

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

PAGE

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1

*****MODEL NFACE=0,NOB=2,RFCE=1,DESIGN=PNCA,ABC(AB)D,CODES=T/ *****

*****FACTOR1 NAME=SEX,NLEV=2,LNAME=MALE,FEMALE,LCODE=1,2,FIXED=T/ *****

*****FACTOR2 NAME=PB-LEVEL,NLEV=5,LNAME= OPPM, 10PPM, 50PPM,100PPM,500PPM, *****

***** LCODE=002,016,057,155,576,FIXED=T/ *****

*****FACTOR3 NAME=DOG,NLEV=4,LNAME=1,2,3,4,LCODE=1,2,3,4,FIXED=F/ *****

*****FACTOR4 NAME=TIME-PERIOD,NLEV=9,LNAME=1 MON,3 MON,6 MON,9 MON,12 MON,15 MON, *****

***** 18 MON,21 MON,24 MON,LCODE=01,03,06,09,12,15,18,21,24,FIXED=T/ *****

*****RESPONSE Y33=BLOOD LEAD,LOG BLOOD LEAD/ *****

*****MEANS 3 *****

*****MEANS PLOT 3 *****

*****OPCODES *****

OPCODES

MOV 1,1,801

MPY 1,(100.),1

LOG 1,1,10

MPY 1,(100.),802

OUT

9	1	1	801	0	1
3	1	901	1	0	2
8	1	1	10	0	3
3	1	901	802	0	4
999	0	0	0	0	5

*****FORMAT(4X,A1,A3,A1,A2,T55,F5.0) *****

*****DATA NOBS=360,INOV=1 *****

N36869

EXPANDED DATA MATRIX (IDENTIFICATION: INPUT DATA ROW NUMBER, EXPANDED DATA ROW NUMBER, FACTOR LEVELS)

Y33=BLOOD LE	LOG BLOOD LE
1 1	2 1 1 1
2 2	10000 2 100.00000
3 3	.69000 2 183.88491
4 4	1.20000 2 207.91812
5 5	.38000 2 157.97836
	.50000 2 169.89700

NO. OF INPUT DATA ROWS = 360
NO. OF ROWS DELETED BY LOGICAL TESTS = 0
NO. OF ROWS DELETED FOR MISSING DATA = 0
NO. OF EXPANDED DATA ROWS REMAINING = 360

*****ANOVA

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 RESPONSE NUMBER 1 Y33=BLOOD LEAD

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CELL IDENTIFICATION

CELL MEAN

1	1	1	1	.1000
1	1	1	2	.1000
1	1	1	3	.4000
1	1	1	4	.2000
1	1	1	5	.1000
1	1	1	6	.7000
1	1	1	7	.7000
1	1	1	8	.9000
1	1	1	9	4.5000
1	1	2	1	.1000
1	1	2	2	.1000
1	1	2	3	.4000
1	1	2	4	.5000
1	1	2	5	.3000
1	1	2	6	1.2000
1	1	2	7	1.0000
1	1	2	8	1.4000
1	1	2	9	1.0000
1	1	3	1	.1000
1	1	3	2	.1000
1	1	3	3	.4000
1	1	3	4	.2000
1	1	3	5	.3000
1	1	3	6	.7000
1	1	3	7	1.0000
1	1	3	8	.9000
1	1	3	9	1.0000
1	1	4	1	.1000
1	1	4	2	1.5900
1	1	4	3	1.2000
1	1	4	4	.8000
1	1	4	5	1.1000
1	1	4	6	1.4000
1	1	4	7	.7000
1	1	4	8	1.1000
1	1	4	9	1.9000
1	2	1	1	.1000
1	2	1	2	.1000
1	2	1	3	1.2000
1	2	1	4	1.1000
1	2	1	5	1.6000
1	2	1	6	2.2000
1	2	1	7	1.6000
1	2	1	8	2.4000
1	2	1	9	1.9000
1	2	2	1	.1000
1	2	2	2	.1000
1	2	2	3	2.0000
1	2	2	4	.8000
1	2	2	5	1.4000
1	2	2	6	2.6000
1	2	2	7	2.1000
1	2	2	8	1.1000
1	2	2	9	1.9000
1	2	3	1	.1000

