	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
225	16708	F	5	PND10	16708F5P	10.68	TSH	10	dam	5----30.0
226	16709	F	5	PND10	16709F5P	9.42	TSH	10	dam	5----30.0
227	16711	F	5	PND10	16711F5P	13.39	TSH	10	dam	5----30.0
228	16712	F	5	PND10	16712F5P	12.00	TSH	10	dam	5----30.0
229	16713	F	5	PND10	16713F5P	12.41	TSH	10	dam	5----30.0
230	16715	F	5	PND10	16715F5P	13.45	TSH	10	dam	5----30.0
231	16716	F	5	PND10	16716F5P	11.96	TSH	10	dam	5----30.0
232	16717	F	5	PND10	16717F5P	10.32	TSH	10	dam	5----30.0
233	16718	F	5	PND10	16718F5P	11.50	TSH	10	dam	5----30.0
234	16719	F	5	PND10	16719F5P	12.55	TSH	10	dam	5----30.0
235	16722	F	5	PND10	16722F5P	13.54	TSH	10	dam	5----30.0
236	16723	F	5	PND10	16723F5P	11.73	TSH	10	dam	5----30.0
237	16724	F	5	PND10	16724F5P	9.86	TSH	10	dam	5----30.0
238	16725	F	5	PND10	16725F5P	11.20	TSH	10	dam	5----30.0
239	16728	F	5	PND10	16728F5P	11.24	TSH	10	dam	5----30.0
240	16730	F	5	PND10	16730F5P	10.52	TSH	10	dam	5----30.0
241	16501	F	1	DAY21	16501F1D	5.19	TSH	GD20	dam	1-CONTROL
242	16502	F	1	DAY21	16502F1D	5.71	TSH	GD20	dam	1-CONTROL
243	16503	F	1	DAY21	16503F1D	5.67	TSH	GD20	dam	1-CONTROL
244	16504	F	1	DAY21	16504F1D	5.49	TSH	GD20	dam	1-CONTROL
245	16505	F	1	DAY21	16505F1D	5.49	TSH	GD20	dam	1-CONTROL
246	16506	F	1	DAY21	16506F1D	6.89	TSH	GD20	dam	1-CONTROL
247	16508	F	1	DAY21	16508F1D	6.17	TSH	GD20	dam	1-CONTROL
248	16509	F	1	DAY21	16509F1D	6.71	TSH	GD20	dam	1-CONTROL
249	16510	F	1	DAY21	16510F1D	6.30	TSH	GD20	dam	1-CONTROL
250	16513	F	1	DAY21	16513F1D	6.61	TSH	GD20	dam	1-CONTROL
251	16514	F	1	DAY21	16514F1D	6.34	TSH	GD20	dam	1-CONTROL
252	16515	F	1	DAY21	16515F1D	7.26	TSH	GD20	dam	1-CONTROL
253	16516	F	1	DAY21	16516F1D	5.72	TSH	GD20	dam	1-CONTROL
254	16519	F	1	DAY21	16519F1D	5.61	TSH	GD20	dam	1-CONTROL
255	16521	F	1	DAY21	16521F1D	6.07	TSH	GD20	dam	1-CONTROL
256	16522	F	1	DAY21	16522F1D	5.52	TSH	GD20	dam	1-CONTROL
257	16501	F	1	DAY21	16501F1D	2.24	T4	GD20	dam	1-CONTROL
258	16502	F	1	DAY21	16502F1D	2.37	T4	GD20	dam	1-CONTROL
259	16503	F	1	DAY21	16503F1D	2.31	T4	GD20	dam	1-CONTROL
260	16504	F	1	DAY21	16504F1D	2.37	T4	GD20	dam	1-CONTROL
261	16505	F	1	DAY21	16505F1D	2.18	T4	GD20	dam	1-CONTROL
262	16506	F	1	DAY21	16506F1D	2.17	T4	GD20	dam	1-CONTROL
263	16508	F	1	DAY21	16508F1D	2.24	T4	GD20	dam	1-CONTROL
264	16509	F	1	DAY21	16509F1D	2.27	T4	GD20	dam	1-CONTROL
265	16510	F	1	DAY21	16510F1D	2.20	T4	GD20	dam	1-CONTROL
266	16513	F	1	DAY21	16513F1D	2.20	T4	GD20	dam	1-CONTROL
267	16514	F	1	DAY21	16514F1D	2.56	T4	GD20	dam	1-CONTROL
268	16515	F	1	DAY21	16515F1D	2.42	T4	GD20	dam	1-CONTROL
269	16516	F	1	DAY21	16516F1D	2.54	T4	GD20	dam	1-CONTROL
270	16519	F	1	DAY21	16519F1D	2.22	T4	GD20	dam	1-CONTROL
271	16521	F	1	DAY21	16521F1D	2.43	T4	GD20	dam	1-CONTROL
272	16522	F	1	DAY21	16522F1D	2.27	T4	GD20	dam	1-CONTROL
273	16501	F	1	DAY21	16501F1D	92.75	T3	GD20	dam	1-CONTROL

274	16502	F	1	DAY21	16502F1D	103.43	T3	GD20	dam	1-CONTROL
275	16503	F	1	DAY21	16503F1D	94.47	T3	GD20	dam	1-CONTROL
276	16504	F	1	DAY21	16504F1D	95.08	T3	GD20	dam	1-CONTROL
277	16505	F	1	DAY21	16505F1D	91.53	T3	GD20	dam	1-CONTROL
278	16506	F	1	DAY21	16506F1D	99.44	T3	GD20	dam	1-CONTROL
279	16508	F	1	DAY21	16508F1D	99.27	T3	GD20	dam	1-CONTROL
280	16509	F	1	DAY21	16509F1D	98.81	T3	GD20	dam	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
281	16510	F	1	DAY21	16510F1D	109.73	T3	GD20	dam	1-CONTROL
282	16513	F	1	DAY21	16513F1D	109.11	T3	GD20	dam	1-CONTROL
283	16514	F	1	DAY21	16514F1D	94.90	T3	GD20	dam	1-CONTROL
284	16515	F	1	DAY21	16515F1D	.	T3	GD20	dam	1-CONTROL
285	16516	F	1	DAY21	16516F1D	99.37	T3	GD20	dam	1-CONTROL
286	16519	F	1	DAY21	16519F1D	108.49	T3	GD20	dam	1-CONTROL
287	16521	F	1	DAY21	16521F1D	103.79	T3	GD20	dam	1-CONTROL
288	16522	F	1	DAY21	16522F1D	94.88	T3	GD20	dam	1-CONTROL
289	16524	F	2	DAY21	16524F2D	8.66	TSH	GD20	dam	2----0.01
290	16525	F	2	DAY21	16525F2D	8.38	TSH	GD20	dam	2----0.01
291	16526	F	2	DAY21	16526F2D	7.78	TSH	GD20	dam	2----0.01
292	16528	F	2	DAY21	16528F2D	7.93	TSH	GD20	dam	2----0.01
293	16529	F	2	DAY21	16529F2D	7.59	TSH	GD20	dam	2----0.01
294	16531	F	2	DAY21	16531F2D	9.44	TSH	GD20	dam	2----0.01
295	16532	F	2	DAY21	16532F2D	8.98	TSH	GD20	dam	2----0.01
296	16535	F	2	DAY21	16535F2D	7.27	TSH	GD20	dam	2----0.01
297	16536	F	2	DAY21	16536F2D	6.48	TSH	GD20	dam	2----0.01
298	16539	F	2	DAY21	16539F2D	9.10	TSH	GD20	dam	2----0.01
299	16540	F	2	DAY21	16540F2D	7.83	TSH	GD20	dam	2----0.01
300	16541	F	2	DAY21	16541F2D	8.72	TSH	GD20	dam	2----0.01
301	16542	F	2	DAY21	16542F2D	7.87	TSH	GD20	dam	2----0.01
302	16544	F	2	DAY21	16544F2D	8.02	TSH	GD20	dam	2----0.01
303	16545	F	2	DAY21	16545F2D	7.79	TSH	GD20	dam	2----0.01
304	16546	F	2	DAY21	16546F2D	9.00	TSH	GD20	dam	2----0.01
305	16524	F	2	DAY21	16524F2D	1.98	T4	GD20	dam	2----0.01
306	16525	F	2	DAY21	16525F2D	2.52	T4	GD20	dam	2----0.01
307	16526	F	2	DAY21	16526F2D	2.08	T4	GD20	dam	2----0.01
308	16528	F	2	DAY21	16528F2D	2.17	T4	GD20	dam	2----0.01
309	16529	F	2	DAY21	16529F2D	2.10	T4	GD20	dam	2----0.01
310	16531	F	2	DAY21	16531F2D	1.74	T4	GD20	dam	2----0.01
311	16532	F	2	DAY21	16532F2D	2.02	T4	GD20	dam	2----0.01
312	16535	F	2	DAY21	16535F2D	2.16	T4	GD20	dam	2----0.01
313	16536	F	2	DAY21	16536F2D	1.87	T4	GD20	dam	2----0.01
314	16539	F	2	DAY21	16539F2D	1.90	T4	GD20	dam	2----0.01
315	16540	F	2	DAY21	16540F2D	2.53	T4	GD20	dam	2----0.01
316	16541	F	2	DAY21	16541F2D	1.91	T4	GD20	dam	2----0.01
317	16542	F	2	DAY21	16542F2D	1.74	T4	GD20	dam	2----0.01
318	16544	F	2	DAY21	16544F2D	2.15	T4	GD20	dam	2----0.01
319	16545	F	2	DAY21	16545F2D	2.01	T4	GD20	dam	2----0.01
320	16546	F	2	DAY21	16546F2D	2.04	T4	GD20	dam	2----0.01
321	16524	F	2	DAY21	16524F2D	97.52	T3	GD20	dam	2----0.01
322	16525	F	2	DAY21	16525F2D	96.88	T3	GD20	dam	2----0.01
323	16526	F	2	DAY21	16526F2D	96.44	T3	GD20	dam	2----0.01
324	16528	F	2	DAY21	16528F2D	110.74	T3	GD20	dam	2----0.01
325	16529	F	2	DAY21	16529F2D	93.54	T3	GD20	dam	2----0.01
326	16531	F	2	DAY21	16531F2D	82.55	T3	GD20	dam	2----0.01

327	16532	F	2	DAY21	16532F2D	103.09	T3	GD20	dam	2----0.01
328	16535	F	2	DAY21	16535F2D	95.74	T3	GD20	dam	2----0.01
329	16536	F	2	DAY21	16536F2D	78.42	T3	GD20	dam	2----0.01
330	16539	F	2	DAY21	16539F2D	95.74	T3	GD20	dam	2----0.01
331	16540	F	2	DAY21	16540F2D	89.55	T3	GD20	dam	2----0.01
332	16541	F	2	DAY21	16541F2D	117.18	T3	GD20	dam	2----0.01
333	16542	F	2	DAY21	16542F2D	98.18	T3	GD20	dam	2----0.01
334	16544	F	2	DAY21	16544F2D	.	T3	GD20	dam	2----0.01
335	16545	F	2	DAY21	16545F2D	104.02	T3	GD20	dam	2----0.01
336	16546	F	2	DAY21	16546F2D	100.18	T3	GD20	dam	2----0.01

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
337	16547	F	3	DAY21	16547F3D	9.52	TSH	GD20	dam	3-----0.1
338	16548	F	3	DAY21	16548F3D	9.60	TSH	GD20	dam	3-----0.1
339	16550	F	3	DAY21	16550F3D	8.22	TSH	GD20	dam	3-----0.1
340	16552	F	3	DAY21	16552F3D	7.58	TSH	GD20	dam	3-----0.1
341	16553	F	3	DAY21	16553F3D	8.85	TSH	GD20	dam	3-----0.1
342	16554	F	3	DAY21	16554F3D	8.02	TSH	GD20	dam	3-----0.1
343	16555	F	3	DAY21	16555F3D	9.32	TSH	GD20	dam	3-----0.1
344	16557	F	3	DAY21	16557F3D	8.56	TSH	GD20	dam	3-----0.1
345	16559	F	3	DAY21	16559F3D	9.79	TSH	GD20	dam	3-----0.1
346	16560	F	3	DAY21	16560F3D	9.55	TSH	GD20	dam	3-----0.1
347	16561	F	3	DAY21	16561F3D	9.51	TSH	GD20	dam	3-----0.1
348	16562	F	3	DAY21	16562F3D	10.10	TSH	GD20	dam	3-----0.1
349	16563	F	3	DAY21	16563F3D	9.95	TSH	GD20	dam	3-----0.1
350	16565	F	3	DAY21	16565F3D	8.35	TSH	GD20	dam	3-----0.1
351	16566	F	3	DAY21	16566F3D	8.19	TSH	GD20	dam	3-----0.1
352	16567	F	3	DAY21	16567F3D	10.34	TSH	GD20	dam	3-----0.1
353	16547	F	3	DAY21	16547F3D	1.37	T4	GD20	dam	3-----0.1
354	16548	F	3	DAY21	16548F3D	1.05	T4	GD20	dam	3-----0.1
355	16550	F	3	DAY21	16550F3D	1.15	T4	GD20	dam	3-----0.1
356	16552	F	3	DAY21	16552F3D	1.32	T4	GD20	dam	3-----0.1
357	16553	F	3	DAY21	16553F3D	1.20	T4	GD20	dam	3-----0.1
358	16554	F	3	DAY21	16554F3D	1.32	T4	GD20	dam	3-----0.1
359	16555	F	3	DAY21	16555F3D	1.47	T4	GD20	dam	3-----0.1
360	16557	F	3	DAY21	16557F3D	1.23	T4	GD20	dam	3-----0.1
361	16559	F	3	DAY21	16559F3D	1.31	T4	GD20	dam	3-----0.1
362	16560	F	3	DAY21	16560F3D	1.55	T4	GD20	dam	3-----0.1
363	16561	F	3	DAY21	16561F3D	1.34	T4	GD20	dam	3-----0.1
364	16562	F	3	DAY21	16562F3D	1.12	T4	GD20	dam	3-----0.1
365	16563	F	3	DAY21	16563F3D	1.27	T4	GD20	dam	3-----0.1
366	16565	F	3	DAY21	16565F3D	1.21	T4	GD20	dam	3-----0.1
367	16566	F	3	DAY21	16566F3D	1.40	T4	GD20	dam	3-----0.1
368	16567	F	3	DAY21	16567F3D	1.25	T4	GD20	dam	3-----0.1
369	16547	F	3	DAY21	16547F3D	99.18	T3	GD20	dam	3-----0.1
370	16548	F	3	DAY21	16548F3D	94.42	T3	GD20	dam	3-----0.1
371	16550	F	3	DAY21	16550F3D	96.55	T3	GD20	dam	3-----0.1
372	16552	F	3	DAY21	16552F3D	94.89	T3	GD20	dam	3-----0.1
373	16553	F	3	DAY21	16553F3D	84.04	T3	GD20	dam	3-----0.1
374	16554	F	3	DAY21	16554F3D	95.06	T3	GD20	dam	3-----0.1
375	16555	F	3	DAY21	16555F3D	104.14	T3	GD20	dam	3-----0.1
376	16557	F	3	DAY21	16557F3D	90.35	T3	GD20	dam	3-----0.1
377	16559	F	3	DAY21	16559F3D	97.68	T3	GD20	dam	3-----0.1
378	16560	F	3	DAY21	16560F3D	96.46	T3	GD20	dam	3-----0.1
379	16561	F	3	DAY21	16561F3D	91.85	T3	GD20	dam	3-----0.1

380	16562	F	3	DAY21	16562F3D	110.63	T3	GD20	dam	3-----0.1
381	16563	F	3	DAY21	16563F3D	93.37	T3	GD20	dam	3-----0.1
382	16565	F	3	DAY21	16565F3D	92.30	T3	GD20	dam	3-----0.1
383	16566	F	3	DAY21	16566F3D	.	T3	GD20	dam	3-----0.1
384	16567	F	3	DAY21	16567F3D	.	T3	GD20	dam	3-----0.1
385	16570	F	4	DAY21	16570F4D	9.02	TSH	GD20	dam	4-----1.0
386	16571	F	4	DAY21	16571F4D	11.18	TSH	GD20	dam	4-----1.0
387	16574	F	4	DAY21	16574F4D	10.26	TSH	GD20	dam	4-----1.0
388	16575	F	4	DAY21	16575F4D	8.98	TSH	GD20	dam	4-----1.0
389	16576	F	4	DAY21	16576F4D	8.33	TSH	GD20	dam	4-----1.0
390	16577	F	4	DAY21	16577F4D	9.71	TSH	GD20	dam	4-----1.0
391	16578	F	4	DAY21	16578F4D	11.30	TSH	GD20	dam	4-----1.0
392	16579	F	4	DAY21	16579F4D	11.31	TSH	GD20	dam	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
393	16580	F	4	DAY21	16580F4D	10.10	TSH	GD20	dam	4-----1.0
394	16581	F	4	DAY21	16581F4D	8.93	TSH	GD20	dam	4-----1.0
395	16582	F	4	DAY21	16582F4D	10.70	TSH	GD20	dam	4-----1.0
396	16583	F	4	DAY21	16583F4D	9.73	TSH	GD20	dam	4-----1.0
397	16584	F	4	DAY21	16584F4D	8.72	TSH	GD20	dam	4-----1.0
398	16587	F	4	DAY21	16587F4D	10.44	TSH	GD20	dam	4-----1.0
399	16589	F	4	DAY21	16589F4D	10.32	TSH	GD20	dam	4-----1.0
400	16570	F	4	DAY21	16570F4D	1.22	T4	GD20	dam	4-----1.0
401	16571	F	4	DAY21	16571F4D	1.12	T4	GD20	dam	4-----1.0
402	16574	F	4	DAY21	16574F4D	1.27	T4	GD20	dam	4-----1.0
403	16575	F	4	DAY21	16575F4D	1.14	T4	GD20	dam	4-----1.0
404	16576	F	4	DAY21	16576F4D	0.87	T4	GD20	dam	4-----1.0
405	16577	F	4	DAY21	16577F4D	1.26	T4	GD20	dam	4-----1.0
406	16578	F	4	DAY21	16578F4D	1.24	T4	GD20	dam	4-----1.0
407	16579	F	4	DAY21	16579F4D	1.33	T4	GD20	dam	4-----1.0
408	16580	F	4	DAY21	16580F4D	1.35	T4	GD20	dam	4-----1.0
409	16581	F	4	DAY21	16581F4D	1.19	T4	GD20	dam	4-----1.0
410	16582	F	4	DAY21	16582F4D	1.19	T4	GD20	dam	4-----1.0
411	16583	F	4	DAY21	16583F4D	1.29	T4	GD20	dam	4-----1.0
412	16584	F	4	DAY21	16584F4D	1.06	T4	GD20	dam	4-----1.0
413	16587	F	4	DAY21	16587F4D	1.16	T4	GD20	dam	4-----1.0
414	16589	F	4	DAY21	16589F4D	.	T4	GD20	dam	4-----1.0
415	16570	F	4	DAY21	16570F4D	84.88	T3	GD20	dam	4-----1.0
416	16571	F	4	DAY21	16571F4D	87.15	T3	GD20	dam	4-----1.0
417	16574	F	4	DAY21	16574F4D	.	T3	GD20	dam	4-----1.0
418	16575	F	4	DAY21	16575F4D	97.02	T3	GD20	dam	4-----1.0
419	16576	F	4	DAY21	16576F4D	96.64	T3	GD20	dam	4-----1.0
420	16577	F	4	DAY21	16577F4D	95.03	T3	GD20	dam	4-----1.0
421	16578	F	4	DAY21	16578F4D	104.73	T3	GD20	dam	4-----1.0
422	16579	F	4	DAY21	16579F4D	86.34	T3	GD20	dam	4-----1.0
423	16580	F	4	DAY21	16580F4D	102.94	T3	GD20	dam	4-----1.0
424	16581	F	4	DAY21	16581F4D	88.36	T3	GD20	dam	4-----1.0
425	16582	F	4	DAY21	16582F4D	80.14	T3	GD20	dam	4-----1.0
426	16583	F	4	DAY21	16583F4D	99.44	T3	GD20	dam	4-----1.0
427	16584	F	4	DAY21	16584F4D	109.17	T3	GD20	dam	4-----1.0
428	16587	F	4	DAY21	16587F4D	81.72	T3	GD20	dam	4-----1.0
429	16589	F	4	DAY21	16589F4D	88.52	T3	GD20	dam	4-----1.0
430	16593	F	5	DAY21	16593F5D	15.37	TSH	GD20	dam	5----30.0
431	16594	F	5	DAY21	16594F5D	12.93	TSH	GD20	dam	5----30.0
432	16596	F	5	DAY21	16596F5D	15.02	TSH	GD20	dam	5----30.0

433	16597	F	5	DAY21	16597F5D	12.71	TSH	GD20	dam	5----30.0
434	16598	F	5	DAY21	16598F5D	13.47	TSH	GD20	dam	5----30.0
435	16600	F	5	DAY21	16600F5D	17.57	TSH	GD20	dam	5----30.0
436	16601	F	5	DAY21	16601F5D	15.18	TSH	GD20	dam	5----30.0
437	16602	F	5	DAY21	16602F5D	16.92	TSH	GD20	dam	5----30.0
438	16605	F	5	DAY21	16605F5D	14.38	TSH	GD20	dam	5----30.0
439	16606	F	5	DAY21	16606F5D	13.85	TSH	GD20	dam	5----30.0
440	16608	F	5	DAY21	16608F5D	17.08	TSH	GD20	dam	5----30.0
441	16609	F	5	DAY21	16609F5D	14.49	TSH	GD20	dam	5----30.0
442	16610	F	5	DAY21	16610F5D	14.73	TSH	GD20	dam	5----30.0
443	16611	F	5	DAY21	16611F5D	16.02	TSH	GD20	dam	5----30.0
444	16613	F	5	DAY21	16613F5D	13.13	TSH	GD20	dam	5----30.0
445	16614	F	5	DAY21	16614F5D	15.12	TSH	GD20	dam	5----30.0
446	16593	F	5	DAY21	16593F5D	1.05	T4	GD20	dam	5----30.0
447	16594	F	5	DAY21	16594F5D	1.03	T4	GD20	dam	5----30.0
448	16596	F	5	DAY21	16596F5D	1.09	T4	GD20	dam	5----30.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
449	16597	F	5	DAY21	16597F5D	1.09	T4	GD20	dam	5----30.0
450	16598	F	5	DAY21	16598F5D	1.10	T4	GD20	dam	5----30.0
451	16600	F	5	DAY21	16600F5D	1.04	T4	GD20	dam	5----30.0
452	16601	F	5	DAY21	16601F5D	1.27	T4	GD20	dam	5----30.0
453	16602	F	5	DAY21	16602F5D	1.21	T4	GD20	dam	5----30.0
454	16605	F	5	DAY21	16605F5D	1.00	T4	GD20	dam	5----30.0
455	16606	F	5	DAY21	16606F5D	0.91	T4	GD20	dam	5----30.0
456	16608	F	5	DAY21	16608F5D	1.02	T4	GD20	dam	5----30.0
457	16609	F	5	DAY21	16609F5D	1.14	T4	GD20	dam	5----30.0
458	16610	F	5	DAY21	16610F5D	1.20	T4	GD20	dam	5----30.0
459	16611	F	5	DAY21	16611F5D	0.97	T4	GD20	dam	5----30.0
460	16613	F	5	DAY21	16613F5D	0.91	T4	GD20	dam	5----30.0
461	16614	F	5	DAY21	16614F5D	0.94	T4	GD20	dam	5----30.0
462	16593	F	5	DAY21	16593F5D	89.25	T3	GD20	dam	5----30.0
463	16594	F	5	DAY21	16594F5D	102.64	T3	GD20	dam	5----30.0
464	16596	F	5	DAY21	16596F5D	86.49	T3	GD20	dam	5----30.0
465	16597	F	5	DAY21	16597F5D	82.38	T3	GD20	dam	5----30.0
466	16598	F	5	DAY21	16598F5D	104.30	T3	GD20	dam	5----30.0
467	16600	F	5	DAY21	16600F5D	79.47	T3	GD20	dam	5----30.0
468	16601	F	5	DAY21	16601F5D	89.25	T3	GD20	dam	5----30.0
469	16602	F	5	DAY21	16602F5D	84.87	T3	GD20	dam	5----30.0
470	16605	F	5	DAY21	16605F5D	74.07	T3	GD20	dam	5----30.0
471	16606	F	5	DAY21	16606F5D	85.04	T3	GD20	dam	5----30.0
472	16608	F	5	DAY21	16608F5D	76.83	T3	GD20	dam	5----30.0
473	16609	F	5	DAY21	16609F5D	90.11	T3	GD20	dam	5----30.0
474	16610	F	5	DAY21	16610F5D	.	T3	GD20	dam	5----30.0
475	16611	F	5	DAY21	16611F5D	87.13	T3	GD20	dam	5----30.0
476	16613	F	5	DAY21	16613F5D	95.93	T3	GD20	dam	5----30.0
477	16614	F	5	DAY21	16614F5D	83.75	T3	GD20	dam	5----30.0
478	16731	F	1	PND22	16731F1P	6.54	TSH	PND22	dam	1-CONTROL
479	16732	F	1	PND22	16732F1P	6.51	TSH	PND22	dam	1-CONTROL
480	16734	F	1	PND22	16734F1P	7.50	TSH	PND22	dam	1-CONTROL
481	16735	F	1	PND22	16735F1P	7.63	TSH	PND22	dam	1-CONTROL
482	16736	F	1	PND22	16736F1P	7.57	TSH	PND22	dam	1-CONTROL
483	16737	F	1	PND22	16737F1P	5.88	TSH	PND22	dam	1-CONTROL
484	16738	F	1	PND22	16738F1P	6.88	TSH	PND22	dam	1-CONTROL
485	16740	F	1	PND22	16740F1P	6.14	TSH	PND22	dam	1-CONTROL

486	16741	F	1	PND22	16741F1P	5.85	TSH	PND22	dam	1-CONTROL
487	16742	F	1	PND22	16742F1P	7.72	TSH	PND22	dam	1-CONTROL
488	16745	F	1	PND22	16745F1P	6.90	TSH	PND22	dam	1-CONTROL
489	16746	F	1	PND22	16746F1P	6.18	TSH	PND22	dam	1-CONTROL
490	16747	F	1	PND22	16747F1P	6.82	TSH	PND22	dam	1-CONTROL
491	16749	F	1	PND22	16749F1P	7.80	TSH	PND22	dam	1-CONTROL
492	16750	F	1	PND22	16750F1P	7.99	TSH	PND22	dam	1-CONTROL
493	16753	F	2	PND22	16753F2P	7.20	TSH	PND22	dam	2----0.01
494	16755	F	2	PND22	16755F2P	7.39	TSH	PND22	dam	2----0.01
495	16758	F	2	PND22	16758F2P	8.45	TSH	PND22	dam	2----0.01
496	16760	F	2	PND22	16760F2P	8.59	TSH	PND22	dam	2----0.01
497	16761	F	2	PND22	16761F2P	7.29	TSH	PND22	dam	2----0.01
498	16762	F	2	PND22	16762F2P	7.37	TSH	PND22	dam	2----0.01
499	16763	F	2	PND22	16763F2P	6.02	TSH	PND22	dam	2----0.01
500	16764	F	2	PND22	16764F2P	6.84	TSH	PND22	dam	2----0.01
501	16765	F	2	PND22	16765F2P	6.83	TSH	PND22	dam	2----0.01
502	16767	F	2	PND22	16767F2P	8.45	TSH	PND22	dam	2----0.01
503	16768	F	2	PND22	16768F2P	6.60	TSH	PND22	dam	2----0.01
504	16769	F	2	PND22	16769F2P	7.25	TSH	PND22	dam	2----0.01

