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MRID No. 444577-27

DATA EVALUATION RECORD
§ 71-4 -- AVIAN REPRODUCTION TEST

1. **CHEMICAL:** Prohexadione Calcium — PC Code No.: 112600

2. **TEST MATERIAL:** Prohexadione-Calcium — Purity: 91.1%

3. **CITATION:**

Author: R. Munk
Title: Prohexadione-Calcium - 1-Generation Reproduction Study on the Bobwhite Quail (*Colinus virginianus*) by Administration in the Diet
Study Completion Date: November 12, 1996
Laboratory: BASF Aktiengesellschaft, Ludwigshafen/Rhine, Germany
Sponsor: BASF Corporation, Agricultural Products, Research Triangle Park, NC
Laboratory Report ID: 96/10868
MRID No.: 444577-27
DP Barcode: D245631

4. **REVIEWED BY:** Max Feken, M.S., Environmental Toxicologist, Golder Associates Inc.

Signature: [signature] **Date:** 6/30/98

APPROVED BY: Pim Kosalwat, Ph.D., Senior Scientist, Golder Associates Inc.

Signature: P. Kosalwat **Date:** 6/30/98

5. **APPROVED BY:**

Signature: Brian Montague **Date:** 7/13/99

6. **STUDY PARAMETERS:**

Scientific Name of Test Organism: *Colinus virginianus*
Age of Test Organisms at Test Initiation: about 9 months
Definitive Study Duration: 22 weeks

7. **CONCLUSIONS:** This study is scientifically sound ~~but does not~~ and will meet the guideline requirements for an avian reproduction study using bobwhite quail. When compared to the control, there appeared to be no significant treatment related effects on any of the parameters measured at any concentrations tested (i.e., 100, 500, and 1000 ppm). ~~It is not stated whether the test was conducted with the highest dosage level at or above the maximum field residue level~~ (i.e., the 1.67 lb ai/A = highest application rate on label proposed at this time.

expected concentration on avian food items when treated at recommended label rates).

Results Synopsis

Most sensitive endpoints: None were affected

NOEC: 1000 ppm LOEC: >1000 ppm

8. ADEQUACY OF THE STUDY:

A. Classification: Supplemental

B. Rationale: None of the parameters were affected at any test concentrations; however, it is not stated whether the test was conducted with the highest dosage level at or above the maximum field residue level (i.e., the expected concentration on avian food items when treated at recommended label rates).

C. Repairability: Yes; if the expected maximum field residue level was 1000 ppm or lower.

9. GUIDELINE DEVIATIONS:

1. Neither the highest test concentration showed any significant effect nor the maximum field residue level was reported.

2. The ambient temperature of the study room was not reported.

3. The schedule for test diet preparation was not reported.

10. SUBMISSION PURPOSE:

11. MATERIALS AND METHODS:

A. Test Organisms

Guideline Criteria	Reported Information
Species A wild waterfowl species, preferably the mallard (*Anas platyrhynchos*), or an upland game species, preferably the northern bobwhite (*Colinus virginianus*)	Northern bobwhite (*Colinus virginianus*)

Guideline Criteria	Reported Information
Age at beginning of test Birds should be approaching their first breeding season.	About 9 months old; birds were approaching their first breeding season.
Supplier All birds should be from the same source.	Obtained from H. und E. Kuberich, Quail Breeding, Geesdorf, Germany
Were birds pen-reared?	Not reported
Were birds phenotypically indistinguishable from wild birds?	Yes
Health observation period 2 to 6 weeks.	About 1 month
Were birds healthy and without excessive mortality prior to the test?	Yes

B. **Test System**

Guideline Criteria	Reported Information
Were pens for adult birds of adequate size and designed to conform to good husbandry practices?	Yes
Were pens for chicks of adequate size and designed to conform to good husbandry practices?	Yes
Were pens constructed of a nonbinding material such as galvanized or stainless steel?	Yes
Was adequate ventilation provided?	Yes
Temperature Approx. 21°C (70°F)	Approx. 21 ±2°C
Relative humidity Approx. 55%	Approx. 50 - 60%

Guideline Criteria	Reported Information
Lighting First 8 weeks: 7 h per day. Thereafter: 16-17 h per day. At least 6 footcandles at bird level.	First 7 weeks: 7 h per day. Week 8-9: 14 h per day Thereafter: 17 h per day. Illumination: 4 - 15 footcandles.
Diet A commercial breeder feed (or its equivalent) that is appropriate for the test species.	Adults received quail diet manufactured by "Ssniff" "Department for Test Animal Diets", Soest, Germany. The diet contained: 28% Crude protein 4% Crude fat 3% Calcium 10% Crude ash Chicks received the same commercial feed as the adults minus the test compound.
Preparation of test diet A premixed containing the test substance should be mechanically mixed with basal diet. If an evaporative vehicle is used, it must be completely evaporated prior to feeding.	The test material was mixed with basal diet into a premix that was used for preparation of the final diet.
Was the premix stored under conditions which maintain stability?	Yes
Was the diet analyzed to verify homogeneity and stability of the test substance?	Yes
Replenishment of feed	The dates on which test diets were prepared were not reported. Feed and water were provided *ad libitum* for the adults and offspring.

C. Test Design

Guideline Criteria	Reported Information
Nominal concentrations At least two concentrations other than the control are required; three or more are strongly recommended. The highest test concentrations should show a significant effect or be at or above the maximum field residue level.	Nominal concentrations: Control, 100, 500, and 1000 ppm, not corrected for purity. Max. field residue level: Not reported.
Control Vehicle control.	Negative control
Vehicle Corn oil or other appropriate vehicle.	No vehicle was used.
Vehicle amount (% of diet by weight) Not more than 2%.	N/A
Number of birds per pen One male and 1 female per pen is strongly recommended. For quail, 1 male and 2 females may be acceptable. For ducks, 2 males and 5 females may be acceptable.	1 male and 1 female per pen
Number of pens per group At least 5 replicate pens are required for mallards housed in groups of 7. For other arrangements, at least 12 pens are required, but considerably more may be needed if birds are kept in pairs.	16 pens per group with 4 additional pens maintained in each group as replacement birds, if necessary, at the end of the pre-egg production period.
Pre-laying exposure duration At least 10 weeks prior to the onset of egg-laying.	10 weeks
Exposure duration with egg-laying At least 10 weeks.	12 weeks

Guideline Criteria	Reported Information
Withdrawal period If reduced reproduction is evident, a withdrawal period of up to 3 weeks may be added to the test phase.	N/A

D. **Egg Collection and Incubation**

Guideline Criteria	Reported Information
Were eggs collected daily?	Yes
Egg storage temperature Approximately 16°C (61°F)	16 ± 2°C
Egg storage humidity Approximately 65%	Approximately 65 - 90%
Were eggs set weekly?	Yes
Were eggs candled for cracks prior to being set for incubation on Day 0?	Yes
Candling for fertility Quail: approx. Day 11 Ducks: approx. Day 14	Eggs were candled on days 11 and 18.
Transfer of eggs to hatcher Bobwhite: Day 21 Mallard: Day 23	Eggs were transferred on Day 22.
Hatching temperature 39°C (102°F) is recommended	37.5 - 38.0°C
Hatching humidity 70% is recommended	Approximately 80 - 90%
Day after egg set that chicks were removed and counted Bobwhite: Day 24 Mallard: Day 27	Chicks that had hatched were removed and counted within 24 hours. All remaining unhatched eggs were classified as "dead-in-shell".

E. **Eggshell Thickness Measurement**

Guideline Criteria	Reported Information
Collection Schedule At least once every two weeks (Week 1, 3, 5, 7 and 9).	All eggs laid on one day of weeks 1, 3, 5, 7, 9, and 11 (egg production period) in each replicate were removed for eggshell thickness measurement.
Were shells opened, washed, and air dry for at least 48 hours before measuring?	Yes; shells air dried for at least 48 hours.
Measurement 3-4 measurements per eggs to the nearest 0.01 mm.	4 measurements to the nearest 0.01 mm.

12. **REPORTED RESULTS:**

Guideline Criteria	Reported Information
Quality assurance and GLP compliance statements were included in the report?	The study was conducted in accordance with the GLP-Provisions of the Chemicals ACT ("Bundesgesetzblatt Jahrgang 1994, Teil 1, 29.07.94) and with the OECD Principles of Good Laboratory Practice (Paris, 1981).
Did diet analysis verify the concentrations of test material?	Yes
Did diet analysis show that the test substance was stable and homogeneous?	Yes
Were body weights of adults reported for test initiation and biweekly up to week 8 or the onset of egg laying?	Yes
Was average food consumption of adults reported at least biweekly?	Yes

Guideline Criteria	Reported Information
Reproductive Endpoints The following endpoints should be reported: • Eggs laid • Eggs cracked • Eggs set • Viable embryos • Live 3-week embryos • Normal hatchlings • 14-day-old survivors • Weights of 14-day-old survivors • Egg shell thickness • Total food consumption • Initial and final body weights, by sex	All endpoints listed at left plus egg weight, early embryonic deaths, dead hatchlings in shell, and hatchling weight.
Were data reported by pen for all endpoints?	Yes

Significant Results: There were no treatment related mortalities or overt signs of toxicity at any test concentration (100, 500 and 1000 ppm). When compared to the control, there were no significant differences in adult bodyweight or feed consumption at any concentration. There were no significant treatment related reductions in any of the reproductive parameters measured at any test concentration when compared to the control.