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1	1	2	3	2	.1000
1	1	2	3	3	.8000
1	1	2	3	4	.8000
1	1	2	3	5	1.1000
1	1	2	3	6	1.2500
1	1	2	3	7	2.1000
1	1	2	3	8	1.4000
1	1	2	3	9	2.2000
1	1	2	4	1	.1000
1	1	2	4	2	.1000
1	1	2	4	3	.8000
1	1	2	4	4	.8000
1	1	2	4	5	.3000
1	1	2	4	6	1.2000
1	1	2	4	7	.5000
1	1	2	4	8	1.1000
1	1	2	4	9	1.3000
1	1	3	1	1	.1000
1	1	3	1	2	.1000
1	1	3	1	3	.1000
1	1	3	1	4	2.9000
1	1	3	1	5	2.2000
1	1	3	1	6	2.9000
1	1	3	1	7	3.1000
1	1	3	1	8	3.0000
1	1	3	1	9	3.1000
1	1	3	2	1	.3000
1	1	3	2	2	.8000
1	1	3	2	3	2.9000
1	1	3	2	4	1.9000
1	1	3	2	5	2.2000
1	1	3	2	6	2.6000
1	1	3	2	7	3.6000
1	1	3	2	8	3.6000
1	1	3	2	9	3.3000
1	1	3	3	1	.1000
1	1	3	3	2	1.1800
1	1	3	3	3	3.8000
1	1	3	3	4	3.7000
1	1	3	3	5	2.4000
1	1	3	3	6	2.9000
1	1	3	3	7	3.3000
1	1	3	3	8	3.6000
1	1	3	3	9	3.7000
1	1	3	4	1	.1000
1	1	3	4	2	.1300
1	1	3	4	3	3.3000
1	1	3	4	4	2.5000
1	1	3	4	5	2.2000
1	1	3	4	6	2.6000
1	1	3	4	7	2.8000
1	1	3	4	8	3.9000
1	1	3	4	9	4.1000
1	1	4	1	1	.1000
1	1	4	1	2	.1000
1	1	4	1	3	4.6000
1	1	4	1	4	3.4000
1	1	4	1	5	3.0000
1	1	4	1	6	3.8000
1	1	4	1	7	3.8000

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1 4 1 8	4.7000
1 4 1 9	5.4000
1 4 2 1	.1000
1 4 2 2	.1300
1 4 2 3	3.3000
1 4 2 4	2.8000
1 4 2 5	2.7000
1 4 2 6	3.1000
1 4 2 7	3.3000
1 4 2 8	3.3000
1 4 2 9	4.5000
1 4 3 1	.1000
1 4 3 2	1.2500
1 4 3 3	4.2000
1 4 3 4	2.8000
1 4 3 5	3.0000
1 4 3 6	3.3000
1 4 3 7	4.3000
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1 4 3 9	5.4000
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1 4 4 8	6.3000
1 4 4 9	5.4000
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1 5 1 4	5.7000
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1 5 1 8	10.2000
1 5 1 9	9.1000
1 5 2 1	.1000
1 5 2 2	1.0500
1 5 2 3	9.2000
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1 5 2 8	10.2000
1 5 2 9	11.4000
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1 5 3 7	6.8000
1 5 3 8	4.4000
1 5 3 9	9.1000
1 5 4 1	.1000
1 5 4 2	.1300
1 5 4 3	8.0000
1 5 4 4	5.1000

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1	1	5	4	5	3.9400
1	1	5	4	6	6.8700
1	1	5	4	7	6.4700
1	1	5	4	8	7.7700
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2	2	1	1	3	1.2000
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2	2	1	1	6	.5000
2	2	1	1	7	1.3000
2	2	1	1	8	.7000
2	2	1	1	9	1.1000
2	2	1	1	10	.1000
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2 4 1 8
2 4 1 9
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2 4 2 6
2 4 2 7
2 4 2 8
2 4 2 9
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2 4 4 1
2 4 4 2
2 4 4 3
2 4 4 4
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2 4 4 7
2 4 4 8
2 4 4 9
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2 4 9 9

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3.5000
5.1000
4.6000
4.9000
5.2000
.1000
.8800
5.2000
4.9000

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2 5 4 5
2 5 4 6
2 5 4 7
2 5 4 8
2 5 4 9

3.4000
4.7700
5.2000
5.0700
5.5400

GRAND MEAN

2.38639

2-YEAR LEAD-FEEDING STUDY - D065 LEAD ANALYSIS DATA (Y33)
EXPECTED MEAN SQUARE TABLE

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SOURCE OF VARIATION

EXPECTED MEAN SQUARE

A = SEX
B = PB-LEVEL
AB
C = D06
D = TIME-PERIOD
AD
BD
ABD
CD

9(C) + 180(A)
9(C) + 72(B)
9(C) + 36(AB)
9(C)
1(CD) + 40(D)
1(CD) + 20(AD)
1(CD) + 8(BD)
1(CD) + 4(ABD)
1(CD)