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
505	16770	F	2	PND22	16770F2P	6.60	TSH	PND22	dam	2----0.01
506	16771	F	2	PND22	16771F2P	8.18	TSH	PND22	dam	2----0.01
507	16773	F	2	PND22	16773F2P	6.72	TSH	PND22	dam	2----0.01
508	16774	F	2	PND22	16774F2P	7.52	TSH	PND22	dam	2----0.01
509	16776	F	1	PND22	16776F1P	8.25	TSH	PND22	dam	1-CONTROL
510	16781	F	3	PND22	16781F3P	8.28	TSH	PND22	dam	3-----0.1
511	16782	F	3	PND22	16782F3P	9.70	TSH	PND22	dam	3-----0.1
512	16783	F	3	PND22	16783F3P	8.82	TSH	PND22	dam	3-----0.1
513	16784	F	3	PND22	16784F3P	7.81	TSH	PND22	dam	3-----0.1
514	16786	F	3	PND22	16786F3P	8.10	TSH	PND22	dam	3-----0.1
515	16787	F	3	PND22	16787F3P	7.34	TSH	PND22	dam	3-----0.1
516	16791	F	3	PND22	16791F3P	7.88	TSH	PND22	dam	3-----0.1
517	16792	F	3	PND22	16792F3P	8.82	TSH	PND22	dam	3-----0.1
518	16793	F	3	PND22	16793F3P	6.78	TSH	PND22	dam	3-----0.1
519	16794	F	3	PND22	16794F3P	7.72	TSH	PND22	dam	3-----0.1
520	16795	F	3	PND22	16795F3P	8.77	TSH	PND22	dam	3-----0.1
521	16796	F	3	PND22	16796F3P	6.83	TSH	PND22	dam	3-----0.1
522	16797	F	3	PND22	16797F3P	7.11	TSH	PND22	dam	3-----0.1
523	16798	F	3	PND22	16798F3P	9.23	TSH	PND22	dam	3-----0.1
524	16799	F	3	PND22	16799F3P	8.45	TSH	PND22	dam	3-----0.1
525	16800	F	4	PND22	16800F4P	7.99	TSH	PND22	dam	4-----1.0
526	16801	F	4	PND22	16801F4P	8.31	TSH	PND22	dam	4-----1.0
527	16802	F	4	PND22	16802F4P	7.56	TSH	PND22	dam	4-----1.0
528	16803	F	4	PND22	16803F4P	7.91	TSH	PND22	dam	4-----1.0
529	16805	F	4	PND22	16805F4P	7.96	TSH	PND22	dam	4-----1.0
530	16806	F	4	PND22	16806F4P	8.53	TSH	PND22	dam	4-----1.0
531	16807	F	4	PND22	16807F4P	9.17	TSH	PND22	dam	4-----1.0
532	16808	F	4	PND22	16808F4P	9.32	TSH	PND22	dam	4-----1.0
533	16810	F	4	PND22	16810F4P	6.94	TSH	PND22	dam	4-----1.0
534	16811	F	4	PND22	16811F4P	8.23	TSH	PND22	dam	4-----1.0
535	16814	F	4	PND22	16814F4P	7.32	TSH	PND22	dam	4-----1.0
536	16815	F	4	PND22	16815F4P	7.75	TSH	PND22	dam	4-----1.0
537	16817	F	4	PND22	16817F4P	9.68	TSH	PND22	dam	4-----1.0
538	16818	F	4	PND22	16818F4P	8.87	TSH	PND22	dam	4-----1.0

539	16820	F	4	PND22	16820F4P	7.33	TSH	PND22	dam	4-----1.0
540	16822	F	4	PND22	16822F4P	7.50	TSH	PND22	dam	4-----1.0
541	16823	F	5	PND22	16823F5P	9.55	TSH	PND22	dam	5----30.0
542	16825	F	5	PND22	16825F5P	10.09	TSH	PND22	dam	5----30.0
543	16826	F	5	PND22	16826F5P	10.96	TSH	PND22	dam	5----30.0
544	16827	F	5	PND22	16827F5P	9.59	TSH	PND22	dam	5----30.0
545	16828	F	5	PND22	16828F5P	10.29	TSH	PND22	dam	5----30.0
546	16830	F	5	PND22	16830F5P	11.12	TSH	PND22	dam	5----30.0
547	16831	F	5	PND22	16831F5P	10.99	TSH	PND22	dam	5----30.0
548	16833	F	5	PND22	16833F5P	10.75	TSH	PND22	dam	5----30.0
549	16834	F	5	PND22	16834F5P	10.68	TSH	PND22	dam	5----30.0
550	16836	F	5	PND22	16836F5P	9.73	TSH	PND22	dam	5----30.0
551	16837	F	5	PND22	16837F5P	8.23	TSH	PND22	dam	5----30.0
552	16839	F	5	PND22	16839F5P	8.34	TSH	PND22	dam	5----30.0
553	16840	F	5	PND22	16840F5P	8.60	TSH	PND22	dam	5----30.0
554	16842	F	5	PND22	16842F5P	12.43	TSH	PND22	dam	5----30.0
555	16843	F	5	PND22	16843F5P	10.74	TSH	PND22	dam	5----30.0
556	16844	F	5	PND22	16844F5P	9.62	TSH	PND22	dam	5----30.0
557	16731	F	1	PND22	16731F1P	3.00	T4	PND22	dam	1-CONTROL
558	16732	F	1	PND22	16732F1P	3.97	T4	PND22	dam	1-CONTROL
559	16734	F	1	PND22	16734F1P	3.18	T4	PND22	dam	1-CONTROL
560	16735	F	1	PND22	16735F1P	3.14	T4	PND22	dam	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
561	16736	F	1	PND22	16736F1P	3.81	T4	PND22	dam	1-CONTROL
562	16737	F	1	PND22	16737F1P	2.91	T4	PND22	dam	1-CONTROL
563	16738	F	1	PND22	16738F1P	3.11	T4	PND22	dam	1-CONTROL
564	16740	F	1	PND22	16740F1P	3.50	T4	PND22	dam	1-CONTROL
565	16741	F	1	PND22	16741F1P	3.86	T4	PND22	dam	1-CONTROL
566	16742	F	1	PND22	16742F1P	3.33	T4	PND22	dam	1-CONTROL
567	16745	F	1	PND22	16745F1P	3.88	T4	PND22	dam	1-CONTROL
568	16746	F	1	PND22	16746F1P	4.02	T4	PND22	dam	1-CONTROL
569	16747	F	1	PND22	16747F1P	3.90	T4	PND22	dam	1-CONTROL
570	16749	F	1	PND22	16749F1P	3.72	T4	PND22	dam	1-CONTROL
571	16750	F	1	PND22	16750F1P	3.56	T4	PND22	dam	1-CONTROL
572	16753	F	2	PND22	16753F2P	3.91	T4	PND22	dam	2----0.01
573	16755	F	2	PND22	16755F2P	3.29	T4	PND22	dam	2----0.01
574	16758	F	2	PND22	16758F2P	2.91	T4	PND22	dam	2----0.01
575	16760	F	2	PND22	16760F2P	3.35	T4	PND22	dam	2----0.01
576	16761	F	2	PND22	16761F2P	3.03	T4	PND22	dam	2----0.01
577	16762	F	2	PND22	16762F2P	3.74	T4	PND22	dam	2----0.01
578	16763	F	2	PND22	16763F2P	3.71	T4	PND22	dam	2----0.01
579	16764	F	2	PND22	16764F2P	3.23	T4	PND22	dam	2----0.01
580	16765	F	2	PND22	16765F2P	3.77	T4	PND22	dam	2----0.01
581	16767	F	2	PND22	16767F2P	3.65	T4	PND22	dam	2----0.01
582	16768	F	2	PND22	16768F2P	3.73	T4	PND22	dam	2----0.01
583	16769	F	2	PND22	16769F2P	3.65	T4	PND22	dam	2----0.01
584	16770	F	2	PND22	16770F2P	3.64	T4	PND22	dam	2----0.01
585	16771	F	2	PND22	16771F2P	3.71	T4	PND22	dam	2----0.01
586	16773	F	2	PND22	16773F2P	3.20	T4	PND22	dam	2----0.01
587	16774	F	2	PND22	16774F2P	3.62	T4	PND22	dam	2----0.01
588	16776	F	1	PND22	16776F1P	3.52	T4	PND22	dam	1-CONTROL
589	16781	F	3	PND22	16781F3P	2.91	T4	PND22	dam	3-----0.1
590	16782	F	3	PND22	16782F3P	3.41	T4	PND22	dam	3-----0.1
591	16783	F	3	PND22	16783F3P	3.79	T4	PND22	dam	3-----0.1

592	16784	F	3	PND22	16784F3P	3.52	T4	PND22	dam	3-----0.1
593	16786	F	3	PND22	16786F3P	3.72	T4	PND22	dam	3-----0.1
594	16787	F	3	PND22	16787F3P	3.31	T4	PND22	dam	3-----0.1
595	16791	F	3	PND22	16791F3P	3.86	T4	PND22	dam	3-----0.1
596	16792	F	3	PND22	16792F3P	3.75	T4	PND22	dam	3-----0.1
597	16793	F	3	PND22	16793F3P	4.18	T4	PND22	dam	3-----0.1
598	16794	F	3	PND22	16794F3P	3.18	T4	PND22	dam	3-----0.1
599	16795	F	3	PND22	16795F3P	3.50	T4	PND22	dam	3-----0.1
600	16796	F	3	PND22	16796F3P	3.48	T4	PND22	dam	3-----0.1
601	16797	F	3	PND22	16797F3P	2.92	T4	PND22	dam	3-----0.1
602	16798	F	3	PND22	16798F3P	3.25	T4	PND22	dam	3-----0.1
603	16799	F	3	PND22	16799F3P	3.24	T4	PND22	dam	3-----0.1
604	16800	F	4	PND22	16800F4P	3.20	T4	PND22	dam	4-----1.0
605	16801	F	4	PND22	16801F4P	2.82	T4	PND22	dam	4-----1.0
606	16802	F	4	PND22	16802F4P	3.52	T4	PND22	dam	4-----1.0
607	16803	F	4	PND22	16803F4P	2.98	T4	PND22	dam	4-----1.0
608	16805	F	4	PND22	16805F4P	3.31	T4	PND22	dam	4-----1.0
609	16806	F	4	PND22	16806F4P	3.30	T4	PND22	dam	4-----1.0
610	16807	F	4	PND22	16807F4P	3.57	T4	PND22	dam	4-----1.0
611	16808	F	4	PND22	16808F4P	3.21	T4	PND22	dam	4-----1.0
612	16810	F	4	PND22	16810F4P	2.54	T4	PND22	dam	4-----1.0
613	16811	F	4	PND22	16811F4P	3.67	T4	PND22	dam	4-----1.0
614	16814	F	4	PND22	16814F4P	3.56	T4	PND22	dam	4-----1.0
615	16815	F	4	PND22	16815F4P	2.82	T4	PND22	dam	4-----1.0
616	16817	F	4	PND22	16817F4P	3.65	T4	PND22	dam	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
617	16818	F	4	PND22	16818F4P	3.50	T4	PND22	dam	4-----1.0
618	16820	F	4	PND22	16820F4P	3.31	T4	PND22	dam	4-----1.0
619	16822	F	4	PND22	16822F4P	3.60	T4	PND22	dam	4-----1.0
620	16823	F	5	PND22	16823F5P	3.34	T4	PND22	dam	5----30.0
621	16825	F	5	PND22	16825F5P	2.97	T4	PND22	dam	5----30.0
622	16826	F	5	PND22	16826F5P	3.12	T4	PND22	dam	5----30.0
623	16827	F	5	PND22	16827F5P	3.01	T4	PND22	dam	5----30.0
624	16828	F	5	PND22	16828F5P	2.96	T4	PND22	dam	5----30.0
625	16830	F	5	PND22	16830F5P	2.97	T4	PND22	dam	5----30.0
626	16831	F	5	PND22	16831F5P	3.40	T4	PND22	dam	5----30.0
627	16833	F	5	PND22	16833F5P	3.44	T4	PND22	dam	5----30.0
628	16834	F	5	PND22	16834F5P	3.18	T4	PND22	dam	5----30.0
629	16836	F	5	PND22	16836F5P	3.67	T4	PND22	dam	5----30.0
630	16837	F	5	PND22	16837F5P	3.67	T4	PND22	dam	5----30.0
631	16839	F	5	PND22	16839F5P	2.81	T4	PND22	dam	5----30.0
632	16840	F	5	PND22	16840F5P	2.53	T4	PND22	dam	5----30.0
633	16842	F	5	PND22	16842F5P	2.66	T4	PND22	dam	5----30.0
634	16843	F	5	PND22	16843F5P	3.52	T4	PND22	dam	5----30.0
635	16844	F	5	PND22	16844F5P	3.02	T4	PND22	dam	5----30.0
636	16731	F	1	PND22	16731F1P	123.92	T3	PND22	dam	1-CONTROL
637	16732	F	1	PND22	16732F1P	124.98	T3	PND22	dam	1-CONTROL
638	16734	F	1	PND22	16734F1P	129.67	T3	PND22	dam	1-CONTROL
639	16735	F	1	PND22	16735F1P	120.57	T3	PND22	dam	1-CONTROL
640	16736	F	1	PND22	16736F1P	114.59	T3	PND22	dam	1-CONTROL
641	16737	F	1	PND22	16737F1P	150.26	T3	PND22	dam	1-CONTROL
642	16738	F	1	PND22	16738F1P	117.72	T3	PND22	dam	1-CONTROL
643	16740	F	1	PND22	16740F1P	121.66	T3	PND22	dam	1-CONTROL
644	16741	F	1	PND22	16741F1P	125.98	T3	PND22	dam	1-CONTROL

645	16742	F	1	PND22	16742F1P	121.29	T3	PND22	dam	1-CONTROL
646	16745	F	1	PND22	16745F1P	104.34	T3	PND22	dam	1-CONTROL
647	16746	F	1	PND22	16746F1P	103.72	T3	PND22	dam	1-CONTROL
648	16747	F	1	PND22	16747F1P	109.84	T3	PND22	dam	1-CONTROL
649	16749	F	1	PND22	16749F1P	132.28	T3	PND22	dam	1-CONTROL
650	16750	F	1	PND22	16750F1P	103.46	T3	PND22	dam	1-CONTROL
651	16753	F	2	PND22	16753F2P	132.60	T3	PND22	dam	2----0.01
652	16755	F	2	PND22	16755F2P	121.11	T3	PND22	dam	2----0.01
653	16758	F	2	PND22	16758F2P	136.50	T3	PND22	dam	2----0.01
654	16760	F	2	PND22	16760F2P	117.13	T3	PND22	dam	2----0.01
655	16761	F	2	PND22	16761F2P	136.04	T3	PND22	dam	2----0.01
656	16762	F	2	PND22	16762F2P	132.02	T3	PND22	dam	2----0.01
657	16763	F	2	PND22	16763F2P	125.35	T3	PND22	dam	2----0.01
658	16764	F	2	PND22	16764F2P	132.38	T3	PND22	dam	2----0.01
659	16765	F	2	PND22	16765F2P	115.14	T3	PND22	dam	2----0.01
660	16767	F	2	PND22	16767F2P	110.39	T3	PND22	dam	2----0.01
661	16768	F	2	PND22	16768F2P	126.25	T3	PND22	dam	2----0.01
662	16769	F	2	PND22	16769F2P	101.42	T3	PND22	dam	2----0.01
663	16770	F	2	PND22	16770F2P	131.63	T3	PND22	dam	2----0.01
664	16771	F	2	PND22	16771F2P	119.76	T3	PND22	dam	2----0.01
665	16773	F	2	PND22	16773F2P	104.49	T3	PND22	dam	2----0.01
666	16774	F	2	PND22	16774F2P	98.87	T3	PND22	dam	2----0.01
667	16776	F	1	PND22	16776F1P	97.60	T3	PND22	dam	1-CONTROL
668	16781	F	3	PND22	16781F3P	102.36	T3	PND22	dam	3-----0.1
669	16782	F	3	PND22	16782F3P	116.67	T3	PND22	dam	3-----0.1
670	16783	F	3	PND22	16783F3P	132.98	T3	PND22	dam	3-----0.1
671	16784	F	3	PND22	16784F3P	101.37	T3	PND22	dam	3-----0.1
672	16786	F	3	PND22	16786F3P	119.14	T3	PND22	dam	3-----0.1

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
673	16787	F	3	PND22	16787F3P	130.25	T3	PND22	dam	3-----0.1
674	16791	F	3	PND22	16791F3P	136.67	T3	PND22	dam	3-----0.1
675	16792	F	3	PND22	16792F3P	108.18	T3	PND22	dam	3-----0.1
676	16793	F	3	PND22	16793F3P	104.76	T3	PND22	dam	3-----0.1
677	16794	F	3	PND22	16794F3P	131.49	T3	PND22	dam	3-----0.1
678	16795	F	3	PND22	16795F3P	128.69	T3	PND22	dam	3-----0.1
679	16796	F	3	PND22	16796F3P	124.88	T3	PND22	dam	3-----0.1
680	16797	F	3	PND22	16797F3P	115.87	T3	PND22	dam	3-----0.1
681	16798	F	3	PND22	16798F3P	105.23	T3	PND22	dam	3-----0.1
682	16799	F	3	PND22	16799F3P	104.86	T3	PND22	dam	3-----0.1
683	16800	F	4	PND22	16800F4P	99.47	T3	PND22	dam	4-----1.0
684	16801	F	4	PND22	16801F4P	97.87	T3	PND22	dam	4-----1.0
685	16802	F	4	PND22	16802F4P	119.60	T3	PND22	dam	4-----1.0
686	16803	F	4	PND22	16803F4P	116.58	T3	PND22	dam	4-----1.0
687	16805	F	4	PND22	16805F4P	123.86	T3	PND22	dam	4-----1.0
688	16806	F	4	PND22	16806F4P	125.91	T3	PND22	dam	4-----1.0
689	16807	F	4	PND22	16807F4P	106.18	T3	PND22	dam	4-----1.0
690	16808	F	4	PND22	16808F4P	132.48	T3	PND22	dam	4-----1.0
691	16810	F	4	PND22	16810F4P	124.12	T3	PND22	dam	4-----1.0
692	16811	F	4	PND22	16811F4P	117.81	T3	PND22	dam	4-----1.0
693	16814	F	4	PND22	16814F4P	108.34	T3	PND22	dam	4-----1.0
694	16815	F	4	PND22	16815F4P	119.67	T3	PND22	dam	4-----1.0
695	16817	F	4	PND22	16817F4P	102.74	T3	PND22	dam	4-----1.0
696	16818	F	4	PND22	16818F4P	120.75	T3	PND22	dam	4-----1.0
697	16820	F	4	PND22	16820F4P	111.88	T3	PND22	dam	4-----1.0

698	16822	F	4	PND22	16822F4P	123.95	T3	PND22	dam	4-----1.0
699	16823	F	5	PND22	16823F5P	105.47	T3	PND22	dam	5----30.0
700	16825	F	5	PND22	16825F5P	128.77	T3	PND22	dam	5----30.0
701	16826	F	5	PND22	16826F5P	129.88	T3	PND22	dam	5----30.0
702	16827	F	5	PND22	16827F5P	100.09	T3	PND22	dam	5----30.0
703	16828	F	5	PND22	16828F5P	117.59	T3	PND22	dam	5----30.0
704	16830	F	5	PND22	16830F5P	100.09	T3	PND22	dam	5----30.0
705	16831	F	5	PND22	16831F5P	129.40	T3	PND22	dam	5----30.0
706	16833	F	5	PND22	16833F5P	113.70	T3	PND22	dam	5----30.0
707	16834	F	5	PND22	16834F5P	103.62	T3	PND22	dam	5----30.0
708	16836	F	5	PND22	16836F5P	106.02	T3	PND22	dam	5----30.0
709	16837	F	5	PND22	16837F5P	109.16	T3	PND22	dam	5----30.0
710	16839	F	5	PND22	16839F5P	107.06	T3	PND22	dam	5----30.0
711	16840	F	5	PND22	16840F5P	111.05	T3	PND22	dam	5----30.0
712	16842	F	5	PND22	16842F5P	127.72	T3	PND22	dam	5----30.0
713	16843	F	5	PND22	16843F5P	91.57	T3	PND22	dam	5----30.0
714	16844	F	5	PND22	16844F5P	119.58	T3	PND22	dam	5----30.0

Analysis Variable : RES

---------- TH=T3 AGE=DAY21 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	99.6700000	1.5556582	91.5300000	109.7300000	6.0250382	36.3010857	6.0449867

---------- TH=T3 AGE=DAY21 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	97.3180000	2.5048933	78.4200000	117.1800000	9.7014102	94.1173600	9.9687727

---------- TH=T3 AGE=DAY21 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	95.7800000	1.6747534	84.0400000	110.6300000	6.2663534	39.2671846	6.5424445

---------- TH=T3 AGE=DAY21 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	93.0057143	2.4037516	80.1400000	109.1700000	8.9940149	80.8923033	9.6703895

---------- TH=T3 AGE=DAY21 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	87.4340000	2.1914263	74.0700000	104.3000000	8.4873577	72.0352400	9.7071593

---------- TH=T3 AGE=PND10 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	99.9131250	2.7277168	79.6900000	116.9100000	10.9108672	119.0470229	10.9203543

---------- TH=T3 AGE=PND10 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	98.2268750	2.9083817	81.0800000	118.3300000	11.6335267	135.3389429	11.8435272

Analysis Variable : RES

---------- TH=T3 AGE=PND10 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	97.9881250	2.8329146	78.4900000	115.0300000	11.3316584	128.4064829	11.5643181

---------- TH=T3 AGE=PND10 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	97.6743750	2.6726836	79.9200000	119.7500000	10.6907343	114.2917996	10.9452805

---------- TH=T3 AGE=PND10 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	92.0206250	2.3805732	77.6600000	109.6000000	9.5222928	90.6740596	10.3479984

---------- TH=T3 AGE=PND22 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	118.8675000	3.3187746	97.6000000	150.2600000	13.2750982	176.2282333	11.1679797

---------- TH=T3 AGE=PND22 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	121.3175000	3.1084275	98.8700000	136.5000000	12.4337098	154.5971400	10.2489005

---------- TH=T3 AGE=PND22 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	117.5600000	3.2366597	101.3700000	136.6700000	12.5355289	157.1394857	10.6630903

---------- TH=T3 AGE=PND22 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	115.7006250	2.5509252	97.8700000	132.4800000	10.2037009	104.1155129	8.8190543

Analysis Variable : RES

---------- TH=T3 AGE=PND22 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	112.5481250	2.9725632	91.5700000	129.8800000	11.8902527	141.3781096	10.5645942

---------- TH=T4 AGE=DAY21 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	2.3118750	0.0310137	2.1700000	2.5600000	0.1240548	0.0153896	5.3659804

---------- TH=T4 AGE=DAY21 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	2.0575000	0.0564395	1.7400000	2.5300000	0.2257580	0.0509667	10.9724414

---------- TH=T4 AGE=DAY21 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV

16	1.2850000	0.0322102	1.0500000	1.5500000	0.1288410	0.0166000	10.0265360

---------- TH=T4 AGE=DAY21 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	1.1921429	0.0329365	0.8700000	1.3500000	0.1232370	0.0151874	10.3374371

---------- TH=T4 AGE=DAY21 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	1.0606250	0.0266219	0.9100000	1.2700000	0.1064875	0.0113396	10.0400688

---------- TH=T4 AGE=PND10 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	4.0312500	0.1118476	3.3300000	4.8700000	0.4473906	0.2001583	11.0980610

Analysis Variable : RES

---------- TH=T4 AGE=PND10 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.7581250	0.0963251	3.2900000	4.6100000	0.3853002	0.1484563	10.2524585

---------- TH=T4 AGE=PND10 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.7468750	0.0925055	3.0300000	4.5700000	0.3700220	0.1369163	9.8754818

---------- TH=T4 AGE=PND10 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.7031250	0.1098587	2.8400000	4.3500000	0.4394348	0.1931029	11.8665929

---------- TH=T4 AGE=PND10 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.5918750	0.1060394	2.9300000	4.2800000	0.4241575	0.1799096	11.8088045

---------- TH=T4 AGE=PND22 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.5256250	0.0929694	2.9100000	4.0200000	0.3718776	0.1382929	10.5478477

---------- TH=T4 AGE=PND22 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.5087500	0.0740488	2.9100000	3.9100000	0.2961953	0.0877317	8.4416193

---------- TH=T4 AGE=PND22 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	3.4680000	0.0908594	2.9100000	4.1800000	0.3518969	0.1238314	10.1469694

Analysis Variable : RES

---------- TH=T4 AGE=PND22 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.2850000	0.0849951	2.5400000	3.6700000	0.3399804	0.1155867	10.3494792

---------- TH=T4 AGE=PND22 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.1418750	0.0851137	2.5300000	3.6700000	0.3404550	0.1159096	10.8360442

---------- TH=TSH AGE=DAY21 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	6.0468750	0.1484692	5.1900000	7.2600000	0.5938767	0.3526896	9.8212174

---------- TH=TSH AGE=DAY21 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	8.1775000	0.1935771	6.4800000	9.4400000	0.7743083	0.5995533	9.4687654

---------- TH=TSH AGE=DAY21 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	9.0906250	0.2099216	7.5800000	10.3400000	0.8396862	0.7050729	9.2368369

---------- TH=TSH AGE=DAY21 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	9.9353333	0.2519389	8.3300000	11.3100000	0.9757551	0.9520981	9.8210609

---------- TH=TSH AGE=DAY21 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	14.8731250	0.3707613	12.7100000	17.5700000	1.4830451	2.1994229	9.9713083

Analysis Variable : RES

---------- TH=TSH AGE=PND10 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	5.0668750	0.1350269	3.9300000	6.0500000	0.5401076	0.2917163	10.6595807

---------- TH=TSH AGE=PND10 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	6.3337500	0.1774375	5.1200000	7.4500000	0.7097500	0.5037450	11.2058410

---------- TH=TSH AGE=PND10 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV

16	6.5175000	0.1812261	4.9900000	7.6000000	0.7249046	0.5254867	11.1224333

TH=TSH AGE=PND10 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	6.9012500	0.1900545	5.7000000	8.3400000	0.7602182	0.5779317	11.0156591

TH=TSH AGE=PND10 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	11.6106250	0.3161243	9.4200000	13.5400000	1.2644971	1.5989529	10.8908616

TH=TSH AGE=PND22 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.0100000	0.1954546	5.8500000	8.2500000	0.7818184	0.6112400	11.1529015

TH=TSH AGE=PND22 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.3312500	0.1885159	6.0200000	8.5900000	0.7540634	0.5686117	10.2856053

Analysis Variable : RES

TH=TSH AGE=PND22 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	8.1093333	0.2253684	6.7800000	9.7000000	0.8728481	0.7618638	10.7635001

TH=TSH AGE=PND22 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	8.1481250	0.1970643	6.9400000	9.6800000	0.7882573	0.6213496	9.6740944

TH=TSH AGE=PND22 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	10.1068750	0.2812127	8.2300000	12.4300000	1.1248509	1.2652896	11.1295620

OBS	TH	AGE	TRT	_TYPE_	_FREQ_	X_T3	SE1
1	T3	DAY21	1-CONTROL	0	16	99.670	1.55566
2	T3	DAY21	2----0.01	0	16	97.318	2.50489
3	T3	DAY21	3-----0.1	0	16	95.780	1.67475
4	T3	DAY21	4-----1.0	0	15	93.006	2.40375
5	T3	DAY21	5----30.0	0	16	87.434	2.19143
6	T3	PND10	1-CONTROL	0	16	99.913	2.72772
7	T3	PND10	2----0.01	0	16	98.227	2.90838
8	T3	PND10	3-----0.1	0	16	97.988	2.83291
9	T3	PND10	4-----1.0	0	16	97.674	2.67268
10	T3	PND10	5----30.0	0	16	92.021	2.38057
11	T3	PND22	1-CONTROL	0	16	118.868	3.31877
12	T3	PND22	2----0.01	0	16	121.318	3.10843
13	T3	PND22	3-----0.1	0	15	117.560	3.23666
14	T3	PND22	4-----1.0	0	16	115.701	2.55093
15	T3	PND22	5----30.0	0	16	112.548	2.97256
16	T4	DAY21	1-CONTROL	0	16	2.312	0.03101
17	T4	DAY21	2----0.01	0	16	2.058	0.05644
18	T4	DAY21	3-----0.1	0	16	1.285	0.03221
19	T4	DAY21	4-----1.0	0	15	1.192	0.03294
20	T4	DAY21	5----30.0	0	16	1.061	0.02662
21	T4	PND10	1-CONTROL	0	16	4.031	0.11185
22	T4	PND10	2----0.01	0	16	3.758	0.09633
23	T4	PND10	3-----0.1	0	16	3.747	0.09251
24	T4	PND10	4-----1.0	0	16	3.703	0.10986
25	T4	PND10	5----30.0	0	16	3.592	0.10604
26	T4	PND22	1-CONTROL	0	16	3.526	0.09297
27	T4	PND22	2----0.01	0	16	3.509	0.07405
28	T4	PND22	3-----0.1	0	15	3.468	0.09086
29	T4	PND22	4-----1.0	0	16	3.285	0.08500
30	T4	PND22	5----30.0	0	16	3.142	0.08511
31	TSH	DAY21	1-CONTROL	0	16	6.047	0.14847
32	TSH	DAY21	2----0.01	0	16	8.178	0.19358
33	TSH	DAY21	3-----0.1	0	16	9.091	0.20992
34	TSH	DAY21	4-----1.0	0	15	9.935	0.25194
35	TSH	DAY21	5----30.0	0	16	14.873	0.37076
36	TSH	PND10	1-CONTROL	0	16	5.067	0.13503
37	TSH	PND10	2----0.01	0	16	6.334	0.17744
38	TSH	PND10	3-----0.1	0	16	6.518	0.18123
39	TSH	PND10	4-----1.0	0	16	6.901	0.19005
40	TSH	PND10	5----30.0	0	16	11.611	0.31612
41	TSH	PND22	1-CONTROL	0	16	7.010	0.19545
42	TSH	PND22	2----0.01	0	16	7.331	0.18852
43	TSH	PND22	3-----0.1	0	15	8.109	0.22537
44	TSH	PND22	4-----1.0	0	16	8.148	0.19706
45	TSH	PND22	5----30.0	0	16	10.107	0.28121

Analysis Variable : RES

TH=T3 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
47	106.2880851	2.0147971	79.6900000	150.2600000	13.8127529	190.7921419	12.9955798

TH=T3 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
47	105.7974468	2.3079488	78.4200000	136.5000000	15.8225000	250.3515064	14.9554649

TH=T3 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
45	103.8251111	2.1222119	78.4900000	136.6700000	14.2362301	202.6702483	13.7117408

TH=T3 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
46	102.5234783	2.0560216	79.9200000	132.4800000	13.9446168	194.4523387	13.6013887

TH=T3 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
47	97.5448936	2.1627321	74.0700000	129.8800000	14.8269440	219.8382690	15.2001232

TH=T4 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	3.2895833	0.1158816	2.1700000	4.8700000	0.8028512	0.6445700	24.4058627

TH=T4 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	3.1081250	0.1177815	1.7400000	4.6100000	0.8160143	0.6658794	26.2542314

Analysis Variable : RES

TH=T4 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
47	2.8197872	0.1690427	1.0500000	4.5700000	1.1588984	1.3430456	41.0987904

TH=T4 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
46	2.7934783	0.1671478	0.8700000	4.3500000	1.1336514	1.2851654	40.5820721

TH=T4 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	2.5981250	0.1670578	0.9100000	4.2800000	1.1574103	1.3395985	44.5479056

TH=TSH TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	6.0412500	0.1474387	3.9300000	8.2500000	1.0214854	1.0434324	16.9085109

TH=TSH TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	7.2808333	0.1523093	5.1200000	9.4400000	1.0552298	1.1135099	14.4932558

TH=TSH TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
47	7.9014894	0.1959866	4.9900000	10.3400000	1.3436161	1.8053043	17.0045931

TH=TSH TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
47	8.2940426	0.2183793	5.7000000	11.3100000	1.4971330	2.2414072	18.0507031

Analysis Variable : RES

---------- TH=TSH TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	12.1968750	0.3433387	8.2300000	17.5700000	2.3787205	5.6583113	19.5027047

OBS	TH	TRT	_TYPE_	_FREQ_	X_T3	SE1
1	T3	1-CONTROL	0	48	106.288	2.01480
2	T3	2----0.01	0	48	105.797	2.30795
3	T3	3-----0.1	0	47	103.825	2.12221
4	T3	4-----1.0	0	47	102.523	2.05602
5	T3	5----30.0	0	48	97.545	2.16273
6	T4	1-CONTROL	0	48	3.290	0.11588
7	T4	2----0.01	0	48	3.108	0.11778
8	T4	3-----0.1	0	47	2.820	0.16904
9	T4	4-----1.0	0	47	2.793	0.16715
10	T4	5----30.0	0	48	2.598	0.16706
11	TSH	1-CONTROL	0	48	6.041	0.14744
12	TSH	2----0.01	0	48	7.281	0.15231
13	TSH	3-----0.1	0	47	7.901	0.19599
14	TSH	4-----1.0	0	47	8.294	0.21838
15	TSH	5----30.0	0	48	12.197	0.34334

---------- TH=T3 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
AGE	3	DAY21 PND10 PND22
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 238

NOTE: Due to missing values, only 232 observations can be used in this analysis.

