APPENDIX 2

STATISTICS

Body weights
Column statistics

	Veh	Me	HMR 10	HMR 30	HMR 100
Number of values	8	8	8	8	7
Minimum	288.0	320.0	312.0	316.0	313.0
25% Percentile	324.0	332.0	321.5	320.0	329.5
Median	356.0	348.5	330.5	331.0	344.0
75% Percentile	360.5	354.5	336.0	342.0	348.0
Maximum	374.0	355.0	372.0	358.0	366.0
Mean	342.9	343.1	332.5	332.5	339.7
Std. Deviation	28.71	14.41	17.98	14.92	17.32
Std. Error	10.15	5.094	6.356	5.275	6.545
Lower 95% CI	318.9	331.1	317.5	320.0	323.7
Upper 95% CI	366.9	355.2	347.5	345.0	355.7

HMR
One-way analysis of variance for weights

P value 0.6662
P value summary ns
Are means signif. different? **(P < 0.05) No**
Number of groups 5
F 0.5986
R squared 0.06579

Bartlett's test for equal variances
Bartlett's statistic (corrected) 4.635
P value 0.3269
P value summary ns
Do the variances differ signif. (P < 0.05) No

ANOVA Table	SS	df	MS
Treatment (between columns)	904.4	4	226.1
Residual (within columns)	12840	34	377.7
Total	13750	38	

No post tests. P > 0.05

P11.4-1999 ; test HMR
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January 7, 2000

General Linear Models Procedure
Class Level Information

Class	Levels	Values
TREAT	5	HMR 10 HMR 100 HMR 30 Me Vehicle

Number of observations in data set = 40

NOTE: Due to missing values, only 39 observations can be used in this analysis.

Analysis of variance

General Linear Models Procedure

Dependent Variable: MIN

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	59190.86721612	14797.71680403	28.68	0.0001
Error	34	17544.10714286	516.00315126		
Corrected Total	38	76734.97435897			

R-Square	C.V.	Root MSE	MIN Mean
0.771368	22.57102	22.71570275	100.64102564

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TREAT	**4**	**59190.86721612**	**14797.71680403**	**28.68**	**0.0001**

Post hoc test: Tukey

Least Squares Means
Adjustment for multiple comparisons: Tukey-Kramer

TREAT	MIN LSMEAN	Pr > |T| H0: LSMEAN(i)=LSMEAN(j) i/j	1	2	3	4	5
HMR 10	78.875000	1	.	0.9993	0.9061	0.0001	1.0000
HMR 100	76.142857	2	0.9993	.	0.8192	0.0001	0.9985
HMR 30	88.750000	3	0.9061	0.8192	.	0.0001	0.9244
Me	176.875000	4	0.0001	0.0001	0.0001	.	0.0001
Vehicle	79.500000	5	1.0000	0.9985	0.9244	0.0001	.

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General Linear Models Procedure
Least Squares Means

TREAT	95% Lower Confidence Limit	MIN LSMEAN	95% Upper Confidence Limit
HMR 10	62.553610	78.875000	95.196390
HMR 100	58.694557	76.142857	93.591157
HMR 30	72.428610	88.750000	105.071390
Me	160.553610	176.875000	193.196390
Vehicle	63.178610	79.500000	95.821390

General Linear Models Procedure
Least Squares Means
Adjustment for multiple comparisons: Tukey-Kramer
Least Squares Means for effect TREAT
95% Confidence Limits for LSMEAN(i)-LSMEAN(j)

i	j	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
1	2	-31.121268	2.732143	36.585554
1	3	-42.580502	-9.875000	22.830502
1	4	-130.705502	-98.000000	-65.294498
1	5	-33.330502	-0.625000	32.080502
2	3	-46.460554	-12.607143	21.246268
2	4	-134.585554	-100.732143	-66.878732
2	5	-37.210554	-3.357143	30.496268
3	4	-120.830502	-88.125000	-55.419498
3	5	-23.455502	9.250000	41.955502
4	5	64.669498	97.375000	130.080502

Checking of the assumptions of normal distribution

Univariate Procedure

Variable=R

Moments

N	39	Sum Wgts	39	100% Max	53.25	99%	53.25
Mean	0	Sum	0	75% Q3	10.125	95%	41.5
Std Dev	21.4869	Variance	461.687	50% Med	-3.875	90%	29.5
Skewness	0.344936	Kurtosis	0.325552	25% Q1	-10.875	10%	-29.875
USS	17544.11	CSS	17544.11	0% Min	-47.75	5%	-33.5
CV	.	Std Mean	3.440658			1%	-47.75
T:Mean=0	0	Pr>|T|	1.0000	Range	101		
Num ^= 0	39	Num > 0	17	Q3-Q1	21		
M(Sign)	-2.5	Pr>=|M|	0.5224	Mode	-7.5		
Sgn Rank	-20	Pr>=|S|	0.7842				
W:Normal	0.972465	Pr<W	0.5542				

Quantiles(Def=5)

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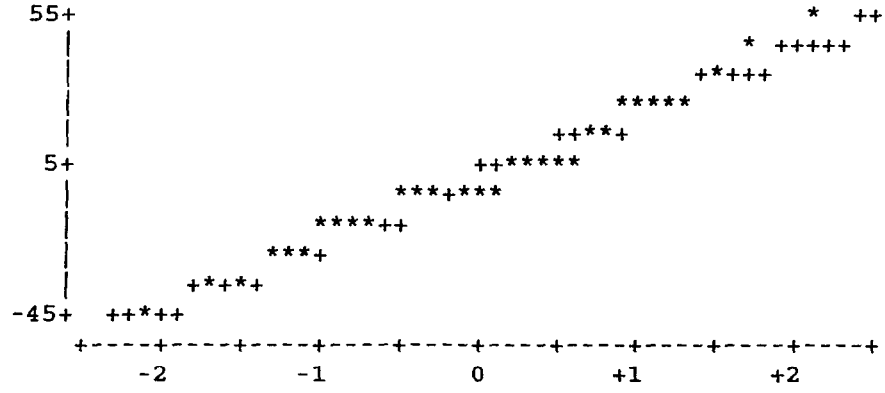
Extremes

Lowest	Obs	Highest	Obs
-47.75(	20)	28.125(	2)
-33.5(	37)	29.5(	33)
-33.1429(	16)	38.85714(	9)
-29.875(	3)	41.5(	35)
-24.75(	18)	53.25(	21)

Missing Value	.
Count	1
% Count/Nobs	2.50

```
Stem Leaf                     #             Boxplot
   5 3                        1                0
   4 2                        1                |
   3 09                       2                |
   2 1258                     4                |
   1 02                       2             +-----+
   0 0246999                  7             |  +  |
  -0 88888876444             11             *-----*
  -1 62211                    5             +-----+
  -2 51                       2                |
  -3 430                      3                |
  -4 8                        1                0
     ----+----+----+----+
Multiply Stem.Leaf by 10**+1
```

Univariate Procedure

Variable=R

Normal Probability Plot