13. VERIFIED STATISTICAL RESULTS:

Means of Endpoints

Endpoint	Control	100 ppm	500 ppm	1000 ppm
Eggs laid (EL)	40 (21)	43 (17)	47 (13)	40 (17)
Eggs cracked (EC)	0.9 (1.2)	1.1 (1.2)	1.1 (1.6)	0.8 (0.8)
Eggs set (ES)	37 (19)	39 (16)	43 (12)	36 (16)
Viable embryos (VE)	33 (18)	35 (14)	34 (13)	31 (16)
Live 3-wk embryos (LE)	32 (17)	35 (14)	33 (13)	31 (15)
Normal hatchlings (NH)	25 (15)	25 (12)	26 (11)	26 (15)
14-day-old survivors (HS)	22 (14)	22 (11)	23 (11)	23 (15)
Egg shell thickness (THICK)	0.196 (0.009)	0.201 (0.010)	0.204 (0.009)	0.197 (0.012)
Hatchling weight (HATWT)	6.3 (0.4)	6.5 (0.5)	6.3 (0.6)	6.6 (0.3)
14-day-old survivor weight (SURVWT)	24.0 (3.8)	25.3 (2.9)	24.4 (1.8)	24.5 (2.6)
Mean food consumption (FOOD)	19.4 (1.9)	20.0 (1.2)	20.0 (1.2)	19.8 (1.0)
Final weight of males (POSTM)	202 (15)	206 (11)	203 (12)	199 (12)
Final weight of females (POSTF)	225 (20)	229 (9)	228 (10)	222 (16)

Statistically Significant Endpoints: No statistically significant effects were observed.

14. **REVIEWER'S COMMENTS:** When compared to the control, there were no treatment related effects on any of the parameters measured at any concentration tested (i.e., 100, 500, and 1000 ppm). The author noted that highest concentration tested was selected based on the "EPA's contemporarily recommended "upper limit" concentration of 1,000 mg/kg." However, it is unclear if the highest dosage level (1000 ppm) was at or above the maximum expected field residue level. This study will be classified as **Supplemental** pending the registrant's response.

OBS	LEVEL	EL	EC	ES	VE	LE	NH	HS	THICK	HATWT
1	CONTROL	57	0	53	47	47	40	38	0.203	6.43
2	CONTROL	68	0	63	63	60	53	53	0.184	7.04
3	CONTROL	5	0	5	0	0	0	0	.	.
4	CONTROL	24	0	23	22	22	21	21	0.200	6.80
5	CONTROL	7	1	6	3	3	2	1	.	6.00
6	CONTROL	57	0	54	52	52	45	38	0.203	6.66
7	CONTROL	46	4	41	32	32	23	21	0.190	6.27
8	CONTROL	30	1	26	26	26	25	22	0.177	5.84
9	CONTROL	46	0	46	37	37	26	19	.	6.34
10	CONTROL	71	1	65	55	53	38	33	0.198	6.34
11	CONTROL	48	1	46	40	40	24	19	0.200	5.92
12	CONTROL	33	2	29	28	28	24	22	0.200	6.23
13	CONTROL	64	3	57	40	39	15	13	0.203	6.28
14	CONTROL	42	0	38	38	38	35	32	0.200	6.17
15	CONTROL	31	0	28	28	28	22	20	0.203	6.93
16	CONTROL	17	2	13	12	12	8	4	0.185	5.73
17	TRT1	47	0	45	36	34	27	21	0.190	6.69
18	TRT1	63	3	56	56	55	40	38	0.195	6.51
19	TRT1	28	1	24	19	19	12	11	0.207	6.91
20	TRT1	57	1	51	50	50	44	39	0.204	6.99
21	TRT1	53	3	48	41	41	25	23	0.200	5.88
22	TRT1	52	2	46	37	37	35	35	0.195	6.87
23	TRT1	60	1	56	46	46	35	28	0.203	6.25
24	TRT1	57	0	54	41	41	25	23	0.180	6.75
25	TRT1	21	0	21	21	21	19	18	.	7.01
26	TRT1	40	0	39	39	39	38	38	0.200	6.65
27	TRT1	1	0	1	0	0	0	0	.	.
28	TRT1	26	0	24	22	22	21	20	0.210	6.59
29	TRT1	33	1	31	28	27	21	20	0.210	6.06
30	TRT1	53	0	51	46	45	14	9	0.210	5.60

OBS	SURVWT	FOOD	PREM	POSTM	PREF	POSTF
1	26.7	19.5	182.5	181.8	175.8	218.2
2	30.9	19.8	202.9	212.0	187.6	237.7
3	.	19.9	185.6	193.4	190.1	231.3
4	25.1	16.5	189.5	182.2	186.8	214.3
5	14.5	17.1	202.4	192.7	192.2	202.7
6	24.3	23.8	181.5	214.3	195.6	230.5
7	23.9	19.4	214.6	205.2	207.1	242.9
8	26.4	17.8	195.9	206.2	184.0	209.7
9	24.4	21.5	209.1	219.8	203.9	258.3
10	24.4	22.2	204.3	215.3	199.7	245.3
11	20.5	19.6	219.9	230.0	210.0	240.4
12	27.1	18.7	196.0	193.9	192.5	185.3
13	23.0	19.7	195.3	199.6	192.1	246.0
14	22.9	17.7	182.0	181.8	186.2	231.0
15	26.0	19.1	189.5	214.8	183.0	204.6
16	19.5	17.4	186.5	195.8	177.8	205.7
17	24.8	19.5	190.7	192.2	185.4	218.8
18	26.1	20.1	195.9	230.4	197.9	233.5
19	31.6	21.5	203.6	209.8	198.2	226.6
20	29.8	19.4	187.6	193.0	184.3	219.6
21	20.5	20.9	207.2	194.5	203.4	238.4
22	26.0	19.7	207.6	214.0	196.3	230.4
23	26.5	19.4	223.0	215.2	211.4	255.4
24	26.1	19.2	193.9	200.9	197.8	232.4
25	25.0	20.0	207.3	206.4	201.9	231.2
26	26.7	18.0	200.2	213.1	198.3	235.5
27	.	17.9	209.9	215.4	206.0	220.8
28	26.1	21.2	188.3	193.7	186.8	221.8
29	22.5	22.4	194.4	203.3	176.6	220.1
30	23.2	20.5	194.6	200.0	188.2	221.9

OBS	LEVEL	EL	EC	ES	VE	LE	NH	HS	THICK	HATWT
31	TRT1	53	3	47	40	40	24	20	0.213	6.22
32	TRT1	41	2	37	35	35	16	10	0.190	5.80
33	TRT2	49	1	44	29	28	25	25	0.195	6.66
34	TRT2	29	0	28	25	25	15	13	0.200	6.61
35	TRT2	55	1	50	49	49	39	30	0.203	5.90
36	TRT2	53	0	52	25	24	19	16	0.200	7.16
37	TRT2	57	0	53	39	38	31	30	0.218	6.03
38	TRT2	55	1	50	30	30	19	17	0.195	6.19
39	TRT2	48	1	45	26	25	12	12	0.205	6.45
40	TRT2	54	0	50	48	48	38	33	0.223	6.15
41	TRT2	59	6	48	43	43	36	31	0.200	6.56
42	TRT2	53	1	49	43	43	29	24	0.213	6.93
43	TRT2	48	0	45	27	27	21	20	0.207	6.54
44	TRT2	36	1	33	17	17	16	16	0.200	6.04
45	TRT2	9	1	7	6	6	5	0	0.190	5.18
46	TRT2	40	4	33	31	31	29	29	0.203	7.41
47	TRT2	59	0	55	54	53	49	45	0.203	6.21
48	TRT2	52	1	48	48	48	30	22	0.210	5.57
49	TRT3	26	2	23	21	21	19	17	0.190	6.53
50	TRT3	31	0	29	27	27	24	20	0.205	6.94
51	TRT3	24	1	21	19	19	14	12	0.190	6.59
52	TRT3	57	0	53	48	48	46	43	0.200	6.75
53	TRT3	59	1	56	52	52	42	41	0.190	6.82
54	TRT3	41	0	37	27	27	19	10	0.195	6.09
55	TRT3	28	1	25	24	24	20	12	0.195	5.75
56	TRT3	70	2	62	59	59	54	52	0.190	7.08
57	TRT3	49	1	45	28	28	12	10	0.193	6.78
58	TRT3	32	0	31	22	22	20	18	0.210	6.70
59	TRT3	36	0	34	34	34	33	25	0.190	6.46
60	TRT3	31	1	29	23	23	23	18	0.210	6.34