---------- TH=T3 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	26322.47601124	1880.17685795	16.96	0.0001
Error	217	24057.53729911	110.86422718		
Corrected Total	231	50380.01331035			

R-Square	C.V.	Root MSE	RES Mean
0.522479	10.20339	10.52920829	103.19327586

Source	DF	Type I SS	Mean Square	F Value	Pr > F
AGE	2	23723.70699734	11861.85349867	106.99	0.0001
TRT	4	2327.57155197	581.89288799	5.25	0.0005
AGE*TRT	8	271.19746193	33.89968274	0.31	0.9633

Source	DF	Type III SS	Mean Square	F Value	Pr > F
AGE	2	23725.90937283	11862.95468641	107.00	0.0001
TRT	4	2357.79632946	589.44908236	5.32	0.0004
AGE*TRT	8	271.19746193	33.89968274	0.31	0.9633

---------- TH=T4 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
AGE	3	DAY21 PND10 PND22
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 238

NOTE: Due to missing values, only 237 observations can be used in this analysis.

---------- TH=T4 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	235.51219095	16.82229935	161.76	0.0001
Error	222	23.08647571	0.10399313		
Corrected Total	236	258.59866667			

R-Square	C.V.	Root MSE	RES Mean
0.910725	11.03123	0.32247966	2.92333333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
AGE	2	212.03807464	106.01903732	1019.48	0.0001
TRT	4	15.16124608	3.79031152	36.45	0.0001
AGE*TRT	8	8.31287023	1.03910878	9.99	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
AGE	2	213.78357592	106.89178796	1027.87	0.0001
TRT	4	15.28129311	3.82032328	36.74	0.0001
AGE*TRT	8	8.31287023	1.03910878	9.99	0.0001

---------- TH=TSH ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
AGE	3	DAY21 PND10 PND22
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 238

---------- TH=TSH ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	1403.80075166	100.27148226	124.01	0.0001
Error	223	180.31139792	0.80857129		
Corrected Total	237	1584.11214958			

R-Square	C.V.	Root MSE	RES Mean
0.886175	10.77544	0.89920592	8.34495798

Source	DF	Type I SS	Mean Square	F Value	Pr > F
AGE	2	221.56685743	110.78342871	137.01	0.0001
TRT	4	1030.73361760	257.68340440	318.69	0.0001
AGE*TRT	8	151.50027664	18.93753458	23.42	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
AGE	2	222.28506765	111.14253383	137.46	0.0001
TRT	4	1030.33569706	257.58392427	318.57	0.0001
AGE*TRT	8	151.50027664	18.93753458	23.42	0.0001

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
AGE	3	DAY21 PND10 PND22

Number of observations in data set = 238

NOTE: Due to missing values, only 232 observations can be used in this analysis.

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F

Model	6	26051.27854931	4341.87975822	40.16	0.0001
Error	225	24328.73476103	108.12771005		
Corrected Total	231	50380.01331034			

R-Square	C.V.	Root MSE	RES Mean
0.517096	10.07667	10.39844748	103.19327586

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	2306.99894668	576.74973667	5.33	0.0004
AGE	2	23744.27960263	11872.13980132	109.80	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	2327.57155197	581.89288799	5.38	0.0004
AGE	2	23744.27960263	11872.13980132	109.80	0.0001

ONE-WAY ANOVA - WITH AGE AND TRT IN MODEL STATEMENT

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 225 MSE= 108.1277
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 46.386

Number of Means	2	3	4	5
Critical Range	4.255	4.479	4.629	4.739

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	106.288	47	1-CONTROL
A			
A	105.797	47	2----0.01
A			
A	103.825	45	3-----0.1
A			
A	102.523	46	4-----1.0
B	97.545	47	5----30.0

ONE-WAY ANOVA - BY AGE

---------- AGE=DAY21 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

NOTE: Due to missing values, only 78 observations can be used in this analysis.

---------- AGE=DAY21 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	20.02267166	5.00566791	226.70	0.0001
Error	73	1.61187321	0.02208045		
Corrected Total	77	21.63454487			

R-Square	C.V.	Root MSE	RES Mean
0.925495	9.337312	0.14859494	1.59141026

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	20.02267166	5.00566791	226.70	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	20.02267166	5.00566791	226.70	0.0001

---------- AGE=DAY21 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 73 MSE= 0.02208
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.55556

Number of Means	2	3	4	5
Critical Range	.1062	.1117	.1154	.1181

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	2.31187	16	1-CONTROL
B	2.05750	16	2----0.01
C	1.28500	16	3-----0.1
C			
C	1.19214	14	4-----1.0
D	1.06063	16	5----30.0

---------- AGE=PND10 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 80

---------- AGE=PND10 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	1.68092500	0.42023125	2.45	0.0535
Error	75	12.87815000	0.17170867		
Corrected Total	79	14.55907500			

R-Square	C.V.	Root MSE	RES Mean
0.115455	11.00239	0.41437744	3.76625000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	1.68092500	0.42023125	2.45	0.0535

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	1.68092500	0.42023125	2.45	0.0535

---------- AGE=PND10 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 75 MSE= 0.171709

Number of Means	2	3	4	5
Critical Range	.2919	.3071	.3172	.3245

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	TRT
	A	4.0312	16	1-CONTROL
	A			
B	A	3.7581	16	2----0.01
B	A			
B	A	3.7469	16	3-----0.1
B				
B		3.7031	16	4-----1.0
B				
B		3.5919	16	5----30.0

---------- AGE=PND22 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values

TRT 5 1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

---------- AGE=PND22 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	1.77051965	0.44262991	3.81	0.0072
Error	74	8.59645250	0.11616828		
Corrected Total	78	10.36697215			

R-Square	C.V.	Root MSE	RES Mean
0.170785	10.06954	0.34083468	3.38481013

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	1.77051965	0.44262991	3.81	0.0072

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	1.77051965	0.44262991	3.81	0.0072

---------- AGE=PND22 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.116168
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.2417	.2543	.2627	.2687

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	TRT
	A	3.5256	16	1-CONTROL
	A			
	A	3.5088	16	2----0.01
	A			
	A	3.4680	15	3-----0.1
	A			
B	A	3.2850	16	4-----1.0
B				
B		3.1419	16	5----30.0

---------- AGE=DAY21 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

---------- AGE=DAY21 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	685.06889985	171.26722496	178.05	0.0001
Error	74	71.18045458	0.96189803		
Corrected Total	78	756.24935443			

R-Square	C.V.	Root MSE	RES Mean
0.905877	10.19425	0.98076401	9.62075949

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	685.06889985	171.26722496	178.05	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	685.06889985	171.26722496	178.05	0.0001

---------- AGE=DAY21 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.961898
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.6955	.7318	.7558	.7733

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	14.8731	16	5----30.0
B	9.9353	15	4-----1.0
C	9.0906	16	3-----0.1
D	8.1775	16	2----0.01
E	6.0469	16	1-CONTROL

---------- AGE=PND10 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 80

---------- AGE=PND10 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	404.35683250	101.08920812	144.50	0.0001
Error	75	52.46748750	0.69956650		
Corrected Total	79	456.82432000			

R-Square	C.V.	Root MSE	RES Mean
0.885147	11.47956	0.83640092	7.28600000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	404.35683250	101.08920812	144.50	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	404.35683250	101.08920812	144.50	0.0001

---------- AGE=PND10 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 75 MSE= 0.699567

Number of Means	2	3	4	5
Critical Range	.5891	.6198	.6402	.6550

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	11.6106	16	5----30.0
B	6.9013	16	4-----1.0
B			
B	6.5175	16	3-----0.1

B			
B	6.3338	16	2----0.01
C	5.0669	16	1-CONTROL

---------- AGE=PND22 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

---------- AGE=PND22 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	92.80816189	23.20204047	30.30	0.0001
Error	74	56.66345583	0.76572238		
Corrected Total	78	149.47161772			

R-Square	C.V.	Root MSE	RES Mean
0.620908	10.74806	0.87505564	8.14151899

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	92.80816189	23.20204047	30.30	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	92.80816189	23.20204047	30.30	0.0001

---------- AGE=PND22 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.765722
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.6205	.6529	.6743	.6900

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	10.1069	16	5----30.0
B	8.1481	16	4-----1.0
B			
B	8.1093	15	3-----0.1
C	7.3313	16	2----0.01
C			
C	7.0100	16	1-CONTROL

Appendix II - Statistical Analyses of Fetal and Offspring Hormone Data in the "Effects" Study

Argus Research Laboratories, Inc. (2001) Hormone, thyroid and neurohistological effects of oral (drinking water) exposure to ammonium perchlorate in pregnant and lactating rats and in fetuses and nursing pups exposed to ammonium perchlorate during gestation or via maternal milk. Horsham, PA: Protocol no. ARGUS 1416-003.

```
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NOTE: Running on ALPHASERVER Model 2100 5/300 Serial Number 80000000.


 Welcome to the NHEERL-RTP SAS Information Delivery System.


1          *THIS FILE IS FOUND AT [CRofton.THYROID.PERCHLORATE]EFFECTS_PUPS.SAS;
2          *IT ANALYAZES THE THYROID HORMONE DATA FROM THE WPAFB 'EFFECTS PROTOCOL' STUDY;
3
4          * NOTE THIS ANALYSIS USED THE 'LIBERAL' APPROACH TO STEPDOWN'S;
5          * SEE MEMO FROM CROFTON AND MARCUS ON STATISTICAL APPROACH TO DATA ANALYSIS;
6
7          * INPUT DATA INTO SAS DATASET;
8          DATA RAW; INFILE '[CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT';
9                    INPUT ANIM GENDER$ DOSE$ AGE$ CODE$ RES TH$ AGE2$ GEN$;
10
11                   IF GEN = 'dam' THEN DELETE;
12
13         * DEFINITIONS OF VARIABLES;
14         *       ANIM = ANIMAL ID;
15         *         GENDER = ONLY APPLICABLE FOR DAMS AND PND21 DATA;
16         *                POOLED FETAL AND PUP SAMPLES FOR ALL OTHER DAYS;
17         *         TRT = TREATMENT CODE;
18         *         AGE = AGE OF SAMPLE;
19         *                 DAY21 = GESTATIONAL DAY 21;
20         *                 PND5, 10 AND 22 = POSTNATAL AGES;
21         *         CODE = ORIGINAL COMBINED SAMPLE CODE;
22         *         RES = HORMONE MEASUREMENT;
23         *         TH = HORMONE, T3, T4 OR TSH;
24         *         AGE2 = ADDITIONAL AGE VARIABLE - IGNORE;
25         *         GEN = GENERATTION, FETAL, PUP OR DAM;
26
27         * ASSIGN TREATMENTS TO DOSAGE CODES IN MG/KG/DAY;
28                   IF DOSE = '1' THEN TRT = '1-CONTROL';
29                   IF DOSE = '2' THEN TRT = '2----0.01';
30                   IF DOSE = '3' THEN TRT = '3-----0.1';
31                   IF DOSE = '4' THEN TRT = '4-----1.0';
32                   IF DOSE = '5' THEN TRT = '5----30.0';
33
34
35         * RENAME DAY21 TO GD21;
36                   IF AGE = "DAY21" THEN AGE = "GD21";
37
38         * PRINT THE RAW DATA FILE;

NOTE: The infile '[CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT' is:
      File=DSA21:[SAS$USERS.CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT

NOTE: 1825 records were read from the infile '[CROFTON.THYROID.PERCHLORATE]TH_EFFECTS_PROTOCOL_ALLDATA.TXT'.
      The minimum record length was 79.
      The maximum record length was 80.
```

```
NOTE: The data set WORK.RAW has 1111 observations and 10 variables.

 39                PROC PRINT;
12                                                    The SAS System                          22:32 Friday, December 28, 2001

 40
 41
 42         * GET DATA MEANS FOR ALL AGES WITH POOLED LITTER SERUM SAMPLES;
 43
 44         * SORT DATA BY DAY, TRT AND GENDER -- THEN GET MEANS;

NOTE: The PROCEDURE PRINT printed pages 1-20.

 45         DATA MEAN1; SET RAW;
 46                   IF AGE = "PND22" THEN DELETE;
 47

NOTE: The data set WORK.MEAN1 has 637 observations and 10 variables.

 47          PROC SORT; BY TH AGE TRT;
 48

NOTE: The data set WORK.MEAN1 has 637 observations and 10 variables.

 48          PROC MEANS N MEAN STDERR MIN MAX STD VAR CV;
 49                           BY TH AGE TRT;
 50                           VAR RES;
 51                           output out=XMEAN1 MEAN=X_T3 X_T4 X_TSH STDERR=SE1 SE2 SE3;
 52
 53

NOTE: The data set WORK.XMEAN1 has 45 observations and 7 variables.
NOTE: The PROCEDURE MEANS printed pages 21-27.

 53          PROC PRINT DATA = XMEAN1;
 54                   TITLE "DATA MEANS FOR GD21,PND5 AND PND10 SORTED BY TH, AGE AND TRT";
 55
 56         *SORT DATA BY TRT AND GENDER -- THEN GET MEANS;

NOTE: The PROCEDURE PRINT printed page 28.

 57         DATA MEAN2; SET RAW;
 58                   IF AGE = "PND22" THEN DELETE;
 59

NOTE: The data set WORK.MEAN2 has 637 observations and 10 variables.

 59          PROC SORT; BY TH TRT;
 60

NOTE: The data set WORK.MEAN2 has 637 observations and 10 variables.

 60          PROC MEANS N MEAN STDERR MIN MAX STD VAR CV;
 61                           BY TH TRT;
 62                           VAR RES;
 63                           output out=XMEAN2 MEAN=X_T3 X_T4 X_TSH STDERR=SE1 SE2 SE3;
 64
```

```
 65

NOTE: The data set WORK.XMEAN2 has 15 observations and 6 variables.
NOTE: The PROCEDURE MEANS printed pages 29-31.

 65          PROC PRINT DATA = XMEAN2;
13                                                    The SAS System                          22:32 Friday, December 28, 2001

 66                   TITLE "DATA MEANS FOR GD21,PND5 AND PND10 SORTED BY TH AND TRT";
 67
 68
 69         * GET DATA MEANS FOR PND22 DATA - ONLY DATA WITH GENDER SEPARATE SAMPLES;
 70
 71         * SORT DATA BY TH AND TRT AND GENDER -- THEN GET MEANS;

NOTE: The PROCEDURE PRINT printed page 32.

 72         DATA MEAN3; SET RAW;
 73                   IF AGE = "GD21" THEN DELETE;
 74                   IF AGE = "PND05" THEN DELETE;
 75                   IF AGE = "PND10" THEN DELETE;
 76
 77
 78

NOTE: The data set WORK.MEAN3 has 474 observations and 10 variables.

 78          PROC SORT; BY TH GENDER TRT;
 79

NOTE: The data set WORK.MEAN3 has 474 observations and 10 variables.

 79          PROC MEANS N MEAN STDERR MIN MAX STD VAR CV;
 80                            BY TH GENDER TRT;
 81                            VAR RES;
 82                            output out=XMEAN3 MEAN=X_T3 X_T4 X_TSH STDERR=SE1 SE2 SE3;
 83
 84

NOTE: The data set WORK.XMEAN3 has 30 observations and 7 variables.
NOTE: The PROCEDURE MEANS printed pages 33-37.

 84          PROC PRINT DATA = XMEAN3;
 85                   TITLE "DATA MEANS FOR PND21 SORTED BY TH, GENDER AND TRT";
 86
 87         * SORT DATA BY TH AND TRT -- THEN GET MEANS;

NOTE: The PROCEDURE PRINT printed page 38.

 88         DATA MEAN4; SET RAW;
 89                   IF AGE = "GD21" THEN DELETE;
 90                   IF AGE = "PND05" THEN DELETE;
 91                   IF AGE = "PND10" THEN DELETE;
 92
 93
 94
```

```
NOTE: The data set WORK.MEAN4 has 474 observations and 10 variables.

94          PROC SORT; BY TH TRT;
95

NOTE: The data set WORK.MEAN4 has 474 observations and 10 variables.

95          PROC MEANS N MEAN STDERR MIN MAX STD VAR CV;
96                          BY TH TRT;
14                                                  The SAS System                          22:32 Friday, December 28, 2001

97                          VAR RES;
98                          output out=XMEAN4 MEAN=X_T3 X_T4 X_TSH STDERR=SE1 SE2 SE3;
99
100

NOTE: The data set WORK.XMEAN4 has 15 observations and 6 variables.
NOTE: The PROCEDURE MEANS printed pages 39-41.

100         PROC PRINT DATA = XMEAN4;
101                  TITLE "DATA MEANS FOR PND21 SORTED BY TH AND TRT";
102
103
104        *    DATA ANALYSES FOR PUPS      ;
105

NOTE: The PROCEDURE PRINT printed page 42.

106        DATA PUP1; SET RAW;
107                  IF AGE = "PND22" THEN DELETE;
108        *PRIMARY ANALYSIS - 2 WAY ANOVAS FOR EACH TH (T3,T4,TSH) - TRT AND AGE (GD21, PND5,PND10);
109        * excluding pnd21 data;

NOTE: The data set WORK.PUP1 has 637 observations and 10 variables.

110                PROC SORT; BY TH TRT AGE;

NOTE: The data set WORK.PUP1 has 637 observations and 10 variables.

111                PROC GLM; BY TH;
112                        CLASSES TRT AGE;
113                        MODEL RES = TRT|AGE;
114                        TITLE1 "WPAFB EFFECTS STUDY - PUP 2-WAY ANOVAS";
115                        TITLE2 "HORMONE DATA FOR FETAL AND PUPS - EXCLUDING PND22";
116                          TITLE3 "MAIN EFFECTS TESTING";
117
118
119        *STEPDOWN ANOVAS FOR GD21, PND5 AND PND10 DATA;
120        *T3 DATA - MAIN EFFECTS FOUND AGE AND TRT - NO INTERACTION;

NOTE: The PROCEDURE GLM printed pages 43-48.

121        DATA PUP2; SET PUP1;
122                  IF TH = 'T4' THEN DELETE;
123                  IF TH = 'TSH' THEN DELETE;
124
```

```
NOTE: The data set WORK.PUP2 has 183 observations and 10 variables.

124         PROC SORT; BY TRT AGE;

NOTE: The data set WORK.PUP2 has 183 observations and 10 variables.

125                PROC GLM;
126                          CLASSES TRT AGE;
127                          MODEL RES = TRT AGE;
128                          MEANS TRT/DUNCAN LINES;
129                          TITLE1 "WPAFB EFFECTS STUDY - STEP-DOWN ANOVAS";
130                          TITLE2 "STEP-DOWN ANOVA FOR T3 - EXCLUDING PND22";
15                                                  The SAS System                          22:32 Friday, December 28, 2001

131
132        *T4 DATA - MAIN EFFECTS FOUND AGE AND TRT - NO INTERACTION;

NOTE: Means from the MEANS statement are not adjusted for other terms in the model.  For adjusted means, use the LSMEANS statement.
NOTE: The PROCEDURE GLM printed pages 49-51.

133        DATA PUP3; SET PUP1;
134                   IF TH = 'T3' THEN DELETE;
135                   IF TH = 'TSH' THEN DELETE;
136

NOTE: The data set WORK.PUP3 has 217 observations and 10 variables.

136         PROC SORT; BY TRT AGE;
137

NOTE: The data set WORK.PUP3 has 217 observations and 10 variables.

137         PROC GLM;
138                       CLASSES TRT AGE;
139                         MODEL RES = TRT AGE;
140                         MEANS TRT/DUNCAN LINES;
141                         TITLE1 "WPAFB EFFECTS STUDY - STEP-DOWN ANOVAS";
142                         TITLE2 "STEP-DOWN ANOVA FOR T4 - EXCLUDING PND22";
143
144        *TSH DATA - MAIN EFFECTS FOUND AGE BY TRT INTERACTION;

NOTE: Means from the MEANS statement are not adjusted for other terms in the model.  For adjusted means, use the LSMEANS statement.
NOTE: The PROCEDURE GLM printed pages 52-54.

145        DATA PUP3; SET PUP1;
146                   IF TH = 'T3' THEN DELETE;
147                   IF TH = 'T4' THEN DELETE;
148

NOTE: The data set WORK.PUP3 has 237 observations and 10 variables.

148         PROC SORT; BY AGE TRT;
149

NOTE: The data set WORK.PUP3 has 237 observations and 10 variables.

149         PROC GLM; BY AGE;
```

```
150                         CLASSES TRT;
151                         MODEL RES = TRT;
152                         MEANS TRT/DUNCAN LINES;
153                         TITLE1 "WPAFB EFFECTS STUDY - STEP-DOWN ANOVAS";
154                         TITLE2 "STEP-DOWN ANOVAS FOR TSH - EXCLUDING PND22";
155
156
157        *PRIMARY ANALYSIS - TWO WAY ANOVAS FOR EACH TH (T3, T4, TSH) - TRT AND GENDER;
158        * ONLY  pnd22 data;
159
```

NOTE: The PROCEDURE GLM printed pages 55-63.

```
160        DATA PUPS22; SET RAW;
161                  IF AGE = "GD21" THEN DELETE;
```



```
162                  IF AGE = "PND05" THEN DELETE;
163                  IF AGE = "PND10" THEN DELETE;
164
165
```

NOTE: The data set WORK.PUPS22 has 474 observations and 10 variables.

```
165         PROC SORT; BY TH TRT GENDER;
166
```

NOTE: The data set WORK.PUPS22 has 474 observations and 10 variables.

```
166         PROC GLM; BY TH;
167                         CLASSES TRT GENDER;
168                         MODEL RES = TRT|GENDER;
169                         TITLE1 "WPAFB EFFECTS STUDY - PUP 2-WAY ANOVAS";
170                       TITLE2 "HORMONE DATA FOR PND22 DATA ONLY";
171                         TITLE3 "GENDER BY TRT FOR T3, T4 AND TSH";
172
173        *STEPDOWN ANOVAS FOR PND22 DATA;
174        *T3 DATA - MAIN EFFECTS FOUND GENDER AND TRT - NO INTERACTION;
```

NOTE: The PROCEDURE GLM printed pages 64-69.

```
175        DATA PUPS22A; SET PUPS22;
176                  IF TH = 'T4' THEN DELETE;
177                  IF TH = 'TSH' THEN DELETE;
178
```

NOTE: The data set WORK.PUPS22A has 158 observations and 10 variables.

```
178         PROC SORT; BY TRT GENDER;
179
```

NOTE: The data set WORK.PUPS22A has 158 observations and 10 variables.

```
179         PROC GLM;
180                         CLASSES TRT GENDER;
181                         MODEL RES = TRT GENDER;
182                         MEANS TRT/DUNCAN LINES;
```

```
183                         TITLE1 "WPAFB EFFECTS STUDY - STEP-DOWN ANOVAS";
184                         TITLE3 "STEP-DOWN ANOVA FOR T3 - PND22 ONLY";
185
186        *T4 DATA - MAIN EFFECTS FOUND GENDER BY TRT INTERACTION;
```

NOTE: Means from the MEANS statement are not adjusted for other terms in the model. For adjusted means, use the LSMEANS statement.
NOTE: The PROCEDURE GLM printed pages 70-72.

```
187        DATA PUPS22B; SET PUPS22;
188                   IF TH = 'T3' THEN DELETE;
189                   IF TH = 'TSH' THEN DELETE;
190
```

NOTE: The data set WORK.PUPS22B has 158 observations and 10 variables.

```
190         PROC SORT; BY GENDER TRT;
191
```


NOTE: The data set WORK.PUPS22B has 158 observations and 10 variables.

```
191         PROC GLM; BY GENDER;
192                         CLASSES TRT;
193                         MODEL RES = TRT;
194                         MEANS TRT/DUNCAN LINES;
195                         TITLE1 "WPAFB EFFECTS STUDY - STEP-DOWN ANOVAS";
196                         TITLE3 "STEP-DOWN ANOVA FOR T4 - PND22 ONLY";
197
198        *TSH DATA - MAIN EFFECTS FOUND AGE AND TRT - NO INTERACTION;
```

NOTE: The PROCEDURE GLM printed pages 73-78.

```
199        DATA PUPS22C; SET PUPS22;
200                   IF TH = 'T4' THEN DELETE;
201                   IF TH = 'T3' THEN DELETE;
202
```

NOTE: The data set WORK.PUPS22C has 158 observations and 10 variables.

```
202         PROC SORT; BY GENDER TRT;
203
```

NOTE: The data set WORK.PUPS22C has 158 observations and 10 variables.

```
203         PROC GLM; BY GENDER;
204                         CLASSES TRT;
205                         MODEL RES = TRT;
206                         MEANS TRT/DUNCAN LINES;
207                         TITLE1 "WPAFB EFFECTS STUDY - STEP-DOWN ANOVAS";
208                         TITLE3 "STEP-DOWN ANOVA FOR TSH - PND22 ONLY";
209
210
211
212        ENDSAS;
```