RESPONSE NUMBER 1 Y33=BLOND LEAD

ANOVA TABLE

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARE	F RATIO
TOTAL	359	1652.52834		
A = SEX	1	23.08373	23.08373	14.53 **
B = PB=LEVEL	4	679.91930	169.97983	121.69 **
AB	4	55.45867	13.86467	9.93 **
C = DOG	30	41.90456	1.39682	3.48 **
D = TIME-PERIOD	8	489.69471	61.21184	152.34 **
AD	8	26.40167	3.30021	8.21 **
BD	32	200.17999	6.25562	15.57 **
ABD	32	39.45234	1.23289	3.07 **
CD	240	96.43375	.40181	

* SIGNIFICANT AT THE .05 PROBABILITY LEVEL (ONE-TAIL TEST)

** SIGNIFICANT AT THE .01 PROBABILITY LEVEL (ONE-TAIL TEST)

RESPONSE NUMBER 1 Y33=BLOOD LEAD

MEANS TABLES

SEX MEANS

SEX	MEANS
MALE	2.6396
FEMALE	2.1332

STANDARD ERROR OF A MEAN = .0881
 95% CONFIDENCE LIMITS = .1799
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = .1246
 LEAST SIGNIFICANT DIFFERENCE (LSD) = .2544

PB-LEVEL MEANS

PB-LEVEL	MEANS
0PPM	.7806
10PPM	1.3286
50PPM	2.2094
100PPM	2.8901
500PPM	4.7232

STANDARD ERROR OF A MEAN = .1393
 95% CONFIDENCE LIMITS = .2845
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = .1970
 LEAST SIGNIFICANT DIFFERENCE (LSD) = .4023

SEX * PB-LEVEL INTERACTION

SEX PB-LEVEL

SEX	PB-LEVEL	MEANS
MALE	0PPM	.7858
MALE	10PPM	1.1208
MALE	50PPM	2.4219
MALE	100PPM	3.1914
MALE	500PPM	5.6781
FEMALE	0PPM	.7753
FEMALE	10PPM	1.5364
FEMALE	50PPM	1.9989
FEMALE	100PPM	2.5889
FEMALE	500PPM	3.7683

DIFFERENCES .0106 -.4156 .4250 .6025 1.9097
 STANDARD ERROR OF A MEAN = .1970
 95% CONFIDENCE LIMITS = .4023
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = .2786
 LEAST SIGNIFICANT DIFFERENCE (LSD) = .5689

THREE WAY TABLE OF MEANS FOR FACTORS SEX
SEX

, PB-LEVEL , DOG

PB-LEVEL DOG

	1	2	3	4
OPPM	.8556	.6667	.8222	1.0989
10PPM	1.3556	1.3444	1.0944	.6889
50PPM	2.1778	2.3644	2.7422	2.4033
100PPM	3.2111	2.5811	3.1389	3.8344
500PPM	5.8933	6.4833	5.0300	5.3056

SEX AT LEVEL FEMALE

PB-LEVEL DOG

	1	2	3	4
OPPM	.7189	.6933	.9089	.7800
10PPM	1.6667	1.2067	2.2978	1.5744
50PPM	1.7767	2.2144	2.1333	1.8633
100PPM	2.1033	2.5478	3.3333	2.3711
500PPM	3.5922	3.8656	3.7200	3.8956

TIME-PERIOD

MEANS

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
	.1100	.7017	3.2675	2.3617	2.0110	2.9697	3.0642	3.3485	3.6430

STANDARD ERROR OF A MEAN =

95% CONFIDENCE LIMITS =

STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS =

LEAST SIGNIFICANT DIFFERENCE (LSD) =

.1002
.1974
.1417
.2792

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SEX * TIME-PERIOD INTERACTION

SEX ' TIME-PERIOD

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
MALE	.1200	.4820	3.5550	2.5160	2.2470	3.2360	3.3635	3.7585	4.4785
FEMALE	.1000	.9215	2.9800	2.2075	1.7750	2.7035	2.7650	2.9385	2.8075
DIFFERENCES	.0200	-.4395	.5750	.3085	.4720	.5325	.5985	.8200	1.6710

PB-LEVEL * TIME-PERIOD INTERACTION

PB-LEVEL TIME-PERIOD

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
0PPM	.1000	.5025	.8500	.6350	.5500	.8975	.9750	.9500	1.5750
10PPM	.1000	.5925	1.7500	.9462	1.1375	1.9062	1.6875	2.0750	1.8625
50PPM	.1250	.8475	3.1825	2.3250	1.9625	2.7750	2.9000	2.3375	3.1500
100PPM	.1000	.4462	4.0875	3.1400	2.5125	3.3375	3.8000	4.2375	4.2500
500PPM	.1250	1.3200	6.4875	4.7625	3.7925	5.9425	5.9587	6.5425	7.5775

