IMPORT successfully completed.

```
Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
        1,        2
HEIGHT (3 levels)
        1,        2,        3
TRUNK (3 levels)
        1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: HR   N: 54   Multiple R: 0.997811827   Squared multiple R: 0.995628443


                         Analysis of Variance

Source               Sum-of-Squares   df  Mean-Square      F-ratio        P

POWER                  1.34427E+04     1  1.34427E+04 7.48355E+03 0.000000000
HEIGHT                 1.44148E+02     2  7.20741E+01 4.01237E+01 0.000000001
TRUNK                  1.25815E+02     2  6.29074E+01 3.50206E+01 0.000000004
HEIGHT*POWER           3.33333E+01     2  1.66667E+01 9.278350515 0.000562573
TRUNK*POWER            4.41000E+02     2  2.20500E+02 1.22753E+02 0.000000000
TRUNK*HEIGHT           1.67296E+02     4  4.18241E+01 2.32835E+01 0.000000001
TRUNK*HEIGHT*POWER     3.73667E+02     4  9.34167E+01 5.20052E+01 0.000000000

Error                  6.46667E+01    36  1.796296296

-------------------------------------------------------------------------------
```
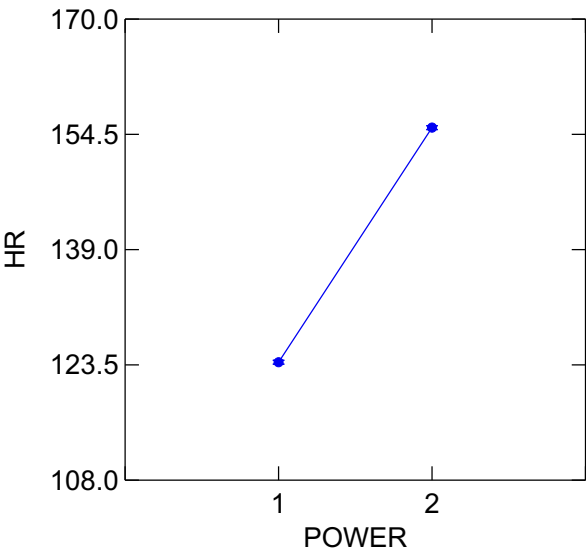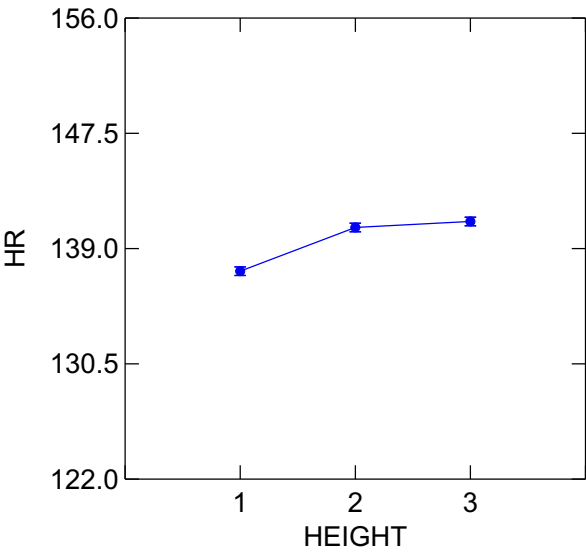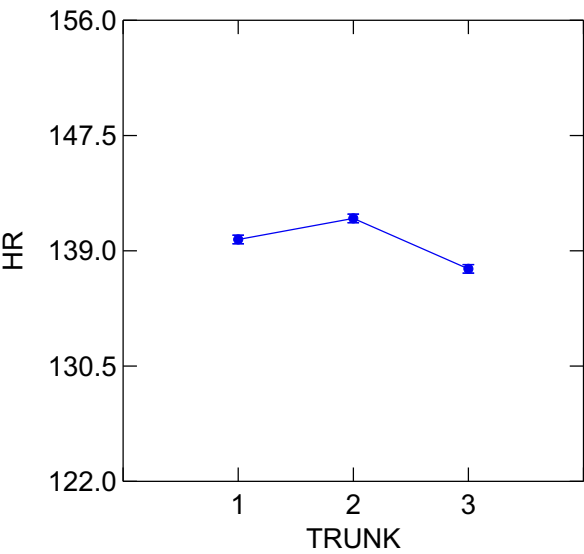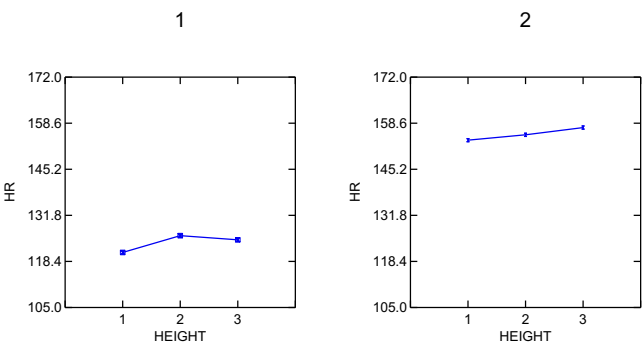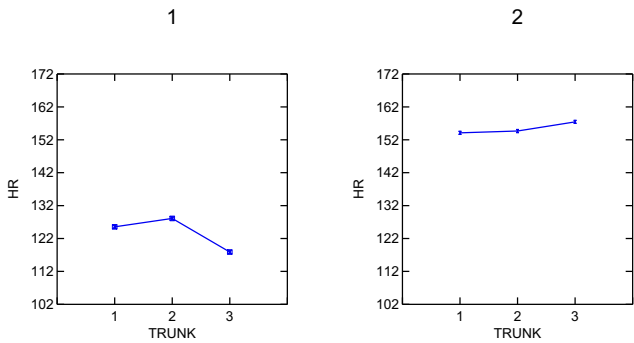
Least Squares Means
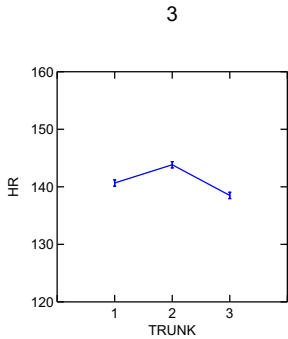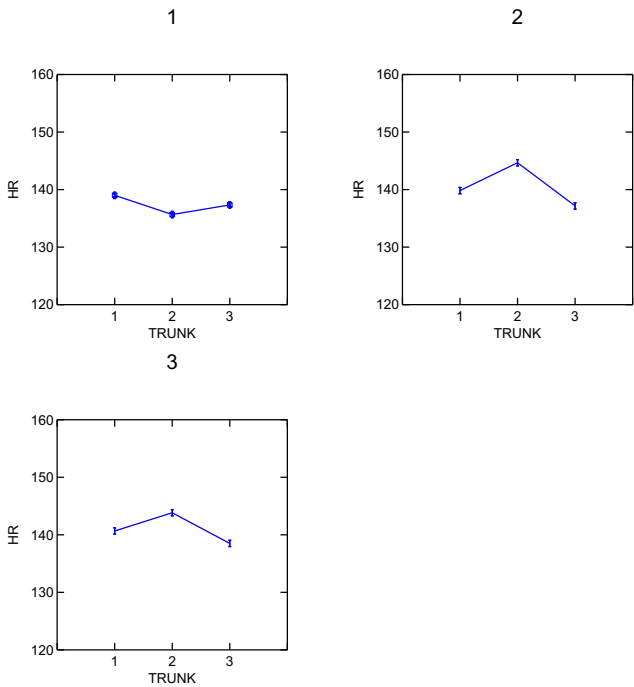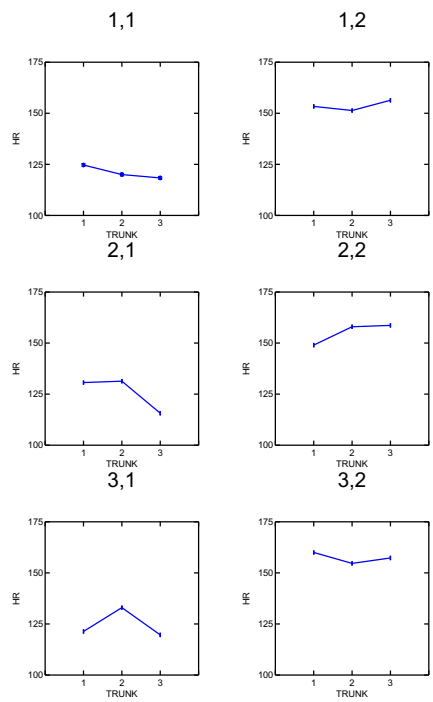

Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means

```
Durbin-Watson D Statistic      2.601
First Order Autocorrelation   -0.308
```

```
Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
        1,        2
HEIGHT (3 levels)
        1,        2,        3
TRUNK (3 levels)
        1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: MECHP   N: 54   Multiple R: 0.999292026   Squared multiple R: 0.998584553
```

Analysis of Variance

| Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
POWER	1.96928E+05	1	1.96928E+05	2.50215E+04	0.000000000
HEIGHT	3.40037E+02	2	1.70019E+02	2.16024E+01	0.000000685
TRUNK	3.67259E+02	2	1.83630E+02	2.33318E+01	0.000000318
HEIGHT*POWER	5.77000E+02	2	2.88500E+02	3.66565E+01	0.000000002

```
TRUNK*POWER          4.11111E+02     2  2.05556E+02 2.61176E+01 0.000000098
TRUNK*HEIGHT         2.05852E+02     4  5.14630E+01 6.538823529 0.000461368
TRUNK*HEIGHT*POWER   1.05956E+03     4  2.64889E+02 3.36565E+01 0.000000000

Error                2.83333E+02    36  7.870370370
```
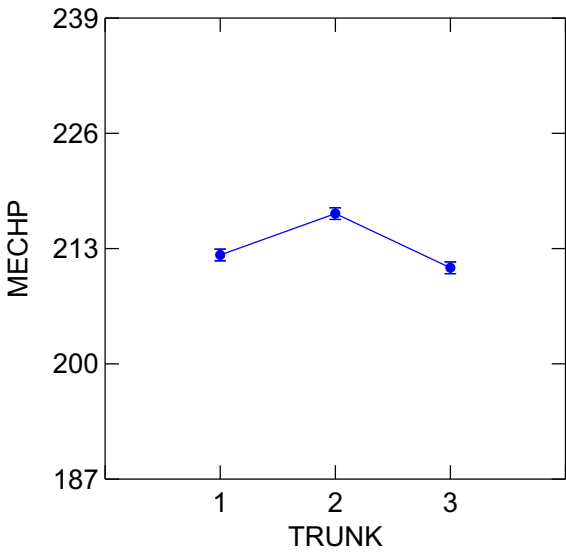
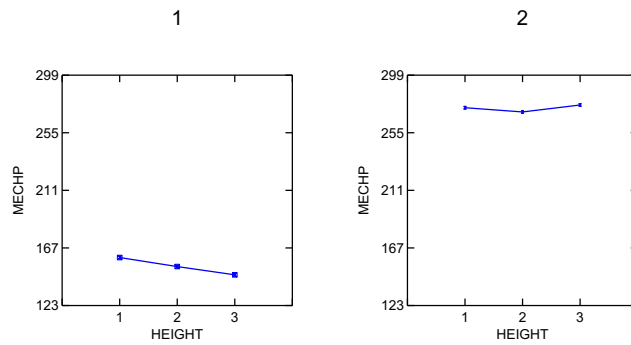---

Least Squares Means
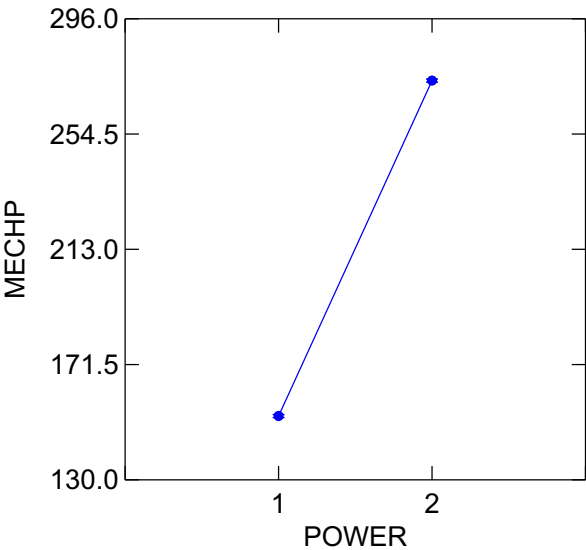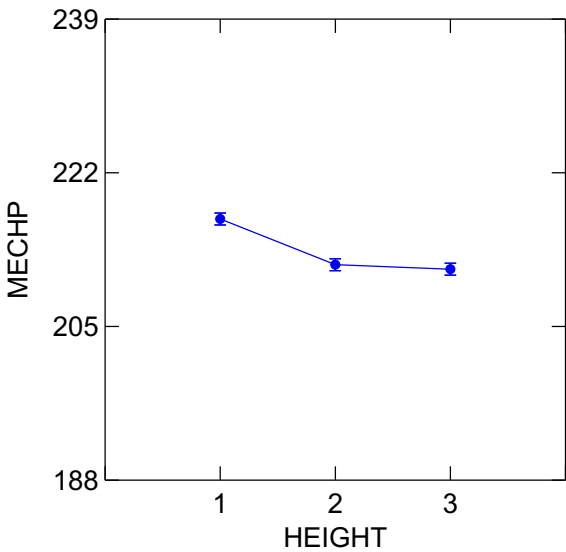
Least Squares Means
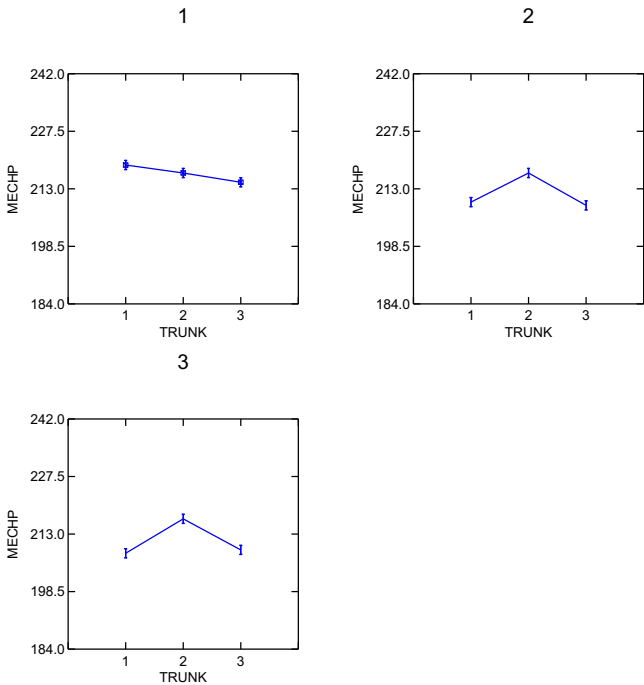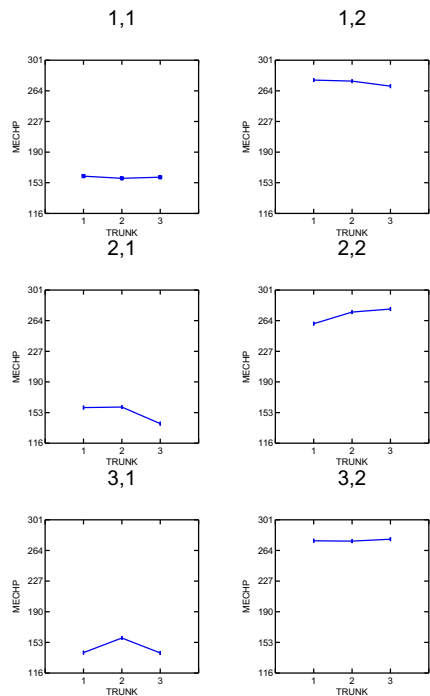