OBS	SURVWT	FOOD	PREM	POSTM	PREF	POSTF
31	22.3	19.4	197.8	213.9	186.3	227.5
32	23.1	20.8	183.6	202.3	189.4	232.7
33	25.1	19.6	197.1	201.1	196.1	225.7
34	25.2	20.8	196.1	231.1	187.2	228.8
35	20.8	17.6	183.1	180.4	180.0	216.3
36	25.5	19.3	198.0	192.4	188.1	227.2
37	23.6	19.7	201.0	202.5	195.3	242.8
38	26.1	21.3	197.7	213.0	205.9	220.9
39	24.2	19.9	222.4	212.2	202.0	231.0
40	23.4	18.6	192.3	187.1	194.3	228.6
41	23.4	19.2	200.3	211.2	201.3	246.7
42	24.0	19.8	206.4	202.0	192.1	231.2
43	26.4	21.7	209.9	206.5	201.7	243.2
44	26.2	19.4	189.6	197.6	194.9	226.1
45	.	22.4	194.9	210.9	190.2	230.1
46	27.5	19.2	196.3	211.7	192.5	215.8
47	22.7	20.0	186.6	201.0	187.1	212.8
48	22.6	20.7	181.5	190.1	186.6	225.0
49	26.7	20.6	192.7	187.8	186.5	203.2
50	25.5	19.6	204.5	197.7	197.8	227.2
51	23.3	18.8	204.7	205.1	198.4	239.3
52	26.1	20.1	182.9	183.4	186.2	227.2
53	22.2	18.5	183.9	186.1	184.1	223.5
54	20.8	21.6	199.9	216.4	185.7	231.4
55	27.1	21.6	208.8	206.5	198.4	216.3
56	28.4	18.8	205.8	208.5	196.4	235.4
57	23.1	19.7	224.8	218.8	209.9	237.0
58	25.5	18.6	191.1	189.6	190.1	208.9
59	21.5	18.5	201.5	206.5	195.9	191.7
60	22.7	21.0	198.3	185.2	189.3	228.1

OBS	LEVEL	EL	EC	ES	VE	LE	NH	HS	THICK	HATWT
61	TRT3	53	2	48	44	43	39	38	0.183	6.78
62	TRT3	57	1	52	50	49	42	37	0.185	6.69
63	TRT3	0	0	0	0	0	0	0	.	.
64	TRT3	39	1	37	19	18	16	15	0.230	6.44

OBS	SURVWT	FOOD	PREM	POSTM	PREF	POSTF
61	26.1	20.0	209.6	206.5	204.8	243.9
62	27.4	20.3	197.0	192.6	189.0	226.0
63	.	19.3	186.2	187.8	187.3	206.6
64	20.6	19.6	180.8	207.8	176.5	198.4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10:48 Wednesday, June 24, 1998

LEVEL

	CONTROL MEAN	TRT1 MEAN	TRT2 MEAN	TRT3 MEAN
EL	40.38	42.81	47.25	39.56
EC	0.94	1.06	1.13	0.81
ES	37.06	39.44	43.13	36.38
VE	32.69	34.81	33.75	31.06
LE	32.31	34.50	33.44	30.88
NH	25.06	24.75	25.81	26.44
HS	22.25	22.06	22.69	23.00
ES/EL (%)	91.21	92.86	90.66	91.93
(EL-EC)/EL (%)	96.73	97.82	97.15	97.78
VE/ES (%)	82.48	83.31	78.46	84.94
LE/VE (%)	99.27	99.13	99.02	99.36
NH/EL (%)	58.38	56.14	54.16	66.45
NH/ES (%)	64.27	60.60	60.27	72.34
NH/LE (%)	76.91	72.93	77.19	84.73
HS/ES (%)	55.53	54.48	49.96	61.33
HS/NH (%)	83.90	87.49	84.39	84.35
THICK	0.20	0.20	0.20	0.20
HATWT	6.33	6.45	6.35	6.58
SURVWT	23.97	25.35	24.45	24.47
FOOD	19.36	19.99	19.95	19.79
POSTM	202.43	206.13	203.18	199.14
POSTF	225.24	229.16	228.26	221.51

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE

10:48 Wednesday, June 24, 1998

LEVEL=CONTROL

Variable	Label	N	Mean	Std Dev	CV
EL		16	40.375	20.601	51.023
EC		16	0.938	1.237	131.903
ES		16	37.063	19.334	52.165
VE		16	32.688	17.757	54.322
LE		16	32.313	17.235	53.337
NH		16	25.063	14.726	58.758
HS		16	22.250	14.252	64.056
THICK		13	0.196	0.009	4.485
HATWT		15	6.332	0.389	6.150
SURVWT		15	23.973	3.788	15.799
FOOD		16	19.356	1.930	9.970
PREM		16	196.094	11.883	6.060
POSTM		16	202.425	14.597	7.211
PREF		16	191.525	9.850	5.143
POSTF		16	225.244	20.071	8.911
ES_EL	ES/EL (%)	16	91.207	5.799	6.359
NH_EL	NH/EL (%)	16	58.377	24.787	42.460
EC_EL	(EL-EC)/EL (%)	16	96.730	4.642	4.798
VE_ES	VE/ES (%)	16	82.482	25.798	31.277
NH_ES	NH/ES (%)	16	64.267	26.826	41.741
HS_ES	HS/ES (%)	16	55.529	27.854	50.162
LE_VE	LE/VE (%)	15	99.273	1.564	1.575
NH_LE	NH/LE (%)	15	76.908	15.553	20.223
HS_NH	HS/NH (%)	15	83.900	15.432	18.393

LEVEL=TRT1

Variable	Label	N	Mean	Std Dev	CV
EL		16	42.813	17.034	39.788
EC		16	1.063	1.181	111.196
ES		16	39.438	15.500	39.304
VE		16	34.813	13.953	40.081
LE		16	34.500	13.832	40.094
NH		16	24.750	11.613	46.922
HS		16	22.063	11.416	51.745
THICK		14	0.201	0.010	4.771
HATWT		15	6.452	0.457	7.077
SURVWT		15	25.353	2.868	11.313
FOOD		16	19.994	1.201	6.006
PREM		16	199.100	10.183	5.115
POSTM		16	206.131	10.600	5.142
PREF		16	194.263	9.325	4.800
POSTF		16	229.163	9.411	4.107
ES_EL	ES/EL (%)	16	92.863	4.286	4.616
NH_EL	NH/EL (%)	16	56.141	24.268	43.227
EC_EL	(EL-EC)/EL (%)	16	97.823	2.270	2.321
VE_ES	VE/ES (%)	16	83.313	23.646	28.382
NH_ES	NH/ES (%)	16	60.599	25.295	41.741
HS_ES	HS/ES (%)	16	54.478	26.387	48.436
LE_VE	LE/VE (%)	15	99.128	1.693	1.708
NH_LE	NH/LE (%)	15	72.927	19.320	26.493
HS_NH	HS/NH (%)	15	87.494	11.748	13.427

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10:48 Wednesday, June 24, 1998

LEVEL=TRT2

Variable	Label	N	Mean	Std Dev	CV
EL		16	47.250	13.178	27.891
EC		16	1.125	1.628	144.701
ES		16	43.125	12.350	28.637
VE		16	33.750	13.168	39.017
LE		16	33.438	13.155	39.343
NH		16	25.813	11.496	44.537
HS		16	22.688	10.581	46.639
THICK		16	0.204	0.009	4.214
HATWT		16	6.349	0.568	8.940
SURVWT		15	24.447	1.772	7.250
FOOD		16	19.950	1.199	6.012
PREM		16	197.075	10.173	5.162
POSTM		16	203.175	12.306	6.057
PREF		16	193.456	6.929	3.582
POSTF		16	228.263	9.692	4.246
ES_EL	ES/EL (%)	16	90.665	5.489	6.054
NH_EL	NH/EL (%)	16	54.158	15.416	28.466
EC_EL	(EL-EC)/EL (%)	16	97.148	3.889	4.003
VE_ES	VE/ES (%)	16	78.458	18.442	23.506
NH_ES	NH/ES (%)	16	60.270	18.393	30.518
HS_ES	HS/ES (%)	16	49.957	21.355	42.747
LE_VE	LE/VE (%)	16	99.018	1.576	1.592
NH_LE	NH/LE (%)	16	77.188	13.410	17.373
HS_NH	HS/NH (%)	16	84.386	24.005	28.447

---------- LEVEL=TRT3 ----------

Variable	Label	N	Mean	Std Dev	CV
EL		16	39.563	17.370	43.906
EC		16	0.813	0.750	92.308
ES		16	36.375	15.882	43.663
VE		16	31.063	15.571	50.129
LE		16	30.875	15.491	50.175
NH		16	26.438	14.629	55.333
HS		16	23.000	14.738	64.077
THICK		15	0.197	0.012	6.228
HATWT		15	6.583	0.338	5.129
SURVWT		15	24.467	2.566	10.486
FOOD		16	19.788	1.036	5.235
PREM		16	198.281	11.749	5.926
POSTM		16	199.144	11.691	5.871
PREF		16	192.269	8.491	4.416
POSTF		16	221.506	15.593	7.040
ES_EL	ES/EL (%)	15	91.925	2.801	3.047
NH_EL	NH/EL (%)	15	66.452	17.364	26.130
EC_EL	(EL-EC)/EL (%)	15	97.777	2.149	2.198
VE_ES	VE/ES (%)	15	84.941	14.321	16.860
NH_ES	NH/ES (%)	15	72.339	18.866	26.080
HS_ES	HS/ES (%)	15	61.334	19.210	31.320
LE_VE	LE/VE (%)	15	99.364	1.483	1.493
NH_LE	NH/LE (%)	15	84.734	14.133	16.679
HS_NH	HS/NH (%)	15	84.345	13.223	15.677

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
1. ANALYSIS OF EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
1. ANALYSIS OF EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
1. ANALYSIS OF EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: EL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	572.87500	190.95833	0.64	0.5911
Error	60	17849.12500	297.48542		
Corrected Total	63	18422.00000			

R-Square	C.V.	Root MSE	EL Mean
0.031097	40.58298	17.248	42.500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	572.87500	190.95833	0.64	0.5911