NOTE: The PROCEDURE GLM printed pages 79-84.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
1	16616	F	1	PND05	16616F1P	61.93	T3	5	pup	1-CONTROL
2	16617	F	1	PND05	16617F1P	65.89	T3	5	pup	1-CONTROL
3	16618	F	1	PND05	16618F1P	53.09	T3	5	pup	1-CONTROL
4	16619	F	1	PND05	16619F1P	51.42	T3	5	pup	1-CONTROL
5	16620	F	1	PND05	16620F1P	65.03	T3	5	pup	1-CONTROL
6	16621	F	1	PND05	16621F1P	66.67	T3	5	pup	1-CONTROL
7	16623	F	1	PND05	16623F1P	61.21	T3	5	pup	1-CONTROL
8	16625	F	1	PND05	16625F1P	70.70	T3	5	pup	1-CONTROL
9	16626	F	1	PND05	16626F1P	63.02	T3	5	pup	1-CONTROL
10	16629	F	1	PND05	16629F1P	73.83	T3	5	pup	1-CONTROL
11	16630	F	1	PND05	16630F1P	61.16	T3	5	pup	1-CONTROL
12	16631	F	1	PND05	16631F1P	54.80	T3	5	pup	1-CONTROL
13	16634	F	1	PND05	16634F1P	55.24	T3	5	pup	1-CONTROL
14	16635	F	1	PND05	16635F1P	68.73	T3	5	pup	1-CONTROL
15	16636	F	1	PND05	16636F1P	58.28	T3	5	pup	1-CONTROL
16	16640	F	2	PND05	16640F2P	60.62	T3	5	pup	2----0.01
17	16641	F	2	PND05	16641F2P	52.48	T3	5	pup	2----0.01
18	16643	F	2	PND05	16643F2P	51.61	T3	5	pup	2----0.01
19	16644	F	2	PND05	16644F2P	52.95	T3	5	pup	2----0.01
20	16645	F	2	PND05	16645F2P	49.46	T3	5	pup	2----0.01
21	16646	F	2	PND05	16646F2P	50.97	T3	5	pup	2----0.01
22	16647	F	2	PND05	16647F2P	60.46	T3	5	pup	2----0.01
23	16650	F	2	PND05	16650F2P	61.97	T3	5	pup	2----0.01
24	16651	F	2	PND05	16651F2P	57.68	T3	5	pup	2----0.01
25	16653	F	2	PND05	16653F2P	63.47	T3	5	pup	2----0.01
26	16654	F	2	PND05	16654F2P	61.26	T3	5	pup	2----0.01
27	16655	F	2	PND05	16655F2P	45.60	T3	5	pup	2----0.01
28	16656	F	2	PND05	16656F2P	68.97	T3	5	pup	2----0.01
29	16657	F	2	PND05	16657F2P	62.41	T3	5	pup	2----0.01
30	16659	F	2	PND05	16659F2P	58.51	T3	5	pup	2----0.01
31	16662	F	3	PND05	16662F3P	54.71	T3	5	pup	3-----0.1
32	16664	F	3	PND05	16664F3P	61.10	T3	5	pup	3-----0.1
33	16665	F	3	PND05	16665F3P	47.62	T3	5	pup	3-----0.1
34	16666	F	3	PND05	16666F3P	48.12	T3	5	pup	3-----0.1
35	16667	F	3	PND05	16667F3P	60.67	T3	5	pup	3-----0.1
36	16668	F	3	PND05	16668F3P	61.62	T3	5	pup	3-----0.1
37	16669	F	3	PND05	16669F3P	60.44	T3	5	pup	3-----0.1
38	16670	F	3	PND05	16670F3P	53.52	T3	5	pup	3-----0.1
39	16673	F	3	PND05	16673F3P	54.76	T3	5	pup	3-----0.1
40	16675	F	3	PND05	16675F3P	54.41	T3	5	pup	3-----0.1
41	16676	F	3	PND05	16676F3P	51.93	T3	5	pup	3-----0.1
42	16678	F	3	PND05	16678F3P	54.51	T3	5	pup	3-----0.1
43	16679	F	3	PND05	16679F3P	56.88	T3	5	pup	3-----0.1
44	16680	F	3	PND05	16680F3P	64.89	T3	5	pup	3-----0.1
45	16683	F	3	PND05	16683F3P	61.81	T3	5	pup	3-----0.1
46	16685	F	4	PND05	16685F4P	47.89	T3	5	pup	4-----1.0
47	16686	F	4	PND05	16686F4P	52.17	T3	5	pup	4-----1.0
48	16687	F	4	PND05	16687F4P	60.81	T3	5	pup	4-----1.0
49	16688	F	4	PND05	16688F4P	51.88	T3	5	pup	4-----1.0
50	16689	F	4	PND05	16689F4P	55.49	T3	5	pup	4-----1.0
51	16690	F	4	PND05	16690F4P	61.26	T3	5	pup	4-----1.0

52	16693	F	4	PND05	16693F4P	67.40	T3	5	pup	4-----1.0
53	16695	F	4	PND05	16695F4P	50.84	T3	5	pup	4-----1.0
54	16696	F	5	PND05	16696F5P	55.61	T3	5	pup	5----30.0
55	16697	F	4	PND05	16697F4P	58.74	T3	5	pup	4-----1.0
56	16698	F	4	PND05	16698F4P	51.31	T3	5	pup	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
57	16699	F	4	PND05	16699F4P	48.79	T3	5	pup	4-----1.0
58	16701	F	4	PND05	16701F4P	58.41	T3	5	pup	4-----1.0
59	16706	F	4	PND05	16706F4P	51.06	T3	5	pup	4-----1.0
60	16707	F	4	PND05	16707F4P	59.45	T3	5	pup	4-----1.0
61	16708	F	5	PND05	16708F5P	62.30	T3	5	pup	5----30.0
62	16709	F	5	PND05	16709F5P	52.37	T3	5	pup	5----30.0
63	16711	F	5	PND05	16711F5P	55.12	T3	5	pup	5----30.0
64	16712	F	5	PND05	16712F5P	62.19	T3	5	pup	5----30.0
65	16713	F	5	PND05	16713F5P	53.65	T3	5	pup	5----30.0
66	16715	F	5	PND05	16715F5P	48.25	T3	5	pup	5----30.0
67	16716	F	5	PND05	16716F5P	55.58	T3	5	pup	5----30.0
68	16717	F	5	PND05	16717F5P	59.87	T3	5	pup	5----30.0
69	16718	F	5	PND05	16718F5P	51.52	T3	5	pup	5----30.0
70	16719	F	5	PND05	16719F5P	42.81	T3	5	pup	5----30.0
71	16722	F	5	PND05	16722F5P	48.90	T3	5	pup	5----30.0
72	16616	F	1	PND10	16616F1P	78.89	T3	10	pup	1-CONTROL
73	16617	F	1	PND10	16617F1P	77.44	T3	10	pup	1-CONTROL
74	16618	F	1	PND10	16618F1P	85.23	T3	10	pup	1-CONTROL
75	16619	F	1	PND10	16619F1P	83.53	T3	10	pup	1-CONTROL
76	16620	F	1	PND10	16620F1P	90.10	T3	10	pup	1-CONTROL
77	16621	F	1	PND10	16621F1P	90.46	T3	10	pup	1-CONTROL
78	16623	F	1	PND10	16623F1P	74.49	T3	10	pup	1-CONTROL
79	16625	F	1	PND10	16625F1P	66.34	T3	10	pup	1-CONTROL
80	16626	F	1	PND10	16626F1P	80.57	T3	10	pup	1-CONTROL
81	16629	F	1	PND10	16629F1P	86.78	T3	10	pup	1-CONTROL
82	16630	F	1	PND10	16630F1P	75.68	T3	10	pup	1-CONTROL
83	16631	F	1	PND10	16631F1P	74.09	T3	10	pup	1-CONTROL
84	16634	F	1	PND10	16634F1P	78.82	T3	10	pup	1-CONTROL
85	16635	F	1	PND10	16635F1P	81.30	T3	10	pup	1-CONTROL
86	16636	F	1	PND10	16636F1P	77.80	T3	10	pup	1-CONTROL
87	16637	F	1	PND10	16637F1P	71.16	T3	10	pup	1-CONTROL
88	16640	F	2	PND10	16640F2P	73.39	T3	10	pup	2----0.01
89	16641	F	2	PND10	16641F2P	77.20	T3	10	pup	2----0.01
90	16643	F	2	PND10	16643F2P	66.63	T3	10	pup	2----0.01
91	16644	F	2	PND10	16644F2P	77.14	T3	10	pup	2----0.01
92	16645	F	2	PND10	16645F2P	75.44	T3	10	pup	2----0.01
93	16646	F	2	PND10	16646F2P	76.33	T3	10	pup	2----0.01
94	16647	F	2	PND10	16647F2P	83.67	T3	10	pup	2----0.01
95	16649	F	2	PND10	16649F2P	65.84	T3	10	pup	2----0.01
96	16650	F	2	PND10	16650F2P	95.79	T3	10	pup	2----0.01
97	16651	F	2	PND10	16651F2P	72.00	T3	10	pup	2----0.01
98	16653	F	2	PND10	16653F2P	63.55	T3	10	pup	2----0.01
99	16654	F	2	PND10	16654F2P	69.74	T3	10	pup	2----0.01
100	16655	F	2	PND10	16655F2P	80.48	T3	10	pup	2----0.01
101	16656	F	2	PND10	16656F2P	67.27	T3	10	pup	2----0.01
102	16657	F	2	PND10	16657F2P	80.74	T3	10	pup	2----0.01
103	16659	F	2	PND10	16659F2P	77.59	T3	10	pup	2----0.01
104	16662	F	3	PND10	16662F3P	83.03	T3	10	pup	3-----0.1

105	16664	F	3	PND10	16664F3P	66.98	T3	10	pup	3-----0.1
106	16665	F	3	PND10	16665F3P	79.16	T3	10	pup	3-----0.1
107	16666	F	3	PND10	16666F3P	60.04	T3	10	pup	3-----0.1
108	16667	F	3	PND10	16667F3P	74.61	T3	10	pup	3-----0.1
109	16668	F	3	PND10	16668F3P	76.90	T3	10	pup	3-----0.1
110	16669	F	3	PND10	16669F3P	84.57	T3	10	pup	3-----0.1
111	16670	F	3	PND10	16670F3P	82.08	T3	10	pup	3-----0.1
112	16673	F	3	PND10	16673F3P	66.27	T3	10	pup	3-----0.1

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
113	16675	F	3	PND10	16675F3P	73.78	T3	10	pup	3-----0.1
114	16676	F	3	PND10	16676F3P	75.00	T3	10	pup	3-----0.1
115	16678	F	3	PND10	16678F3P	71.70	T3	10	pup	3-----0.1
116	16679	F	3	PND10	16679F3P	86.25	T3	10	pup	3-----0.1
117	16680	F	3	PND10	16680F3P	63.32	T3	10	pup	3-----0.1
118	16681	F	3	PND10	16681F3P	66.09	T3	10	pup	3-----0.1
119	16683	F	3	PND10	16683F3P	80.40	T3	10	pup	3-----0.1
120	16685	F	4	PND10	16685F4P	56.43	T3	10	pup	4-----1.0
121	16686	F	4	PND10	16686F4P	65.62	T3	10	pup	4-----1.0
122	16687	F	4	PND10	16687F4P	59.39	T3	10	pup	4-----1.0
123	16688	F	4	PND10	16688F4P	61.41	T3	10	pup	4-----1.0
124	16689	F	4	PND10	16689F4P	66.77	T3	10	pup	4-----1.0
125	16690	F	4	PND10	16690F4P	65.37	T3	10	pup	4-----1.0
126	16692	F	4	PND10	16692F4P	61.32	T3	10	pup	4-----1.0
127	16693	F	4	PND10	16693F4P	60.72	T3	10	pup	4-----1.0
128	16695	F	4	PND10	16695F4P	71.01	T3	10	pup	4-----1.0
129	16696	F	4	PND10	16696F4P	68.13	T3	10	pup	4-----1.0
130	16697	F	4	PND10	16697F4P	81.88	T3	10	pup	4-----1.0
131	16698	F	4	PND10	16698F4P	59.45	T3	10	pup	4-----1.0
132	16699	F	4	PND10	16699F4P	71.20	T3	10	pup	4-----1.0
133	16701	F	4	PND10	16701F4P	68.00	T3	10	pup	4-----1.0
134	16706	F	4	PND10	16706F4P	68.85	T3	10	pup	4-----1.0
135	16707	F	4	PND10	16707F4P	73.97	T3	10	pup	4-----1.0
136	16708	F	5	PND10	16708F5P	54.07	T3	10	pup	5----30.0
137	16709	F	5	PND10	16709F5P	51.50	T3	10	pup	5----30.0
138	16711	F	5	PND10	16711F5P	50.74	T3	10	pup	5----30.0
139	16712	F	5	PND10	16712F5P	67.76	T3	10	pup	5----30.0
140	16713	F	5	PND10	16713F5P	71.60	T3	10	pup	5----30.0
141	16715	F	5	PND10	16715F5P	70.75	T3	10	pup	5----30.0
142	16716	F	5	PND10	16716F5P	53.08	T3	10	pup	5----30.0
143	16717	F	5	PND10	16717F5P	66.26	T3	10	pup	5----30.0
144	16718	F	5	PND10	16718F5P	67.76	T3	10	pup	5----30.0
145	16719	F	5	PND10	16719F5P	68.35	T3	10	pup	5----30.0
146	16722	F	5	PND10	16722F5P	72.51	T3	10	pup	5----30.0
147	16723	F	5	PND10	16723F5P	69.33	T3	10	pup	5----30.0
148	16724	F	5	PND10	16724F5P	68.19	T3	10	pup	5----30.0
149	16725	F	5	PND10	16725F5P	70.25	T3	10	pup	5----30.0
150	16728	F	5	PND10	16728F5P	65.25	T3	10	pup	5----30.0
151	16730	F	5	PND10	16730F5P	63.18	T3	10	pup	5----30.0
152	16616	F	1	PND05	16616F1P	1.97	T4	5	pup	1-CONTROL
153	16617	F	1	PND05	16617F1P	2.10	T4	5	pup	1-CONTROL
154	16618	F	1	PND05	16618F1P	2.04	T4	5	pup	1-CONTROL
155	16619	F	1	PND05	16619F1P	2.38	T4	5	pup	1-CONTROL
156	16620	F	1	PND05	16620F1P	1.84	T4	5	pup	1-CONTROL
157	16621	F	1	PND05	16621F1P	2.14	T4	5	pup	1-CONTROL

158	16623	F	1	PND05	16623F1P	2.14	T4	5	pup	1-CONTROL
159	16625	F	1	PND05	16625F1P	2.53	T4	5	pup	1-CONTROL
160	16626	F	1	PND05	16626F1P	2.35	T4	5	pup	1-CONTROL
161	16629	F	1	PND05	16629F1P	1.79	T4	5	pup	1-CONTROL
162	16630	F	1	PND05	16630F1P	1.80	T4	5	pup	1-CONTROL
163	16631	F	1	PND05	16631F1P	1.89	T4	5	pup	1-CONTROL
164	16640	F	2	PND05	16640F2P	1.60	T4	5	pup	2----0.01
165	16641	F	2	PND05	16641F2P	2.11	T4	5	pup	2----0.01
166	16644	F	2	PND05	16644F2P	1.86	T4	5	pup	2----0.01
167	16645	F	2	PND05	16645F2P	1.86	T4	5	pup	2----0.01
168	16646	F	2	PND05	16646F2P	2.22	T4	5	pup	2----0.01

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
169	16650	F	2	PND05	16650F2P	1.52	T4	5	pup	2----0.01
170	16651	F	2	PND05	16651F2P	1.90	T4	5	pup	2----0.01
171	16654	F	2	PND05	16654F2P	1.56	T4	5	pup	2----0.01
172	16655	F	2	PND05	16655F2P	1.82	T4	5	pup	2----0.01
173	16656	F	2	PND05	16656F2P	1.85	T4	5	pup	2----0.01
174	16657	F	2	PND05	16657F2P	1.83	T4	5	pup	2----0.01
175	16662	F	3	PND05	16662F3P	2.10	T4	5	pup	3-----0.1
176	16665	F	3	PND05	16665F3P	1.71	T4	5	pup	3-----0.1
177	16666	F	3	PND05	16666F3P	2.06	T4	5	pup	3-----0.1
178	16667	F	3	PND05	16667F3P	1.91	T4	5	pup	3-----0.1
179	16668	F	3	PND05	16668F3P	1.72	T4	5	pup	3-----0.1
180	16669	F	3	PND05	16669F3P	1.46	T4	5	pup	3-----0.1
181	16670	F	3	PND05	16670F3P	1.68	T4	5	pup	3-----0.1
182	16673	F	3	PND05	16673F3P	1.97	T4	5	pup	3-----0.1
183	16675	F	3	PND05	16675F3P	1.75	T4	5	pup	3-----0.1
184	16676	F	3	PND05	16676F3P	1.69	T4	5	pup	3-----0.1
185	16679	F	3	PND05	16679F3P	1.79	T4	5	pup	3-----0.1
186	16680	F	3	PND05	16680F3P	1.77	T4	5	pup	3-----0.1
187	16685	F	4	PND05	16685F4P	1.93	T4	5	pup	4-----1.0
188	16686	F	4	PND05	16686F4P	2.35	T4	5	pup	4-----1.0
189	16687	F	4	PND05	16687F4P	2.01	T4	5	pup	4-----1.0
190	16688	F	4	PND05	16688F4P	1.55	T4	5	pup	4-----1.0
191	16689	F	4	PND05	16689F4P	1.62	T4	5	pup	4-----1.0
192	16690	F	4	PND05	16690F4P	1.90	T4	5	pup	4-----1.0
193	16693	F	4	PND05	16693F4P	1.69	T4	5	pup	4-----1.0
194	16695	F	4	PND05	16695F4P	1.73	T4	5	pup	4-----1.0
195	16697	F	4	PND05	16697F4P	1.79	T4	5	pup	4-----1.0
196	16698	F	4	PND05	16698F4P	1.61	T4	5	pup	4-----1.0
197	16699	F	4	PND05	16699F4P	1.76	T4	5	pup	4-----1.0
198	16701	F	4	PND05	16701F4P	1.72	T4	5	pup	4-----1.0
199	16706	F	4	PND05	16706F4P	1.66	T4	5	pup	4-----1.0
200	16707	F	4	PND05	16707F4P	1.70	T4	5	pup	4-----1.0
201	16711	F	5	PND05	16711F5P	1.77	T4	5	pup	5----30.0
202	16715	F	5	PND05	16715F5P	1.86	T4	5	pup	5----30.0
203	16716	F	5	PND05	16716F5P	1.68	T4	5	pup	5----30.0
204	16717	F	5	PND05	16717F5P	1.85	T4	5	pup	5----30.0
205	16719	F	5	PND05	16719F5P	1.47	T4	5	pup	5----30.0
206	16723	F	5	PND05	16723F5P	1.87	T4	5	pup	5----30.0
207	16725	F	5	PND05	16725F5P	1.92	T4	5	pup	5----30.0
208	16728	F	5	PND05	16728F5P	1.36	T4	5	pup	5----30.0
209	16730	F	5	PND05	16730F5P	1.55	T4	5	pup	5----30.0
210	16616	F	1	PND10	16616F1P	3.14	T4	10	pup	1-CONTROL

211	16617	F	1	PND10	16617F1P	3.63	T4	10	pup	1-CONTROL
212	16618	F	1	PND10	16618F1P	4.48	T4	10	pup	1-CONTROL
213	16619	F	1	PND10	16619F1P	3.54	T4	10	pup	1-CONTROL
214	16620	F	1	PND10	16620F1P	3.68	T4	10	pup	1-CONTROL
215	16621	F	1	PND10	16621F1P	4.11	T4	10	pup	1-CONTROL
216	16623	F	1	PND10	16623F1P	3.81	T4	10	pup	1-CONTROL
217	16625	F	1	PND10	16625F1P	3.77	T4	10	pup	1-CONTROL
218	16626	F	1	PND10	16626F1P	4.29	T4	10	pup	1-CONTROL
219	16629	F	1	PND10	16629F1P	3.44	T4	10	pup	1-CONTROL
220	16630	F	1	PND10	16630F1P	3.15	T4	10	pup	1-CONTROL
221	16631	F	1	PND10	16631F1P	3.12	T4	10	pup	1-CONTROL
222	16634	F	1	PND10	16634F1P	3.73	T4	10	pup	1-CONTROL
223	16635	F	1	PND10	16635F1P	3.63	T4	10	pup	1-CONTROL
224	16636	F	1	PND10	16636F1P	4.11	T4	10	pup	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
225	16637	F	1	PND10	16637F1P	4.12	T4	10	pup	1-CONTROL
226	16640	F	2	PND10	16640F2P	4.06	T4	10	pup	2----0.01
227	16641	F	2	PND10	16641F2P	3.51	T4	10	pup	2----0.01
228	16643	F	2	PND10	16643F2P	3.21	T4	10	pup	2----0.01
229	16644	F	2	PND10	16644F2P	3.49	T4	10	pup	2----0.01
230	16645	F	2	PND10	16645F2P	4.56	T4	10	pup	2----0.01
231	16646	F	2	PND10	16646F2P	3.71	T4	10	pup	2----0.01
232	16647	F	2	PND10	16647F2P	3.27	T4	10	pup	2----0.01
233	16649	F	2	PND10	16649F2P	3.48	T4	10	pup	2----0.01
234	16650	F	2	PND10	16650F2P	3.47	T4	10	pup	2----0.01
235	16651	F	2	PND10	16651F2P	4.03	T4	10	pup	2----0.01
236	16653	F	2	PND10	16653F2P	3.94	T4	10	pup	2----0.01
237	16654	F	2	PND10	16654F2P	4.06	T4	10	pup	2----0.01
238	16655	F	2	PND10	16655F2P	3.75	T4	10	pup	2----0.01
239	16656	F	2	PND10	16656F2P	3.51	T4	10	pup	2----0.01
240	16657	F	2	PND10	16657F2P	3.69	T4	10	pup	2----0.01
241	16659	F	2	PND10	16659F2P	3.99	T4	10	pup	2----0.01
242	16662	F	3	PND10	16662F3P	4.32	T4	10	pup	3-----0.1
243	16664	F	3	PND10	16664F3P	3.15	T4	10	pup	3-----0.1
244	16665	F	3	PND10	16665F3P	3.06	T4	10	pup	3-----0.1
245	16666	F	3	PND10	16666F3P	3.96	T4	10	pup	3-----0.1
246	16667	F	3	PND10	16667F3P	4.09	T4	10	pup	3-----0.1
247	16668	F	3	PND10	16668F3P	3.37	T4	10	pup	3-----0.1
248	16669	F	3	PND10	16669F3P	2.67	T4	10	pup	3-----0.1
249	16670	F	3	PND10	16670F3P	3.70	T4	10	pup	3-----0.1
250	16673	F	3	PND10	16673F3P	3.48	T4	10	pup	3-----0.1
251	16675	F	3	PND10	16675F3P	3.59	T4	10	pup	3-----0.1
252	16676	F	3	PND10	16676F3P	3.51	T4	10	pup	3-----0.1
253	16678	F	3	PND10	16678F3P	3.80	T4	10	pup	3-----0.1
254	16679	F	3	PND10	16679F3P	3.18	T4	10	pup	3-----0.1
255	16680	F	3	PND10	16680F3P	3.51	T4	10	pup	3-----0.1
256	16681	F	3	PND10	16681F3P	3.52	T4	10	pup	3-----0.1
257	16683	F	3	PND10	16683F3P	3.14	T4	10	pup	3-----0.1
258	16685	F	4	PND10	16685F4P	3.39	T4	10	pup	4-----1.0
259	16686	F	4	PND10	16686F4P	3.21	T4	10	pup	4-----1.0
260	16687	F	4	PND10	16687F4P	2.76	T4	10	pup	4-----1.0
261	16688	F	4	PND10	16688F4P	2.97	T4	10	pup	4-----1.0
262	16689	F	4	PND10	16689F4P	3.22	T4	10	pup	4-----1.0
263	16690	F	4	PND10	16690F4P	3.16	T4	10	pup	4-----1.0

264	16692	F	4	PND10	16692F4P	2.91	T4	10	pup	4-----1.0
265	16693	F	4	PND10	16693F4P	3.33	T4	10	pup	4-----1.0
266	16695	F	4	PND10	16695F4P	3.48	T4	10	pup	4-----1.0
267	16696	F	4	PND10	16696F4P	4.11	T4	10	pup	4-----1.0
268	16697	F	4	PND10	16697F4P	3.60	T4	10	pup	4-----1.0
269	16698	F	4	PND10	16698F4P	3.46	T4	10	pup	4-----1.0
270	16699	F	4	PND10	16699F4P	3.20	T4	10	pup	4-----1.0
271	16701	F	4	PND10	16701F4P	3.55	T4	10	pup	4-----1.0
272	16706	F	4	PND10	16706F4P	3.73	T4	10	pup	4-----1.0
273	16707	F	4	PND10	16707F4P	3.80	T4	10	pup	4-----1.0
274	16708	F	5	PND10	16708F5P	2.95	T4	10	pup	5----30.0
275	16709	F	5	PND10	16709F5P	3.10	T4	10	pup	5----30.0
276	16711	F	5	PND10	16711F5P	3.42	T4	10	pup	5----30.0
277	16712	F	5	PND10	16712F5P	3.88	T4	10	pup	5----30.0
278	16713	F	5	PND10	16713F5P	3.37	T4	10	pup	5----30.0
279	16715	F	5	PND10	16715F5P	3.34	T4	10	pup	5----30.0
280	16716	F	5	PND10	16716F5P	3.54	T4	10	pup	5----30.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
281	16717	F	5	PND10	16717F5P	3.16	T4	10	pup	5----30.0
282	16718	F	5	PND10	16718F5P	3.93	T4	10	pup	5----30.0
283	16719	F	5	PND10	16719F5P	2.97	T4	10	pup	5----30.0
284	16722	F	5	PND10	16722F5P	3.31	T4	10	pup	5----30.0
285	16723	F	5	PND10	16723F5P	4.02	T4	10	pup	5----30.0
286	16724	F	5	PND10	16724F5P	3.74	T4	10	pup	5----30.0
287	16725	F	5	PND10	16725F5P	3.02	T4	10	pup	5----30.0
288	16728	F	5	PND10	16728F5P	3.00	T4	10	pup	5----30.0
289	16730	F	5	PND10	16730F5P	2.84	T4	10	pup	5----30.0
290	16616	F	1	PND05	16616F1P	3.97	TSH	5	pup	1-CONTROL
291	16617	F	1	PND05	16617F1P	5.34	TSH	5	pup	1-CONTROL
292	16618	F	1	PND05	16618F1P	5.16	TSH	5	pup	1-CONTROL
293	16619	F	1	PND05	16619F1P	4.15	TSH	5	pup	1-CONTROL
294	16620	F	1	PND05	16620F1P	5.15	TSH	5	pup	1-CONTROL
295	16621	F	1	PND05	16621F1P	4.30	TSH	5	pup	1-CONTROL
296	16623	F	1	PND05	16623F1P	4.40	TSH	5	pup	1-CONTROL
297	16625	F	1	PND05	16625F1P	5.39	TSH	5	pup	1-CONTROL
298	16626	F	1	PND05	16626F1P	4.86	TSH	5	pup	1-CONTROL
299	16629	F	1	PND05	16629F1P	4.46	TSH	5	pup	1-CONTROL
300	16630	F	1	PND05	16630F1P	5.24	TSH	5	pup	1-CONTROL
301	16631	F	1	PND05	16631F1P	5.41	TSH	5	pup	1-CONTROL
302	16634	F	1	PND05	16634F1P	4.36	TSH	5	pup	1-CONTROL
303	16635	F	1	PND05	16635F1P	5.22	TSH	5	pup	1-CONTROL
304	16636	F	1	PND05	16636F1P	5.39	TSH	5	pup	1-CONTROL
305	16637	F	1	PND05	16637F1P	4.98	TSH	5	pup	1-CONTROL
306	16640	F	2	PND05	16640F2P	4.77	TSH	5	pup	2----0.01
307	16641	F	2	PND05	16641F2P	5.25	TSH	5	pup	2----0.01
308	16643	F	2	PND05	16643F2P	5.76	TSH	5	pup	2----0.01
309	16644	F	2	PND05	16644F2P	4.67	TSH	5	pup	2----0.01
310	16645	F	2	PND05	16645F2P	4.61	TSH	5	pup	2----0.01
311	16646	F	2	PND05	16646F2P	4.00	TSH	5	pup	2----0.01
312	16647	F	2	PND05	16647F2P	5.53	TSH	5	pup	2----0.01
313	16649	F	2	PND05	16649F2P	5.33	TSH	5	pup	2----0.01
314	16650	F	2	PND05	16650F2P	5.23	TSH	5	pup	2----0.01
315	16651	F	2	PND05	16651F2P	4.77	TSH	5	pup	2----0.01
316	16653	F	2	PND05	16653F2P	4.46	TSH	5	pup	2----0.01