Least Squares Means

Least Squares Means

1

2

Least Squares Means

1

2

Least Squares Means

1

2

3
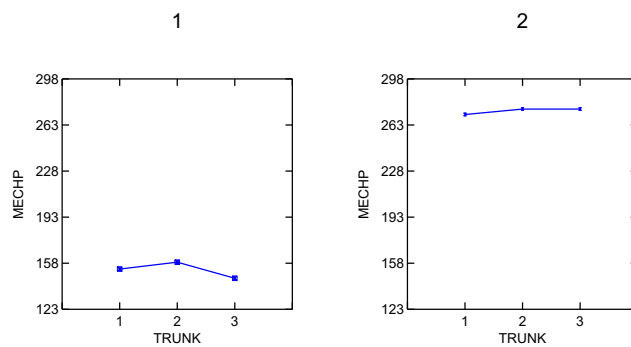
Least Squares Means

```
Durbin-Watson D Statistic      2.596
First Order Autocorrelation  -0.311
```

```
Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
        1,       2
HEIGHT (3 levels)
        1,       2,       3
TRUNK (3 levels)
        1,       2,       3
5 case(s) deleted due to missing data.

Dep Var: VE   N: 54   Multiple R: 0.996213982   Squared multiple R: 0.992442299
```

Analysis of Variance

| Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
POWER	2.54224E+04	1	2.54224E+04	4.46446E+03	0.000000000
HEIGHT	3.37343E+02	2	1.68672E+02	2.96206E+01	0.000000025
TRUNK	6.06795E+02	2	3.03397E+02	5.32800E+01	0.000000000
HEIGHT*POWER	6.64494E+01	2	3.32247E+01	5.834633020	0.006384879

```
TRUNK*POWER           1.51038E+02    2  7.55190E+01 1.32620E+01 0.000048373
TRUNK*HEIGHT          1.71283E+02    4  4.28208E+01 7.519807816 0.000164347
TRUNK*HEIGHT*POWER    1.64087E+02    4  4.10217E+01 7.203878213 0.000227815

Error                 2.04998E+02   36  5.694394444
```
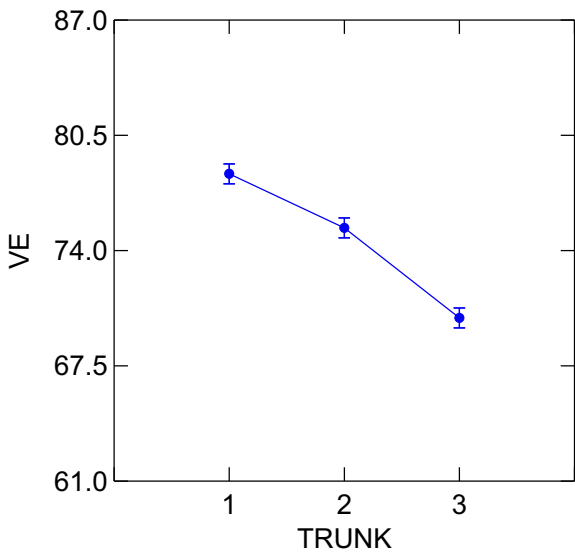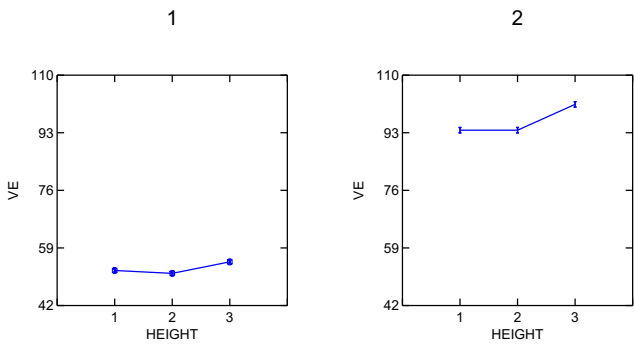

Least Squares Means
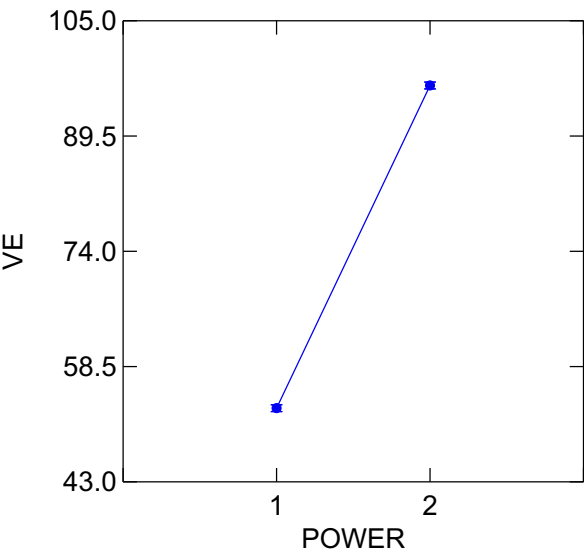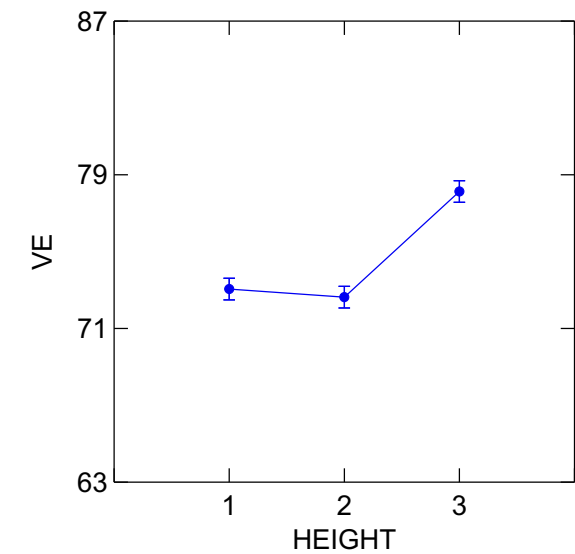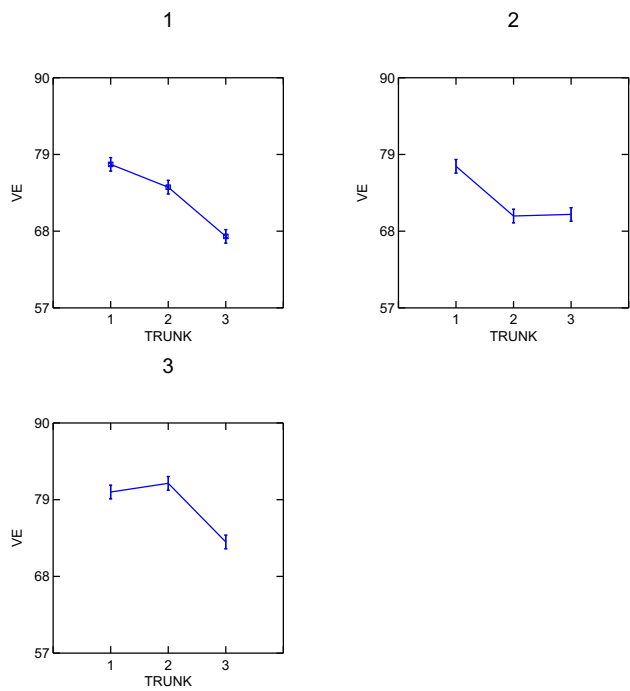
Least Squares Means
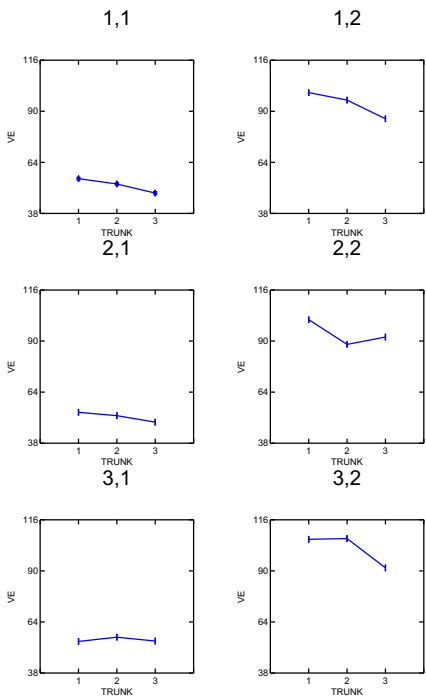