THREE WAY TABLE OF MEANS FOR FACTORS SEX

SEX AT LEVEL MALE

PB-LEVEL , TIME-PERIOD

PB-LEVEL TIME-PERIOD

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
0PPM	.1000	.4725	.6000	.4250	.4500	1.0000	.8500	1.0750	2.1000
10PPM	.1000	.1000	1.2000	.8750	1.1000	1.8125	1.5750	1.8000	1.8250
50PPM	.1500	.5725	3.2250	2.5750	2.2500	2.7500	3.2000	3.3250	3.5500
100PPM	.1000	.8675	4.4750	3.1050	3.1250	3.3750	4.3500	4.8500	5.1750
500PPM	.1500	.7975	8.2750	5.6000	4.3100	7.2425	6.8425	8.1425	9.7425

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SEX AT LEVEL FEMALE

PB-LEVEL TIME-PERIOD

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
OPPM	.1000	.5325	1.1000	.8450	.6500	.7750	1.1000	.8250	1.0500
10PPM	.1000	1.2850	2.3000	1.0175	1.1750	2.0000	1.8000	2.8500	1.5000
50PPM	.1000	.5225	3.1000	2.0750	1.6750	2.8000	2.6000	2.3500	2.7500
100PPM	.1000	.4250	3.7000	3.1750	2.1000	3.3000	3.2500	3.9250	3.3250
500PPM	.1000	1.8425	4.7000	3.9250	3.2750	4.6425	5.0750	4.9425	5.4125

SYMBOLS USED IN 2- AND 3-WAY MEANS PLOTS

- 1 - LEVEL 1
- 2 - LEVEL 2
- 3 - LEVEL 3
- 4 - LEVEL 4
- 5 - LEVEL 5
- * - REPEATED SYMBOLS

SEX	MEANS	PB-LEVEL
1	+	+
2	+	+
3	+	+
4	+	+
5	+	+
6	+	+
7	+	+
8	+	+
9	+	+
10	+	+
11	+	+
12	+	+
13	+	+
14	+	+
15	+	+
16	+	+
17	+	+
18	+	+
19	+	+
20	+	+
21	+	+
22	+	+
23	+	+
24	+	+
25	+	+
26	+	+
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28	+	+
29	+	+
30	+	+
31	+	+
32	+	+
33	+	+
34	+	+
35	+	+
36	+	+
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38	+	+
39	+	+
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61	+	+
62	+	+
63	+	+
64	+	+
65	+	+
66	+	+
67	+	+
68	+	+
69	+	+
70	+	+
71	+	+
72	+	+
73	+	+
74	+	+
75	+	+
76	+	+
77	+	+
78	+	+
79	+	+
80	+	+
81	+	+
82	+	+
83	+	+
84	+	+
85	+	+
86	+	+
87	+	+
88	+	+
89	+	+
90	+	+
91	+	+
92	+	+
93	+	+
94	+	+
95	+	+
96	+	+
97	+	+
98	+	+
99	+	+
100	+	+

SEX	MEANS	PB-LEVEL
1	+	+
2	+	+
3	+	+
4	+	+
5	+	+
6	+	+
7	+	+
8	+	+
9	+	+
10	+	+
11	+	+
12	+	+
13	+	+
14	+	+
15	+	+
16	+	+
17	+	+
18	+	+
19	+	+
20	+	+
21	+	+
22	+	+
23	+	+
24	+	+
25	+	+
26	+	+
27	+	+
28	+	+
29	+	+
30	+	+
31	+	+
32	+	+
33	+	+
34	+	+
35	+	+
36	+	+
37	+	+
38	+	+
39	+	+
40	+	+
41	+	+
42	+	+
43	+	+
44	+	+
45	+	+
46	+	+
47	+	+
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49	+	+
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54	+	+
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56	+	+
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86	+	+
87	+	+
88	+	+
89	+	+
90	+	+
91	+	+
92	+	+
93	+	+
94	+	+
95	+	+
96	+	+
97	+	+
98	+	+
99	+	+
100	+	+

7A37-BD * SEX

SEX

PAGE 18
* PB-LEVEL
AT LEVEL MAN

*** DOG ***

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[illegible]

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

PAGE 20

TIME-PERIOD * SEX

TIME-PERIOD * PB-LEVEL

	I	I
1	+	+
	I	I
2	+ 1 2	+
	I	I
3	+ 2 1	+
	I	I
4	+ 2 1	+
TIME-PERIOD	I	I
5	+ 2 1	+
	I	I
6	+ 2 1	+
	I	I
7	+ 2 1	+
	I	I
8	+ 2 1	+
	I	I
9	+ 2 1	+
	I	I
	-	-
	.15 1.60 3.35 5.10 6.85 8.60 10.35	

