

*****MODEL NFAC=4,NOD=2,RFCE=1,DESIGN=PNC,ABC(AB)D,CODESET/

*****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=DO6,NLEV=4,LNAME=1,2,3,4,LCODE=1,2,3,4,FIXED=F/

*****FACTOR4 NAME=TIME-PERIOD,NLEV=6,LNAME=6 MON,9 MON,12 MON,15 MON,18 MON,24 MON,

*****LCODE=06,09,12,15,18,24,FIXED=T/

*****RESPONSE Y24=ALA DEHYDRASE,LOG ALA DEHYDRASE/

*****MEANS 3

*****MEANS PLOT 3

*****OPCODES

OPCODES

MOV 1,1,801

LOG 1,1,10

MPY 1,((100.),802

OUT

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

*****FORMAT(4X,A1,A3,A1,A2,T56,F5.0)

*****DATA NOBS=240,INOV=1

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

Y24=ALA DEHY	LOG ALA DEHY
1 1	2 1 1 1
2 2	8.00000 2 1 1 2
3 3	13.00000 2 11.39434
4 4	10.00000 2 1 1 3
5 5	13.00000 2 1 1 4
	14.00000 2 11.39434
	114.61280

NO. OF INPUT DATA ROWS = 240
NO. OF ROWS DELETED BY LOGICAL TESTS = 0
NO. OF ROWS DELETED FOR MISSING DATA = 0
NO. OF EXPANDED DATA ROWS REMAINING = 240

*****ANOVA

CELL MEAN

18,000.00	24,000.00	25,000.00	29,000.00	42,000.00	20,000.00	20,000.00	25,000.00	32,000.00	14,000.00	18,000.00	15,000.00	25,000.00	33,000.00	14,000.00	14,000.00	14,000.00	15,000.00	21,000.00
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2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)

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1	1	3	2	2	25.0000
1	1	3	2	2	18.0000
1	1	3	2	4	25.0000
1	1	3	2	5	35.0000
1	1	3	2	6	17.0000
1	1	3	3	1	9.0000
1	1	3	3	2	9.0000
1	1	3	3	3	11.0000
1	1	3	3	4	9.0000
1	1	3	3	5	12.0000
1	1	3	3	6	17.0000
1	1	3	4	1	11.0000
1	1	3	4	2	16.0000
1	1	3	4	3	10.0000
1	1	3	4	4	11.0000
1	1	3	4	5	21.0000
1	1	3	4	6	16.0000
1	1	4	1	1	13.0000
1	1	4	1	2	21.0000
1	1	4	1	3	17.0000
1	1	4	1	4	20.0000
1	1	4	1	5	22.0000
1	1	4	1	6	18.0000
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1	1	4	2	2	6.0000
1	1	4	2	3	5.0000
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1	1	4	3	4	7.0000
1	1	4	3	5	12.0000
1	1	4	3	6	9.0000
1	1	4	4	1	11.0000
1	1	4	4	2	11.0000
1	1	4	4	3	13.0000
1	1	4	4	4	12.0000
1	1	4	4	5	15.0000
1	1	4	4	6	12.0000
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1	1	5	2	2	3.0000
1	1	5	2	3	3.0000
1	1	5	2	4	4.0000
1	1	5	2	5	5.0000
1	1	5	2	6	5.0000
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1	1	5	3	2	3.0000
1	1	5	3	3	3.0000
1	1	5	3	4	4.0000
1	1	5	3	5	4.0000
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1	1	5	4	1	2.0000

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1	5	4	5	6.0000
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2	1	1	2	30.0000
2	1	1	2	8.0000
2	1	1	2	14.0000
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2	1	1	2	20.0000
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2	1	1	2	10.0000
2	1	1	2	6.0000
2	1	1	2	14.0000
2	1	1	2	11.0000
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2	1	1	2	9.0000

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)