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
1. ANALYSIS OF EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	EL LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	40.375000	1	.	0.6908	0.2641	0.8944
TRT1	42.812500	2	0.6908	.	0.4696	0.5960
TRT2	47.250000	3	0.2641	0.4696	.	0.2123
TRT3	39.562500	4	0.8944	0.5960	0.2123	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
1. ANALYSIS OF EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: EL

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 297.4854
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 16.114

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - TRT1	-11.677	4.438	20.552
TRT2 - CONTRDL	-9.239	6.875	22.989
TRT2 - TRT3	-8.427	7.688	23.802
TRT1 - TRT2	-20.552	-4.438	11.677
TRT1 - CONTROL	-13.677	2.438	18.552
TRT1 - TRT3	-12.864	3.250	19.364
CONTROL - TRT2	-22.989	-6.875	9.239
CONTRDL - TRT1	-18.552	-2.438	13.677
CONTROL - TRT3	-15.302	0.813	16.927
TRT3 - TRT2	-23.802	-7.688	8.427
TRT3 - TRT1	-19.364	-3.250	12.864
TRT3 - CONTROL	-16.927	-0.813	15.302

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
1. ANALYSIS OF EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: EL

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 297.4854
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 12.83

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - CONTROL	-5.955	6.875	19.705
TRT1 - CONTROL	-10.392	2.438	15.267
TRT3 - CONTROL	-13.642	-0.813	12.017

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE

2. ANALYSIS OF EGGS CRACKED
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2. ANALYSIS OF EGGS CRACKED
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTRDL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2. ANALYSIS OF EGGS CRACKED
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: EC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.9218750	0.3072917	0.20	0.8958
Error	60	92.0625000	1.5343750		
Corrected Total	63	92.9843750			

R-Square	C.V.	Root MSE	EC Mean
0.009914	125.8361	1.2387	0.9844

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	0.9218750	0.3072917	0.20	0.8958

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2. ANALYSIS OF EGGS CRACKED
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL EC Pr > |T| HO: LSMEAN(i)=LSMEAN(j)

	LSMEAN	i/j	1	2	3	4
CONTROL	0.93750000	1	.	0.7763	0.6701	0.7763
TRT1	1.06250000	2	0.7763	.	0.8870	0.5702
TRT2	1.12500000	3	0.6701	0.8870	.	0.4783
TRT3	0.81250000	4	0.7763	0.5702	0.4783	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2. ANALYSIS OF EGGS CRACKED
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: EC

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 1.534375
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 1.1573

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - TRT1	-1.0948	0.0625	1.2198
TRT2 - CONTROL	-0.9698	0.1875	1.3448
TRT2 - TRT3	-0.8448	0.3125	1.4698
TRT1 - TRT2	-1.2198	-0.0625	1.0948
TRT1 - CONTROL	-1.0323	0.1250	1.2823
TRT1 - TRT3	-0.9073	0.2500	1.4073
CONTROL - TRT2	-1.3448	-0.1875	0.969B
CONTROL - TRT1	-1.2823	-0.1250	1.0323
CONTROL - TRT3	-1.0323	0.1250	1.2823
TRT3 - TRT2	-1.4698	-0.3125	0.8448
TRT3 - TRT1	-1.4073	-0.2500	0.9073
TRT3 - CONTROL	-1.2823	-0.1250	1.0323

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2. ANALYSIS OF EGGS CRACKED
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's Dne-tailed T tests for variable: EC

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 1.534375
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 0.9214

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - CONTROL	-0.7339	0.1875	1.1089
TRT1 - CONTROL	-0.7964	0.1250	1.0464
TRT3 - CONTROL	-1.0464	-0.1250	0.7964

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
3. ANALYSIS OF EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
3. ANALYSIS OF EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIDNE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
3. ANALYSIS OF EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: ES

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	445.62500	148.54167	0.58	0.6283
Error	60	15282.37500	254.70625		
Corrected Total	63	15728.00000			

R-Square	C.V.	Root MSE	ES Mean
0.028333	40.92184	15.960	39.000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	445.62500	148.54167	0.58	0.6283

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
3. ANALYSIS OF EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	ES LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	37.0625000	1	.	0.6753	0.2869	0.9034
TRT1	39.4375000	2	0.6753	.	0.5159	0.5893
TRT2	43.1250000	3	0.2869	0.5159	.	0.2363
TRT3	36.3750000	4	0.9034	0.5893	0.2363	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
3. ANALYSIS OF EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: ES

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 254.7063
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 14.911

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - TRT1	-11.223	3.688	18.598
TRT2 - CONTRDL	-8.848	6.063	20.973
TRT2 - TRT3	-8.161	6.750	21.661
TRT1 - TRT2	-18.598	-3.688	11.223
TRT1 - CONTROL	-12.536	2.375	17.286
TRT1 - TRT3	-11.848	3.063	17.973
CONTROL - TRT2	-20.973	-6.063	8.848
CONTROL - TRT1	-17.286	-2.375	12.536
CONTROL - TRT3	-14.223	0.688	15.598
TRT3 - TRT2	-21.661	-6.750	8.161
TRT3 - TRT1	-17.973	-3.063	11.848
TRT3 - CONTROL	-15.598	-0.688	14.223

PRDHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
3. ANALYSIS OF EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: ES

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 254.7063
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 11.871

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - CONTROL	-5.809	6.063	17.934
TRT1 - CONTROL	-9.496	2.375	14.246
TRT3 - CONTROL	-12.559	-0.688	11.184

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
4. ANALYSIS DF VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTRDL TRT1 TRT2 TRT3

Number of observations in data set = 64

PRDHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
4. ANALYSIS OF VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRD. STUDY WITH THE BOBWHITE
4. ANALYSIS OF VIABLE EMBRYDS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: VE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	122.79688	40.93229	0.18	0.9117
Error	60	13887.81250	231.46354		
Corrected Total	63	14010.60938			

R-Square	C.V.	Root MSE	VE Mean
0.008765	45.99392	15.214	33.078

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	122.79688	40.93229	0.18	0.9117

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
4. ANALYSIS OF VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	VE LSMEAN	Pr > |T| HD: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	32.6875000	1	.	0.6942	0.8441	0.7636
TRT1	34.8125000	2	0.6942	.	0.8441	0.4884
TRT2	33.7500000	3	0.8441	0.8441	.	0.6192
TRT3	31.0625000	4	0.7636	0.4884	0.6192	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
4. ANALYSIS OF VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: VE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 231.4635
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 14.214

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT2	-13.151	1.063	15.276
TRT1 - CONTROL	-12.089	2.125	16.339
TRT1 - TRT3	-10.464	3.750	17.964
TRT2 - TRT1	-15.276	-1.063	13.151
TRT2 - CONTROL	-13.151	1.063	15.276
TRT2 - TRT3	-11.526	2.688	16.901
CONTROL - TRT1	-16.339	-2.125	12.089
CONTROL - TRT2	-15.276	-1.063	13.151
CONTROL - TRT3	-12.589	1.625	15.839
TRT3 - TRT1	-17.964	-3.750	10.464
TRT3 - TRT2	-16.901	-2.688	11.526
TRT3 - CONTROL	-15.839	-1.625	12.589

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
4. ANALYSIS OF VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: VE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 231.4635
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 11.317

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-9.192	2.125	13.442
TRT2 - CONTROL	-10.254	1.063	12.379
TRT3 - CONTROL	-12.942	-1.625	9.692

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
5. ANALYSIS OF LIVE 3-WEEK EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
5. ANALYSIS OF LIVE 3-WEEK EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
5. ANALYSIS OF LIVE 3-WEEK EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: LE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	115.81250	38.60417	0.17	0.9154
Error	60	13521.12500	225.35208		
Corrected Total	63	13636.93750			

R-Square	C.V.	Root MSE	LE Mean
0.008493	45.79365	15.012	32.781

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	115.81250	38.60417	0.17	0.9154

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
5. ANALYSIS OF LIVE 3-WEEK EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	LE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	32.3125000	1	.	0.6817	0.8329	0.7874
TRT1	34.5000000	2	0.6817	.	0.8420	0.4972
TRT2	33.4375000	3	0.8329	0.8420	.	0.6310
TRT3	30.8750000	4	0.7874	0.4972	0.6310	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
5. ANALYSIS OF LIVE 3-WEEK EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: LE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 225.3521
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 14.025

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1	- TRT2	-12.963	1.063	15.088
TRT1	- CONTROL	-11.838	2.188	16.213
TRT1	- TRT3	-10.400	3.625	17.650
TRT2	- TRT1	-15.088	-1.063	12.963
TRT2	- CONTROL	-12.900	1.125	15.150
TRT2	- TRT3	-11.463	2.563	16.588
CONTROL	- TRT1	-16.213	-2.188	11.838
CONTROL	- TRT2	-15.150	-1.125	12.900
CONTROL	- TRT3	-12.588	1.438	15.463
TRT3	- TRT1	-17.650	-3.625	10.400
TRT3	- TRT2	-16.588	-2.563	11.463
TRT3	- CONTROL	-15.463	-1.438	12.588

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
5. ANALYSIS OF LIVE 3-WEEK EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: LE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 225.3521
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 11.166

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1	- CONTROL	-8.979	2.188	13.354
TRT2	- CONTROL	-10.041	1.125	12.291
TRT3	- CONTROL	-12.604	-1.438	9.729