	I	I
1	+	+
	I	I
2	+ *2 5	+
	I	I
3	+ 1 2 3 4	+
	I	I
4	+ 1 2 3 4 5	+
TIME-PERIOD	I	I
5	+ 1 2 3 4 5	+
	I	I
6	+ 1 2 3 4 5	+
	I	I
7	+ 1 2 3 4 5	+
	I	I
8	+ 1 2 3 4	+
	I	I
9	+ * 3 4	+
	I	I
	-	-
	.15 1.60 3.35 5.10	

DUP050309226

CELL IDENTIFICATION	CELL MEAN
1 1 1 1	100.0000
1 1 1 2	100.0000
1 1 1 3	160.2060
1 1 1 4	130.1030
1 1 1 5	100.0000
1 1 1 6	184.5098
1 1 1 7	184.5098
1 1 1 8	195.4242
1 1 1 9	265.3215
1 1 1 2 1	100.0000
1 1 1 2 2	100.0000
1 1 1 2 3	160.2060
1 1 1 2 4	169.8970
1 1 1 2 5	147.7121
1 1 1 2 6	207.9181
1 1 1 2 7	200.0000
1 1 1 2 8	214.6128
1 1 1 2 9	200.0000
1 1 1 3 1	100.0000
1 1 1 3 2	100.0000
1 1 1 3 3	160.2060
1 1 1 3 4	130.1030
1 1 1 3 5	147.7121
1 1 1 3 6	184.5098
1 1 1 3 7	200.0000
1 1 1 3 8	195.4242
1 1 1 3 9	200.0000
1 1 1 4 1	100.0000
1 1 1 4 2	220.1397
1 1 1 4 3	207.9181
1 1 1 4 4	190.3090
1 1 1 4 5	204.1393
1 1 1 4 6	214.6128
1 1 1 4 7	184.5098
1 1 1 4 8	204.1393
1 1 1 4 9	227.8754
1 1 2 1 1	100.0000
1 1 2 1 2	100.0000
1 1 2 1 3	207.9181
1 1 2 1 4	204.1393
1 1 2 1 5	220.4120
1 1 2 1 6	234.2423
1 1 2 1 7	220.4120
1 1 2 1 8	238.0211
1 1 2 1 9	227.8754
1 1 2 2 1	100.0000
1 1 2 2 2	100.0000
1 1 2 2 3	230.1030
1 1 2 2 4	190.3090
1 1 2 2 5	214.6128
1 1 2 2 6	241.4973
1 1 2 2 7	232.2219
1 1 2 2 8	204.1393
1 1 2 2 9	227.8754
1 1 2 3 1	100.0000

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

PAGE

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23

1	2	3	2	100.0000
1	2	3	3	190.3090
1	2	3	4	190.3090
1	2	3	5	204.1393
1	2	3	6	209.6910
1	2	3	7	232.2219
1	2	3	8	214.6128
1	2	3	9	234.2423
1	2	4	1	100.0000
1	2	4	2	100.0000
1	2	4	3	190.3090
1	2	4	4	190.3090
1	2	4	5	147.7121
1	2	4	6	207.9181
1	2	4	7	169.8970
1	2	4	8	204.1393
1	2	4	9	211.3943
1	3	1	1	100.0000
1	3	1	2	100.0000
1	3	1	3	246.2398
1	3	1	4	234.2423
1	3	1	5	234.2423
1	3	1	6	246.2398
1	3	1	7	249.1362
1	3	1	8	247.7121
1	3	1	9	249.1362
1	3	2	1	147.7121
1	3	2	2	194.4483
1	3	2	3	246.2398
1	3	2	4	227.8784
1	3	2	5	234.2423
1	3	2	6	241.4973
1	3	2	7	255.6302
1	3	2	8	295.6302
1	3	2	9	251.8514
1	3	3	1	100.0000
1	3	3	2	207.1882
1	3	3	3	257.9784
1	3	3	4	256.8202
1	3	3	5	238.0211
1	3	3	6	246.2398
1	3	3	7	251.8514
1	3	3	8	255.6302
1	3	3	9	256.8202
1	3	4	1	100.0000
1	3	4	2	111.3943
1	3	4	3	251.8514
1	3	4	4	239.7940
1	3	4	5	234.2423
1	3	4	6	241.4973
1	3	4	7	244.7158
1	3	4	8	259.1055
1	3	4	9	261.2784
1	4	1	1	100.0000
1	4	1	2	100.0000
1	4	1	3	266.2758
1	4	1	4	253.1479
1	4	1	5	247.7121
1	4	1	6	257.9784
1	4	1	7	257.9784