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2	3	2	2	3	13.0000
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2	3	3	2	4	12.0000
2	3	3	2	5	13.0000
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2	3	3	3	1	8.0000
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2	3	3	4	3	22.0000
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2	3	3	4	6	4.0000
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2	3	4	1	3	5.0000
2	3	4	1	4	12.0000
2	3	4	1	5	6.0000
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2	3	5	3	4	2.0000
2	3	5	3	5	3.0000
2	3	5	3	6	5.0000
2	3	5	4	1	1.0000

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y2N)

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PAGE

4.0000
5.0000
3.0000
4.0000
5.0000

2 5 4 2
2 5 4 3
2 5 4 4
2 5 4 5
2 5 4 6

15.51667

GRAND MEAN

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)
EXPECTED MEAN SQUARE TABLE

SOURCE OF VARIATION

EXPECTED MEAN SQUARE

A = SEX

6(C) + 120(A)

B = PB-LEVEL

6(C) + 48(B)

AB

6(C) + 24(AB)

C' = DOG

6(C)

D = TIME-PERIOD

1(CD) + 40(D)

AD

1(CD) + 20(AD)

BD

1(CD) + 8(BD)

ABD

1(CD) + 4(ABD)

CD

1(CD)

RESPONSE NUMBER 1 Y24=ALA DEHYDRASE

ANOVA TABLE

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARE	F RATIO
TOTAL	239	.23444+05		
A = SEX	1	.16335+03	163.34997	.86
B = PB-LEVEL	4	.12754+05	3188.51453	1.74 **
4B	4	.67861+03	169.65207	.89
C = D06	30	.57139+04	190.46387	17.27 **
D = TIME-PERIOD	5	.13376+04	267.51665	24.25 **
AD	5	.25390+03	50.78000	4.60 **
BD	20	.49654+03	24.82708	2.25 **
ABD	20	.39159+03	19.56958	1.77 *
CD	150	.16546+04	11.03055	

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

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

RESPONSE NUMBER 1 Y24=ALA DEHYDRASE

MEANS TABLES

SEX MEANS

SEX	MEANS
MALE	16.3417
FEMALE	14.6917

STANDARD ERROR OF A MEAN = 1.2598
 95% CONFIDENCE LIMITS = 2.5729
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 1.7817
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 3.6367

PB-LEVEL MEANS

OPPM	10PPM	50PPM	100PPM	500PPM
23.4375	21.7708	17.8333	10.6250	3.9167

STANDARD ERROR OF A MEAN = 1.9920
 95% CONFIDENCE LIMITS = 4.0681
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 2.8171
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 5.7532

SEX * PB-LEVEL INTERACTION

SEX PB-LEVEL

OPPM	10PPM	50PPM	100PPM	500PPM
MALE	24.9583	24.8333	15.8750	12.0417
FEMALE	21.9167	18.7083	19.7917	9.2083
DIFFERENCES	3.0417	6.1250	-3.9167	2.8333

STANDARD ERROR OF A MEAN = 2.0171
 95% CONFIDENCE LIMITS = 5.7532
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 3.9849
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 8.1365

THREE WAY TABLE OF MEANS FOR FACTORS SEX
SEX AT LEVEL MALE

PB-LEVEL DOG

PB-LEVEL DOG

	1	2	3	4
0PPM	26.3333	27.0000	25.8333	20.6667
10PPM	15.6667	21.5000	31.1667	31.0000
50PPM	14.5000	23.6667	11.1667	14.1667
100PPM	18.5000	8.0000	9.0000	12.6667
500PPM	3.3333	3.8333	3.8333	5.0000

SEX AT LEVEL FEMALE

PB-LEVEL DOG

	1	2	3	4
0PPM	11.5000	30.0000	26.3333	19.8333
10PPM	20.0000	20.0000	25.0000	9.8333
50PPM	30.8333	11.5000	14.8333	22.0000
100PPM	7.1667	11.6667	4.1667	13.8333
500PPM	3.8333	4.3333	3.5000	3.6667