Least Squares Means

Least Squares Means

1

2

Least Squares Means

1

2

Least Squares Means

1

2

3
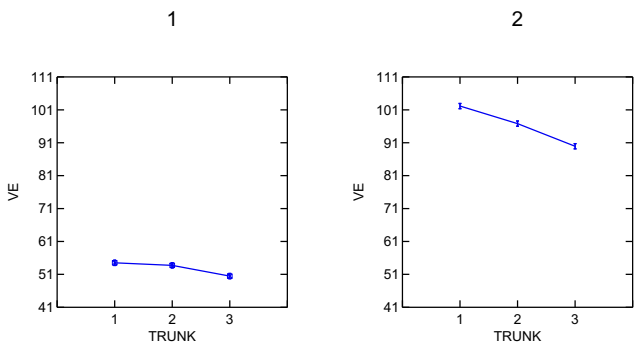
Least Squares Means


```
*** WARNING ***
Case           28 is an outlier        (Studentized Residual = -3.665110684)


Durbin-Watson D Statistic    2.563
First Order Autocorrelation  -0.284




Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
         1,        2
HEIGHT (3 levels)
         1,        2,        3
TRUNK (3 levels)
         1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: VO2   N: 54   Multiple R: 0.997016491   Squared multiple R: 0.994041884


                       Analysis of Variance

Source            Sum-of-Squares   df  Mean-Square      F-ratio        P


POWER             4.22588E+01       1  4.22588E+01 4.74028E+03 0.000000000
HEIGHT            3.404292593       2  1.702146296 1.90935E+02 0.000000000
```
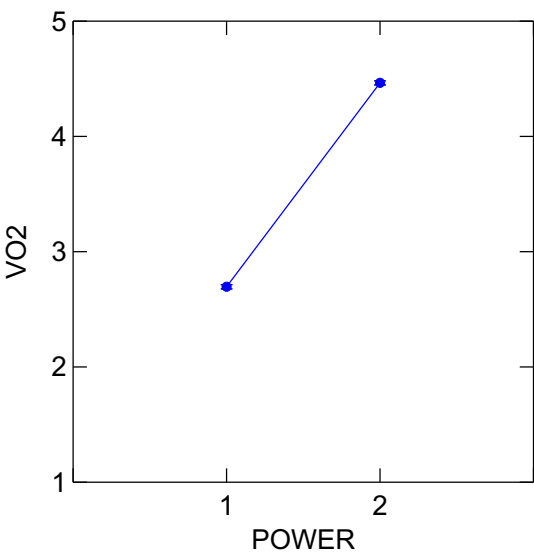
```
TRUNK                 2.067292593    2  1.033646296 1.15947E+02 0.000000000
HEIGHT*POWER          0.130048148    2  0.065024074 7.293934358 0.002190837
TRUNK*POWER           2.492848148    2  1.246424074 1.39815E+02 0.000000000
TRUNK*HEIGHT          0.840362963    4  0.210090741 2.35665E+01 0.000000001
TRUNK*HEIGHT*POWER    2.350362963    4  0.587590741 6.59117E+01 0.000000000

Error                 0.320933333   36  0.008914815
```
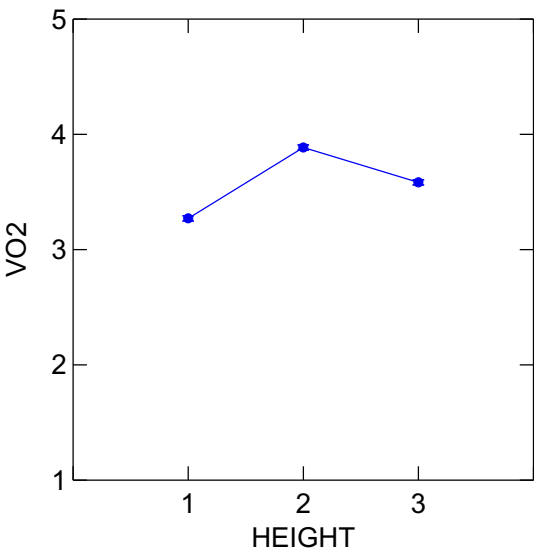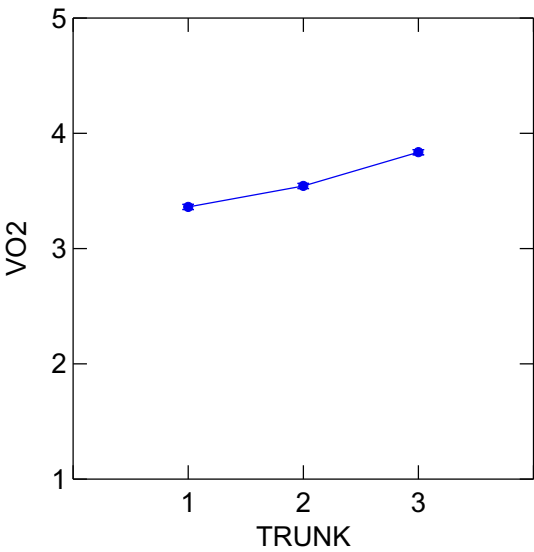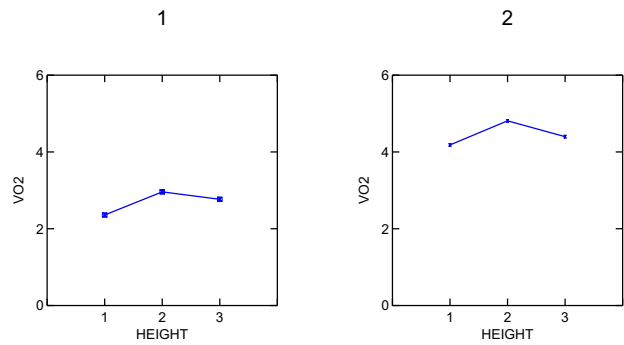

Least Squares Means
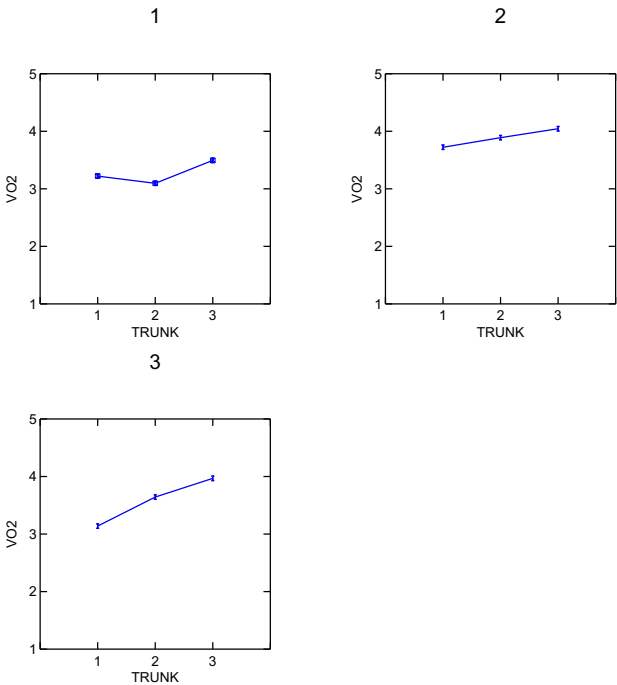
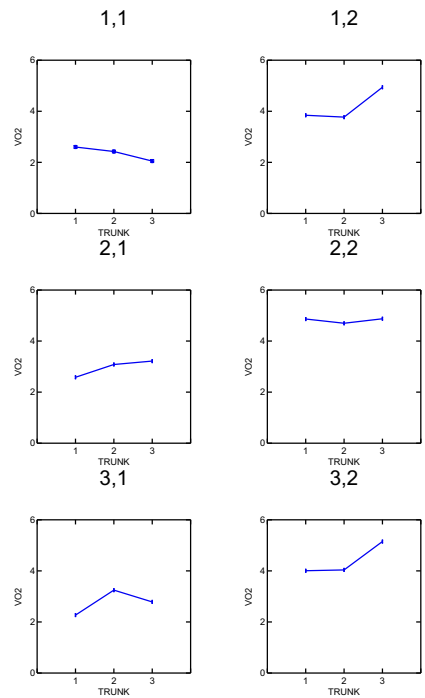## Least Squares Means