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
6. ANALYSIS OF NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
6. ANALYSIS OF NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3

```
TRT2      L4
TRT3      -L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
6. ANALYSIS OF NORMAL HATCHLINGS
********************************
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: NH
```

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	27.671875	9.223958	0.05	0.9838
Error	60	10468.31250	174.471875		
Corrected Total	63	10495.98438			

R-Square	C.V.	Root MSE	NH Mean
0.002636	51.76742	13.209	25.516

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	27.671875	9.223958	0.05	0.9838

```
PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
6. ANALYSIS OF NORMAL HATCHLINGS
********************************
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means
```

LEVEL	NH LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	25.0625000	1	.	0.9469	0.8729	0.7694
TRT1	24.7500000	2	0.9469	.	0.8208	0.7191
TRT2	25.8125000	3	0.8729	0.8208	.	0.8940
TRT3	26.4375000	4	0.7694	0.7191	0.8940	.

```
NOTE: To ensure overall protection level, only probabilities associated
      with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
6. ANALYSIS OF NORMAL HATCHLINGS
********************************
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: NH

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05  Confidence= 0.95  df= 60  MSE= 174.4719
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 12.341

Comparisons significant at the 0.05 level are indicated by '***'.
```

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - TRT2	-11.716	0.625	12.966
TRT3 - CONTROL	-10.966	1.375	13.716
TRT3 - TRT1	-10.653	1.688	14.028
TRT2 - TRT3	-12.966	-0.625	11.716
TRT2 - CONTROL	-11.591	0.750	13.091
TRT2 - TRT1	-11.278	1.063	13.403
CONTROL - TRT3	-13.716	-1.375	10.966
CONTROL - TRT2	-13.091	-0.750	11.591
CONTROL - TRT1	-12.028	0.313	12.653
TRT1 - TRT3	-14.028	-1.688	10.653
TRT1 - TRT2	-13.403	-1.063	11.278
TRT1 - CONTROL	-12.653	-0.313	12.028


```
PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
6. ANALYSIS OF NORMAL HATCHLINGS
********************************
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: NH

NOTE: This tests controls the type I experimentwise error for
      comparisons of all treatments against a control.

Alpha= 0.05  Confidence= 0.95  df= 60  MSE= 174.4719
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 9.8253

Comparisons significant at the 0.05 level are indicated by '***'.
```

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-8.450	1.375	11.200
TRT2 - CONTROL	-9.075	0.750	10.575
TRT1 - CONTROL	-10.138	-0.313	9.513

```
PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
7. ANALYSIS OF 14-DAY-OLD SURVIVORS
************************************
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class    Levels    Values

LEVEL       4      CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
7. ANALYSIS OF 14-DAY-OLD SURVIVORS
************************************
10:48 Wednesday, June 24, 1998
```

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
7. ANALYSIS OF 14-DAY-OLD SURVIVORS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: HS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	8.6250000	2.8750000	0.02	0.9969
Error	60	9939.375000	165.6562500		
Corrected Total	63	9948.000000			

R-Square	C.V.	Root MSE	HS Mean
0.000867	57.20334	12.871	22.500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	8.6250000	2.8750000	0.02	0.9969

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
7. ANALYSIS OF 14-DAY-OLD SURVIVORS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	HS LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	22.2500000	1	.	0.9673	0.9237	0.8696
TRT1	22.0625000	2	0.9673	.	0.8912	0.8375
TRT2	22.6875000	3	0.9237	0.8912	.	0.9455
TRT3	23.0000000	4	0.8696	0.8375	0.9455	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
7. ANALYSIS OF 14-DAY-OLD SURVIVORS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: HS

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 165.6563
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 12.025

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - TRT2	-11.7123	0.3125	12.3373
TRT3 - CONTROL	-11.2748	0.7500	12.7748
TRT3 - TRT1	-11.0873	0.9375	12.9623
TRT2 - TRT3	-12.3373	-0.3125	11.7123
TRT2 - CONTROL	-11.5873	0.4375	12.4623
TRT2 - TRT1	-11.3998	0.6250	12.6498
CONTROL - TRT3	-12.7748	-0.7500	11.2748
CONTROL - TRT2	-12.4623	-0.4375	11.5873
CONTROL - TRT1	-11.8373	0.1875	12.2123
TRT1 - TRT3	-12.9623	-0.9375	11.0873
TRT1 - TRT2	-12.6498	-0.6250	11.3998
TRT1 - CONTROL	-12.2123	-0.1875	11.8373

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
7. ANALYSIS OF 14-DAY-OLD SURVIVORS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: HS

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 165.6563
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 9.5739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-8.8239	0.7500	10.3239
TRT2 - CONTROL	-9.1364	0.4375	10.0114
TRT1 - CONTROL	-9.7614	-0.1875	9.3864

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
8. ANALYSIS OF EGGS SET/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values

LEVEL 4 CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 63 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
8. ANALYSIS DF EGGS SET/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
8. ANALYSIS OF EGGS SET/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	74.952420	24.984140	0.73	0.5405
Error	59	2030.207199	34.410292		
Corrected Total	62	2105.159619			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.035604	7.913877	5.8660	74.123

Source	OF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	74.952420	24.984140	0.73	0.5405

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BDBWHITE
8. ANALYSIS OF EGGS SET/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	74.1893687	1	.	0.4456	0.5045	0.8169
TRT1	75.7819226	2	0.4456	.	0.1553	0.3272
TRT2	72.7965378	3	0.5045	0.1553	.	0.6702
TRT3	73.6989299	4	0.8169	0.3272	0.6702	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
8. ANALYSIS OF EGGS SET/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 34.41029
Critical Value of Studentized Range= 3.739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-3.891	1.593	7.076
TRT1 - TRT3	-3.491	2.083	7.657
TRT1 - TRT2	-2.498	2.985	8.468
CONTROL - TRT1	-7.076	-1.593	3.891
CONTROL - TRT3	-5.083	0.490	6.064
CONTROL - TRT2	-4.090	1.393	6.876
TRT3 - TRT1	-7.657	-2.083	3.491
TRT3 - CONTROL	-6.064	-0.490	5.083
TRT3 - TRT2	-4.671	0.902	6.476
TRT2 - TRT1	-8.468	-2.985	2.498
TRT2 - CONTROL	-6.876	-1.393	4.090
TRT2 - TRT3	-6.476	-0.902	4.671

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
8. ANALYSIS OF EGGS SET/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 34.41029
Critical Value of Dunnett's T= 2.106

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-2.775	1.593	5.960
TRT3 - CONTROL	-4.930	-0.490	3.949
TRT2 - CONTROL	-5.760	-1.393	2.975

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
9. ANALYSIS OF VIABLE EMBRYOS/EGGS SETS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 63 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
9. ANALYSIS OF VIABLE EMBRYOS/EGGS SETS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
9. ANALYSIS OF VIABLE EMBRYOS/EGGS SETS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	181.39820	60.46607	0.19	0.9061
Error	59	19270.56141	326.61968		
Corrected Total	62	19451.95960			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.009325	26.59850	18.073	67.946

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	181.39820	60.46607	0.19	0.9061

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
9. ANALYSIS OF VIABLE EMBRYOS/EGGS SETS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	68.9626746	1	.	0.9379	0.5466	0.9516
TRT1	68.4630269	2	0.9379	.	0.5994	0.8908
TRT2	65.0882937	3	0.5466	0.5994	.	0.5135
TRT3	69.3583109	4	0.9516	0.8908	0.5135	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
9. ANALYSIS OF VIABLE EMBRYOS/EGGS SETS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 326.6197
Critical Value of Studentized Range= 3.739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-16.776	0.396	17.568
TRT3 - TRT1	-16.277	0.895	18.067
TRT3 - TRT2	-12.902	4.270	21.442
CONTROL - TRT3	-17.568	-0.396	16.776
CONTROL - TRT1	-16.393	0.500	17.393
CONTROL - TRT2	-13.018	3.874	20.767
TRT1 - TRT3	-18.067	-0.895	16.277
TRT1 - CONTROL	-17.393	-0.500	16.393
TRT1 - TRT2	-13.518	3.375	20.268
TRT2 - TRT3	-21.442	-4.270	12.902
TRT2 - CONTROL	-20.767	-3.874	13.018
TRT2 - TRT1	-20.268	-3.375	13.518

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
9. ANALYSIS OF VIABLE EMBRYOS/EGGS SETS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 326.6197
Critical Value of Dunnett's T= 2.106

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3	- CONTROL	-13.283	0.396	14.074
TRT1	- CONTROL	-13.956	-0.500	12.957
TRT2	- CONTROL	-17.331	-3.874	9.582

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10. ANALYSIS OF LIVE 3-WEEK EMBRYOS/VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 61 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10. ANALYSIS OF LIVE 3-WEEK EMBRYOS/VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10. ANALYSIS OF LIVE 3-WEEK EMBRYOS/VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	12.854968	4.284989	0.20	0.8974
Error	57	1233.884948	21.647104		
Corrected Total	60	1246.739916			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.010311	5.320971	4.6526	87.440

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	12.854968	4.284989	0.20	0.8974

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10. ANALYSIS OF LIVE 3-WEEK EMBRYOS/VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	87.7849986	1	.	0.7551	0.5596	0.9181
TRT1	87.2525760	2	0.7551	.	0.7893	0.6785
TRT2	86.8035531	3	0.5596	0.7893	.	0.4919
TRT3	87.9603627	4	0.9181	0.6785	0.4919	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10. ANALYSIS OF LIVE 3-WEEK EMBRYOS/VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 21.6471
Critical Value of Studentized Range= 3.743