TIME-PERIOD

MEANS

	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
	11.5000	15.8000	14.3000	15.7000	19.3750	16.4250

STANDARD ERROR OF A MEAN =

.5251

95% CONFIDENCE LIMITS =

1.0376

STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS =

.7826

LEAST SIGNIFICANT DIFFERENCE (LSD) =

1.4674

SEX * TIME-PERIOD INTERACTION

SEX TIME-PERIOD

	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
MALE	13.4000	16.5000	13.4000	16.8000	19.4500	18.5000
FEMALE	9.6000	15.1000	15.2000	18.6000	19.3000	14.3500

	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
DIFFERENCES	3.8000	1.4000	-1.8000	2.2000	.1500	4.1500

PB-LEVEL * TIME-PERIOD INTERACTION

PB-LEVEL TIME-PERIOD

	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
OPPM	16.7500	23.3750	20.8750	23.8750	28.8750	26.8750
10PPM	17.7500	23.5000	19.1250	22.1250	28.0000	20.1250
50PPM	13.5000	18.6250	16.6250	17.1250	22.6250	18.5000
100PPM	7.8250	9.7500	10.7500	11.7500	12.8750	11.0000
500PPM	1.8750	3.7500	4.1250	3.6250	4.5000	5.6250

THREE WAY TABLE OF MEANS FOR FACTORS SEX
AT LEVEL MALE

PB-LEVEL * TIME-PERIOD

SEX

PB-LEVEL TIME-PERIOD

	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
OPPM	18.0000	24.0000	19.5000	24.0000	29.7500	34.5000
10PPM	23.0000	26.7500	21.0000	26.2500	28.7500	23.2500
50PPM	13.5000	16.2500	13.2500	14.7500	21.2500	16.2500
100PPM	10.0000	12.0000	10.2500	14.7500	12.7500	12.5000
500PPM	2.5000	3.5000	3.0000	4.2500	4.7500	6.0000

SEX AT LEVEL FEMALE

PB-LEVEL TIME-PERIOD

	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
0PPM	15.5000	22.7500	22.2500	23.7500	28.0000	19.2500
10PPM	12.5000	20.2500	17.2500	18.0000	27.2500	17.0000
50PPM	13.5000	21.0000	20.0000	19.5000	24.0000	20.7500
100PPM	5.2500	7.5000	11.2500	8.7500	13.0000	9.5000
500PPM	1.2500	4.0000	5.2500	3.0000	4.2500	5.2500

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

か5

MEANS

か5

[illegible][illegible]

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* PB-LEVEL * D
AT LEVEL MALE

	1	2	1		1	
PB-LEVEL	2	1			2	1
	1	2			3	*
	2	1			23	4
	*				1*4	
	.25	6.15	12.05	17.95	23.85	29.75
						35.65

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TIME PERIOD * SEX

TIME--PERIOD

* PB=LEVEL

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1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)
 RESPONSE NUMBER 2 LOG ALA DEHYDRASE