Least Squares Means

Least Squares Means

1

2

Least Squares Means

1

2

Least Squares Means

1

2

3
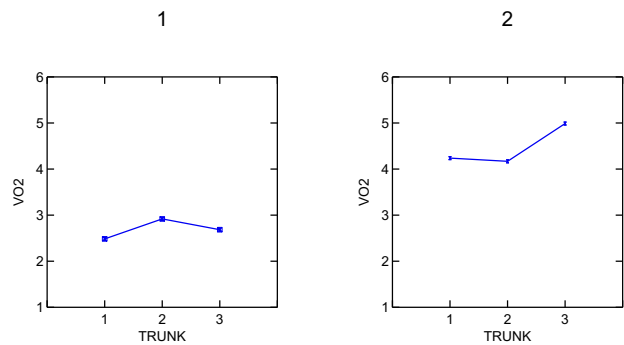
Least Squares Means


```
*** WARNING ***
Case            20 is an outlier         (Studentized Residual =   3.456331086)

Durbin-Watson D Statistic     2.649
First Order Autocorrelation  -0.332



Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
        1,        2
HEIGHT (3 levels)
        1,        2,        3
TRUNK (3 levels)
        1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: RER   N: 54   Multiple R: 0.988218083   Squared multiple R: 0.976574979


                        Analysis of Variance

Source            Sum-of-Squares   df   Mean-Square      F-ratio        P

POWER             0.074593500    1  0.074593500 6.16664E+02 0.000000000
HEIGHT            0.004342704    2  0.002171352 1.79506E+01 0.000003910
```
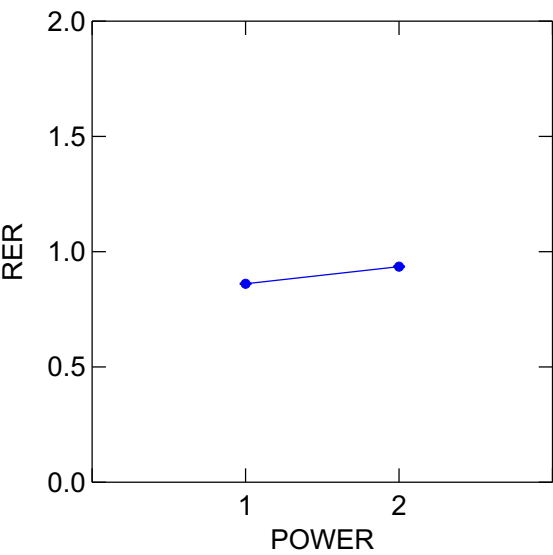
```
TRUNK                  0.002778481      2  0.001389241 1.14848E+01 0.000138716
HEIGHT*POWER           0.003700778      2  0.001850389 1.52972E+01 0.000015545
TRUNK*POWER            0.003502333      2  0.001751167 1.44769E+01 0.000024354
TRUNK*HEIGHT           0.056170074      4  0.014042519 1.16089E+02 0.000000000
TRUNK*HEIGHT*POWER     0.036455556      4  0.009113889 7.53445E+01 0.000000000

Error                  0.004354667     36  0.000120963
```
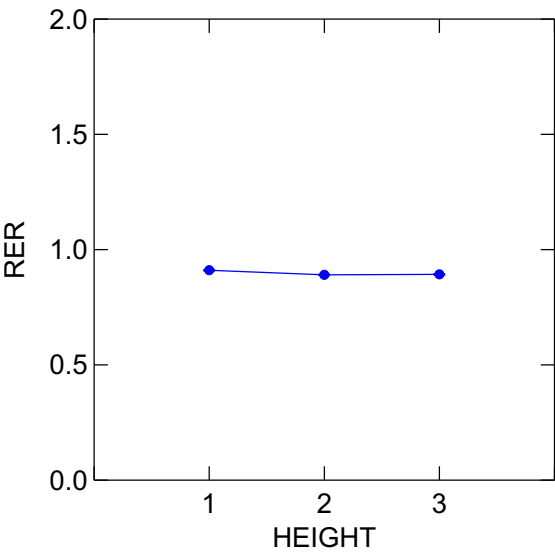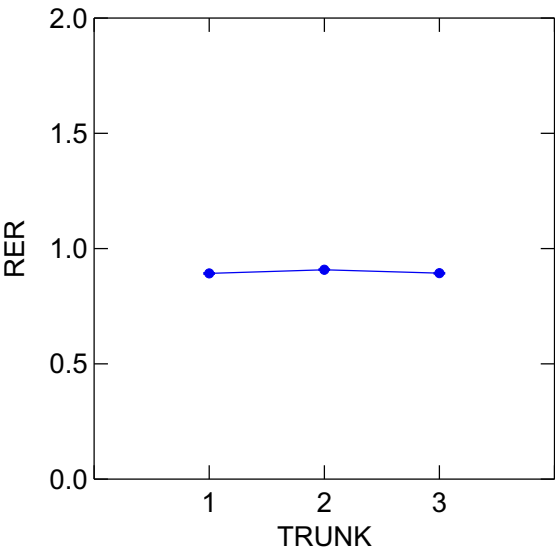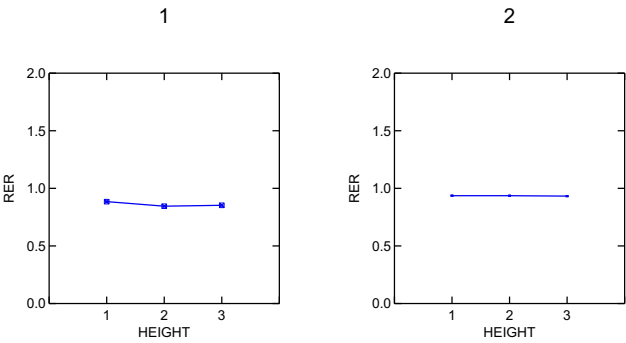

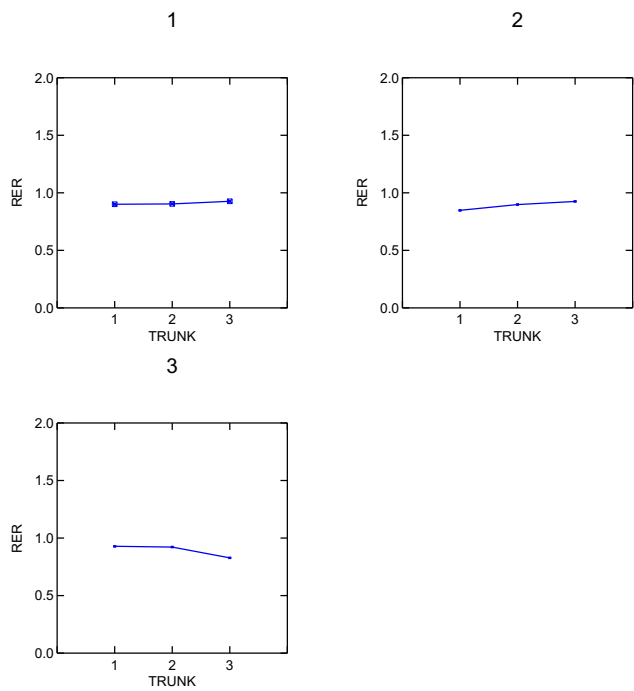## Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means

1	2

Least Squares Means

1	2

Least Squares Means

1

2

3
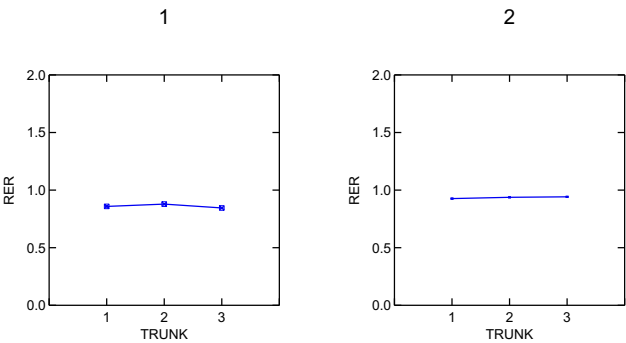
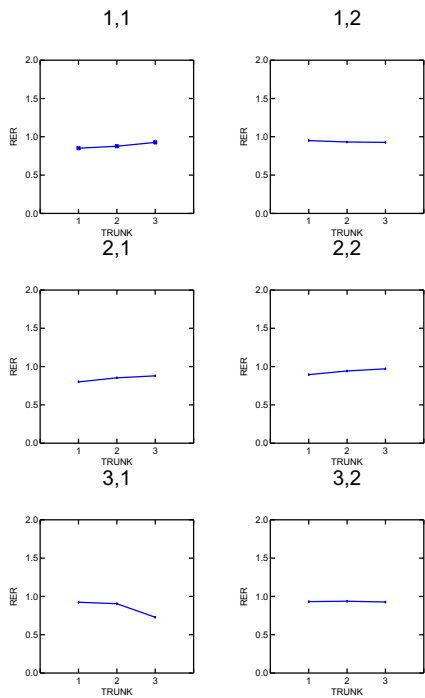## Least Squares Means


```
Durbin-Watson D Statistic      2.019
First Order Autocorrelation   -0.014
```

```
Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
        1,        2
HEIGHT (3 levels)
        1,        2,        3
TRUNK (3 levels)
        1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: EFFIC   N: 54   Multiple R: 0.982573925   Squared multiple R: 0.965451518
```