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2-YEAR LEAD-FEEDING STUDY - D06S LEAD ANALYSIS DATA (Y33)

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24

1	4	1	8	267.2098
1	4	1	9	273.2394
1	4	2	1	100.0000
1	4	2	2	111.3943
1	4	2	3	251.8514
1	4	2	4	244.7158
1	4	2	5	243.1364
1	4	2	6	249.1362
1	4	2	7	251.8514
1	4	2	8	251.8514
1	4	2	9	265.3213
1	4	3	1	100.0000
1	4	3	2	209.6310
1	4	3	3	262.3249
1	4	3	4	244.7158
1	4	3	5	247.7121
1	4	3	6	251.8514
1	4	3	7	263.3468
1	4	3	8	259.1065
1	4	3	9	273.2394
1	4	4	1	100.0000
1	4	4	2	159.1065
1	4	4	3	276.3428
1	4	4	4	253.4026
1	4	4	5	257.9784
1	4	4	6	251.8514
1	4	4	7	277.8151
1	4	4	8	279.9341
1	5	1	1	273.2394
1	5	1	2	147.7121
1	5	1	3	173.2394
1	5	1	4	292.4279
1	5	1	5	275.5875
1	5	1	6	275.5875
1	5	1	7	285.1258
1	5	1	8	277.8151
1	5	2	1	300.8500
1	5	2	2	295.9041
1	5	2	3	100.0000
1	5	2	4	202.1189
1	5	2	5	296.3788
1	5	2	6	283.2509
1	5	2	7	243.1364
1	5	2	8	294.4483
1	5	2	9	290.8485
1	5	3	1	300.8500
1	5	3	2	305.6905
1	5	3	3	100.0000
1	5	3	4	216.7317
1	5	3	5	287.5061
1	5	3	6	268.1241
1	5	3	7	269.0196
1	5	3	8	279.2392
1	5	3	9	283.2509
1	5	4	1	281.3453
1	5	4	2	295.9041
1	5	4	3	100.0000
1	5	4	4	111.3943
1	5	4	5	290.3090
1	5	4	6	270.7570

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

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25

1	5	4	5	259.5496
1	5	4	6	283.6957
1	5	4	7	281.0904
1	5	4	8	289.0421
1	5	4	9	297.1740
2	1	1	1	100.0000
2	1	1	2	183.8849
2	1	1	3	207.9181
2	1	1	4	157.9784
2	1	1	5	169.8970
2	1	1	6	169.8970
2	1	1	7	211.3943
2	1	1	8	184.5098
2	1	1	9	204.1393
2	1	2	1	100.0000
2	1	2	2	164.3453
2	1	2	3	190.3090
2	1	2	4	147.7121
2	1	2	5	184.5098
2	1	2	6	190.3090
2	1	2	7	211.3943
2	1	2	8	184.5098
2	1	2	9	204.1393
2	1	3	1	100.0000
2	1	3	2	176.3428
2	1	3	3	207.9181
2	1	3	4	225.5273
2	1	3	5	169.8970
2	1	3	6	200.0000
2	1	3	7	211.3943
2	1	3	8	184.5098
2	1	3	9	200.0000
2	1	4	1	100.0000
2	1	4	2	162.3249
2	1	4	3	207.9181
2	1	4	4	195.4242
2	1	4	5	195.4242
2	1	4	6	190.3090
2	1	4	7	169.8970
2	1	4	8	207.9181
2	1	4	9	200.0000
2	2	1	1	100.0000
2	2	1	2	100.0000
2	2	1	3	220.4120
2	2	1	4	177.8151
2	2	1	5	195.4242
2	2	1	6	207.9181
2	2	1	7	211.3943
2	2	1	8	236.1728
2	2	2	1	217.6091
2	2	2	2	100.0000
2	2	2	3	166.2758
2	2	2	4	244.7158
2	2	2	5	177.8151
2	2	2	6	204.1393
2	2	2	7	200.0000
2	2	2	8	195.4242
2	2	2	9	244.7158
2	2	3	1	204.1393
2	2	3	2	100.0000

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[illegible]

2-YEAR LEAD-FEEDING STUDY - D065 LEAD ANALYSIS DATA (Y33)