PAGE 20

CELL IDENTIFICATION

CELL MEAN

1	1	1	1	125.5273
1	1	1	2	138.0211
1	1	1	3	130.1030
1	1	1	4	139.7940
1	1	1	5	146.2398
1	1	1	6	162.3249
1	1	2	1	130.1030
1	1	2	2	146.2398
1	1	2	3	138.0211
1	1	2	4	144.7158
1	1	2	5	155.6302
1	1	2	6	139.7940
1	1	3	1	130.1030
1	1	3	2	139.7940
1	1	3	3	130.1030
1	1	3	4	139.7940
1	1	3	5	151.8514
1	1	3	6	150.5150
1	1	4	1	114.6128
1	1	4	2	125.5273
1	1	4	3	114.6128
1	1	4	4	125.5273
1	1	4	5	132.2219
1	1	4	6	159.1065
1	2	1	1	123.0449
1	2	1	2	123.0449
1	2	1	3	117.6091
1	2	1	4	111.3943
1	2	1	5	120.4120
1	2	1	6	120.4120
1	2	2	1	127.8754
1	2	2	2	136.1728
1	2	2	3	125.5273
1	2	2	4	138.0211
1	2	2	5	139.7940
1	2	2	6	130.1030
1	2	3	1	143.1364
1	2	3	2	154.4068
1	2	3	3	139.7940
1	2	3	4	153.1479
1	2	3	5	155.6302
1	2	3	6	147.7121
1	2	4	1	146.2398
1	2	4	2	150.5150
1	2	4	3	141.4973
1	2	4	4	153.1479
1	2	4	5	157.9784
1	2	4	6	143.1364
1	3	1	1	111.3943
1	3	1	2	114.6128
1	3	1	3	114.6128
1	3	1	4	114.6128
1	3	1	5	123.0449
1	3	1	6	117.6091
1	3	2	1	132.2219

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2-YEAR LEAD-FEEDING STUDY - DOOS BLOOD CHEMISTRY DATA (Y24)

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1	3	2	2	141.4973
1	3	2	3	125.5273
1	3	2	4	139.7940
1	3	2	5	154.4068
1	3	2	6	123.0449
1	3	3	1	95.4243
1	3	3	2	95.4243
1	3	3	3	104.1393
1	3	3	4	95.4243
1	3	3	5	107.9181
1	3	3	6	123.0449
1	3	4	1	104.1393
1	3	4	2	120.4120
1	3	4	3	100.0000
1	3	4	4	104.1393
1	3	4	5	132.2219
1	3	4	6	120.4120
1	3	4	1	111.3943
1	4	1	2	132.2219
1	4	1	3	123.0449
1	4	1	4	130.1030
1	4	1	5	134.2423
1	4	2	1	125.5273
1	4	2	2	95.4243
1	4	2	3	77.8151
1	4	2	4	69.8970
1	4	2	5	107.9181
1	4	2	6	90.3090
1	4	3	1	84.5098
1	4	3	2	90.3090
1	4	3	3	84.5098
1	4	3	4	107.9181
1	4	3	5	95.4243
1	4	3	6	104.1393
1	4	4	1	104.1393
1	4	4	2	111.3943
1	4	4	3	107.9181
1	4	4	4	117.6091
1	4	4	5	107.9181
1	4	4	6	111.3943
1	5	1	1	30.1030
1	5	1	2	30.1030
1	5	1	3	30.1030
1	5	1	4	60.2060
1	5	1	5	60.2060
1	5	1	6	77.8151
1	5	2	1	47.7121
1	5	2	2	47.7121
1	5	2	3	47.7121
1	5	2	4	60.2060
1	5	2	5	69.8970
1	5	2	6	69.8970
1	5	3	1	47.7121
1	5	3	2	47.7121
1	5	3	3	47.7121
1	5	3	4	60.2060
1	5	3	5	60.2060
1	5	3	6	77.8151
1	5	4	1	30.1030

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)