317	16654	F	2	PND05	16654F2P	4.26	TSH	5	pup	2----0.01
318	16655	F	2	PND05	16655F2P	6.03	TSH	5	pup	2----0.01
319	16656	F	2	PND05	16656F2P	5.14	TSH	5	pup	2----0.01
320	16657	F	2	PND05	16657F2P	4.78	TSH	5	pup	2----0.01
321	16659	F	2	PND05	16659F2P	4.21	TSH	5	pup	2----0.01
322	16662	F	3	PND05	16662F3P	5.41	TSH	5	pup	3-----0.1
323	16664	F	3	PND05	16664F3P	5.46	TSH	5	pup	3-----0.1
324	16665	F	3	PND05	16665F3P	4.14	TSH	5	pup	3-----0.1
325	16666	F	3	PND05	16666F3P	4.83	TSH	5	pup	3-----0.1
326	16667	F	3	PND05	16667F3P	5.86	TSH	5	pup	3-----0.1
327	16668	F	3	PND05	16668F3P	4.83	TSH	5	pup	3-----0.1
328	16669	F	3	PND05	16669F3P	5.02	TSH	5	pup	3-----0.1
329	16670	F	3	PND05	16670F3P	5.29	TSH	5	pup	3-----0.1
330	16673	F	3	PND05	16673F3P	5.28	TSH	5	pup	3-----0.1
331	16675	F	3	PND05	16675F3P	4.41	TSH	5	pup	3-----0.1
332	16676	F	3	PND05	16676F3P	4.64	TSH	5	pup	3-----0.1
333	16678	F	3	PND05	16678F3P	4.77	TSH	5	pup	3-----0.1
334	16679	F	3	PND05	16679F3P	5.21	TSH	5	pup	3-----0.1
335	16680	F	3	PND05	16680F3P	5.87	TSH	5	pup	3-----0.1
336	16683	F	3	PND05	16683F3P	5.92	TSH	5	pup	3-----0.1

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
337	16685	F	4	PND05	16685F4P	5.30	TSH	5	pup	4-----1.0
338	16686	F	4	PND05	16686F4P	4.79	TSH	5	pup	4-----1.0
339	16687	F	4	PND05	16687F4P	6.13	TSH	5	pup	4-----1.0
340	16688	F	4	PND05	16688F4P	5.85	TSH	5	pup	4-----1.0
341	16689	F	4	PND05	16689F4P	6.53	TSH	5	pup	4-----1.0
342	16690	F	4	PND05	16690F4P	5.34	TSH	5	pup	4-----1.0
343	16693	F	4	PND05	16693F4P	5.29	TSH	5	pup	4-----1.0
344	16695	F	4	PND05	16695F4P	4.60	TSH	5	pup	4-----1.0
345	16696	F	4	PND05	16696F4P	4.76	TSH	5	pup	4-----1.0
346	16697	F	4	PND05	16697F4P	4.45	TSH	5	pup	4-----1.0
347	16698	F	4	PND05	16698F4P	5.12	TSH	5	pup	4-----1.0
348	16699	F	4	PND05	16699F4P	5.38	TSH	5	pup	4-----1.0
349	16701	F	4	PND05	16701F4P	5.31	TSH	5	pup	4-----1.0
350	16706	F	4	PND05	16706F4P	4.65	TSH	5	pup	4-----1.0
351	16707	F	4	PND05	16707F4P	5.70	TSH	5	pup	4-----1.0
352	16708	F	5	PND05	16708F5P	5.61	TSH	5	pup	5----30.0
353	16709	F	5	PND05	16709F5P	6.13	TSH	5	pup	5----30.0
354	16711	F	5	PND05	16711F5P	5.04	TSH	5	pup	5----30.0
355	16712	F	5	PND05	16712F5P	5.13	TSH	5	pup	5----30.0
356	16713	F	5	PND05	16713F5P	6.01	TSH	5	pup	5----30.0
357	16715	F	5	PND05	16715F5P	4.78	TSH	5	pup	5----30.0
358	16716	F	5	PND05	16716F5P	4.46	TSH	5	pup	5----30.0
359	16717	F	5	PND05	16717F5P	4.51	TSH	5	pup	5----30.0
360	16718	F	5	PND05	16718F5P	4.60	TSH	5	pup	5----30.0
361	16719	F	5	PND05	16719F5P	4.49	TSH	5	pup	5----30.0
362	16722	F	5	PND05	16722F5P	5.07	TSH	5	pup	5----30.0
363	16723	F	5	PND05	16723F5P	6.09	TSH	5	pup	5----30.0
364	16724	F	5	PND05	16724F5P	5.49	TSH	5	pup	5----30.0
365	16725	F	5	PND05	16725F5P	5.92	TSH	5	pup	5----30.0
366	16728	F	5	PND05	16728F5P	5.42	TSH	5	pup	5----30.0
367	16730	F	5	PND05	16730F5P	5.98	TSH	5	pup	5----30.0
368	16616	F	1	PND10	16616F1P	5.60	TSH	10	pup	1-CONTROL
369	16617	F	1	PND10	16617F1P	6.84	TSH	10	pup	1-CONTROL

370	16618	F	1	PND10	16618F1P	7.30	TSH	10	pup	1-CONTROL
371	16619	F	1	PND10	16619F1P	6.39	TSH	10	pup	1-CONTROL
372	16620	F	1	PND10	16620F1P	7.73	TSH	10	pup	1-CONTROL
373	16621	F	1	PND10	16621F1P	7.03	TSH	10	pup	1-CONTROL
374	16623	F	1	PND10	16623F1P	6.52	TSH	10	pup	1-CONTROL
375	16625	F	1	PND10	16625F1P	7.67	TSH	10	pup	1-CONTROL
376	16626	F	1	PND10	16626F1P	6.62	TSH	10	pup	1-CONTROL
377	16629	F	1	PND10	16629F1P	6.81	TSH	10	pup	1-CONTROL
378	16630	F	1	PND10	16630F1P	7.46	TSH	10	pup	1-CONTROL
379	16631	F	1	PND10	16631F1P	6.13	TSH	10	pup	1-CONTROL
380	16634	F	1	PND10	16634F1P	5.81	TSH	10	pup	1-CONTROL
381	16635	F	1	PND10	16635F1P	5.23	TSH	10	pup	1-CONTROL
382	16636	F	1	PND10	16636F1P	6.81	TSH	10	pup	1-CONTROL
383	16637	F	1	PND10	16637F1P	6.24	TSH	10	pup	1-CONTROL
384	16640	F	2	PND10	16640F2P	6.36	TSH	10	pup	2----0.01
385	16641	F	2	PND10	16641F2P	7.67	TSH	10	pup	2----0.01
386	16643	F	2	PND10	16643F2P	6.01	TSH	10	pup	2----0.01
387	16644	F	2	PND10	16644F2P	7.66	TSH	10	pup	2----0.01
388	16645	F	2	PND10	16645F2P	8.19	TSH	10	pup	2----0.01
389	16646	F	2	PND10	16646F2P	8.02	TSH	10	pup	2----0.01
390	16647	F	2	PND10	16647F2P	6.21	TSH	10	pup	2----0.01
391	16649	F	2	PND10	16649F2P	7.87	TSH	10	pup	2----0.01
392	16650	F	2	PND10	16650F2P	6.19	TSH	10	pup	2----0.01

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
393	16651	F	2	PND10	16651F2P	7.25	TSH	10	pup	2----0.01
394	16653	F	2	PND10	16653F2P	7.11	TSH	10	pup	2----0.01
395	16654	F	2	PND10	16654F2P	7.59	TSH	10	pup	2----0.01
396	16655	F	2	PND10	16655F2P	8.33	TSH	10	pup	2----0.01
397	16656	F	2	PND10	16656F2P	7.79	TSH	10	pup	2----0.01
398	16657	F	2	PND10	16657F2P	6.80	TSH	10	pup	2----0.01
399	16659	F	2	PND10	16659F2P	6.48	TSH	10	pup	2----0.01
400	16662	F	3	PND10	16662F3P	7.11	TSH	10	pup	3-----0.1
401	16664	F	3	PND10	16664F3P	6.36	TSH	10	pup	3-----0.1
402	16665	F	3	PND10	16665F3P	6.56	TSH	10	pup	3-----0.1
403	16666	F	3	PND10	16666F3P	6.74	TSH	10	pup	3-----0.1
404	16667	F	3	PND10	16667F3P	7.69	TSH	10	pup	3-----0.1
405	16668	F	3	PND10	16668F3P	7.73	TSH	10	pup	3-----0.1
406	16669	F	3	PND10	16669F3P	7.30	TSH	10	pup	3-----0.1
407	16670	F	3	PND10	16670F3P	6.92	TSH	10	pup	3-----0.1
408	16673	F	3	PND10	16673F3P	7.29	TSH	10	pup	3-----0.1
409	16675	F	3	PND10	16675F3P	8.93	TSH	10	pup	3-----0.1
410	16676	F	3	PND10	16676F3P	6.52	TSH	10	pup	3-----0.1
411	16678	F	3	PND10	16678F3P	8.33	TSH	10	pup	3-----0.1
412	16679	F	3	PND10	16679F3P	7.82	TSH	10	pup	3-----0.1
413	16680	F	3	PND10	16680F3P	6.98	TSH	10	pup	3-----0.1
414	16681	F	3	PND10	16681F3P	6.61	TSH	10	pup	3-----0.1
415	16683	F	3	PND10	16683F3P	7.07	TSH	10	pup	3-----0.1
416	16685	F	4	PND10	16685F4P	7.32	TSH	10	pup	4-----1.0
417	16686	F	4	PND10	16686F4P	8.56	TSH	10	pup	4-----1.0
418	16687	F	4	PND10	16687F4P	6.23	TSH	10	pup	4-----1.0
419	16688	F	4	PND10	16688F4P	6.29	TSH	10	pup	4-----1.0
420	16689	F	4	PND10	16689F4P	7.76	TSH	10	pup	4-----1.0
421	16690	F	4	PND10	16690F4P	6.36	TSH	10	pup	4-----1.0
422	16692	F	4	PND10	16692F4P	7.91	TSH	10	pup	4-----1.0

423	16693	F	4	PND10	16693F4P	6.67	TSH	10	pup	4-----1.0
424	16695	F	4	PND10	16695F4P	7.19	TSH	10	pup	4-----1.0
425	16696	F	4	PND10	16696F4P	8.28	TSH	10	pup	4-----1.0
426	16697	F	4	PND10	16697F4P	7.74	TSH	10	pup	4-----1.0
427	16698	F	4	PND10	16698F4P	7.49	TSH	10	pup	4-----1.0
428	16699	F	4	PND10	16699F4P	8.30	TSH	10	pup	4-----1.0
429	16701	F	4	PND10	16701F4P	7.15	TSH	10	pup	4-----1.0
430	16706	F	4	PND10	16706F4P	6.74	TSH	10	pup	4-----1.0
431	16707	F	4	PND10	16707F4P	7.20	TSH	10	pup	4-----1.0
432	16708	F	5	PND10	16708F5P	7.94	TSH	10	pup	5----30.0
433	16709	F	5	PND10	16709F5P	8.50	TSH	10	pup	5----30.0
434	16711	F	5	PND10	16711F5P	8.84	TSH	10	pup	5----30.0
435	16712	F	5	PND10	16712F5P	7.95	TSH	10	pup	5----30.0
436	16713	F	5	PND10	16713F5P	9.06	TSH	10	pup	5----30.0
437	16715	F	5	PND10	16715F5P	7.55	TSH	10	pup	5----30.0
438	16716	F	5	PND10	16716F5P	10.37	TSH	10	pup	5----30.0
439	16717	F	5	PND10	16717F5P	8.90	TSH	10	pup	5----30.0
440	16718	F	5	PND10	16718F5P	7.79	TSH	10	pup	5----30.0
441	16719	F	5	PND10	16719F5P	10.34	TSH	10	pup	5----30.0
442	16722	F	5	PND10	16722F5P	8.69	TSH	10	pup	5----30.0
443	16723	F	5	PND10	16723F5P	10.12	TSH	10	pup	5----30.0
444	16724	F	5	PND10	16724F5P	9.77	TSH	10	pup	5----30.0
445	16725	F	5	PND10	16725F5P	9.37	TSH	10	pup	5----30.0
446	16728	F	5	PND10	16728F5P	7.89	TSH	10	pup	5----30.0
447	16730	F	5	PND10	16730F5P	9.05	TSH	10	pup	5----30.0
448	16501	F	1	GD21	16501F1D	7.11	TSH	GD20	fetal	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
449	16502	F	1	GD21	16502F1D	6.80	TSH	GD20	fetal	1-CONTROL
450	16503	F	1	GD21	16503F1D	6.01	TSH	GD20	fetal	1-CONTROL
451	16504	F	1	GD21	16504F1D	6.32	TSH	GD20	fetal	1-CONTROL
452	16505	F	1	GD21	16505F1D	7.49	TSH	GD20	fetal	1-CONTROL
453	16506	F	1	GD21	16506F1D	7.01	TSH	GD20	fetal	1-CONTROL
454	16508	F	1	GD21	16508F1D	6.72	TSH	GD20	fetal	1-CONTROL
455	16509	F	1	GD21	16509F1D	6.79	TSH	GD20	fetal	1-CONTROL
456	16510	F	1	GD21	16510F1D	8.33	TSH	GD20	fetal	1-CONTROL
457	16513	F	1	GD21	16513F1D	6.20	TSH	GD20	fetal	1-CONTROL
458	16514	F	1	GD21	16514F1D	7.79	TSH	GD20	fetal	1-CONTROL
459	16515	F	1	GD21	16515F1D	7.60	TSH	GD20	fetal	1-CONTROL
460	16516	F	1	GD21	16516F1D	7.83	TSH	GD20	fetal	1-CONTROL
461	16519	F	1	GD21	16519F1D	7.84	TSH	GD20	fetal	1-CONTROL
462	16521	F	1	GD21	16521F1D	8.21	TSH	GD20	fetal	1-CONTROL
463	16522	F	1	GD21	16522F1D	7.43	TSH	GD20	fetal	1-CONTROL
464	16501	F	1	GD21	16501F1D	1.64	T4	GD20	fetal	1-CONTROL
465	16502	F	1	GD21	16502F1D	1.75	T4	GD20	fetal	1-CONTROL
466	16503	F	1	GD21	16503F1D	1.52	T4	GD20	fetal	1-CONTROL
467	16504	F	1	GD21	16504F1D	1.52	T4	GD20	fetal	1-CONTROL
468	16505	F	1	GD21	16505F1D	1.87	T4	GD20	fetal	1-CONTROL
469	16506	F	1	GD21	16506F1D	1.71	T4	GD20	fetal	1-CONTROL
470	16508	F	1	GD21	16508F1D	1.63	T4	GD20	fetal	1-CONTROL
471	16509	F	1	GD21	16509F1D	1.65	T4	GD20	fetal	1-CONTROL
472	16510	F	1	GD21	16510F1D	1.73	T4	GD20	fetal	1-CONTROL
473	16513	F	1	GD21	16513F1D	1.43	T4	GD20	fetal	1-CONTROL
474	16514	F	1	GD21	16514F1D	1.73	T4	GD20	fetal	1-CONTROL
475	16515	F	1	GD21	16515F1D	1.39	T4	GD20	fetal	1-CONTROL

476	16516	F	1	GD21	16516F1D	1.40	T4	GD20	fetal	1-CONTROL
477	16519	F	1	GD21	16519F1D	1.37	T4	GD20	fetal	1-CONTROL
478	16521	F	1	GD21	16521F1D	1.74	T4	GD20	fetal	1-CONTROL
479	16522	F	1	GD21	16522F1D	1.38	T4	GD20	fetal	1-CONTROL
480	16501	F	1	GD21	16501F1D	20.04	T3	GD20	fetal	1-CONTROL
481	16503	F	1	GD21	16503F1D	22.50	T3	GD20	fetal	1-CONTROL
482	16505	F	1	GD21	16505F1D	22.02	T3	GD20	fetal	1-CONTROL
483	16509	F	1	GD21	16509F1D	27.29	T3	GD20	fetal	1-CONTROL
484	16510	F	1	GD21	16510F1D	22.29	T3	GD20	fetal	1-CONTROL
485	16514	F	1	GD21	16514F1D	24.64	T3	GD20	fetal	1-CONTROL
486	16516	F	1	GD21	16516F1D	22.56	T3	GD20	fetal	1-CONTROL
487	16522	F	1	GD21	16522F1D	25.54	T3	GD20	fetal	1-CONTROL
488	16524	F	2	GD21	16524F2D	19.80	T3	GD20	fetal	2----0.01
489	16529	F	2	GD21	16529F2D	20.75	T3	GD20	fetal	2----0.01
490	16531	F	2	GD21	16531F2D	20.30	T3	GD20	fetal	2----0.01
491	16532	F	2	GD21	16532F2D	18.37	T3	GD20	fetal	2----0.01
492	16542	F	2	GD21	16542F2D	22.09	T3	GD20	fetal	2----0.01
493	16545	F	2	GD21	16545F2D	15.18	T3	GD20	fetal	2----0.01
494	16546	F	2	GD21	16546F2D	18.73	T3	GD20	fetal	2----0.01
495	16547	F	3	GD21	16547F3D	18.62	T3	GD20	fetal	3-----0.1
496	16548	F	3	GD21	16548F3D	20.26	T3	GD20	fetal	3-----0.1
497	16552	F	3	GD21	16552F3D	17.40	T3	GD20	fetal	3-----0.1
498	16554	F	3	GD21	16554F3D	16.79	T3	GD20	fetal	3-----0.1
499	16555	F	3	GD21	16555F3D	15.58	T3	GD20	fetal	3-----0.1
500	16559	F	3	GD21	16559F3D	14.94	T3	GD20	fetal	3-----0.1
501	16560	F	3	GD21	16560F3D	15.95	T3	GD20	fetal	3-----0.1
502	16567	F	3	GD21	16567F3D	16.02	T3	GD20	fetal	3-----0.1
503	16570	F	4	GD21	16570F4D	19.48	T3	GD20	fetal	4-----1.0
504	16579	F	4	GD21	16579F4D	18.39	T3	GD20	fetal	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
505	16580	F	4	GD21	16580F4D	14.80	T3	GD20	fetal	4-----1.0
506	16581	F	4	GD21	16581F4D	15.44	T3	GD20	fetal	4-----1.0
507	16583	F	4	GD21	16583F4D	16.85	T3	GD20	fetal	4-----1.0
508	16587	F	4	GD21	16587F4D	16.32	T3	GD20	fetal	4-----1.0
509	16589	F	4	GD21	16589F4D	15.65	T3	GD20	fetal	4-----1.0
510	16596	F	5	GD21	16596F5D	16.36	T3	GD20	fetal	5----30.0
511	16611	F	5	GD21	16611F5D	14.77	T3	GD20	fetal	5----30.0
512	16524	F	2	GD21	16524F2D	6.97	TSH	GD20	fetal	2----0.01
513	16525	F	2	GD21	16525F2D	7.41	TSH	GD20	fetal	2----0.01
514	16526	F	2	GD21	16526F2D	6.20	TSH	GD20	fetal	2----0.01
515	16528	F	2	GD21	16528F2D	7.74	TSH	GD20	fetal	2----0.01
516	16529	F	2	GD21	16529F2D	7.90	TSH	GD20	fetal	2----0.01
517	16531	F	2	GD21	16531F2D	7.29	TSH	GD20	fetal	2----0.01
518	16532	F	2	GD21	16532F2D	6.44	TSH	GD20	fetal	2----0.01
519	16535	F	2	GD21	16535F2D	7.36	TSH	GD20	fetal	2----0.01
520	16536	F	2	GD21	16536F2D	7.63	TSH	GD20	fetal	2----0.01
521	16539	F	2	GD21	16539F2D	6.70	TSH	GD20	fetal	2----0.01
522	16540	F	2	GD21	16540F2D	7.82	TSH	GD20	fetal	2----0.01
523	16541	F	2	GD21	16541F2D	7.82	TSH	GD20	fetal	2----0.01
524	16542	F	2	GD21	16542F2D	7.34	TSH	GD20	fetal	2----0.01
525	16544	F	2	GD21	16544F2D	6.19	TSH	GD20	fetal	2----0.01
526	16545	F	2	GD21	16545F2D	7.32	TSH	GD20	fetal	2----0.01
527	16546	F	2	GD21	16546F2D	8.45	TSH	GD20	fetal	2----0.01
528	16524	F	2	GD21	16524F2D	1.52	T4	GD20	fetal	2----0.01

529	16525	F	2	GD21	16525F2D	1.65	T4	GD20	fetal	2----0.01
530	16526	F	2	GD21	16526F2D	1.69	T4	GD20	fetal	2----0.01
531	16528	F	2	GD21	16528F2D	1.56	T4	GD20	fetal	2----0.01
532	16529	F	2	GD21	16529F2D	1.49	T4	GD20	fetal	2----0.01
533	16531	F	2	GD21	16531F2D	1.31	T4	GD20	fetal	2----0.01
534	16532	F	2	GD21	16532F2D	1.45	T4	GD20	fetal	2----0.01
535	16535	F	2	GD21	16535F2D	1.46	T4	GD20	fetal	2----0.01
536	16536	F	2	GD21	16536F2D	1.56	T4	GD20	fetal	2----0.01
537	16539	F	2	GD21	16539F2D	1.31	T4	GD20	fetal	2----0.01
538	16540	F	2	GD21	16540F2D	.	T4	GD20	fetal	2----0.01
539	16541	F	2	GD21	16541F2D	1.28	T4	GD20	fetal	2----0.01
540	16542	F	2	GD21	16542F2D	1.77	T4	GD20	fetal	2----0.01
541	16544	F	2	GD21	16544F2D	.	T4	GD20	fetal	2----0.01
542	16545	F	2	GD21	16545F2D	1.43	T4	GD20	fetal	2----0.01
543	16546	F	2	GD21	16546F2D	1.47	T4	GD20	fetal	2----0.01
544	16593	F	5	GD21	16593F5D	9.26	TSH	GD20	fetal	5----30.0
545	16594	F	5	GD21	16594F5D	10.44	TSH	GD20	fetal	5----30.0
546	16596	F	5	GD21	16596F5D	10.12	TSH	GD20	fetal	5----30.0
547	16597	F	5	GD21	16597F5D	12.80	TSH	GD20	fetal	5----30.0
548	16598	F	5	GD21	16598F5D	10.41	TSH	GD20	fetal	5----30.0
549	16600	F	5	GD21	16600F5D	10.18	TSH	GD20	fetal	5----30.0
550	16601	F	5	GD21	16601F5D	13.14	TSH	GD20	fetal	5----30.0
551	16602	F	5	GD21	16602F5D	10.86	TSH	GD20	fetal	5----30.0
552	16605	F	5	GD21	16605F5D	9.86	TSH	GD20	fetal	5----30.0
553	16606	F	5	GD21	16606F5D	9.83	TSH	GD20	fetal	5----30.0
554	16608	F	5	GD21	16608F5D	11.08	TSH	GD20	fetal	5----30.0
555	16609	F	5	GD21	16609F5D	10.51	TSH	GD20	fetal	5----30.0
556	16610	F	5	GD21	16610F5D	12.20	TSH	GD20	fetal	5----30.0
557	16611	F	5	GD21	16611F5D	11.03	TSH	GD20	fetal	5----30.0
558	16613	F	5	GD21	16613F5D	10.04	TSH	GD20	fetal	5----30.0
559	16614	F	5	GD21	16614F5D	10.69	TSH	GD20	fetal	5----30.0
560	16593	F	5	GD21	16593F5D	1.17	T4	GD20	fetal	5----30.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
561	16594	F	5	GD21	16594F5D	1.38	T4	GD20	fetal	5----30.0
562	16596	F	5	GD21	16596F5D	1.49	T4	GD20	fetal	5----30.0
563	16597	F	5	GD21	16597F5D	1.20	T4	GD20	fetal	5----30.0
564	16598	F	5	GD21	16598F5D	1.23	T4	GD20	fetal	5----30.0
565	16600	F	5	GD21	16600F5D	1.57	T4	GD20	fetal	5----30.0
566	16601	F	5	GD21	16601F5D	1.48	T4	GD20	fetal	5----30.0
567	16602	F	5	GD21	16602F5D	1.38	T4	GD20	fetal	5----30.0
568	16605	F	5	GD21	16605F5D	1.44	T4	GD20	fetal	5----30.0
569	16606	F	5	GD21	16606F5D	.	T4	GD20	fetal	5----30.0
570	16608	F	5	GD21	16608F5D	1.47	T4	GD20	fetal	5----30.0
571	16609	F	5	GD21	16609F5D	1.48	T4	GD20	fetal	5----30.0
572	16610	F	5	GD21	16610F5D	1.37	T4	GD20	fetal	5----30.0
573	16611	F	5	GD21	16611F5D	1.23	T4	GD20	fetal	5----30.0
574	16613	F	5	GD21	16613F5D	.	T4	GD20	fetal	5----30.0
575	16614	F	5	GD21	16614F5D	.	T4	GD20	fetal	5----30.0
576	16547	F	3	GD21	16547F3D	8.94	TSH	GD20	fetal	3-----0.1
577	16548	F	3	GD21	16548F3D	8.12	TSH	GD20	fetal	3-----0.1
578	16550	F	3	GD21	16550F3D	7.42	TSH	GD20	fetal	3-----0.1
579	16552	F	3	GD21	16552F3D	8.16	TSH	GD20	fetal	3-----0.1
580	16553	F	3	GD21	16553F3D	7.13	TSH	GD20	fetal	3-----0.1
581	16554	F	3	GD21	16554F3D	7.10	TSH	GD20	fetal	3-----0.1

582	16555	F	3	GD21	16555F3D	7.35	TSH	GD20	fetal	3-----0.1
583	16557	F	3	GD21	16557F3D	7.60	TSH	GD20	fetal	3-----0.1
584	16559	F	3	GD21	16559F3D	9.77	TSH	GD20	fetal	3-----0.1
585	16560	F	3	GD21	16560F3D	8.70	TSH	GD20	fetal	3-----0.1
586	16561	F	3	GD21	16561F3D	7.87	TSH	GD20	fetal	3-----0.1
587	16562	F	3	GD21	16562F3D	6.55	TSH	GD20	fetal	3-----0.1
588	16563	F	3	GD21	16563F3D	7.73	TSH	GD20	fetal	3-----0.1
589	16566	F	3	GD21	16566F3D	7.20	TSH	GD20	fetal	3-----0.1
590	16567	F	3	GD21	16567F3D	7.42	TSH	GD20	fetal	3-----0.1
591	16570	F	4	GD21	16570F4D	7.70	TSH	GD20	fetal	4-----1.0
592	16571	F	4	GD21	16571F4D	9.34	TSH	GD20	fetal	4-----1.0
593	16574	F	4	GD21	16574F4D	9.65	TSH	GD20	fetal	4-----1.0
594	16575	F	4	GD21	16575F4D	7.85	TSH	GD20	fetal	4-----1.0
595	16576	F	4	GD21	16576F4D	7.42	TSH	GD20	fetal	4-----1.0
596	16577	F	4	GD21	16577F4D	7.88	TSH	GD20	fetal	4-----1.0
597	16578	F	4	GD21	16578F4D	8.42	TSH	GD20	fetal	4-----1.0
598	16579	F	4	GD21	16579F4D	8.55	TSH	GD20	fetal	4-----1.0
599	16580	F	4	GD21	16580F4D	8.23	TSH	GD20	fetal	4-----1.0
600	16581	F	4	GD21	16581F4D	7.93	TSH	GD20	fetal	4-----1.0
601	16582	F	4	GD21	16582F4D	7.52	TSH	GD20	fetal	4-----1.0
602	16583	F	4	GD21	16583F4D	7.87	TSH	GD20	fetal	4-----1.0
603	16584	F	4	GD21	16584F4D	7.23	TSH	GD20	fetal	4-----1.0
604	16587	F	4	GD21	16587F4D	8.30	TSH	GD20	fetal	4-----1.0
605	16589	F	4	GD21	16589F4D	9.02	TSH	GD20	fetal	4-----1.0
606	16592	F	5	GD21	16592F5D	9.26	TSH	GD20	fetal	5----30.0
607	16547	F	3	GD21	16547F3D	1.29	T4	GD20	fetal	3-----0.1
608	16548	F	3	GD21	16548F3D	1.63	T4	GD20	fetal	3-----0.1
609	16550	F	3	GD21	16550F3D	1.68	T4	GD20	fetal	3-----0.1
610	16552	F	3	GD21	16552F3D	1.50	T4	GD20	fetal	3-----0.1
611	16553	F	3	GD21	16553F3D	1.54	T4	GD20	fetal	3-----0.1
612	16554	F	3	GD21	16554F3D	1.46	T4	GD20	fetal	3-----0.1
613	16555	F	3	GD21	16555F3D	1.71	T4	GD20	fetal	3-----0.1
614	16557	F	3	GD21	16557F3D	.	T4	GD20	fetal	3-----0.1
615	16559	F	3	GD21	16559F3D	1.59	T4	GD20	fetal	3-----0.1
616	16560	F	3	GD21	16560F3D	1.27	T4	GD20	fetal	3-----0.1