Analysis of Variance

Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
POWER	0.001005352	1	0.001005352	2.80274E+01	0.000006101
HEIGHT	0.013041815	2	0.006520907	1.81791E+02	0.000000000
TRUNK	0.004153593	2	0.002076796	5.78973E+01	0.000000000
HEIGHT*POWER	0.002435593	2	0.001217796	3.39499E+01	0.000000005

```
TRUNK*POWER           0.003584259     2  0.001792130 4.99613E+01 0.000000000
TRUNK*HEIGHT          0.001881852     4  0.000470463 1.31156E+01 0.000001094
TRUNK*HEIGHT*POWER    0.009983630     4  0.002495907 6.95813E+01 0.000000000

Error                 0.001291333    36  0.000035870
```
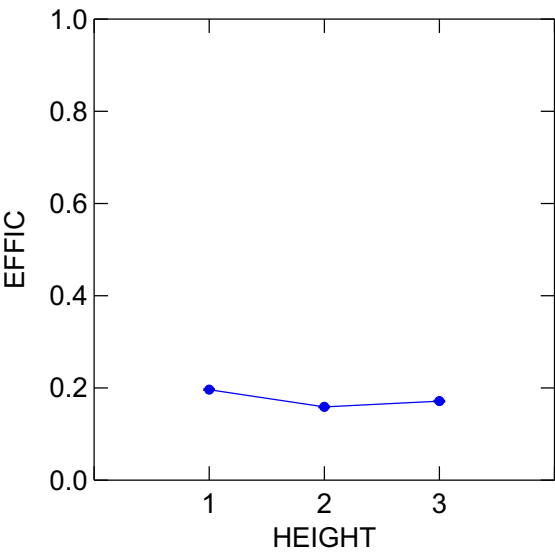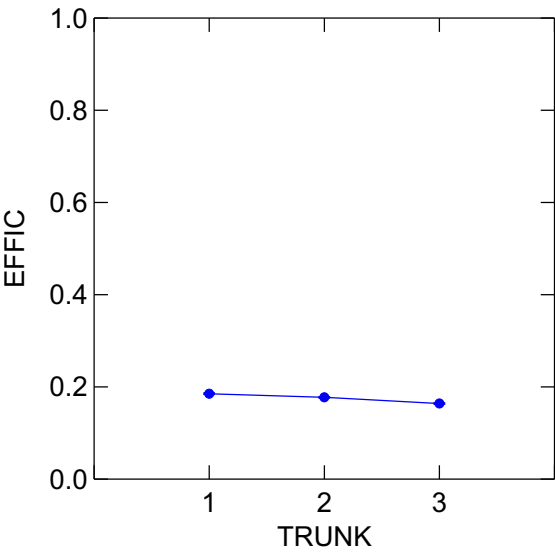

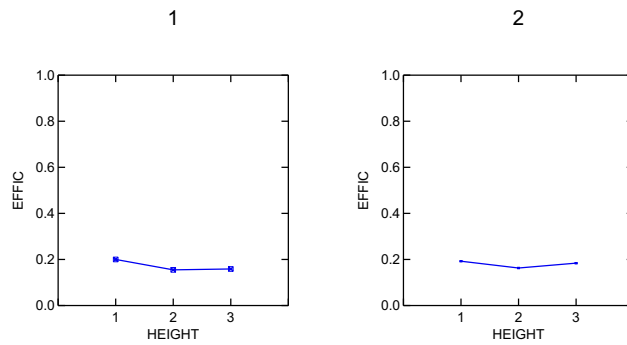## Least Squares Means
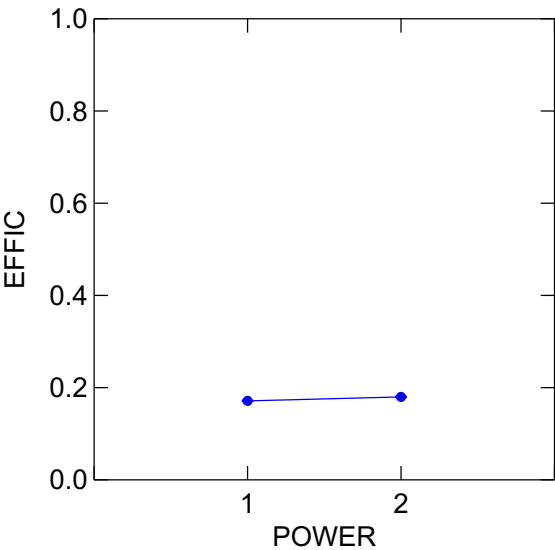
Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means

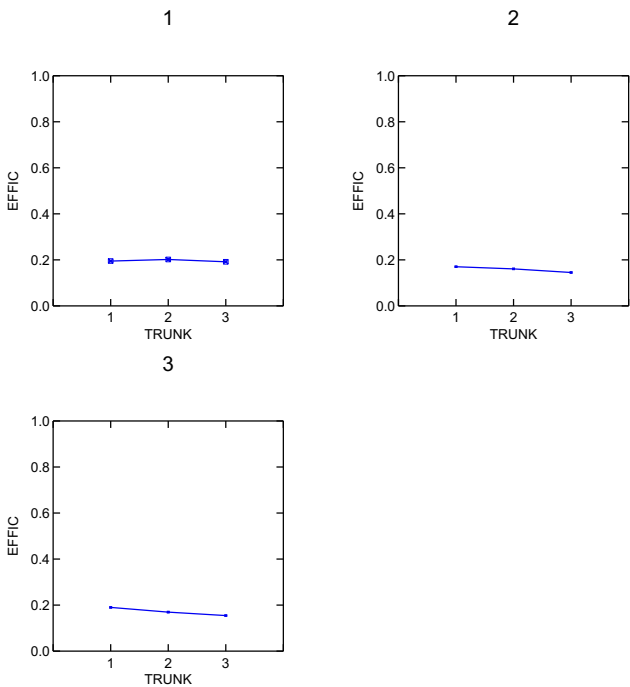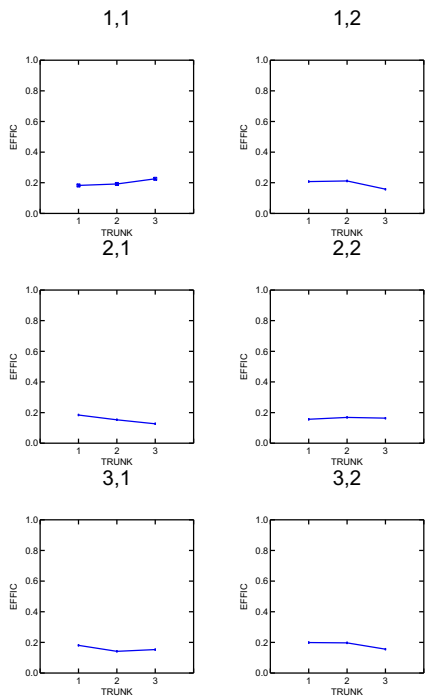### 1