PAGE 27

27

2	4	1	8	236.1728
2	4	1	9	243.1364
2	4	2	1	100.0000
2	4	2	2	151.8514
2	4	2	3	260.2060
2	4	2	4	238.0211
2	4	2	5	230.1030
2	4	2	6	250.5150
2	4	2	7	237.9784
2	4	2	8	255.6302
2	4	2	9	254.4068
2	4	3	1	100.0000
2	4	3	2	100.0000
2	4	3	3	271.6003
2	4	3	4	267.2098
2	4	3	5	251.8514
2	4	3	6	264.3453
2	4	3	7	246.2398
2	4	3	8	269.0196
2	4	3	9	264.3453
2	4	4	1	100.0000
2	4	4	2	164.3453
2	4	4	3	238.0211
2	4	4	4	250.5150
2	4	4	5	230.1030
2	4	4	6	243.1364
2	4	4	7	246.2398
2	4	4	8	269.0196
2	4	4	9	243.1364
2	5	1	1	100.0000
2	5	1	2	236.7356
2	5	1	3	268.1241
2	5	1	4	254.4068
2	5	1	5	246.2398
2	5	1	6	253.1479
2	5	1	7	268.8970
2	5	1	8	269.0196
2	5	1	9	273.2394
2	5	2	1	100.0000
2	5	2	2	231.8063
2	5	2	3	260.2060
2	5	2	4	261.2784
2	5	2	5	251.8514
2	5	2	6	272.4276
2	5	2	7	274.0363
2	5	2	8	269.0196
2	5	2	9	274.1152
2	5	3	1	100.0000
2	5	3	2	231.8063
2	5	3	3	268.1241
2	5	3	4	250.5150
2	5	3	5	254.4068
2	5	3	6	270.7570
2	5	3	7	266.2798
2	5	3	8	269.0196
2	5	3	9	271.6003
2	5	4	1	100.0000
2	5	4	2	194.4483
2	5	4	3	271.6003
2	5	4	4	269.0196

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PAGE

ANALYSIS DATA (Y33)

2-YEAR LEAD-FEEDING STUDY - DOGS LEA

253.1479
267.8318
271.6003
270.5008
274.5510

2 5 4 5
2 5 4 6
2 5 4 7
2 5 4 8
2 5 4 9

GRAND MEAN 211.75196

RESPONSE NUMBER 2 LOG BLOOD LEAD

ANOVA TABLE

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARE	F RATIO
TOTAL	359	.11905+07		
A = SEX	1	.12322+02	.12322+02	.01
B = PB-LEVEL	4	.22886+06	.57216+05	64.40 **
AB	4	.10899+05	.27248+04	3.07 *
C = DOG	30	.26652+05	.88839+03	2.55 **
D = TIME-PERIOD	8	.76230+06	.95287+05	273.94 **
AD	8	.18296+05	.22870+04	6.57 **
BD	32	.47265+05	.14770+04	4.25 **
ABD	32	.12684+05	.39639+03	1.14
CD	240	.83483+05	.34784+03	

* SIGNIFICANT AT THE .05 PROBABILITY LEVEL (ONE-TAIL TEST)

** SIGNIFICANT AT THE .01 PROBABILITY LEVEL (ONE-TAIL TEST)

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

PAGE 30

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RESPONSE NUMBER 2 LOG BLOOD LEAD

MEANS TABLES

SEX

MEANS

-MALE FEMALE

211.5671 211.9371

STANDARD ERROR OF A MEAN =

2.2216

95% CONFIDENCE LIMITS =

4.5371

STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS =

3.1418

LEAST SIGNIFICANT DIFFERENCE (LSD) =

6.4164

PB-LEVEL

MEANS

OPPM	10PPM	50PPM	100PPM	500PPM
174.4954	194.1696	217.5363	225.2163	247.3430

STANDARD ERROR OF A MEAN =

3.5126

95% CONFIDENCE LIMITS =

7.1737

STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS =

4.9676

LEAST SIGNIFICANT DIFFERENCE (LSD) =

10.1452

SEX

* PB-LEVEL

INTERACTION

SEX

PB-LEVEL

OPPM	10PPM	50PPM	100PPM	500PPM
159.2227	185.8606	221.5696	228.7349	252.4479
179.7681	202.4786	213.5032	221.6978	242.2382

DIFFERENCES	-10.5454	-16.6180	8.0664	7.0372	10.2097
-------------	----------	----------	--------	--------	---------

STANDARD ERROR OF A MEAN =

4.9676

95% CONFIDENCE LIMITS =

10.1452

STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS =

7.0253

LEAST SIGNIFICANT DIFFERENCE (LSD) =

14.3475

THREE WAY TABLE OF MEANS FOR FACTORS SEX
SEX

PB-LEVEL DOG

AT LEVEL MALE

PB-LEVEL DOG

	1	2	3	4
UPPM	157.7860	166.7051	157.5506	194.8493
10PPM	194.7800	193.4176	186.1695	169.0754
50PPM	211.8832	228.3474	230.0610	215.9867
100PPM	224.8380	218.8064	236.6653	236.6300
500PPM	258.2510	257.4147	251.5690	242.5569