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
617	16561	F	3	GD21	16561F3D	1.54	T4	GD20	fetal	3-----0.1
618	16562	F	3	GD21	16562F3D	1.35	T4	GD20	fetal	3-----0.1
619	16563	F	3	GD21	16563F3D	1.17	T4	GD20	fetal	3-----0.1
620	16566	F	3	GD21	16566F3D	1.43	T4	GD20	fetal	3-----0.1
621	16567	F	3	GD21	16567F3D	1.47	T4	GD20	fetal	3-----0.1
622	16570	F	4	GD21	16570F4D	1.58	T4	GD20	fetal	4-----1.0
623	16571	F	4	GD21	16571F4D	1.52	T4	GD20	fetal	4-----1.0
624	16574	F	4	GD21	16574F4D	.	T4	GD20	fetal	4-----1.0
625	16575	F	4	GD21	16575F4D	1.65	T4	GD20	fetal	4-----1.0
626	16576	F	4	GD21	16576F4D	1.52	T4	GD20	fetal	4-----1.0
627	16577	F	4	GD21	16577F4D	1.51	T4	GD20	fetal	4-----1.0
628	16578	F	4	GD21	16578F4D	1.49	T4	GD20	fetal	4-----1.0
629	16579	F	4	GD21	16579F4D	1.45	T4	GD20	fetal	4-----1.0
630	16580	F	4	GD21	16580F4D	1.35	T4	GD20	fetal	4-----1.0
631	16581	F	4	GD21	16581F4D	.	T4	GD20	fetal	4-----1.0
632	16582	F	4	GD21	16582F4D	1.49	T4	GD20	fetal	4-----1.0
633	16583	F	4	GD21	16583F4D	1.15	T4	GD20	fetal	4-----1.0
634	16584	F	4	GD21	16584F4D	1.44	T4	GD20	fetal	4-----1.0

635	16587	F	4	GD21	16587F4D	1.52	T4	GD20	fetal	4-----1.0
636	16589	F	4	GD21	16589F4D	1.29	T4	GD20	fetal	4-----1.0
637	16592	F	5	GD21	16592F5D	.	T4	GD20	fetal	5----30.0
638	16731	M	1	PND22	16731M1P	3.48	TSH	PND22	pup	1-CONTROL
639	16732	M	1	PND22	16732M1P	3.65	TSH	PND22	pup	1-CONTROL
640	16734	M	1	PND22	16734M1P	4.00	TSH	PND22	pup	1-CONTROL
641	16735	M	1	PND22	16735M1P	4.13	TSH	PND22	pup	1-CONTROL
642	16736	M	1	PND22	16736M1P	4.02	TSH	PND22	pup	1-CONTROL
643	16737	M	1	PND22	16737M1P	3.50	TSH	PND22	pup	1-CONTROL
644	16738	M	1	PND22	16738M1P	3.28	TSH	PND22	pup	1-CONTROL
645	16740	M	1	PND22	16740M1P	3.49	TSH	PND22	pup	1-CONTROL
646	16741	M	1	PND22	16741M1P	4.15	TSH	PND22	pup	1-CONTROL
647	16742	M	1	PND22	16742M1P	3.20	TSH	PND22	pup	1-CONTROL
648	16745	M	1	PND22	16745M1P	3.92	TSH	PND22	pup	1-CONTROL
649	16746	M	1	PND22	16746M1P	3.09	TSH	PND22	pup	1-CONTROL
650	16747	M	1	PND22	16747M1P	3.19	TSH	PND22	pup	1-CONTROL
651	16749	M	1	PND22	16749M1P	3.28	TSH	PND22	pup	1-CONTROL
652	16750	M	1	PND22	16750M1P	4.14	TSH	PND22	pup	1-CONTROL
653	16753	M	2	PND22	16753M2P	3.64	TSH	PND22	pup	2----0.01
654	16755	M	2	PND22	16755M2P	3.86	TSH	PND22	pup	2----0.01
655	16758	M	2	PND22	16758M2P	4.35	TSH	PND22	pup	2----0.01
656	16760	M	2	PND22	16760M2P	4.03	TSH	PND22	pup	2----0.01
657	16761	M	2	PND22	16761M2P	4.09	TSH	PND22	pup	2----0.01
658	16762	M	2	PND22	16762M2P	3.77	TSH	PND22	pup	2----0.01
659	16763	M	2	PND22	16763M2P	3.51	TSH	PND22	pup	2----0.01
660	16764	M	2	PND22	16764M2P	4.04	TSH	PND22	pup	2----0.01
661	16765	M	2	PND22	16765M2P	4.81	TSH	PND22	pup	2----0.01
662	16767	M	2	PND22	16767M2P	4.76	TSH	PND22	pup	2----0.01
663	16768	M	2	PND22	16768M2P	4.27	TSH	PND22	pup	2----0.01
664	16769	M	2	PND22	16769M2P	4.17	TSH	PND22	pup	2----0.01
665	16770	M	2	PND22	16770M2P	3.74	TSH	PND22	pup	2----0.01
666	16771	M	2	PND22	16771M2P	4.84	TSH	PND22	pup	2----0.01
667	16773	M	2	PND22	16773M2P	4.72	TSH	PND22	pup	2----0.01
668	16774	M	2	PND22	16774M2P	4.00	TSH	PND22	pup	2----0.01
669	16776	M	1	PND22	16776M1P	4.34	TSH	PND22	pup	1-CONTROL
670	16781	M	3	PND22	16781M3P	5.21	TSH	PND22	pup	3-----0.1
671	16782	M	3	PND22	16782M3P	5.08	TSH	PND22	pup	3-----0.1
672	16783	M	3	PND22	16783M3P	4.95	TSH	PND22	pup	3-----0.1

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
673	16784	M	3	PND22	16784M3P	5.36	TSH	PND22	pup	3-----0.1
674	16786	M	3	PND22	16786M3P	3.89	TSH	PND22	pup	3-----0.1
675	16787	M	3	PND22	16787M3P	4.72	TSH	PND22	pup	3-----0.1
676	16791	M	3	PND22	16791M3P	4.79	TSH	PND22	pup	3-----0.1
677	16792	M	3	PND22	16792M3P	4.71	TSH	PND22	pup	3-----0.1
678	16793	M	3	PND22	16793M3P	5.04	TSH	PND22	pup	3-----0.1
679	16794	M	3	PND22	16794M3P	4.89	TSH	PND22	pup	3-----0.1
680	16795	M	3	PND22	16795M3P	3.98	TSH	PND22	pup	3-----0.1
681	16796	M	3	PND22	16796M3P	5.03	TSH	PND22	pup	3-----0.1
682	16797	M	3	PND22	16797M3P	5.74	TSH	PND22	pup	3-----0.1
683	16798	M	3	PND22	16798M3P	4.79	TSH	PND22	pup	3-----0.1
684	16799	M	3	PND22	16799M3P	5.92	TSH	PND22	pup	3-----0.1
685	16800	M	4	PND22	16800M4P	5.56	TSH	PND22	pup	4-----1.0
686	16801	M	4	PND22	16801M4P	4.21	TSH	PND22	pup	4-----1.0
687	16802	M	4	PND22	16802M4P	5.76	TSH	PND22	pup	4-----1.0

688	16803	M	4	PND22	16803M4P	5.61	TSH	PND22	pup	4-----1.0
689	16805	M	4	PND22	16805M4P	5.11	TSH	PND22	pup	4-----1.0
690	16806	M	4	PND22	16806M4P	4.47	TSH	PND22	pup	4-----1.0
691	16807	M	4	PND22	16807M4P	4.88	TSH	PND22	pup	4-----1.0
692	16808	M	4	PND22	16808M4P	4.10	TSH	PND22	pup	4-----1.0
693	16810	M	4	PND22	16810M4P	4.59	TSH	PND22	pup	4-----1.0
694	16811	M	4	PND22	16811M4P	5.26	TSH	PND22	pup	4-----1.0
695	16814	M	4	PND22	16814M4P	4.24	TSH	PND22	pup	4-----1.0
696	16815	M	4	PND22	16815M4P	4.51	TSH	PND22	pup	4-----1.0
697	16817	M	4	PND22	16817M4P	5.96	TSH	PND22	pup	4-----1.0
698	16818	M	4	PND22	16818M4P	5.21	TSH	PND22	pup	4-----1.0
699	16820	M	4	PND22	16820M4P	4.78	TSH	PND22	pup	4-----1.0
700	16822	M	4	PND22	16822M4P	5.04	TSH	PND22	pup	4-----1.0
701	16823	M	5	PND22	16823M5P	5.58	TSH	PND22	pup	5----30.0
702	16825	M	5	PND22	16825M5P	5.82	TSH	PND22	pup	5----30.0
703	16826	M	5	PND22	16826M5P	4.61	TSH	PND22	pup	5----30.0
704	16827	M	5	PND22	16827M5P	5.45	TSH	PND22	pup	5----30.0
705	16828	M	5	PND22	16828M5P	4.40	TSH	PND22	pup	5----30.0
706	16830	M	5	PND22	16830M5P	4.40	TSH	PND22	pup	5----30.0
707	16831	M	5	PND22	16831M5P	5.75	TSH	PND22	pup	5----30.0
708	16833	M	5	PND22	16833M5P	5.22	TSH	PND22	pup	5----30.0
709	16834	M	5	PND22	16834M5P	6.11	TSH	PND22	pup	5----30.0
710	16836	M	5	PND22	16836M5P	5.43	TSH	PND22	pup	5----30.0
711	16837	M	5	PND22	16837M5P	5.56	TSH	PND22	pup	5----30.0
712	16839	M	5	PND22	16839M5P	5.44	TSH	PND22	pup	5----30.0
713	16840	M	5	PND22	16840M5P	5.56	TSH	PND22	pup	5----30.0
714	16842	M	5	PND22	16842M5P	5.33	TSH	PND22	pup	5----30.0
715	16843	M	5	PND22	16843M5P	5.53	TSH	PND22	pup	5----30.0
716	16844	M	5	PND22	16844M5P	4.57	TSH	PND22	pup	5----30.0
717	16731	M	1	PND22	16731M1P	4.28	T4	PND22	pup	1-CONTROL
718	16732	M	1	PND22	16732M1P	4.64	T4	PND22	pup	1-CONTROL
719	16734	M	1	PND22	16734M1P	3.68	T4	PND22	pup	1-CONTROL
720	16735	M	1	PND22	16735M1P	3.65	T4	PND22	pup	1-CONTROL
721	16736	M	1	PND22	16736M1P	4.02	T4	PND22	pup	1-CONTROL
722	16737	M	1	PND22	16737M1P	3.74	T4	PND22	pup	1-CONTROL
723	16738	M	1	PND22	16738M1P	4.50	T4	PND22	pup	1-CONTROL
724	16740	M	1	PND22	16740M1P	3.88	T4	PND22	pup	1-CONTROL
725	16741	M	1	PND22	16741M1P	4.39	T4	PND22	pup	1-CONTROL
726	16742	M	1	PND22	16742M1P	4.34	T4	PND22	pup	1-CONTROL
727	16745	M	1	PND22	16745M1P	4.39	T4	PND22	pup	1-CONTROL
728	16746	M	1	PND22	16746M1P	4.03	T4	PND22	pup	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
729	16747	M	1	PND22	16747M1P	3.13	T4	PND22	pup	1-CONTROL
730	16749	M	1	PND22	16749M1P	3.20	T4	PND22	pup	1-CONTROL
731	16750	M	1	PND22	16750M1P	3.73	T4	PND22	pup	1-CONTROL
732	16753	M	2	PND22	16753M2P	3.04	T4	PND22	pup	2----0.01
733	16755	M	2	PND22	16755M2P	3.77	T4	PND22	pup	2----0.01
734	16758	M	2	PND22	16758M2P	3.83	T4	PND22	pup	2----0.01
735	16760	M	2	PND22	16760M2P	3.44	T4	PND22	pup	2----0.01
736	16761	M	2	PND22	16761M2P	3.04	T4	PND22	pup	2----0.01
737	16762	M	2	PND22	16762M2P	3.14	T4	PND22	pup	2----0.01
738	16763	M	2	PND22	16763M2P	2.81	T4	PND22	pup	2----0.01
739	16764	M	2	PND22	16764M2P	3.06	T4	PND22	pup	2----0.01
740	16765	M	2	PND22	16765M2P	3.93	T4	PND22	pup	2----0.01

741	16767	M	2	PND22	16767M2P	3.82	T4	PND22	pup	2----0.01
742	16768	M	2	PND22	16768M2P	3.23	T4	PND22	pup	2----0.01
743	16769	M	2	PND22	16769M2P	3.02	T4	PND22	pup	2----0.01
744	16770	M	2	PND22	16770M2P	3.70	T4	PND22	pup	2----0.01
745	16771	M	2	PND22	16771M2P	3.33	T4	PND22	pup	2----0.01
746	16773	M	2	PND22	16773M2P	2.92	T4	PND22	pup	2----0.01
747	16774	M	2	PND22	16774M2P	2.99	T4	PND22	pup	2----0.01
748	16776	M	1	PND22	16776M1P	3.79	T4	PND22	pup	1-CONTROL
749	16781	M	3	PND22	16781M3P	2.96	T4	PND22	pup	3-----0.1
750	16782	M	3	PND22	16782M3P	3.03	T4	PND22	pup	3-----0.1
751	16783	M	3	PND22	16783M3P	2.59	T4	PND22	pup	3-----0.1
752	16784	M	3	PND22	16784M3P	3.42	T4	PND22	pup	3-----0.1
753	16786	M	3	PND22	16786M3P	3.29	T4	PND22	pup	3-----0.1
754	16787	M	3	PND22	16787M3P	3.58	T4	PND22	pup	3-----0.1
755	16791	M	3	PND22	16791M3P	3.01	T4	PND22	pup	3-----0.1
756	16792	M	3	PND22	16792M3P	3.49	T4	PND22	pup	3-----0.1
757	16793	M	3	PND22	16793M3P	3.04	T4	PND22	pup	3-----0.1
758	16794	M	3	PND22	16794M3P	3.37	T4	PND22	pup	3-----0.1
759	16795	M	3	PND22	16795M3P	4.15	T4	PND22	pup	3-----0.1
760	16796	M	3	PND22	16796M3P	3.48	T4	PND22	pup	3-----0.1
761	16797	M	3	PND22	16797M3P	3.47	T4	PND22	pup	3-----0.1
762	16798	M	3	PND22	16798M3P	3.25	T4	PND22	pup	3-----0.1
763	16799	M	3	PND22	16799M3P	3.54	T4	PND22	pup	3-----0.1
764	16800	M	4	PND22	16800M4P	2.98	T4	PND22	pup	4-----1.0
765	16801	M	4	PND22	16801M4P	3.68	T4	PND22	pup	4-----1.0
766	16802	M	4	PND22	16802M4P	3.21	T4	PND22	pup	4-----1.0
767	16803	M	4	PND22	16803M4P	3.37	T4	PND22	pup	4-----1.0
768	16805	M	4	PND22	16805M4P	3.49	T4	PND22	pup	4-----1.0
769	16806	M	4	PND22	16806M4P	3.87	T4	PND22	pup	4-----1.0
770	16807	M	4	PND22	16807M4P	3.89	T4	PND22	pup	4-----1.0
771	16808	M	4	PND22	16808M4P	3.08	T4	PND22	pup	4-----1.0
772	16810	M	4	PND22	16810M4P	3.33	T4	PND22	pup	4-----1.0
773	16811	M	4	PND22	16811M4P	3.15	T4	PND22	pup	4-----1.0
774	16814	M	4	PND22	16814M4P	2.81	T4	PND22	pup	4-----1.0
775	16815	M	4	PND22	16815M4P	3.49	T4	PND22	pup	4-----1.0
776	16817	M	4	PND22	16817M4P	2.83	T4	PND22	pup	4-----1.0
777	16818	M	4	PND22	16818M4P	3.19	T4	PND22	pup	4-----1.0
778	16820	M	4	PND22	16820M4P	2.90	T4	PND22	pup	4-----1.0
779	16822	M	4	PND22	16822M4P	3.15	T4	PND22	pup	4-----1.0
780	16823	M	5	PND22	16823M5P	3.10	T4	PND22	pup	5----30.0
781	16825	M	5	PND22	16825M5P	3.05	T4	PND22	pup	5----30.0
782	16826	M	5	PND22	16826M5P	3.02	T4	PND22	pup	5----30.0
783	16827	M	5	PND22	16827M5P	3.56	T4	PND22	pup	5----30.0
784	16828	M	5	PND22	16828M5P	2.97	T4	PND22	pup	5----30.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
785	16830	M	5	PND22	16830M5P	3.51	T4	PND22	pup	5----30.0
786	16831	M	5	PND22	16831M5P	2.88	T4	PND22	pup	5----30.0
787	16833	M	5	PND22	16833M5P	2.96	T4	PND22	pup	5----30.0
788	16834	M	5	PND22	16834M5P	3.25	T4	PND22	pup	5----30.0
789	16836	M	5	PND22	16836M5P	3.95	T4	PND22	pup	5----30.0
790	16837	M	5	PND22	16837M5P	3.21	T4	PND22	pup	5----30.0
791	16839	M	5	PND22	16839M5P	3.25	T4	PND22	pup	5----30.0
792	16840	M	5	PND22	16840M5P	3.40	T4	PND22	pup	5----30.0
793	16842	M	5	PND22	16842M5P	3.37	T4	PND22	pup	5----30.0

794	16843	M	5	PND22	16843M5P	2.99	T4	PND22	pup	5----30.0
795	16844	M	5	PND22	16844M5P	3.17	T4	PND22	pup	5----30.0
796	16731	M	1	PND22	16731M1P	194.27	T3	PND22	pup	1-CONTROL
797	16732	M	1	PND22	16732M1P	212.72	T3	PND22	pup	1-CONTROL
798	16734	M	1	PND22	16734M1P	150.66	T3	PND22	pup	1-CONTROL
799	16735	M	1	PND22	16735M1P	182.17	T3	PND22	pup	1-CONTROL
800	16736	M	1	PND22	16736M1P	191.86	T3	PND22	pup	1-CONTROL
801	16737	M	1	PND22	16737M1P	198.18	T3	PND22	pup	1-CONTROL
802	16738	M	1	PND22	16738M1P	171.59	T3	PND22	pup	1-CONTROL
803	16740	M	1	PND22	16740M1P	186.49	T3	PND22	pup	1-CONTROL
804	16741	M	1	PND22	16741M1P	208.21	T3	PND22	pup	1-CONTROL
805	16742	M	1	PND22	16742M1P	178.98	T3	PND22	pup	1-CONTROL
806	16745	M	1	PND22	16745M1P	233.03	T3	PND22	pup	1-CONTROL
807	16746	M	1	PND22	16746M1P	208.57	T3	PND22	pup	1-CONTROL
808	16747	M	1	PND22	16747M1P	195.29	T3	PND22	pup	1-CONTROL
809	16749	M	1	PND22	16749M1P	174.87	T3	PND22	pup	1-CONTROL
810	16750	M	1	PND22	16750M1P	178.49	T3	PND22	pup	1-CONTROL
811	16753	M	2	PND22	16753M2P	183.92	T3	PND22	pup	2----0.01
812	16755	M	2	PND22	16755M2P	163.98	T3	PND22	pup	2----0.01
813	16758	M	2	PND22	16758M2P	167.79	T3	PND22	pup	2----0.01
814	16760	M	2	PND22	16760M2P	165.96	T3	PND22	pup	2----0.01
815	16761	M	2	PND22	16761M2P	194.17	T3	PND22	pup	2----0.01
816	16762	M	2	PND22	16762M2P	216.03	T3	PND22	pup	2----0.01
817	16763	M	2	PND22	16763M2P	212.61	T3	PND22	pup	2----0.01
818	16764	M	2	PND22	16764M2P	211.98	T3	PND22	pup	2----0.01
819	16765	M	2	PND22	16765M2P	172.97	T3	PND22	pup	2----0.01
820	16767	M	2	PND22	16767M2P	216.03	T3	PND22	pup	2----0.01
821	16768	M	2	PND22	16768M2P	198.14	T3	PND22	pup	2----0.01
822	16769	M	2	PND22	16769M2P	166.74	T3	PND22	pup	2----0.01
823	16770	M	2	PND22	16770M2P	194.27	T3	PND22	pup	2----0.01
824	16771	M	2	PND22	16771M2P	176.96	T3	PND22	pup	2----0.01
825	16773	M	2	PND22	16773M2P	165.50	T3	PND22	pup	2----0.01
826	16774	M	2	PND22	16774M2P	157.03	T3	PND22	pup	2----0.01
827	16776	M	1	PND22	16776M1P	186.86	T3	PND22	pup	1-CONTROL
828	16781	M	3	PND22	16781M3P	196.20	T3	PND22	pup	3-----0.1
829	16782	M	3	PND22	16782M3P	194.37	T3	PND22	pup	3-----0.1
830	16783	M	3	PND22	16783M3P	212.29	T3	PND22	pup	3-----0.1
831	16784	M	3	PND22	16784M3P	157.57	T3	PND22	pup	3-----0.1
832	16786	M	3	PND22	16786M3P	165.79	T3	PND22	pup	3-----0.1
833	16787	M	3	PND22	16787M3P	188.60	T3	PND22	pup	3-----0.1
834	16791	M	3	PND22	16791M3P	192.02	T3	PND22	pup	3-----0.1
835	16792	M	3	PND22	16792M3P	161.07	T3	PND22	pup	3-----0.1
836	16793	M	3	PND22	16793M3P	196.80	T3	PND22	pup	3-----0.1
837	16794	M	3	PND22	16794M3P	145.86	T3	PND22	pup	3-----0.1
838	16795	M	3	PND22	16795M3P	211.45	T3	PND22	pup	3-----0.1
839	16796	M	3	PND22	16796M3P	190.43	T3	PND22	pup	3-----0.1
840	16797	M	3	PND22	16797M3P	187.14	T3	PND22	pup	3-----0.1

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
841	16798	M	3	PND22	16798M3P	195.24	T3	PND22	pup	3-----0.1
842	16799	M	3	PND22	16799M3P	168.63	T3	PND22	pup	3-----0.1
843	16800	M	4	PND22	16800M4P	171.68	T3	PND22	pup	4-----1.0
844	16801	M	4	PND22	16801M4P	219.81	T3	PND22	pup	4-----1.0
845	16802	M	4	PND22	16802M4P	187.79	T3	PND22	pup	4-----1.0
846	16803	M	4	PND22	16803M4P	170.23	T3	PND22	pup	4-----1.0

847	16805	M	4	PND22	16805M4P	191.39	T3	PND22	pup	4-----1.0
848	16806	M	4	PND22	16806M4P	143.55	T3	PND22	pup	4-----1.0
849	16807	M	4	PND22	16807M4P	145.68	T3	PND22	pup	4-----1.0
850	16808	M	4	PND22	16808M4P	172.11	T3	PND22	pup	4-----1.0
851	16810	M	4	PND22	16810M4P	195.29	T3	PND22	pup	4-----1.0
852	16811	M	4	PND22	16811M4P	172.11	T3	PND22	pup	4-----1.0
853	16814	M	4	PND22	16814M4P	175.62	T3	PND22	pup	4-----1.0
854	16815	M	4	PND22	16815M4P	155.88	T3	PND22	pup	4-----1.0
855	16817	M	4	PND22	16817M4P	170.67	T3	PND22	pup	4-----1.0
856	16818	M	4	PND22	16818M4P	149.99	T3	PND22	pup	4-----1.0
857	16820	M	4	PND22	16820M4P	180.27	T3	PND22	pup	4-----1.0
858	16822	M	4	PND22	16822M4P	166.79	T3	PND22	pup	4-----1.0
859	16823	M	5	PND22	16823M5P	152.93	T3	PND22	pup	5----30.0
860	16825	M	5	PND22	16825M5P	178.93	T3	PND22	pup	5----30.0
861	16826	M	5	PND22	16826M5P	142.87	T3	PND22	pup	5----30.0
862	16827	M	5	PND22	16827M5P	166.45	T3	PND22	pup	5----30.0
863	16828	M	5	PND22	16828M5P	150.66	T3	PND22	pup	5----30.0
864	16830	M	5	PND22	16830M5P	174.35	T3	PND22	pup	5----30.0
865	16831	M	5	PND22	16831M5P	182.08	T3	PND22	pup	5----30.0
866	16833	M	5	PND22	16833M5P	172.62	T3	PND22	pup	5----30.0
867	16834	M	5	PND22	16834M5P	190.81	T3	PND22	pup	5----30.0
868	16836	M	5	PND22	16836M5P	167.60	T3	PND22	pup	5----30.0
869	16837	M	5	PND22	16837M5P	203.79	T3	PND22	pup	5----30.0
870	16839	M	5	PND22	16839M5P	136.04	T3	PND22	pup	5----30.0
871	16840	M	5	PND22	16840M5P	168.86	T3	PND22	pup	5----30.0
872	16842	M	5	PND22	16842M5P	160.19	T3	PND22	pup	5----30.0
873	16843	M	5	PND22	16843M5P	172.88	T3	PND22	pup	5----30.0
874	16844	M	5	PND22	16844M5P	168.54	T3	PND22	pup	5----30.0
875	16731	F	1	PND22	16731F1P	5.56	TSH	PND22	pup	1-CONTROL
876	16732	F	1	PND22	16732F1P	4.32	TSH	PND22	pup	1-CONTROL
877	16734	F	1	PND22	16734F1P	4.72	TSH	PND22	pup	1-CONTROL
878	16735	F	1	PND22	16735F1P	5.70	TSH	PND22	pup	1-CONTROL
879	16736	F	1	PND22	16736F1P	5.87	TSH	PND22	pup	1-CONTROL
880	16737	F	1	PND22	16737F1P	4.93	TSH	PND22	pup	1-CONTROL
881	16738	F	1	PND22	16738F1P	5.25	TSH	PND22	pup	1-CONTROL
882	16740	F	1	PND22	16740F1P	5.14	TSH	PND22	pup	1-CONTROL
883	16741	F	1	PND22	16741F1P	4.79	TSH	PND22	pup	1-CONTROL
884	16742	F	1	PND22	16742F1P	5.69	TSH	PND22	pup	1-CONTROL
885	16745	F	1	PND22	16745F1P	4.81	TSH	PND22	pup	1-CONTROL
886	16746	F	1	PND22	16746F1P	5.71	TSH	PND22	pup	1-CONTROL
887	16747	F	1	PND22	16747F1P	5.60	TSH	PND22	pup	1-CONTROL
888	16749	F	1	PND22	16749F1P	5.70	TSH	PND22	pup	1-CONTROL
889	16750	F	1	PND22	16750F1P	5.09	TSH	PND22	pup	1-CONTROL
890	16753	F	2	PND22	16753F2P	5.44	TSH	PND22	pup	2----0.01
891	16755	F	2	PND22	16755F2P	5.20	TSH	PND22	pup	2----0.01
892	16758	F	2	PND22	16758F2P	4.74	TSH	PND22	pup	2----0.01
893	16760	F	2	PND22	16760F2P	4.65	TSH	PND22	pup	2----0.01
894	16761	F	2	PND22	16761F2P	5.15	TSH	PND22	pup	2----0.01
895	16762	F	2	PND22	16762F2P	5.92	TSH	PND22	pup	2----0.01
896	16763	F	2	PND22	16763F2P	5.32	TSH	PND22	pup	2----0.01

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
897	16764	F	2	PND22	16764F2P	5.14	TSH	PND22	pup	2----0.01
898	16765	F	2	PND22	16765F2P	5.78	TSH	PND22	pup	2----0.01
899	16767	F	2	PND22	16767F2P	6.11	TSH	PND22	pup	2----0.01