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3	- CONTROL	-4.321	0.175	4.671
TRT3	- TRT1	-3.788	0.708	5.204
TRT3	- TRT2	-3.268	1.157	5.582
CONTROL	- TRT3	-4.671	-0.175	4.321
CONTROL	- TRT1	-3.964	0.532	5.029
CONTROL	- TRT2	-3.444	0.981	5.407
TRT1	- TRT3	-5.204	-0.708	3.788
TRT1	- CONTROL	-5.029	-0.532	3.964
TRT1	- TRT2	-3.976	0.449	4.874
TRT2	- TRT3	-5.582	-1.157	3.268
TRT2	- CONTROL	-5.407	-0.981	3.444
TRT2	- TRT1	-4.874	-0.449	3.976

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
10. ANALYSIS OF LIVE 3-WEEK EMBRYOS/VIABLE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 21.6471
Critical Value of Dunnett's T= 2.105

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-3.401	0.175	3.751
TRT1 - CONTROL	-4.108	-0.532	3.044
TRT2 - CONTROL	-4.501	-0.981	2.538

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
11. ANALYSIS OF NORMAL HATCHLINGS/3-WEEK LIVE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 61 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
11. ANALYSIS OF NORMAL HATCHLINGS/3-WEEK LIVE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
11. ANALYSIS OF NORMAL HATCHLINGS/3-WEEK LIVE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

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

Model	3	636.55098	212.18366	1.66	0.1869
Error	57	7306.88225	128.19092		
Corrected Total	60	7943.43323			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.080135	17.83863	11.322	63.470

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	636.55098	212.18366	1.66	0.1869

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
11. ANALYSIS OF NORMAL HATCHLINGS/3-WEEK LIVE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	62.4708408	1	.	0.5858	0.9812	0.1254
TRT1	60.2052516	2	0.5858	.	0.5960	0.0399
TRT2	62.3746508	3	0.9812	0.5960	.	0.1143
TRT3	68.9013953	4	0.1254	0.0399	0.1143	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
11. ANALYSIS OF NORMAL HATCHLINGS/3-WEEK LIVE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSO) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 128.1909
Critical Value of Studentized Range= 3.743

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-4.511	6.431	17.372
TRT3 - TRT2	-4.242	6.527	17.296
TRT3 - TRT1	-2.245	8.696	19.637
CONTROL - TRT3	-17.372	-6.431	4.511
CONTROL - TRT2	-10.673	0.096	10.865
CONTROL - TRT1	-8.676	2.266	13.207
TRT2 - TRT3	-17.296	-6.527	4.242
TRT2 - CONTROL	-10.865	-0.096	10.673

TRT2	- TRT1	-8.600	2.169	12.938
TRT1	- TRT3	-19.637	-8.696	2.245
TRT1	- CONTRDL	-13.207	-2.266	8.676
TRT1	- TRT2	-12.938	-2.169	8.600

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
11. ANALYSIS OF NORMAL HATCHLINGS/3-WEEK LIVE EMBRYOS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 128.1909
Critical Value of Dunnett's T= 2.105

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3	- CONTROL	-2.271	6.431	15.133
TRT2	- CONTROL	-8.661	-0.096	8.469
TRT1	- CONTROL	-10.968	-2.266	6.436

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
12. ANALYSIS OF NORMAL HATCHLINGS/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 63 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
12. ANALYSIS OF NORMAL HATCHLINGS/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
12. ANALYSIS OF NORMAL HATCHLINGS/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	542.71839	180.90613	0.86	0.4669
Error	59	12409.61658	210.33248		
Corrected Total	62	12952.33497			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.041901	29.03951	14.503	49.942

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	542.71839	180.90613	0.86	0.4669

PRDHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
12. ANALYSIS OF NORMAL HATCHLINGS/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	49.2890079	1	.	0.8385	0.7276	0.2723
TRT1	48.2392297	2	0.8385	.	0.8850	0.1954
TRT2	47.4942417	3	0.7276	0.8850	.	0.1517
TRT3	55.0647653	4	0.2723	0.1954	0.1517	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
12. ANALYSIS OF NORMAL HATCHLINGS/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 210.3325
Critical Value of Studentized Range= 3.739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit

TRT3	- CONTROL	-8.004	5.776	19.556
TRT3	- TRT1	-6.955	6.826	20.606
TRT3	- TRT2	-6.210	7.571	21.351
CONTROL	- TRT3	-19.556	-5.776	8.004
CONTROL	- TRT1	-12.506	1.050	14.606
CONTROL	- TRT2	-11.761	1.795	15.351
TRT1	- TRT3	-20.606	-6.826	6.955
TRT1	- CONTROL	-14.606	-1.050	12.506
TRT1	- TRT2	-12.811	0.745	14.301
TRT2	- TRT3	-21.351	-7.571	6.210
TRT2	- CONTROL	-15.351	-1.795	11.761
TRT2	- TRT1	-14.301	-0.745	12.811

PROHEXADIONE-CALCIUM: REPRD. STUDY WITH THE BOBWHITE
12. ANALYSIS OF NORMAL HATCHLINGS/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 210.3325
Critical Value of Dunnett's T= 2.106

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-5.201	5.776	16.753
TRT1 - CONTROL	-11.848	-1.050	9.749
TRT2 - CONTROL	-12.593	-1.795	9.004

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
13. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 61 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
13. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
13. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	103.88035	34.62678	0.16	0.9230
Error	57	12358.18974	216.81035		
Corrected Total	60	12462.07009			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.008336	21.12861	14.724	69.690

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	103.88035	34.62678	0.16	0.9230

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
13. ANALYSIS DF 14-DAY HATCHLING SURVIVORS/NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	68.9043635	1	.	0.6043	0.8482	0.8979
TRT1	71.7059987	2	0.6043	.	0.7373	0.5183
TRT2	69.9219272	3	0.8482	0.7373	.	0.7477
TRT3	68.2113163	4	0.8979	0.5183	0.7477	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
13. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 216.8103
Critical Value of Studentized Range= 3.743

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT2	-12.221	1.784	15.789
TRT1 - CONTROL	-11.427	2.802	17.031
TRT1 - TRT3	-10.734	3.495	17.724
TRT2 - TRT1	-15.789	-1.784	12.221
TRT2 - CONTROL	-12.987	1.018	15.023
TRT2 - TRT3	-12.294	1.711	15.716
CONTROL - TRT1	-17.031	-2.802	11.427
CONTROL - TRT2	-15.023	-1.018	12.987
CONTROL - TRT3	-13.536	D.693	14.922
TRT3 - TRT1	-17.724	-3.495	10.734
TRT3 - TRT2	-15.716	-1.711	12.294
TRT3 - CONTROL	-14.922	-0.693	13.536

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
13. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/NORMAL HATCHLINGS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 216.8103
Critical Value of Dunnett's T= 2.105

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-8.515	2.802	14.119
TRT2 - CONTROL	-10.121	1.018	12.156
TRT3 - CONTROL	-12.010	-0.693	10.624

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
14. ANALYSIS OF EGGS NOT CRACKED/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 63 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
14. ANALYSIS OF EGGS NOT CRACKED/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
14. ANALYSIS OF EGGS NOT CRACKED/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.9325968	2.3108656	0.05	0.9845
Error	59	2661.445970	45.1092537		
Corrected Total	62	2668.378567			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.002598	8.075934	6.7163	83.165

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	6.9325968	2.3108656	D.05	0.9845

PROHEXADIONE-CALCIUM: REPRD. STUDY WITH THE BOBWHITE
14. ANALYSIS OF EGGS NOT CRACKED/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	82.9786034	1	.	0.7601	0.9548	0.9507
TRT1	83.7070301	2	0.7601	.	0.7174	0.8114
TRT2	82.8433040	3	0.9548	0.7174	.	0.9064
TRT3	83.1283574	4	0.9507	0.8114	0.9064	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
14. ANALYSIS OF EGGS NOT CRACKED/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 45.10925
Critical Value of Studentized Range= 3.739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT3	-5.8030	0.5787	6.9604
TRT1 - CONTROL	-5.5495	0.7284	7.0063
TRT1 - TRT2	-5.4142	0.8637	7.1416
TRT3 - TRT1	-6.9604	-0.5787	5.8030
TRT3 - CONTROL	-6.2319	0.1498	6.5314
TRT3 - TRT2	-6.0966	0.2851	6.6667
CONTROL - TRT1	-7.0063	-0.7284	5.5495
CONTROL - TRT3	-6.5314	-0.1498	6.2319
CONTROL - TRT2	-6.1426	0.1353	6.4132
TRT2 - TRT1	-7.1416	-0.8637	5.4142
TRT2 - TRT3	-6.6667	-0.2851	6.0966
TRT2 - CONTROL	-6.4132	-0.1353	6.1426

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
14. ANALYSIS OF EGGS NOT CRACKED/EGGS LAID
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 45.10925
Critical Value of Dunnett's T= 2.106

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-4.2723	0.7284	5.7292
TRT3 - CONTROL	-4.9337	0.1498	5.2332
TRT2 - CONTROL	-5.1361	-0.1353	4.8655

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
15. ANALYSIS OF NORMAL HATCHLINGS/EGGS SET