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1	5	4	2	77.8151
1	5	4	3	60.2060
1	5	4	4	69.8970
1	5	4	5	77.8151
1	5	4	6	84.5096
2	1	1	1	90.3090
2	1	1	2	111.3943
2	1	1	3	100.0000
2	1	1	4	111.3943
2	1	1	5	114.6128
2	1	1	6	104.1393
2	1	2	1	134.2423
2	1	2	2	155.6302
2	1	2	3	147.7121
2	1	2	4	149.1362
2	1	2	5	159.1065
2	1	3	1	134.2423
2	1	3	2	114.6128
2	1	3	3	130.1030
2	1	3	4	153.1479
2	1	3	5	147.7121
2	1	4	1	147.7121
2	1	4	2	125.5273
2	1	4	3	134.2423
2	1	4	4	117.6091
2	1	4	5	132.2219
2	1	4	6	146.2398
2	1	5	1	114.6128
2	1	5	2	107.9181
2	1	5	3	136.1728
2	1	5	4	134.2423
2	1	5	5	139.7940
2	1	5	6	147.7121
2	2	2	1	90.3090
2	2	2	2	114.6128
2	2	2	3	134.2423
2	2	2	4	127.8754
2	2	2	5	130.1030
2	2	2	6	144.7158
2	2	3	1	123.0449
2	2	3	2	127.8754
2	2	3	3	139.7940
2	2	3	4	125.5273
2	2	3	5	127.8754
2	2	3	6	156.8202
2	2	4	1	150.5150
2	2	4	2	69.8970
2	2	4	3	104.1393
2	2	4	4	100.0000
2	2	4	5	90.3090
2	2	4	6	114.6128
2	2	5	1	104.1393
2	2	5	2	136.1728
2	2	5	3	150.5150
2	2	5	4	147.7121
2	2	5	5	146.2398
2	2	5	6	150.5150
2	2	6	1	159.1065
2	2	6	2	95.4243

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Etes

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)

PAGE 24

63

60.2060
69.8970
47.7121
60.2060
69.8970

2 5 4 2
2 5 4 3
2 5 4 4
2 5 4 5
2 5 4 6

107.50594

GRAND MEAN

RESPONSE NUMBER 2 LOG ALA DEHYDRASE

ANOVA TABLE

SOURCE OF VARIATION	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARE	F RATIO
TOTAL	239	.29964+06		
A = SEX	1	.28434+04	.28434+04	1.93
B = PR-LEVEL	4	.20398+06	.50995+05	34.67 **
AB	4	.45567+04	.11392+04	.77
C = D06	30	.44120+05	.14707+04	18.27 **
D = TIME-PERIOD	5	.17217+05	.34434+04	42.78 **
AD	5	.51540+04	.10308+04	12.81 **
BD	20	.60026+04	.30013+03	3.73 **
ABD	20	.36923+04	.18462+03	2.29 **
CD	150	.12074+05	.80491+02	

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

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

RESPONSE NUMBER 2 LOG ALA DEHYDRASE

MEANS TABLES

SEX MEANS

SEX	MALE	FEMALE
	110.9490	108.0649

STANDARD ERROR OF A MEAN = 3.5009
 95% CONFIDENCE LIMITS = 7.1496
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 4.9509
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 10.1110

PB-LEVEL MEANS

OPPM	10PPM	50PPM	100PPM	500PPM
	134.0345	130.0416	121.3606	96.8693

STANDARD ERROR OF A MEAN = 8.6353
 95% CONFIDENCE LIMITS = 11.3044
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 7.8281
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 15.9869

SEX * PB-LEVEL INTERACTION

SEX PB-LEVEL

	OPPM	10PPM	50PPM	100PPM	500PPM
MALE	137.9284	137.4897	117.2949	104.8079	57.2242
FEMALE	130.1405	122.5936	125.4262	88.9307	53.2336
DIFFERENCES	7.7879	14.8961	-8.1313	15.8772	3.9904

STANDARD ERROR OF A MEAN = 7.8281
 95% CONFIDENCE LIMITS = 15.9869
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 11.0705
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 22.6089

THREE WAY TABLE OF MEANS FOR FACTORS SEX
SEX , PB-LEVEL , DOG

PB-LEVEL	DOG	1	2	3	4
0PPM		140.3350	142.4173	140.3601	128.6014
10PPM		119.3195	132.9186	148.9712	148.7525
50PPM		115.9811	136.0820	103.5625	113.5541
100PPM		126.0889	88.6121	94.4684	110.0622
500PPM		48.0894	57.1894	56.8939	56.7243