900	16768	F	2	PND22	16768F2P	5.05	TSH	PND22	pup	2----0.01
901	16769	F	2	PND22	16769F2P	6.11	TSH	PND22	pup	2----0.01
902	16770	F	2	PND22	16770F2P	6.56	TSH	PND22	pup	2----0.01
903	16771	F	2	PND22	16771F2P	4.84	TSH	PND22	pup	2----0.01
904	16773	F	2	PND22	16773F2P	5.51	TSH	PND22	pup	2----0.01
905	16774	F	2	PND22	16774F2P	5.51	TSH	PND22	pup	2----0.01
906	16776	F	1	PND22	16776F1P	4.93	TSH	PND22	pup	1-CONTROL
907	16781	F	3	PND22	16781F3P	6.75	TSH	PND22	pup	3-----0.1
908	16782	F	3	PND22	16782F3P	6.18	TSH	PND22	pup	3-----0.1
909	16783	F	3	PND22	16783F3P	5.31	TSH	PND22	pup	3-----0.1
910	16784	F	3	PND22	16784F3P	5.13	TSH	PND22	pup	3-----0.1
911	16786	F	3	PND22	16786F3P	5.86	TSH	PND22	pup	3-----0.1
912	16787	F	3	PND22	16787F3P	6.86	TSH	PND22	pup	3-----0.1
913	16791	F	3	PND22	16791F3P	5.98	TSH	PND22	pup	3-----0.1
914	16792	F	3	PND22	16792F3P	7.23	TSH	PND22	pup	3-----0.1
915	16793	F	3	PND22	16793F3P	6.31	TSH	PND22	pup	3-----0.1
916	16794	F	3	PND22	16794F3P	5.73	TSH	PND22	pup	3-----0.1
917	16795	F	3	PND22	16795F3P	6.45	TSH	PND22	pup	3-----0.1
918	16796	F	3	PND22	16796F3P	6.44	TSH	PND22	pup	3-----0.1
919	16797	F	3	PND22	16797F3P	6.90	TSH	PND22	pup	3-----0.1
920	16798	F	3	PND22	16798F3P	5.72	TSH	PND22	pup	3-----0.1
921	16799	F	3	PND22	16799F3P	5.71	TSH	PND22	pup	3-----0.1
922	16800	F	4	PND22	16800F4P	6.03	TSH	PND22	pup	4-----1.0
923	16801	F	4	PND22	16801F4P	6.83	TSH	PND22	pup	4-----1.0
924	16802	F	4	PND22	16802F4P	6.12	TSH	PND22	pup	4-----1.0
925	16803	F	4	PND22	16803F4P	5.85	TSH	PND22	pup	4-----1.0
926	16805	F	4	PND22	16805F4P	6.15	TSH	PND22	pup	4-----1.0
927	16806	F	4	PND22	16806F4P	5.82	TSH	PND22	pup	4-----1.0
928	16807	F	4	PND22	16807F4P	5.85	TSH	PND22	pup	4-----1.0
929	16808	F	4	PND22	16808F4P	7.83	TSH	PND22	pup	4-----1.0
930	16810	F	4	PND22	16810F4P	6.23	TSH	PND22	pup	4-----1.0
931	16811	F	4	PND22	16811F4P	5.36	TSH	PND22	pup	4-----1.0
932	16814	F	4	PND22	16814F4P	5.67	TSH	PND22	pup	4-----1.0
933	16815	F	4	PND22	16815F4P	6.17	TSH	PND22	pup	4-----1.0
934	16817	F	4	PND22	16817F4P	5.85	TSH	PND22	pup	4-----1.0
935	16818	F	4	PND22	16818F4P	6.55	TSH	PND22	pup	4-----1.0
936	16820	F	4	PND22	16820F4P	7.57	TSH	PND22	pup	4-----1.0
937	16822	F	4	PND22	16822F4P	6.26	TSH	PND22	pup	4-----1.0
938	16823	F	5	PND22	16823F5P	6.63	TSH	PND22	pup	5----30.0
939	16825	F	5	PND22	16825F5P	7.47	TSH	PND22	pup	5----30.0
940	16826	F	5	PND22	16826F5P	6.50	TSH	PND22	pup	5----30.0
941	16827	F	5	PND22	16827F5P	6.92	TSH	PND22	pup	5----30.0
942	16828	F	5	PND22	16828F5P	6.97	TSH	PND22	pup	5----30.0
943	16830	F	5	PND22	16830F5P	8.25	TSH	PND22	pup	5----30.0
944	16831	F	5	PND22	16831F5P	6.28	TSH	PND22	pup	5----30.0
945	16833	F	5	PND22	16833F5P	7.86	TSH	PND22	pup	5----30.0
946	16834	F	5	PND22	16834F5P	6.95	TSH	PND22	pup	5----30.0
947	16836	F	5	PND22	16836F5P	7.77	TSH	PND22	pup	5----30.0
948	16837	F	5	PND22	16837F5P	7.27	TSH	PND22	pup	5----30.0
949	16839	F	5	PND22	16839F5P	7.16	TSH	PND22	pup	5----30.0
950	16840	F	5	PND22	16840F5P	7.51	TSH	PND22	pup	5----30.0
951	16842	F	5	PND22	16842F5P	8.25	TSH	PND22	pup	5----30.0
952	16843	F	5	PND22	16843F5P	7.70	TSH	PND22	pup	5----30.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT

953	16844	F	5	PND22	16844F5P	8.94	TSH	PND22	pup	5----30.0
954	16731	F	1	PND22	16731F1P	3.74	T4	PND22	pup	1-CONTROL
955	16732	F	1	PND22	16732F1P	3.56	T4	PND22	pup	1-CONTROL
956	16734	F	1	PND22	16734F1P	3.47	T4	PND22	pup	1-CONTROL
957	16735	F	1	PND22	16735F1P	3.31	T4	PND22	pup	1-CONTROL
958	16736	F	1	PND22	16736F1P	3.85	T4	PND22	pup	1-CONTROL
959	16737	F	1	PND22	16737F1P	3.51	T4	PND22	pup	1-CONTROL
960	16738	F	1	PND22	16738F1P	4.23	T4	PND22	pup	1-CONTROL
961	16740	F	1	PND22	16740F1P	3.50	T4	PND22	pup	1-CONTROL
962	16741	F	1	PND22	16741F1P	3.94	T4	PND22	pup	1-CONTROL
963	16742	F	1	PND22	16742F1P	3.97	T4	PND22	pup	1-CONTROL
964	16745	F	1	PND22	16745F1P	4.33	T4	PND22	pup	1-CONTROL
965	16746	F	1	PND22	16746F1P	3.39	T4	PND22	pup	1-CONTROL
966	16747	F	1	PND22	16747F1P	3.02	T4	PND22	pup	1-CONTROL
967	16749	F	1	PND22	16749F1P	3.01	T4	PND22	pup	1-CONTROL
968	16750	F	1	PND22	16750F1P	3.47	T4	PND22	pup	1-CONTROL
969	16753	F	2	PND22	16753F2P	3.17	T4	PND22	pup	2----0.01
970	16755	F	2	PND22	16755F2P	4.02	T4	PND22	pup	2----0.01
971	16758	F	2	PND22	16758F2P	4.15	T4	PND22	pup	2----0.01
972	16760	F	2	PND22	16760F2P	3.47	T4	PND22	pup	2----0.01
973	16761	F	2	PND22	16761F2P	4.18	T4	PND22	pup	2----0.01
974	16762	F	2	PND22	16762F2P	3.91	T4	PND22	pup	2----0.01
975	16763	F	2	PND22	16763F2P	3.36	T4	PND22	pup	2----0.01
976	16764	F	2	PND22	16764F2P	3.39	T4	PND22	pup	2----0.01
977	16765	F	2	PND22	16765F2P	3.09	T4	PND22	pup	2----0.01
978	16767	F	2	PND22	16767F2P	3.20	T4	PND22	pup	2----0.01
979	16768	F	2	PND22	16768F2P	3.66	T4	PND22	pup	2----0.01
980	16769	F	2	PND22	16769F2P	3.30	T4	PND22	pup	2----0.01
981	16770	F	2	PND22	16770F2P	4.21	T4	PND22	pup	2----0.01
982	16771	F	2	PND22	16771F2P	3.83	T4	PND22	pup	2----0.01
983	16773	F	2	PND22	16773F2P	3.02	T4	PND22	pup	2----0.01
984	16774	F	2	PND22	16774F2P	3.08	T4	PND22	pup	2----0.01
985	16776	F	1	PND22	16776F1P	3.57	T4	PND22	pup	1-CONTROL
986	16781	F	3	PND22	16781F3P	3.77	T4	PND22	pup	3-----0.1
987	16782	F	3	PND22	16782F3P	3.15	T4	PND22	pup	3-----0.1
988	16783	F	3	PND22	16783F3P	3.81	T4	PND22	pup	3-----0.1
989	16784	F	3	PND22	16784F3P	3.59	T4	PND22	pup	3-----0.1
990	16786	F	3	PND22	16786F3P	3.98	T4	PND22	pup	3-----0.1
991	16787	F	3	PND22	16787F3P	3.79	T4	PND22	pup	3-----0.1
992	16791	F	3	PND22	16791F3P	3.95	T4	PND22	pup	3-----0.1
993	16792	F	3	PND22	16792F3P	3.55	T4	PND22	pup	3-----0.1
994	16793	F	3	PND22	16793F3P	3.10	T4	PND22	pup	3-----0.1
995	16794	F	3	PND22	16794F3P	2.86	T4	PND22	pup	3-----0.1
996	16795	F	3	PND22	16795F3P	3.11	T4	PND22	pup	3-----0.1
997	16796	F	3	PND22	16796F3P	3.30	T4	PND22	pup	3-----0.1
998	16797	F	3	PND22	16797F3P	3.02	T4	PND22	pup	3-----0.1
999	16798	F	3	PND22	16798F3P	3.71	T4	PND22	pup	3-----0.1
1000	16799	F	3	PND22	16799F3P	4.02	T4	PND22	pup	3-----0.1
1001	16800	F	4	PND22	16800F4P	3.08	T4	PND22	pup	4-----1.0
1002	16801	F	4	PND22	16801F4P	3.38	T4	PND22	pup	4-----1.0
1003	16802	F	4	PND22	16802F4P	3.50	T4	PND22	pup	4-----1.0
1004	16803	F	4	PND22	16803F4P	3.38	T4	PND22	pup	4-----1.0
1005	16805	F	4	PND22	16805F4P	4.00	T4	PND22	pup	4-----1.0
1006	16806	F	4	PND22	16806F4P	3.16	T4	PND22	pup	4-----1.0
1007	16807	F	4	PND22	16807F4P	3.47	T4	PND22	pup	4-----1.0
1008	16808	F	4	PND22	16808F4P	3.87	T4	PND22	pup	4-----1.0

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
1009	16810	F	4	PND22	16810F4P	3.19	T4	PND22	pup	4-----1.0
1010	16811	F	4	PND22	16811F4P	3.07	T4	PND22	pup	4-----1.0
1011	16814	F	4	PND22	16814F4P	3.19	T4	PND22	pup	4-----1.0
1012	16815	F	4	PND22	16815F4P	2.93	T4	PND22	pup	4-----1.0
1013	16817	F	4	PND22	16817F4P	3.21	T4	PND22	pup	4-----1.0
1014	16818	F	4	PND22	16818F4P	4.17	T4	PND22	pup	4-----1.0
1015	16820	F	4	PND22	16820F4P	3.65	T4	PND22	pup	4-----1.0
1016	16822	F	4	PND22	16822F4P	3.72	T4	PND22	pup	4-----1.0
1017	16823	F	5	PND22	16823F5P	3.23	T4	PND22	pup	5----30.0
1018	16825	F	5	PND22	16825F5P	3.42	T4	PND22	pup	5----30.0
1019	16826	F	5	PND22	16826F5P	3.33	T4	PND22	pup	5----30.0
1020	16827	F	5	PND22	16827F5P	3.53	T4	PND22	pup	5----30.0
1021	16828	F	5	PND22	16828F5P	3.52	T4	PND22	pup	5----30.0
1022	16830	F	5	PND22	16830F5P	4.13	T4	PND22	pup	5----30.0
1023	16831	F	5	PND22	16831F5P	3.48	T4	PND22	pup	5----30.0
1024	16833	F	5	PND22	16833F5P	3.50	T4	PND22	pup	5----30.0
1025	16834	F	5	PND22	16834F5P	3.39	T4	PND22	pup	5----30.0
1026	16836	F	5	PND22	16836F5P	3.98	T4	PND22	pup	5----30.0
1027	16837	F	5	PND22	16837F5P	2.84	T4	PND22	pup	5----30.0
1028	16839	F	5	PND22	16839F5P	4.04	T4	PND22	pup	5----30.0
1029	16840	F	5	PND22	16840F5P	3.24	T4	PND22	pup	5----30.0
1030	16842	F	5	PND22	16842F5P	3.02	T4	PND22	pup	5----30.0
1031	16843	F	5	PND22	16843F5P	2.77	T4	PND22	pup	5----30.0
1032	16844	F	5	PND22	16844F5P	3.21	T4	PND22	pup	5----30.0
1033	16731	F	1	PND22	16731F1P	145.47	T3	PND22	pup	1-CONTROL
1034	16732	F	1	PND22	16732F1P	189.54	T3	PND22	pup	1-CONTROL
1035	16734	F	1	PND22	16734F1P	153.21	T3	PND22	pup	1-CONTROL
1036	16735	F	1	PND22	16735F1P	184.57	T3	PND22	pup	1-CONTROL
1037	16736	F	1	PND22	16736F1P	179.17	T3	PND22	pup	1-CONTROL
1038	16737	F	1	PND22	16737F1P	163.16	T3	PND22	pup	1-CONTROL
1039	16738	F	1	PND22	16738F1P	172.48	T3	PND22	pup	1-CONTROL
1040	16740	F	1	PND22	16740F1P	192.07	T3	PND22	pup	1-CONTROL
1041	16741	F	1	PND22	16741F1P	188.03	T3	PND22	pup	1-CONTROL
1042	16742	F	1	PND22	16742F1P	142.01	T3	PND22	pup	1-CONTROL
1043	16745	F	1	PND22	16745F1P	173.17	T3	PND22	pup	1-CONTROL
1044	16746	F	1	PND22	16746F1P	159.59	T3	PND22	pup	1-CONTROL
1045	16747	F	1	PND22	16747F1P	163.33	T3	PND22	pup	1-CONTROL
1046	16749	F	1	PND22	16749F1P	167.37	T3	PND22	pup	1-CONTROL
1047	16750	F	1	PND22	16750F1P	166.58	T3	PND22	pup	1-CONTROL
1048	16753	F	2	PND22	16753F2P	161.78	T3	PND22	pup	2----0.01
1049	16755	F	2	PND22	16755F2P	162.57	T3	PND22	pup	2----0.01
1050	16758	F	2	PND22	16758F2P	177.92	T3	PND22	pup	2----0.01
1051	16760	F	2	PND22	16760F2P	167.82	T3	PND22	pup	2----0.01
1052	16761	F	2	PND22	16761F2P	153.00	T3	PND22	pup	2----0.01
1053	16762	F	2	PND22	16762F2P	139.99	T3	PND22	pup	2----0.01
1054	16763	F	2	PND22	16763F2P	146.33	T3	PND22	pup	2----0.01
1055	16764	F	2	PND22	16764F2P	146.94	T3	PND22	pup	2----0.01
1056	16765	F	2	PND22	16765F2P	145.82	T3	PND22	pup	2----0.01
1057	16767	F	2	PND22	16767F2P	178.97	T3	PND22	pup	2----0.01
1058	16768	F	2	PND22	16768F2P	156.82	T3	PND22	pup	2----0.01
1059	16769	F	2	PND22	16769F2P	189.24	T3	PND22	pup	2----0.01
1060	16770	F	2	PND22	16770F2P	169.79	T3	PND22	pup	2----0.01
1061	16771	F	2	PND22	16771F2P	182.23	T3	PND22	pup	2----0.01
1062	16773	F	2	PND22	16773F2P	176.89	T3	PND22	pup	2----0.01

1063	16774	F	2	PND22	16774F2P	156.20	T3	PND22	pup	2----0.01
1064	16776	F	1	PND22	16776F1P	130.52	T3	PND22	pup	1-CONTROL

OBS	ANIM	GENDER	DOSE	AGE	CODE	RES	TH	AGE2	GEN	TRT
1065	16781	F	3	PND22	16781F3P	178.59	T3	PND22	pup	3-----0.1
1066	16782	F	3	PND22	16782F3P	148.43	T3	PND22	pup	3-----0.1
1067	16783	F	3	PND22	16783F3P	173.35	T3	PND22	pup	3-----0.1
1068	16784	F	3	PND22	16784F3P	138.58	T3	PND22	pup	3-----0.1
1069	16786	F	3	PND22	16786F3P	177.64	T3	PND22	pup	3-----0.1
1070	16787	F	3	PND22	16787F3P	150.82	T3	PND22	pup	3-----0.1
1071	16791	F	3	PND22	16791F3P	162.93	T3	PND22	pup	3-----0.1
1072	16792	F	3	PND22	16792F3P	151.14	T3	PND22	pup	3-----0.1
1073	16793	F	3	PND22	16793F3P	163.85	T3	PND22	pup	3-----0.1
1074	16794	F	3	PND22	16794F3P	157.20	T3	PND22	pup	3-----0.1
1075	16795	F	3	PND22	16795F3P	167.64	T3	PND22	pup	3-----0.1
1076	16796	F	3	PND22	16796F3P	159.30	T3	PND22	pup	3-----0.1
1077	16797	F	3	PND22	16797F3P	147.06	T3	PND22	pup	3-----0.1
1078	16798	F	3	PND22	16798F3P	183.39	T3	PND22	pup	3-----0.1
1079	16799	F	3	PND22	16799F3P	158.46	T3	PND22	pup	3-----0.1
1080	16800	F	4	PND22	16800F4P	126.49	T3	PND22	pup	4-----1.0
1081	16801	F	4	PND22	16801F4P	139.11	T3	PND22	pup	4-----1.0
1082	16802	F	4	PND22	16802F4P	146.94	T3	PND22	pup	4-----1.0
1083	16803	F	4	PND22	16803F4P	160.75	T3	PND22	pup	4-----1.0
1084	16805	F	4	PND22	16805F4P	169.34	T3	PND22	pup	4-----1.0
1085	16806	F	4	PND22	16806F4P	166.04	T3	PND22	pup	4-----1.0
1086	16807	F	4	PND22	16807F4P	158.53	T3	PND22	pup	4-----1.0
1087	16808	F	4	PND22	16808F4P	152.48	T3	PND22	pup	4-----1.0
1088	16810	F	4	PND22	16810F4P	167.20	T3	PND22	pup	4-----1.0
1089	16811	F	4	PND22	16811F4P	168.18	T3	PND22	pup	4-----1.0
1090	16814	F	4	PND22	16814F4P	161.09	T3	PND22	pup	4-----1.0
1091	16815	F	4	PND22	16815F4P	179.73	T3	PND22	pup	4-----1.0
1092	16817	F	4	PND22	16817F4P	151.61	T3	PND22	pup	4-----1.0
1093	16818	F	4	PND22	16818F4P	171.85	T3	PND22	pup	4-----1.0
1094	16820	F	4	PND22	16820F4P	165.08	T3	PND22	pup	4-----1.0
1095	16822	F	4	PND22	16822F4P	153.41	T3	PND22	pup	4-----1.0
1096	16823	F	5	PND22	16823F5P	146.19	T3	PND22	pup	5----30.0
1097	16825	F	5	PND22	16825F5P	150.74	T3	PND22	pup	5----30.0
1098	16826	F	5	PND22	16826F5P	133.75	T3	PND22	pup	5----30.0
1099	16827	F	5	PND22	16827F5P	178.25	T3	PND22	pup	5----30.0
1100	16828	F	5	PND22	16828F5P	157.53	T3	PND22	pup	5----30.0
1101	16830	F	5	PND22	16830F5P	169.24	T3	PND22	pup	5----30.0
1102	16831	F	5	PND22	16831F5P	179.68	T3	PND22	pup	5----30.0
1103	16833	F	5	PND22	16833F5P	179.68	T3	PND22	pup	5----30.0
1104	16834	F	5	PND22	16834F5P	156.47	T3	PND22	pup	5----30.0
1105	16836	F	5	PND22	16836F5P	161.69	T3	PND22	pup	5----30.0
1106	16837	F	5	PND22	16837F5P	149.22	T3	PND22	pup	5----30.0
1107	16839	F	5	PND22	16839F5P	143.05	T3	PND22	pup	5----30.0
1108	16840	F	5	PND22	16840F5P	141.46	T3	PND22	pup	5----30.0
1109	16842	F	5	PND22	16842F5P	128.35	T3	PND22	pup	5----30.0
1110	16843	F	5	PND22	16843F5P	171.42	T3	PND22	pup	5----30.0
1111	16844	F	5	PND22	16844F5P	149.28	T3	PND22	pup	5----30.0

Analysis Variable : RES

---------- TH=T3 AGE=GD21 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
8	23.3600000	0.8147984	20.0400000	27.2900000	2.3045979	5.3111714	9.8655732

---------- TH=T3 AGE=GD21 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
7	19.3171429	0.8352180	15.1800000	22.0900000	2.2097791	4.8831238	11.4394719

---------- TH=T3 AGE=GD21 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
8	16.9450000	0.6232805	14.9400000	20.2600000	1.7629034	3.1078286	10.4036793

---------- TH=T3 AGE=GD21 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
7	16.7042857	0.6371695	14.8000000	19.4800000	1.6857922	2.8418952	10.0919740

---------- TH=T3 AGE=GD21 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
2	15.5650000	0.7950000	14.7700000	16.3600000	1.1242998	1.2640500	7.2232559

---------- TH=T3 AGE=PND05 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	62.0666667	1.7072151	51.4200000	73.8300000	6.6120158	43.7187524	10.6530866

---------- TH=T3 AGE=PND05 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	57.2280000	1.6523499	45.6000000	68.9700000	6.3995236	40.9539029	11.1825044

Analysis Variable : RES

TH=T3 AGE=PND05 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	56.4660000	1.3316766	47.6200000	64.8900000	5.1575614	26.6004400	9.1339238

TH=T3 AGE=PND05 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	55.3928571	1.5254365	47.8900000	67.4000000	5.7076607	32.5773912	10.3039652

TH=T3 AGE=PND05 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
12	54.0141667	1.6741843	42.8100000	62.3000000	5.7995446	33.6347174	10.7370806

TH=T3 AGE=PND10 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	79.5425000	1.6565271	66.3400000	90.4600000	6.6261085	43.9053133	8.3302743

TH=T3 AGE=PND10 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	75.1750000	2.0125117	63.5500000	95.7900000	8.0500468	64.8032533	10.7084094

TH=T3 AGE=PND10 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	74.3862500	2.0098499	60.0400000	86.2500000	8.0393995	64.6319450	10.8076419

TH=T3 AGE=PND10 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV

16	66.2200000	1.6251705	56.4300000	81.8800000	6.5006820	42.2588667	9.8167956

Analysis Variable : RES

TH=T3 AGE=PND10 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	64.4112500	1.8957553	50.7400000	72.5100000	7.5830213	57.5022117	11.7728212

TH=T4 AGE=GD21 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	1.5912500	0.0404029	1.3700000	1.8700000	0.1616117	0.0261183	10.1562718

TH=T4 AGE=GD21 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	1.4964286	0.0384823	1.2800000	1.7700000	0.1439876	0.0207324	9.6220804

TH=T4 AGE=GD21 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	1.4735714	0.0426281	1.1700000	1.7100000	0.1594996	0.0254401	10.8240129

TH=T4 AGE=GD21 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
13	1.4584615	0.0360883	1.1500000	1.6500000	0.1301183	0.0169308	8.9216127

TH=T4 AGE=GD21 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
13	1.3761538	0.0359226	1.1700000	1.5700000	0.1295208	0.0167756	9.4117975

TH=T4 AGE=PND05 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
12	2.0808333	0.0697882	1.7900000	2.5300000	0.2417534	0.0584447	11.6181040

Analysis Variable : RES

TH=T4 AGE=PND05 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
11	1.8300000	0.0646389	1.5200000	2.2200000	0.2143828	0.0459600	11.7149090

TH=T4 AGE=PND05 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
12	1.8008333	0.0521283	1.4600000	2.1000000	0.1805778	0.0326083	10.0274563

TH=T4 AGE=PND05 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
14	1.7871429	0.0553156	1.5500000	2.3500000	0.2069719	0.0428374	11.5811608

TH=T4 AGE=PND05 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
9	1.7033333	0.0668331	1.3600000	1.9200000	0.2004994	0.0402000	11.7710006

TH=T4 AGE=PND10 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.7343750	0.1025507	3.1200000	4.4800000	0.4102027	0.1682663	10.9845073

TH=T4 AGE=PND10 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.7331250	0.0884389	3.2100000	4.5600000	0.3537554	0.1251429	9.4761211

---------- TH=T4 AGE=PND10 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.5031250	0.1045814	2.6700000	4.3200000	0.4183255	0.1749962	11.9414960

Analysis Variable : RES

---------- TH=T4 AGE=PND10 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.3675000	0.0874238	2.7600000	4.1100000	0.3496951	0.1222867	10.3844129

---------- TH=T4 AGE=PND10 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.3493750	0.0947781	2.8400000	4.0200000	0.3791125	0.1437263	11.3189013

---------- TH=TSH AGE=GD21 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.2175000	0.1772110	6.0100000	8.3300000	0.7088441	0.5024600	9.8211864

---------- TH=TSH AGE=GD21 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.2862500	0.1606131	6.1900000	8.4500000	0.6424523	0.4127450	8.8173249

---------- TH=TSH AGE=GD21 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	7.8040000	0.2140845	6.5500000	9.7700000	0.8291459	0.6874829	10.6246266

---------- TH=TSH AGE=GD21 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV

15	8.1940000	0.1815825	7.2300000	9.6500000	0.7032659	0.4945829	8.5826928

TH=TSH AGE=GD21 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
17	10.6888235	0.2693291	9.2600000	13.1400000	1.1104722	1.2331485	10.3890967

Analysis Variable : RES

TH=TSH AGE=PND05 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	4.8612500	0.1256413	3.9700000	5.4100000	0.5025651	0.2525717	10.3381864

TH=TSH AGE=PND05 TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	4.9250000	0.1436402	4.0000000	6.0300000	0.5745607	0.3301200	11.6662071

TH=TSH AGE=PND05 TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	5.1293333	0.1381285	4.1400000	5.9200000	0.5349695	0.2861924	10.4296110

TH=TSH AGE=PND05 TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	5.2800000	0.1525279	4.4500000	6.5300000	0.5907380	0.3489714	11.1882204

TH=TSH AGE=PND05 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	5.2956250	0.1541887	4.4600000	6.1300000	0.6167546	0.3803863	11.6464933

TH=TSH AGE=PND10 TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	6.6368750	0.1810012	5.2300000	7.7300000	0.7240048	0.5241829	10.9088204

---------- TH=TSH AGE=PND10 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.2206250	0.1948834	6.0100000	8.3300000	0.7795338	0.6076729	10.7959322

Analysis Variable : RES

---------- TH=TSH AGE=PND10 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.2475000	0.1761427	6.3600000	8.9300000	0.7045708	0.4964200	9.7215701

---------- TH=TSH AGE=PND10 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.3243750	0.1843456	6.2300000	8.5600000	0.7373825	0.5437329	10.0675140

---------- TH=TSH AGE=PND10 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	8.8831250	0.2313974	7.5500000	10.3700000	0.9255897	0.8567162	10.4196404

OBS	TH	AGE	TRT	_TYPE_	_FREQ_	X_T3	SE1
1	T3	GD21	1-CONTROL	0	8	23.3600	0.81480
2	T3	GD21	2----0.01	0	7	19.3171	0.83522
3	T3	GD21	3-----0.1	0	8	16.9450	0.62328
4	T3	GD21	4-----1.0	0	7	16.7043	0.63717
5	T3	GD21	5----30.0	0	2	15.5650	0.79500
6	T3	PND05	1-CONTROL	0	15	62.0667	1.70722
7	T3	PND05	2----0.01	0	15	57.2280	1.65235
8	T3	PND05	3-----0.1	0	15	56.4660	1.33168
9	T3	PND05	4-----1.0	0	14	55.3929	1.52544
10	T3	PND05	5----30.0	0	12	54.0142	1.67418