****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 63 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
15. ANALYSIS OF NORMAL HATCHLINGS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
15. ANALYSIS OF NORMAL HATCHLINGS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	650.69989	216.89996	0.84	0.4783
Error	59	15264.37102	258.71815		
Corrected Total	62	15915.07091			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.040886	29.91547	16.085	53.767

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	650.69989	216.89996	0.84	0.4783

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
15. ANALYSIS OF NORMAL HATCHLINGS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	53.5420576	1	.	0.6822	0.7072	0.3256
TRT1	51.2022297	2	0.6822	.	0.9729	0.1679
TRT2	51.3959610	3	0.7072	0.9729	.	0.1782
TRT3	59.2727082	4	0.3256	0.1679	0.1782	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
15. ANALYSIS OF NORMAL HATCHLINGS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 258.7182
Critical Value of Studentized Range= 3.739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-9.553	5.731	21.014
TRT3 - TRT2	-7.407	7.877	23.160
TRT3 - TRT1	-7.213	8.070	23.354
CONTROL - TRT3	-21.014	-5.731	9.553
CONTROL - TRT2	-12.889	2.146	17.181
CONTROL - TRT1	-12.695	2.340	17.375
TRT2 - TRT3	-23.160	-7.877	7.407
TRT2 - CONTROL	-17.181	-2.146	12.889
TRT2 - TRT1	-14.841	0.194	15.228
TRT1 - TRT3	-23.354	-8.070	7.213
TRT1 - CONTROL	-17.375	-2.340	12.695
TRT1 - TRT2	-15.228	-0.194	14.841

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
15. ANALYSIS OF NORMAL HATCHLINGS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 258.7182
Critical Value of Dunnett's T= 2.106

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-6.443	5.731	17.905
TRT2 - CONTROL	-14.122	-2.146	9.830
TRT1 - CONTROL	-14.316	-2.340	9.636

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
16. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 63 observations can be used in this analysis.

PROHEXAOIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
16. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRD. STUDY WITH THE BOBWHITE
16. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: RESPONSE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	457.81380	152.60460	D.54	D.6583
Error	59	16743.73564	283.79213		
Corrected Total	62	17201.54944			

R-Square	C.V.	Root MSE	RESPONSE Mean
0.026615	35.32609	16.846	47.687

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

LEVEL	3	457.81380	152.60460	0.54	0.6583

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
16. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	RESPONSE LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	47.6959554	1	.	0.9482	0.5564	0.4970
TRT1	47.3070534	2	0.9482	.	0.6007	0.4577
TRT2	44.1726703	3	0.5564	0.6007	.	0.2107
TRT3	51.8334408	4	0.4970	0.4577	0.2107	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
16. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: RESPONSE

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 283.7921
Critical Value of Studentized Range= 3.739

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-11.869	4.137	20.144
TRT3 - TRT1	-11.480	4.526	20.533
TRT3 - TRT2	-8.346	7.661	23.668
CONTROL - TRT3	-20.144	-4.137	11.869
CONTROL - TRT1	-15.358	0.389	16.135
CONTROL - TRT2	-12.223	3.523	19.270
TRT1 - TRT3	-20.533	-4.526	11.480
TRT1 - CONTROL	-16.135	-0.389	15.358
TRT1 - TRT2	-12.612	3.134	18.881
TRT2 - TRT3	-23.668	-7.661	8.346
TRT2 - CONTROL	-19.270	-3.523	12.223
TRT2 - TRT1	-18.881	-3.134	12.612

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
16. ANALYSIS OF 14-DAY HATCHLING SURVIVORS/EGGS SET
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: RESPONSE

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 283.7921
Critical Value of Dunnett's T= 2.106

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-8.613	4.137	16.888
TRT1 - CONTROL	-12.932	-0.389	12.154
TRT2 - CONTROL	-16.066	-3.523	9.020

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
17. ANALYSIS OF EGGSHELL THICKNESS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 58 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
17. ANALYSIS OF EGGSHELL THICKNESS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
17. ANALYSIS OF EGGSHELL THICKNESS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: THICK

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.0006093	0.0002031	2.06	0.1168

Error	54	0.0053331	0.0000988
Corrected Total	57	0.0059423	

R-Square	C.V.	Root MSE	THICK Mean
0.102532	4.980076	0.0099	0.1996

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	0.0006093	0.0002031	2.06	0.1168

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
17. ANALYSIS OF EGGSHELL THICKNESS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	THICK LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	0.19584615	1	.	0.2293	0.0311	0.7471
TRT1	0.20050000	2	0.2293	.	0.3317	0.3567
TRT2	0.20406250	3	0.0311	0.3317	.	0.0553
TRT3	0.19706667	4	0.7471	0.3567	0.0553	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
17. ANALYSIS OF EGGSHELL THICKNESS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: THICK

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 54 MSE= 0.000099
Critical Value of Studentized Range= 3.749

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - TRT1	-0.006078	0.003562	0.013203
TRT2 - TRT3	-0.002472	0.006996	0.016464
TRT2 - CONTROL	-0.001620	0.008216	0.018053
TRT1 - TRT2	-0.013203	-0.003562	0.006078
TRT1 - TRT3	-0.006356	0.003433	0.013223
TRT1 - CONTROL	-0.005493	0.004654	0.014800
TRT3 - TRT2	-0.016464	-0.006996	0.002472
TRT3 - TRT1	-0.013223	-0.003433	0.006356
TRT3 - CONTROL	-0.008762	0.001221	0.011203
CONTROL - TRT2	-0.018053	-0.008216	0.001620

CONTROL - TRT1	-0.014800	-0.004654	0.005493
CONTROL - TRT3	-0.011203	-0.001221	0.008762

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
17. ANALYSIS OF EGGSHELL THICKNESS
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: THICK

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 54 MSE= 0.000099
Critical Value of Dunnett's T= 2.100

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT2 - CONTROL	0.000425	0.008216	0.016007
TRT1 - CONTROL	-0.003383	0.004654	0.012690
TRT3 - CONTROL	-0.006686	0.001221	0.009127

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
18. ANALYSIS OF HATCHLING WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 61 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
18. ANALYSIS OF HATCHLING WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
18. ANALYSIS OF HATCHLING WEIGHT

****

10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: HATWT

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.6046116	0.2015372	1.00	0.3989
Error	57	11.4708671	0.2012433		
Corrected Total	60	12.0754787			

R-Square	C.V.	Root MSE	HATWT Mean
0.050069	6.979186	0.4486	6.4277

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	0.6046116	0.2015372	1.00	0.3989

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
18. ANALYSIS OF HATCHLING WEIGHT
****

10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	HATWT LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	6.33200000	1	.	0.4668	0.9146	0.1315
TRT1	6.45200000	2	0.4668	.	0.5270	0.4284
TRT2	6.34937500	3	0.9146	0.5270	.	0.1534
TRT3	6.58266667	4	0.1315	0.4284	0.1534	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
18. ANALYSIS OF HATCHLING WEIGHT
****

10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: HATWT

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 0.201243
Critical Value of Studentized Range= 3.743

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - TRT1	-0.3028	0.1307	0.5642
TRT3 - TRT2	-0.1934	0.2333	0.6600

TRT3 - CONTROL	-0.1828	0.2507	0.6842
TRT1 - TRT3	-0.5642	-0.1307	0.3028
TRT1 - TRT2	-0.3241	0.1026	0.5293
TRT1 - CONTROL	-0.3135	0.1200	0.5535
TRT2 - TRT3	-0.6600	-0.2333	0.1934
TRT2 - TRT1	-0.5293	-0.1026	0.3241
TRT2 - CONTROL	-0.4093	0.0174	0.4441
CONTROL - TRT3	-0.6842	-0.2507	0.1828
CONTROL - TRT1	-0.5535	-0.1200	0.3135
CONTROL - TRT2	-0.4441	-0.0174	0.4093

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
18. ANALYSIS OF HATCHLING WEIGHT
****

10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: HATWT

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 57 MSE= 0.201243
Critical Value of Dunnett's T= 2.105

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT3 - CONTROL	-0.0941	0.2507	0.5955
TRT1 - CONTROL	-0.2248	0.1200	0.4648
TRT2 - CONTROL	-0.3220	0.0174	0.3567

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
19. ANALYSIS OF 14-DAY SURVIVOR WEIGHT
****

10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

NOTE: Due to missing values, only 60 observations can be used in this analysis.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
19. ANALYSIS OF 14-DAY SURVIVOR WEIGHT
****

10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

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Effect		Coefficients
INTERCEPT		D
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
19. ANALYSIS OF 14-DAY SURVIVOR WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: SURVWT

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	14.926667	4.975556	0.62	0.6074
Error	56	452.157333	8.074238		
Corrected Total	59	467.084000			

R-Square	C.V.	Root MSE	SURVWT Mean
0.031957	11.56971	2.8415	24.560

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	14.926667	4.975556	0.62	0.6074

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
19. ANALYSIS OF 14-DAY SURVIVOR WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	SURVWT LSMEAN	Pr > |T| H0: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	23.9733333	1	.	0.1889	0.6500	0.6363
TRT1	25.3533333	2	0.1889	.	0.3859	0.3964
TRT2	24.4466667	3	0.6500	0.3859	.	0.9847
TRT3	24.4666667	4	0.6363	0.3964	0.9847	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
19. ANALYSIS OF 14-DAY SURVIVOR WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: SURVWT

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 56 MSE= 8.074238

Critical Value of Studentized Range= 3.745
Minimum Significant Difference= 2.7474