SEX AT LEVEL FEMALE

PB-LEVEL DOG

	1	2	3	4
UPPM	176.6243	175.2476	186.1766	181.0240
10PPM	185.1940	193.0250	221.8670	209.8286
50PPM	212.6431	220.0268	208.0953	213.2474
100PPM	218.1422	222.0791	226.0679	220.5018
500PPM	241.2011	243.8601	242.5005	241.3911

TIME-PERIOD MEANS

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
	102.3856	159.5367	238.8230	222.6990	218.1035	237.6798	238.7093	241.8004	246.0320

STANDARD ERROR OF A MEAN =

95% CONFIDENCE LIMITS =

STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS =

LEAST SIGNIFICANT DIFFERENCE (LSD) =

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

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PAGE

SEX , * TIME-PERIOD INTERACTION

SEX TIME-PERIOD

1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
MALE	104.7712	140.8423	222.3956	219.5510	240.6850	240.4551	245.0900	254.6691
FEMALE	100.0000	178.2311	241.0009	223.0025	217.6561	234.6746	236.9635	238.5108
DIFFERENCES	4.7712	-37.3887	-4.3559	-6.6070	.8949	6.0103	3.4916	6.5792
								17.2741

PB-LEVEL * TIME-PERIOD INTERACTION

PB-LEVEL TIME-PERIOD

1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
OPPM	100.0000	150.8787	187.8249	168.3817	164.9114	192.7582	196.6374	196.3810
10PPM	100.0000	141.5925	218.4144	195.1108	201.3739	223.8924	217.5041	228.5611
50PPM	105.9640	156.8892	248.8989	234.8667	228.5231	244.0301	245.7286	243.9838
100PPM	100.0000	148.5370	259.6422	248.7186	239.0920	251.8817	256.8247	260.9930
500PPM	105.9640	199.7851	279.3345	266.6174	256.6174	275.8367	276.8518	279.0834

THREE WAY TABLE OF MEANS FOR FACTORS SEX

SEX AT LEVEL MALE

PB-LEVEL , TIME-PERIOD

PB-LEVEL TIME-PERIOD

1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
OPPM	100.0000	130.0349	172.1340	156.1030	149.8909	197.8876	192.2549	202.4001
10PPM	100.0000	100.0000	204.6598	193.7666	196.7190	223.3372	213.6882	215.2281
50PPM	111.9280	153.2577	250.5773	239.6828	235.1870	243.8686	250.3334	254.5198
100PPM	100.0000	145.0479	264.1987	248.9955	249.1347	252.7043	262.7479	264.5254
500PPM	111.9280	175.8711	291.6555	274.4299	261.8233	285.6272	283.2512	288.7768

2-YEAR LEAD-FEEDING STUDY - DOGS LEAD ANALYSIS DATA (Y33)

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SEX AT LEVEL FEMALE

PB-LEVEL TIME-PERIOD

	1 MON	3 MON	6 MON	9 MON	12 MON	15 MON	18 MON	21 MON	24 MON
DBPM	100.0000	171.7245	203.5158	181.8605	179.9320	187.6287	201.0200	190.3619	202.0696
10PPM	100.0000	183.1850	232.1690	196.4550	206.0287	224.4477	221.3201	241.8941	216.8082
50PPM	100.0000	160.5207	247.2205	229.6504	221.8591	244.1916	241.1239	233.4479	243.5145
100PPM	100.0000	152.0261	255.0856	248.4418	229.0492	251.0591	250.9015	257.4606	251.2562
500PPM	100.0000	223.6991	267.0136	258.8049	251.4115	266.0461	270.4523	269.3899	273.3265

SYMBOLS USED IN 2- AND 3-WAY MEANS PLOTS

- 1 - LEVEL 1
- 2 - LEVEL 2
- 3 - LEVEL 3
- 4 - LEVEL 4
- 5 - LEVEL 5
- * - REPEATED SYMBOLS

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SEX

MEANS

PH-LEVEL

MEANS

1000

100

[illegible][illegible]

94.10129.20164.30199.40234.50269.60304.70

LOG NO 06229

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DATE 10 MAR 72 PRIORITY D MAN/SEC 01698 /55800 CARDS IN 386 MAX PAGES 300 END TIME 14:45:25 MAX TIME 00:05:00

IDENT ACUFF/SNEE LEAD FE CHARGE J6444 / CARDS OUT 0 PAGES 46 START TIME 14:45:55 BILLED TIME 00:00:28

N36869.01

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