11	T3	PND10	1-CONTROL	0	16	79.5425	1.65653
12	T3	PND10	2----0.01	0	16	75.1750	2.01251
13	T3	PND10	3-----0.1	0	16	74.3863	2.00985
14	T3	PND10	4-----1.0	0	16	66.2200	1.62517
15	T3	PND10	5----30.0	0	16	64.4113	1.89576
16	T4	GD21	1-CONTROL	0	16	1.5913	0.04040
17	T4	GD21	2----0.01	0	16	1.4964	0.03848
18	T4	GD21	3-----0.1	0	15	1.4736	0.04263
19	T4	GD21	4-----1.0	0	15	1.4585	0.03609
20	T4	GD21	5----30.0	0	17	1.3762	0.03592
21	T4	PND05	1-CONTROL	0	12	2.0808	0.06979
22	T4	PND05	2----0.01	0	11	1.8300	0.06464
23	T4	PND05	3-----0.1	0	12	1.8008	0.05213
24	T4	PND05	4-----1.0	0	14	1.7871	0.05532
25	T4	PND05	5----30.0	0	9	1.7033	0.06683
26	T4	PND10	1-CONTROL	0	16	3.7344	0.10255
27	T4	PND10	2----0.01	0	16	3.7331	0.08844
28	T4	PND10	3-----0.1	0	16	3.5031	0.10458
29	T4	PND10	4-----1.0	0	16	3.3675	0.08742
30	T4	PND10	5----30.0	0	16	3.3494	0.09478
31	TSH	GD21	1-CONTROL	0	16	7.2175	0.17721
32	TSH	GD21	2----0.01	0	16	7.2863	0.16061
33	TSH	GD21	3-----0.1	0	15	7.8040	0.21408
34	TSH	GD21	4-----1.0	0	15	8.1940	0.18158
35	TSH	GD21	5----30.0	0	17	10.6888	0.26933
36	TSH	PND05	1-CONTROL	0	16	4.8613	0.12564
37	TSH	PND05	2----0.01	0	16	4.9250	0.14364
38	TSH	PND05	3-----0.1	0	15	5.1293	0.13813
39	TSH	PND05	4-----1.0	0	15	5.2800	0.15253
40	TSH	PND05	5----30.0	0	16	5.2956	0.15419
41	TSH	PND10	1-CONTROL	0	16	6.6369	0.18100
42	TSH	PND10	2----0.01	0	16	7.2206	0.19488
43	TSH	PND10	3-----0.1	0	16	7.2475	0.17614
44	TSH	PND10	4-----1.0	0	16	7.3244	0.18435
45	TSH	PND10	5----30.0	0	16	8.8831	0.23140

Analysis Variable : RES

---------- TH=T3 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
39	61.2964103	3.5002223	20.0400000	90.4600000	21.8588813	477.8106920	35.6609485

---------- TH=T3 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
38	57.8010526	3.4542707	15.1800000	95.7900000	21.2935544	453.4154583	36.8393886

---------- TH=T3 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
39	55.7110256	3.5782040	14.9400000	86.2500000	22.3458768	499.3382094	40.1103310

---------- TH=T3 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
37	52.7554054	3.1444615	14.8000000	81.8800000	19.1270127	365.8426144	36.2560245

---------- TH=T3 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
30	56.9960000	2.5491278	14.7700000	72.5100000	13.9621477	194.9415697	24.4967151

---------- TH=T4 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
44	2.5040909	0.1512081	1.3700000	4.4800000	1.0030009	1.0060108	40.0544918

Analysis Variable : RES

---------- TH=T4 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
41	2.4587805	0.1673033	1.2800000	4.5600000	1.0712637	1.1476060	43.5689047

---------- TH=T4 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
42	2.3402381	0.1504123	1.1700000	4.3200000	0.9747832	0.9502024	41.6531656

---------- TH=T4 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV

43	2.2758140	0.1365831	1.1500000	4.1100000	0.8956355	0.8021630	39.3545146

TH=T4 TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
38	2.2844737	0.1568451	1.1700000	4.0200000	0.9668581	0.9348146	42.3230131

TH=TSH TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	6.2385417	0.1728613	3.9700000	8.3300000	1.1976182	1.4342893	19.1970856

TH=TSH TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
48	6.4772917	0.1860888	4.0000000	8.4500000	1.2892613	1.6621946	19.9043264

Analysis Variable : RES

TH=TSH TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
46	6.7382609	0.1979285	4.1400000	9.7700000	1.3424162	1.8020814	19.9222954

TH=TSH TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
46	6.9413043	0.2053056	4.4500000	9.6500000	1.3924505	1.9389183	20.0603573

TH=TSH TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
49	8.3381633	0.3481526	4.4600000	13.1400000	2.4370685	5.9393028	29.2278816

OBS	TH	TRT	_TYPE_	_FREQ_	X_T3	SE1
1	T3	1-CONTROL	0	39	61.2964	3.50022
2	T3	2----0.01	0	38	57.8011	3.45427
3	T3	3-----0.1	0	39	55.7110	3.57820
4	T3	4-----1.0	0	37	52.7554	3.14446
5	T3	5----30.0	0	30	56.9960	2.54913
6	T4	1-CONTROL	0	44	2.5041	0.15121
7	T4	2----0.01	0	43	2.4588	0.16730
8	T4	3-----0.1	0	43	2.3402	0.15041
9	T4	4-----1.0	0	45	2.2758	0.13658
10	T4	5----30.0	0	42	2.2845	0.15685
11	TSH	1-CONTROL	0	48	6.2385	0.17286
12	TSH	2----0.01	0	48	6.4773	0.18609
13	TSH	3-----0.1	0	46	6.7383	0.19793
14	TSH	4-----1.0	0	46	6.9413	0.20531
15	TSH	5----30.0	0	49	8.3382	0.34815

Analysis Variable : RES

---------- TH=T3 GENDER=F TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	166.8918750	4.4702605	130.5200000	192.0700000	17.8810418	319.7316563	10.7141476

---------- TH=T3 GENDER=F TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	163.2693750	3.7325238	139.9900000	189.2400000	14.9300951	222.9077396	9.1444553

---------- TH=T3 GENDER=F TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	161.2253333	3.3629113	138.5800000	183.3900000	13.0244994	169.6375838	8.0784447

---------- TH=T3 GENDER=F TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	158.6143750	3.3362966	126.4900000	179.7300000	13.3451864	178.0939996	8.4136046

---------- TH=T3 GENDER=F TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	156.0000000	4.0405697	128.3500000	179.6800000	16.1622787	261.2192533	10.3604351

---------- TH=T3 GENDER=M TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	190.7650000	4.8323318	150.6600000	233.0300000	19.3293273	373.6228933	10.1325334

---------- TH=T3 GENDER=M TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	185.2550000	5.2299892	157.0300000	216.0300000	20.9199567	437.6445867	11.2925193

Analysis Variable : RES

---------- TH=T3 GENDER=M TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	184.2306667	5.1097937	145.8600000	212.2900000	19.7901460	391.6498781	10.7420476

---------- TH=T3 GENDER=M TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	173.0537500	4.9142053	143.5500000	219.8100000	19.6568213	386.3906250	11.3587954

---------- TH=T3 GENDER=M TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	168.1000000	4.3058011	136.0400000	203.7900000	17.2232045	296.6387733	10.2458087

---------- TH=T4 GENDER=F TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.6168750	0.0941396	3.0100000	4.3300000	0.3765584	0.1417963	10.4111541

---------- TH=T4 GENDER=F TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.5650000	0.1068644	3.0200000	4.2100000	0.4274576	0.1827200	11.9903955

---------- TH=T4 GENDER=F TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	3.5140000	0.1005404	2.8600000	4.0200000	0.3893915	0.1516257	11.0811459

---------- TH=T4 GENDER=F TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.4356250	0.0900970	2.9300000	4.1700000	0.3603881	0.1298796	10.4897392

Analysis Variable : RES

---------- TH=T4 GENDER=F TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.4143750	0.0973438	2.7700000	4.1300000	0.3893750	0.1516129	11.4039915

---------- TH=T4 GENDER=M TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.9618750	0.1109926	3.1300000	4.6400000	0.4439703	0.1971096	11.2060641

---------- TH=T4 GENDER=M TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.3168750	0.0941485	2.8100000	3.9300000	0.3765938	0.1418229	11.3538748

---------- TH=T4 GENDER=M TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV

15	3.3113333	0.0930994	2.5900000	4.1500000	0.3605723	0.1300124	10.8890365

---------- TH=T4 GENDER=M TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.2762500	0.0847392	2.8100000	3.8900000	0.3389567	0.1148917	10.3458751

---------- TH=T4 GENDER=M TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.2275000	0.0699077	2.8800000	3.9500000	0.2796307	0.0781933	8.6640034

---------- TH=TSH GENDER=F TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	5.2381250	0.1155502	4.3200000	5.8700000	0.4622008	0.2136296	8.8237834

Analysis Variable : RES

---------- TH=TSH GENDER=F TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	5.4393750	0.1350971	4.6500000	6.5600000	0.5403884	0.2920196	9.9347510

---------- TH=TSH GENDER=F TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	6.1706667	0.1573757	5.1300000	7.2300000	0.6095135	0.3715067	9.8775951

---------- TH=TSH GENDER=F TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	6.2587500	0.1650704	5.3600000	7.8300000	0.6602815	0.4359717	10.5497345

---------- TH=TSH GENDER=F TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	7.4018750	0.1782045	6.2800000	8.9400000	0.7128181	0.5081096	9.6302364

TH=TSH GENDER=M TRT=1-CONTROL

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	3.6787500	0.1039666	3.0900000	4.3400000	0.4158666	0.1729450	11.3045617

TH=TSH GENDER=M TRT=2----0.01

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	4.1625000	0.1076240	3.5100000	4.8400000	0.4304958	0.1853267	10.3422424

TH=TSH GENDER=M TRT=3-----0.1

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
15	4.9400000	0.1390512	3.8900000	5.9200000	0.5385430	0.2900286	10.9016803

Analysis Variable : RES

TH=TSH GENDER=M TRT=4-----1.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	4.9556250	0.1449482	4.1000000	5.9600000	0.5797927	0.3361596	11.6996889

TH=TSH GENDER=M TRT=5----30.0

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
16	5.2975000	0.1305549	4.4000000	6.1100000	0.5222196	0.2727133	9.8578503

OBS	TH	GENDER	TRT	_TYPE_	_FREQ_	X_T3	SE1
1	T3	F	1-CONTROL	0	16	166.892	4.47026
2	T3	F	2----0.01	0	16	163.269	3.73252
3	T3	F	3-----0.1	0	15	161.225	3.36291

4	T3	F	4-----1.0	0	16	158.614	3.33630
5	T3	F	5----30.0	0	16	156.000	4.04057
6	T3	M	1-CONTROL	0	16	190.765	4.83233
7	T3	M	2----0.01	0	16	185.255	5.22999
8	T3	M	3-----0.1	0	15	184.231	5.10979
9	T3	M	4-----1.0	0	16	173.054	4.91421
10	T3	M	5----30.0	0	16	168.100	4.30580
11	T4	F	1-CONTROL	0	16	3.617	0.09414
12	T4	F	2----0.01	0	16	3.565	0.10686
13	T4	F	3-----0.1	0	15	3.514	0.10054
14	T4	F	4-----1.0	0	16	3.436	0.09010
15	T4	F	5----30.0	0	16	3.414	0.09734
16	T4	M	1-CONTROL	0	16	3.962	0.11099
17	T4	M	2----0.01	0	16	3.317	0.09415
18	T4	M	3-----0.1	0	15	3.311	0.09310
19	T4	M	4-----1.0	0	16	3.276	0.08474
20	T4	M	5----30.0	0	16	3.228	0.06991
21	TSH	F	1-CONTROL	0	16	5.238	0.11555
22	TSH	F	2----0.01	0	16	5.439	0.13510
23	TSH	F	3-----0.1	0	15	6.171	0.15738
24	TSH	F	4-----1.0	0	16	6.259	0.16507
25	TSH	F	5----30.0	0	16	7.402	0.17820
26	TSH	M	1-CONTROL	0	16	3.679	0.10397
27	TSH	M	2----0.01	0	16	4.163	0.10762
28	TSH	M	3-----0.1	0	15	4.940	0.13905
29	TSH	M	4-----1.0	0	16	4.956	0.14495
30	TSH	M	5----30.0	0	16	5.298	0.13055

Analysis Variable : RES

---------- TH=T3 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	178.8284375	3.8833452	130.5200000	233.0300000	21.9675178	482.5718394	12.2841300

---------- TH=T3 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	174.2621875	3.7264349	139.9900000	216.0300000	21.0798991	444.3621467	12.0966570

---------- TH=T3 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
30	172.7280000	3.6870953	138.5800000	212.2900000	20.1950529	407.8401614	11.6918235

---------- TH=T3 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	165.8340625	3.1963995	126.4900000	219.8100000	18.0815659	326.9430249	10.9034089

---------- TH=T3 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	162.0500000	3.1009803	128.3500000	203.7900000	17.5417938	307.7145290	10.8249267

---------- TH=T4 TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	3.7893750	0.0780030	3.0100000	4.6400000	0.4412514	0.1947028	11.6444381

---------- TH=T4 TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	3.4409375	0.0735112	2.8100000	4.2100000	0.4158424	0.1729249	12.0851482

Analysis Variable : RES

---------- TH=T4 TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
30	3.4126667	0.0699013	2.5900000	4.1500000	0.3828652	0.1465857	11.2189446

---------- TH=T4 TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	3.3559375	0.0624982	2.8100000	4.1700000	0.3535430	0.1249926	10.5348501

---------- TH=T4 TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	3.3209375	0.0612905	2.7700000	4.1300000	0.3467114	0.1202088	10.4401653

---------- TH=TSH TRT=1-CONTROL ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	4.4584375	0.1595477	3.0900000	5.8700000	0.9025380	0.8145749	20.2433707

---------- TH=TSH TRT=2----0.01 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	4.8009375	0.1427109	3.5100000	6.5600000	0.8072948	0.6517249	16.8153575

---------- TH=TSH TRT=3-----0.1 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
30	5.5553333	0.1539538	3.8900000	7.2300000	0.8432398	0.7110533	15.1789233

---------- TH=TSH TRT=4-----1.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	5.6071875	0.1592797	4.1000000	7.8300000	0.9010218	0.8118402	16.0690500

Analysis Variable : RES

---------- TH=TSH TRT=5----30.0 ----------

N	Mean	Std Error	Minimum	Maximum	Std Dev	Variance	CV
32	6.3496875	0.2179900	4.4000000	8.9400000	1.2331378	1.5206289	19.4204493

OBS	TH	TRT	_TYPE_	_FREQ_	X_T3	SE1
1	T3	1-CONTROL	0	32	178.828	3.88335
2	T3	2----0.01	0	32	174.262	3.72643
3	T3	3-----0.1	0	30	172.728	3.68710
4	T3	4-----1.0	0	32	165.834	3.19640
5	T3	5----30.0	0	32	162.050	3.10098
6	T4	1-CONTROL	0	32	3.789	0.07800
7	T4	2----0.01	0	32	3.441	0.07351
8	T4	3-----0.1	0	30	3.413	0.06990

9	T4	4-----1.0	0	32	3.356	0.06250
10	T4	5----30.0	0	32	3.321	0.06129
11	TSH	1-CONTROL	0	32	4.458	0.15955
12	TSH	2----0.01	0	32	4.801	0.14271
13	TSH	3-----0.1	0	30	5.555	0.15395
14	TSH	4-----1.0	0	32	5.607	0.15928
15	TSH	5----30.0	0	32	6.350	0.21799

---------- TH=T3 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
AGE	3	GD21 PND05 PND10

Number of observations in by group = 183

---------- TH=T3 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	67652.50191544	4832.32156539	123.86	0.0001
Error	168	6554.38232500	39.01418051		
Corrected Total	182	74206.88424044			

R-Square	C.V.	Root MSE	RES Mean
0.911674	10.96805	6.24613324	56.94841530

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	1475.21438721	368.80359680	9.45	0.0001
AGE	2	65632.57728624	32816.28864312	841.14	0.0001
TRT*AGE	8	544.71024198	68.08878025	1.75	0.0914

Source	DF	Type III SS	Mean Square	F Value	Pr > F

TRT	4	1795.03039935	448.75759984	11.50	0.0001
AGE	2	53473.28251767	26736.64125883	685.31	0.0001
TRT*AGE	8	544.71024198	68.08878025	1.75	0.0914

---------- TH=T4 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
AGE	3	GD21 PND05 PND10

Number of observations in by group = 217

NOTE: Due to missing values, only 208 observations can be used in this analysis.

---------- TH=T4 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	183.45374915	13.10383923	171.43	0.0001
Error	193	14.75243883	0.07643751		
Corrected Total	207	198.20618798			

R-Square	C.V.	Root MSE	RES Mean
0.925570	11.64216	0.27647334	2.37475962

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	1.80620172	0.45155043	5.91	0.0002
AGE	2	180.92217160	90.46108580	1183.46	0.0001
TRT*AGE	8	0.72537584	0.09067198	1.19	0.3092

Source	DF	Type III SS	Mean Square	F Value	Pr > F

TRT	4	2.67028073	0.66757018	8.73	0.0001
AGE	2	180.19776453	90.09888226	1178.73	0.0001
TRT*AGE	8	0.72537584	0.09067198	1.19	0.3092

---------- TH=TSH ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
AGE	3	GD21 PND05 PND10

Number of observations in by group = 237

---------- TH=TSH ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	611.69572773	43.69255198	81.66	0.0001
Error	222	118.77670855	0.53503022		
Corrected Total	236	730.47243629			

R-Square	C.V.	Root MSE	RES Mean
0.837397	10.51793	0.73145760	6.95438819

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	131.50617315	32.87654329	61.45	0.0001
AGE	2	424.59114788	212.29557394	396.79	0.0001
TRT*AGE	8	55.59840670	6.94980084	12.99	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F

TRT	4	125.10607321	31.27651830	58.46	0.0001
AGE	2	418.98509493	209.49254747	391.55	0.0001
TRT*AGE	8	55.59840670	6.94980084	12.99	0.0001

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
AGE	3	GD21 PND05 PND10

Number of observations in data set = 183

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	67107.79167345	11184.63194558	277.29	0.0001
Error	176	7099.09256698	40.33575322		
Corrected Total	182	74206.88424044			

R-Square	C.V.	Root MSE	RES Mean
0.904334	11.15227	6.35104348	56.94841530

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	1475.21438721	368.80359680	9.14	0.0001
AGE	2	65632.57728624	32816.28864312	813.58	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	2851.40179541	712.85044885	17.67	0.0001
AGE	2	65632.57728624	32816.28864312	813.58	0.0001

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 176 MSE= 40.33575
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 36.24286

Number of Means	2	3	4	5
Critical Range	2.944	3.099	3.203	3.278

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	61.296	39	1-CONTROL
B	57.801	38	2----0.01
B			
B	56.996	30	5----30.0
B			
B	55.711	39	3-----0.1
C	52.755	37	4-----1.0

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
AGE	3	GD21 PND05 PND10

Number of observations in data set = 217

NOTE: Due to missing values, only 208 observations can be used in this analysis.

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	182.72837331	30.45472889	395.50	0.0001

Error	201	15.47781467	0.07700405
Corrected Total	207	198.20618798	

R-Square	C.V.	Root MSE	RES Mean
0.921911	11.68523	0.27749604	2.37475962

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	1.80620172	0.45155043	5.86	0.0002
AGE	2	180.92217160	90.46108580	1174.76	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	2.82279080	0.70569770	9.16	0.0001
AGE	2	180.92217160	90.46108580	1174.76	0.0001

STEP-DOWN ANOVA FOR T4 - EXCLUDING PND22

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 201 MSE= 0.077004
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 41.49424

Number of Means	2	3	4	5
Critical Range	.1201	.1265	.1307	.1338

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	TRT
	A	2.50409	44	1-CONTROL
	A			
B	A	2.45878	41	2----0.01
B				
B	C	2.34024	42	3-----0.1
	C			
	C	2.28447	38	5----30.0
	C			
	C	2.27581	43	4-----1.0

STEP-DOWN ANOVAS FOR TSH - EXCLUDING PND22

---------- AGE=GD21 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

---------- AGE=GD21 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	136.01220068	34.00305017	50.32	0.0001
Error	74	50.00737147	0.67577529		
Corrected Total	78	186.01957215			

R-Square	C.V.	Root MSE	RES Mean
0.731171	9.933978	0.82205553	8.27518987

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	136.01220068	34.00305017	50.32	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	136.01220068	34.00305017	50.32	0.0001

---------- AGE=GD21 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.675775

WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.76507

Number of Means	2	3	4	5
Critical Range	.5834	.6138	.6340	.6487

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	TRT
	A	10.6888	17	5----30.0
	B	8.1940	15	4-----1.0
	B			
C	B	7.8040	15	3-----0.1
C				
C		7.2863	16	2----0.01
C				
C		7.2175	16	1-CONTROL

---------- AGE=PND05 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 78

---------- AGE=PND05 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	2.51166740	0.62791685	1.96	0.1090
Error	73	23.33846208	0.31970496		
Corrected Total	77	25.85012949			

R-Square	C.V.	Root MSE	RES Mean

0.097163	11.09652	0.56542458		5.09551282

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	2.51166740	0.62791685	1.96	0.1090

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	2.51166740	0.62791685	1.96	0.1090

---------- AGE=PND05 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 73 MSE= 0.319705
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.58442

Number of Means	2	3	4	5
Critical Range	.4037	.4247	.4387	.4488

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	5.2956	16	5----30.0
A			
A	5.2800	15	4-----1.0
A			
A	5.1293	15	3-----0.1
A			
A	4.9250	16	2----0.01
A			
A	4.8613	16	1-CONTROL

---------- AGE=PND10 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values

TRT 5 1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 80

---------- AGE=PND10 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	45.17822500	11.29455625	18.65	0.0001
Error	75	45.43087500	0.60574500		
Corrected Total	79	90.60910000			

R-Square	C.V.	Root MSE	RES Mean
0.498606	10.42943	0.77829622	7.46250000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	45.17822500	11.29455625	18.65	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	45.17822500	11.29455625	18.65	0.0001

---------- AGE=PND10 ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 75 MSE= 0.605745

Number of Means	2	3	4	5
Critical Range	.5482	.5768	.5957	.6095

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT

A	8.8831	16	5----30.0
B	7.3244	16	4-----1.0
B			
B	7.2475	16	3-----0.1
B			
B	7.2206	16	2----0.01
C	6.6369	16	1-CONTROL

---------- TH=T3 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
GENDER	2	F M

Number of observations in by group = 158

---------- TH=T3 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	21030.61795430	2336.73532826	7.68	0.0001
Error	148	45001.76737292	304.06599576		
Corrected Total	157	66032.38532722			

R-Square	C.V.	Root MSE	RES Mean
0.318489	10.21436	17.43748823	170.71537975

Source	DF	Type I SS	Mean Square	F Value	Pr > F

TRT	4	5795.68290659	1448.92072665	4.77	0.0012
GENDER	1	14306.08799051	14306.08799051	47.05	0.0001
TRT*GENDER	4	928.84705720	232.21176430	0.76	0.5505

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	5795.68290659	1448.92072665	4.77	0.0012
GENDER	1	14371.29451888	14371.29451888	47.26	0.0001
TRT*GENDER	4	928.84705720	232.21176430	0.76	0.5505

---------- TH=T4 ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
GENDER	2	F M

Number of observations in by group = 158

---------- TH=T4 ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	6.74780013	0.74975557	5.28	0.0001
Error	148	21.01332708	0.14198194		
Corrected Total	157	27.76112722			

R-Square	C.V.	Root MSE	RES Mean
0.243067	10.87579	0.37680491	3.46462025

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	4.51243742	1.12810936	7.95	0.0001

GENDER	1	0.31279051	0.31279051	2.20	0.1399
TRT*GENDER	4	1.92257220	0.48064305	3.39	0.0111

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	4.51243742	1.12810936	7.95	0.0001
GENDER	1	0.32264474	0.32264474	2.27	0.1338
TRT*GENDER	4	1.92257220	0.48064305	3.39	0.0111

---------- TH=TSH ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
GENDER	2	F M

Number of observations in by group = 158

---------- TH=TSH ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	163.31208546	18.14578727	59.00	0.0001
Error	148	45.51461833	0.30753120		
Corrected Total	157	208.82670380			

R-Square	C.V.	Root MSE	RES Mean
0.782046	10.36208	0.55455496	5.35177215

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	70.44431963	17.61107991	57.27	0.0001
GENDER	1	88.66512405	88.66512405	288.31	0.0001

TRT*GENDER	4	4.20264178	1.05066045	3.42	0.0105

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	70.44431963	17.61107991	57.27	0.0001
GENDER	1	88.21090185	88.21090185	286.84	0.0001
TRT*GENDER	4	4.20264178	1.05066045	3.42	0.0105

STEP-DOWN ANOVA FOR T3 - PND22 ONLY

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0
GENDER	2	F M

Number of observations in data set = 158

STEP-DOWN ANOVA FOR T3 - PND22 ONLY

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	20101.77089710	4020.35417942	13.30	0.0001
Error	152	45930.61443012	302.17509493		
Corrected Total	157	66032.38532722			

R-Square	C.V.	Root MSE	RES Mean
0.304423	10.18255	17.38318426	170.71537975

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	5795.68290659	1448.92072665	4.79	0.0011
GENDER	1	14306.08799051	14306.08799051	47.34	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	5795.68290659	1448.92072665	4.79	0.0011
GENDER	1	14306.08799051	14306.08799051	47.34	0.0001

STEP-DOWN ANOVA FOR T3 - PND22 ONLY

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 152 MSE= 302.1751
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 31.57895

Number of Means	2	3	4	5
Critical Range	8.643	9.097	9.400	9.622

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	TRT
	A	178.828	32	1-CONTROL
	A			
B	A	174.262	32	2----0.01
B	A			
B	A	172.728	30	3-----0.1
B				
B	C	165.834	32	4-----1.0
	C			
	C	162.050	32	5----30.0

STEP-DOWN ANOVA FOR T4 - PND22 ONLY

---------- GENDER=F ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

STEP-DOWN ANOVA FOR T4 - PND22 ONLY

---------- GENDER=F ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	0.46614672	0.11653668	0.77	0.5488
Error	74	11.21289125	0.15152556		
Corrected Total	78	11.67903797			

R-Square	C.V.	Root MSE	RES Mean
0.039913	11.09291	0.38926284	3.50911392

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	0.46614672	0.11653668	0.77	0.5488

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	0.46614672	0.11653668	0.77	0.5488

STEP-DOWN ANOVA FOR T4 - PND22 ONLY

---------- GENDER=F ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.151526
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.2760	.2904	.3000	.3069

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	3.6169	16	1-CONTROL
A			
A	3.5650	16	2----0.01
A			
A	3.5140	15	3-----0.1

A			
A	3.4356	16	4-----1.0
A			
A	3.4144	16	5----30.0

STEP-DOWN ANOVA FOR T4 - PND22 ONLY

---------- GENDER=M ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

STEP-DOWN ANOVA FOR T4 - PND22 ONLY

---------- GENDER=M ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	5.96886290	1.49221573	11.27	0.0001
Error	74	9.80043583	0.13243832		
Corrected Total	78	15.76929873			

R-Square	C.V.	Root MSE	RES Mean
0.378512	10.64056	0.36392076	3.42012658

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	5.96886290	1.49221573	11.27	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	5.96886290	1.49221573	11.27	0.0001

STEP-DOWN ANOVA FOR T4 - PND22 ONLY

---------- GENDER=M ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.132438
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.2581	.2715	.2804	.2869

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	3.9619	16	1-CONTROL
B	3.3169	16	2----0.01
B			
B	3.3113	15	3-----0.1
B			
B	3.2763	16	4-----1.0
B			
B	3.2275	16	5----30.0

STEP-DOWN ANOVA FOR TSH - PND22 ONLY

---------- GENDER=F ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

STEP-DOWN ANOVA FOR TSH - PND22 ONLY

---------- GENDER=F ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	46.46418839	11.61604710	31.90	0.0001
Error	74	26.94704958	0.36414932		
Corrected Total	78	73.41123797			

R-Square	C.V.	Root MSE	RES Mean
0.632930	9.891151	0.60344786	6.10088608

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	46.46418839	11.61604710	31.90	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	46.46418839	11.61604710	31.90	0.0001

STEP-DOWN ANOVA FOR TSH - PND22 ONLY

---------- GENDER=F ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.364149
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.4279	.4503	.4650	.4758

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	7.4019	16	5----30.0
B	6.2588	16	4-----1.0
B			
B	6.1707	15	3-----0.1

C	5.4394	16	2----0.01
C			
C	5.2381	16	1-CONTROL

STEP-DOWN ANOVA FOR TSH - PND22 ONLY

---------- GENDER=M ----------

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TRT	5	1-CONTROL 2----0.01 3-----0.1 4-----1.0 5----30.0

Number of observations in by group = 79

STEP-DOWN ANOVA FOR TSH - PND22 ONLY

---------- GENDER=M ----------

General Linear Models Procedure

Dependent Variable: RES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	28.18277302	7.04569326	28.08	0.0001
Error	74	18.56756875	0.25091309		
Corrected Total	78	46.75034177			

R-Square	C.V.	Root MSE	RES Mean
0.602836	10.88311	0.50091226	4.60265823

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRT	4	28.18277302	7.04569326	28.08	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRT	4	28.18277302	7.04569326	28.08	0.0001

STEP-DOWN ANOVA FOR TSH - PND22 ONLY

---------- GENDER=M ----------

General Linear Models Procedure

Duncan's Multiple Range Test for variable: RES

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 74 MSE= 0.250913
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 15.78947

Number of Means	2	3	4	5
Critical Range	.3552	.3738	.3860	.3950

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	TRT
A	5.2975	16	5----30.0
A			
A	4.9556	16	4-----1.0
A			
A	4.9400	15	3-----0.1
B	4.1625	16	2----0.01
C	3.6788	16	1-CONTROL