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT3	-1.861	0.887	3.634
TRT1 - TRT2	-1.841	0.907	3.654
TRT1 - CONTROL	-1.367	1.380	4.127
TRT3 - TRT1	-3.634	-0.887	1.861
TRT3 - TRT2	-2.727	0.020	2.767
TRT3 - COHTROL	-2.254	0.493	3.241
TRT2 - TRT1	-3.654	-0.907	1.841
TRT2 - TRT3	-2.767	-0.020	2.727
TRT2 - CONTROL	-2.274	0.473	3.221
CONTROL - TRT1	-4.127	-1.380	1.367
CONTROL - TRT3	-3.241	-0.493	2.254
CONTROL - TRT2	-3.221	-0.473	2.274

PRDHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
19. ANALYSIS OF 14-DAY SURVIVOR WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: SURVWT

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 56 MSE= 8.074238
Critical Value of Dunnett's T= 2.107
Minimum Significant Difference= 2.1861

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-0.806	1.380	3.566
TRT3 - CONTROL	-1.693	0.493	2.679
TRT2 - CONTROL	-1.713	0.473	2.659

PROHEXADIDNE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2D. ANALYSIS OF FOOD CONSUMPTION
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
20. ANALYSIS OF FOOD CONSUMPTION
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Type I Estimable Functions for: LEVEL

Effect		Coefficients
INTERCEPT		0
LEVEL	CONTROL	L2
	TRT1	L3
	TRT2	L4
	TRT3	-L2-L3-L4

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
20. ANALYSIS OF FOOD CONSUMPTION
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: FOOD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.0631250	1.3543750	0.71	0.5524
Error	60	115.1662500	1.9194375		
Corrected Total	63	119.2293750			

R-Square	C.V.	Root MSE	FOOD Mean
0.034078	7.007113	1.3854	19.772

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	4.0631250	1.3543750	0.71	0.5524

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
2D. ANALYSIS OF FOOD CONSUMPTION
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	FOOD LSMEAN	Pr > |T| HO: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4
CONTROL	19.3562500	1	.	0.1981	0.2302	0.3821
TRT1	19.9937500	2	0.1981	.	0.9291	0.6752
TRT2	19.9500000	3	0.2302	0.9291	.	0.7412
TRT3	19.7875000	4	0.3821	0.6752	0.7412	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
20. ANALYSIS OF FOOD CONSUMPTION

****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: FOOD

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 1.919438
Critical Value of Studentized Range= 3.737
Minimum Significant Difference= 1.2944

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT2	-1.2506	0.0437	1.3381
TRT1 - TRT3	-1.0881	0.2062	1.5006
TRT1 - CONTROL	-0.6569	0.6375	1.9319
TRT2 - TRT1	-1.3381	-0.0437	1.2506
TRT2 - TRT3	-1.1319	0.1625	1.4569
TRT2 - CONTROL	-0.7006	0.5938	1.8881
TRT3 - TRT1	-1.5006	-0.2062	1.0881
TRT3 - TRT2	-1.4569	-0.1625	1.1319
TRT3 - CONTROL	-0.8631	0.4313	1.7256
CONTROL - TRT1	-1.9319	-0.6375	0.6569
CONTROL - TRT2	-1.8881	-0.5938	0.7006
CONTROL - TRT3	-1.7256	-0.4313	0.8631

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
20. ANALYSIS OF FOOD CONSUMPTION
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: FOOD

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 60 MSE= 1.919438
Critical Value of Dunnett's T= 2.104
Minimum Significant Difference= 1.0306

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-0.3931	0.6375	1.6681
TRT2 - CONTROL	-0.4368	0.5938	1.6243
TRT3 - CONTROL	-0.5993	0.4313	1.4618

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
21. COVARIATE ANALYSIS OF MALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
21. COVARIATE ANALYSIS OF MALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: POSTM

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	3412.6171	853.1543	8.14	0.0001
Error	59	6186.5404	104.8566		
Corrected Total	63	9599.1575			

R-Square	C.V.	Root MSE	POSTM Mean
0.355512	5.051310	10.240	202.72

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	395.5238	131.8413	1.26	0.2973
PREM	1	3017.0934	3017.0934	28.77	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LEVEL	3	370.8781	123.6260	1.18	0.3255
PREM	1	3017.0934	3017.0934	28.77	0.0001

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
21. COVARIATE ANALYSIS OF MALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	POSTM LSMEAN	Std Err LSMEAN	Pr > |T| HO:LSMEAN=0	LSMEAN Number
CONTROL	203.417688	2.566668	0.0001	1
TRT1	205.190809	2.565984	0.0001	2
TRT2	203.536708	2.560876	0.0001	3
TRT3	198.729795	2.561151	0.0001	4

Pr > |T| HO: LSMEAN(i)=LSMEAN(j)

i/j	1	2	3	4
1	.	0.6278	0.9739	0.2016
2	0.6278	.	0.6502	0.0796
3	0.9739	0.6502	.	0.1897
4	0.2016	0.0796	0.1897	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
21. COVARIATE ANALYSIS OF MALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: POSTM

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 104.8566
Critical Value of Studentized Range= 3.739
Minimum Significant Difference= 9.5715

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT2	-6.615	2.956	12.528
TRT1 - CONTROL	-5.865	3.706	13.278
TRT1 - TRT3	-2.584	6.988	16.559
TRT2 - TRT1	-12.528	-2.956	6.615
TRT2 - CONTROL	-8.822	0.750	10.322
TRT2 - TRT3	-5.540	4.031	13.603
CONTROL - TRT1	-13.278	-3.706	5.865
CONTROL - TRT2	-10.322	-0.750	8.822
CONTROL - TRT3	-6.290	3.281	12.853
TRT3 - TRT1	-16.559	-6.988	2.584
TRT3 - TRT2	-13.603	-4.031	5.540
TRT3 - CONTROL	-12.853	-3.281	6.290

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
21. COVARIATE ANALYSIS OF MALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: POSTM

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 104.8566
Critical Value of Dunnett's T= 2.105
Minimum Significant Difference= 7.6196

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - CONTROL	-3.913	3.706	11.326
TRT2 - CONTROL	-6.870	0.750	8.370

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TRT3	- CONTROL	-10.901	-3.281	4.338

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
22. COVARIATE ANALYSIS OF FEMALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Class Level Information

Class	Levels	Values
LEVEL	4	CONTROL TRT1 TRT2 TRT3

Number of observations in data set = 64

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
22. COVARIATE ANALYSIS OF FEMALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dependent Variable: POSTF

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	4473.1142	1118.2785	7.74	0.0001
Error	59	8528.4233	144.5495		
Corrected Total	63	13001.5375			

R-Square	C.V.	Root MSE	POSTF Mean
0.344045	5.318827	12.023	226.04

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LEVEL	3	574.0537	191.3512	1.32	0.2752
PREF	1	3899.0604	3899.0604	26.97	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LEVEL	3	353.8634	117.9545	0.82	0.4902
PREF	1	3899.0604	3899.0604	26.97	0.0001

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
22. COVARIATE ANALYSIS OF FEMALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure
Least Squares Means

LEVEL	POSTF LSMEAN	Std Err LSMEAN	Pr > |T| HO:LSMEAN=0	LSMEAN Number
CONTROL	226.494816	3.015356	0.0001	1
TRT1	227.882541	3.015806	0.0001	2
TRT2	227.727980	3.007480	0.0001	3
TRT3	222.069663	3.007676	0.0001	4

Pr > |T| HO: LSMEAN(i)=LSMEAN(j)

i/j	1	2	3	4
1	.	0.7468	0.7735	0.3023
2	0.7468	.	0.9711	0.1781
3	0.7735	0.9711	.	0.1888
4	0.3023	0.1781	0.1888	.

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
22. COVARIATE ANALYSIS OF FEMALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Tukey's Studentized Range (HSD) Test for variable: POSTF

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 144.5495
Critical Value of Studentized Range= 3.739
Minimum Significant Difference= 11.238

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1 - TRT2	-10.338	0.900	12.138
TRT1 - CONTROL	-7.319	3.919	15.157
TRT1 - TRT3	-3.582	7.656	18.894
TRT2 - TRT1	-12.138	-0.900	10.338
TRT2 - CONTROL	-8.219	3.019	14.257
TRT2 - TRT3	-4.482	6.756	17.994
CONTROL - TRT1	-15.157	-3.919	7.319
CONTROL - TRT2	-14.257	-3.019	8.219
CONTROL - TRT3	-7.501	3.738	14.976
TRT3 - TRT1	-18.894	-7.656	3.582
TRT3 - TRT2	-17.994	-6.756	4.482
TRT3 - CONTROL	-14.976	-3.738	7.501

PROHEXADIONE-CALCIUM: REPRO. STUDY WITH THE BOBWHITE
22. COVARIATE ANALYSIS OF FEMALE BODY WEIGHT
****
10:48 Wednesday, June 24, 1998

General Linear Models Procedure

Dunnett's One-tailed T tests for variable: POSTF

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 59 MSE= 144.5495
Critical Value of Dunnett's T= 2.105
Minimum Significant Difference= 8.9463

Comparisons significant at the 0.05 level are indicated by '***'.

LEVEL Comparison		Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRT1	- CONTROL	-5.028	3.919	12.865
TRT2	- CONTROL	-5.928	3.019	11.965
TRT3	- CONTROL	-12.684	-3.738	5.209

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