2

3

Least Squares Means

1,1	1,2

2,1	2,2

3,1	3,2
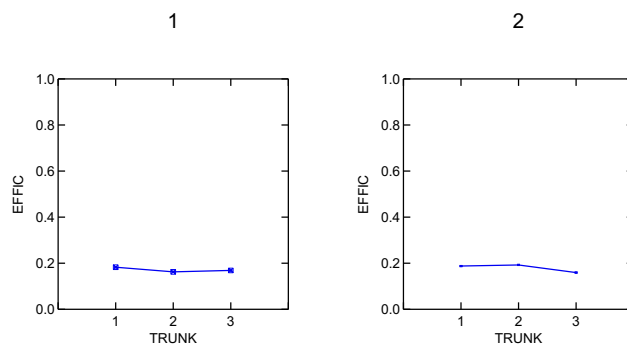

```
*** WARNING ***
Case            27 is an outlier        (Studentized Residual =  4.595833846)


Durbin-Watson D Statistic    2.193
First Order Autocorrelation  -0.100




Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
        1,        2
HEIGHT (3 levels)
        1,        2,        3
TRUNK (3 levels)
        1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: BRFRQ   N: 54   Multiple R: 0.987961105   Squared multiple R: 0.976067145


                    Analysis of Variance

Source          Sum-of-Squares  df  Mean-Square    F-ratio        P

POWER           1.84919E+03      1  1.84919E+03 1.04017E+03 0.000000000
HEIGHT          5.62593E+01      2  2.81296E+01 1.58229E+01 0.000011725
```
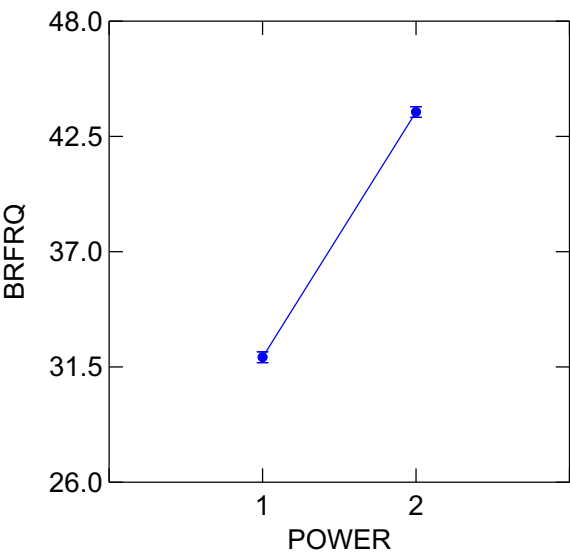
```
TRUNK                3.00481E+02      2  1.50241E+02 8.45104E+01 0.000000000
HEIGHT*POWER         6.89259E+01      2  3.44630E+01 1.93854E+01 0.000001933
TRUNK*POWER          7.55926E+01      2  3.77963E+01 2.12604E+01 0.000000801
TRUNK*HEIGHT         1.75074E+02      4  4.37685E+01 2.46198E+01 0.000000001
TRUNK*HEIGHT*POWER   8.46296E+01      4  2.11574E+01 1.19010E+01 0.000002914

Error                6.40000E+01     36  1.777777778

-------------------------------------------------------------------------------
```
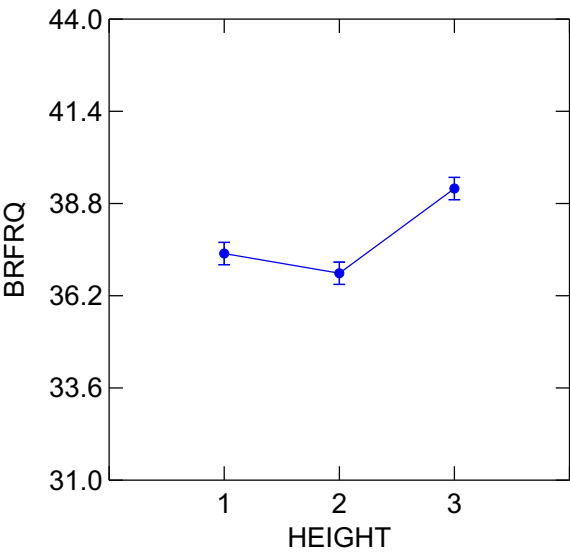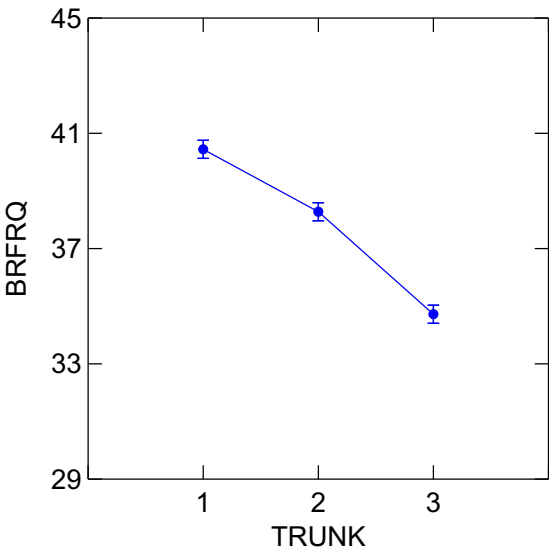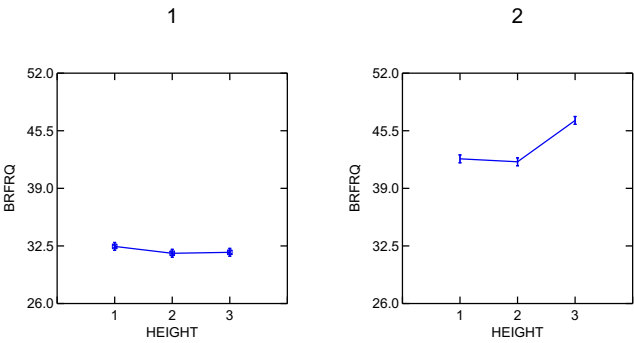
Least Squares Means

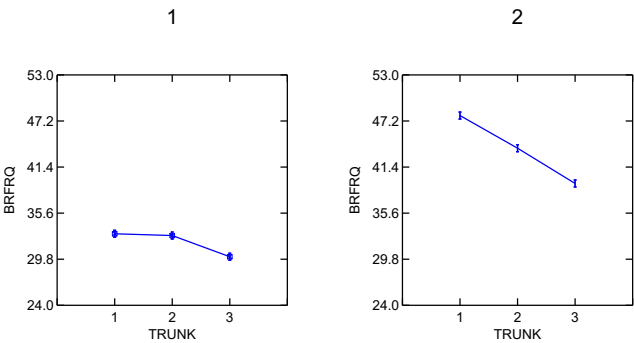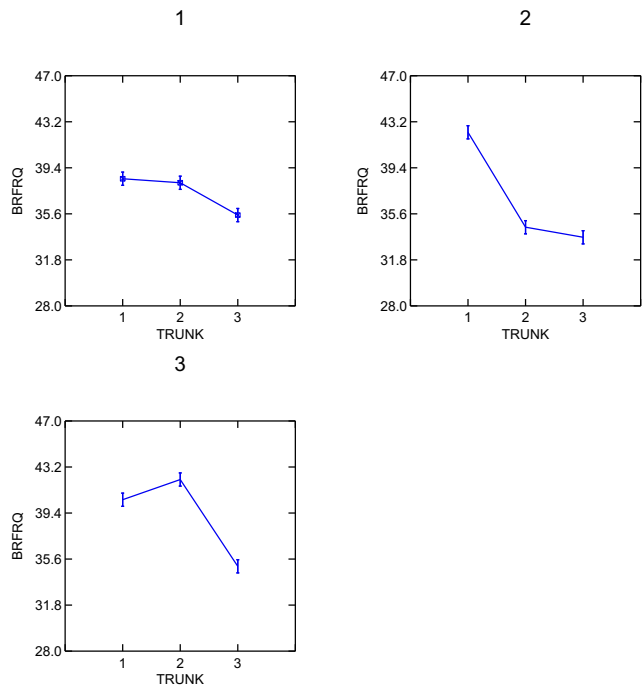## Least Squares Means

Least Squares Means

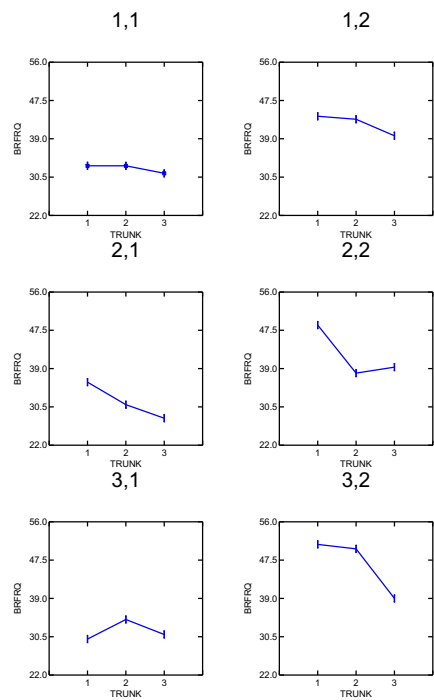## Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means


```
Durbin-Watson D Statistic      2.941
First Order Autocorrelation  -0.474
```

```
Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
         1,        2
HEIGHT (3 levels)
         1,        2,        3
TRUNK (3 levels)
         1,        2,        3
5 case(s) deleted due to missing data.

Dep Var: BRVOL   N: 54   Multiple R: 0.989025320   Squared multiple R: 0.978171083
```