SEX AT LEVEL FEMALE

PB-LEVEL	DOG	1	2	3	4
0PPM		105.3083	146.6783	140.1667	138.4089
10PPM		126.0247	129.0990	138.0679	97.1829
50PPM		148.3769	105.6749	114.8137	132.8999
100PPM		82.2752	104.5258	55.8697	113.0520
500PPM		56.3369	57.6565	47.6222	51.3197

TIME-PERIOD MEANS

TIME-PERIOD	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
	90.6139	108.2481	106.3164	106.8103	116.0516	113.0017

STANDARD ERROR OF A MEAN = 1.4185
 95% CONFIDENCE LIMITS = 2.8029
 STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS = 2.0061
 LEAST SIGNIFICANT DIFFERENCE (LSD) = 3.9639

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)

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SEX	* TIME=PERIOD		INTERACTION			
SEX	TIME-PERIOD					
	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
MALE	101.7460	110.0375	102.6325	113.6788	118.6684	118.9311
FEMALE	79.4819	106.4586	110.0003	103.9417	117.4349	107.0724
DIFFERENCES	22.2641	3.5789	-7.3678	9.7371	1.2335	11.8587

PB-LEVEL	* TIME-PERIOD		INTERACTION			
PB-LEVEL	TIME-PERIOD					
	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
0PPM	120.6297	135.1190	128.9136	136.2869	144.2018	139.0559
10PPM	120.0750	134.8110	126.5091	130.4741	142.2094	126.1715
50PPM	109.9623	123.1138	118.5127	119.9975	132.5823	123.2949
100PPM	79.1861	92.6759	98.7133	102.7618	106.7851	101.0936
500PPM	23.2167	55.5208	58.9333	54.5310	64.4795	74.6929

THREE WAY TABLE OF MEANS FOR FACTORS SEX , PB-LEVEL , TIME-PERIOD
 SEX AT LEVEL MALE

PB-LEVEL	TIME-PERIOD					
	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
0PPM	125.0865	137.3955	128.2100	137.4578	146.4858	152.9351
10PPM	135.0741	141.0349	131.1069	138.9278	143.4537	135.3409
50PPM	110.7949	117.9866	111.0698	115.4926	129.3979	121.0277
100PPM	98.8669	102.9351	96.3425	115.8871	106.9734	107.8425
500PPM	38.9076	50.8356	46.4333	62.6287	67.0310	77.5093

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SEX AT LEVEL FEMALE

PB-LEVEL TIME-PERIOD

0PPM	6 MON	9 MON	12 MON	15 MON	18 MON	24 MON
10PPM	116.1728	132.8425	129.6173	135.1161	141.9178	125.1766
50PPM	105.0758	128.5871	121.9112	122.0203	140.9652	117.8020
100PPM	109.1297	128.2410	125.9556	126.5023	135.7667	126.9921
500PPM	59.5053	82.4166	101.0841	89.6365	106.5968	94.3447
	7.5257	60.2060	71.4333	46.4333	61.9280	71.8765

SYMBOLS USED IN 2- AND 3-HAY MEANS PLOTS

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

SEX	MEANS	PB-LEVEL	MEANS
	+-----+-----+-----+-----+-----+ I 1 + * I I 2 + * I I +-----+-----+-----+-----+-----+ 3.20 28.90 54.60 80.30 106.00 131.70 157.40		+-----+-----+-----+-----+-----+ I 1 + I I 2 + I 3 + I I 4 + I 5 + * I +-----+-----+-----+-----+-----+ 3.20 28.90 54.60 80.30

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* PB-LEVEL
AT LEVEL MALE

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	I								I
2	+							2 1	+
	I								I
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4	+							2 1	+
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+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+									
3.20 28.90 54.60 80.30106.00131.70157.40									

2-YEAR LEAD-FEEDING STUDY - DOGS BLOOD CHEMISTRY DATA (Y24)

SEX
SEX

* PB-LEVEL
AT LEVEL FEMALE

TIME-PERIOD

PAGE
MEANS

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