Analysis of Variance

| Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
POWER	4.166666667	1	4.166666667	1.42857E+03	0.000000000
HEIGHT	0.019811111	2	0.009905556	3.396190476	0.044550122
TRUNK	0.063077778	2	0.031538889	1.08133E+01	0.000210001
HEIGHT*POWER	0.069033333	2	0.034516667	1.18343E+01	0.000112208

```
TRUNK*POWER          0.045077778     2  0.022538889 7.727619048 0.001613290
TRUNK*HEIGHT         0.298511111     4  0.074627778 2.55867E+01 0.000000000
TRUNK*HEIGHT*POWER   0.042955556     4  0.010738889 3.681904762 0.012979145

Error                0.105000000    36  0.002916667
```
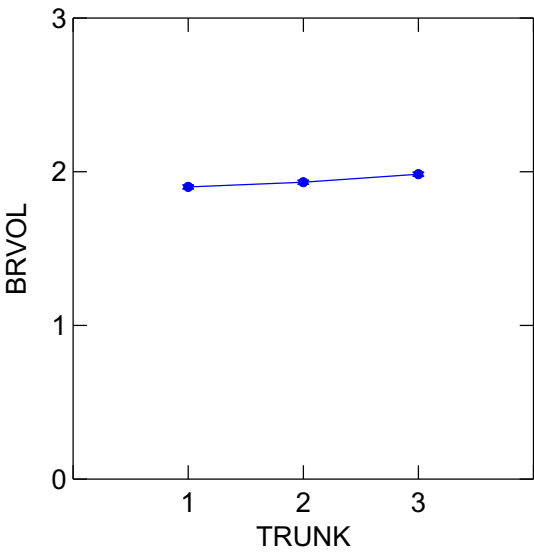
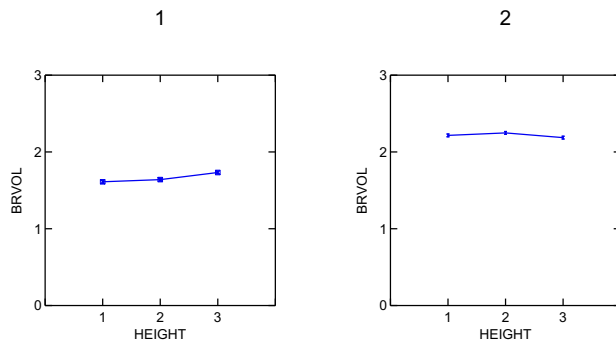--

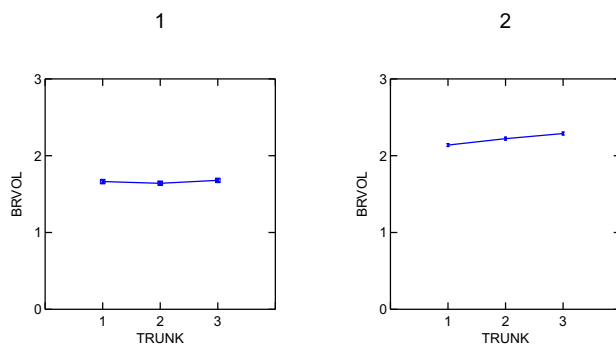### Least Squares Means
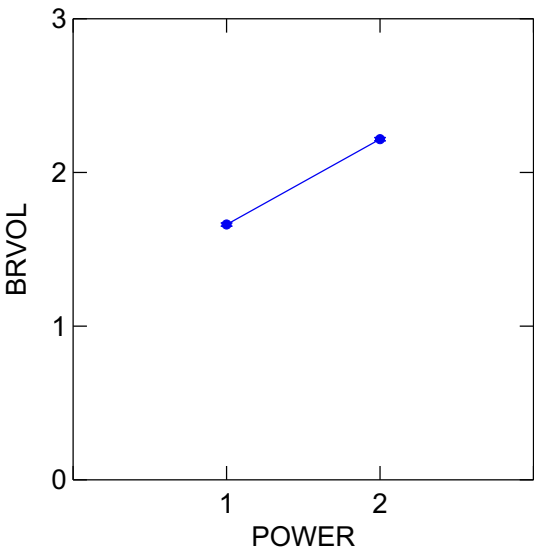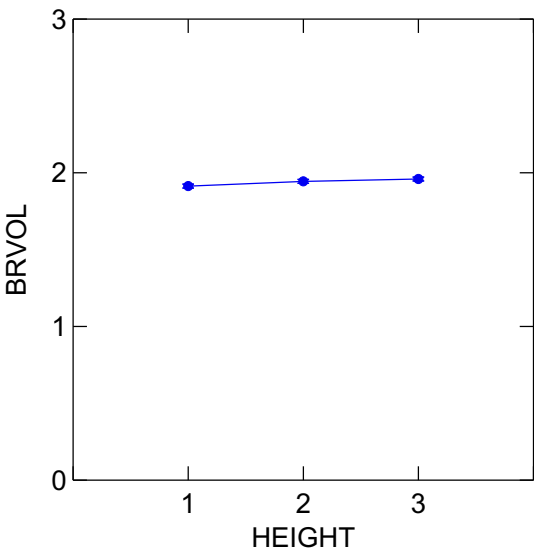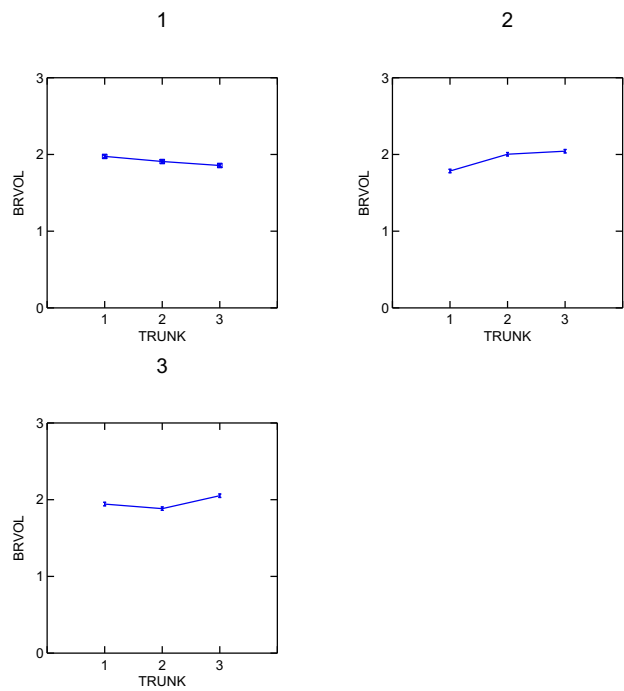
Least Squares Means

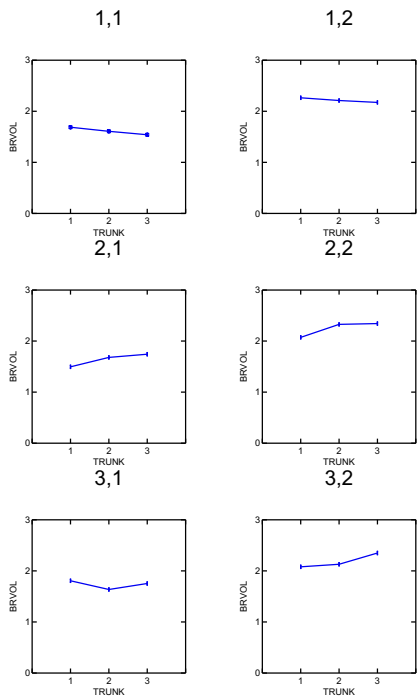## Least Squares Means

Least Squares Means

Least Squares Means

Least Squares Means

Durbin-Watson D Statistic   2.608
First Order Autocorrelation -0.307

Effects coding used for categorical variables in model.

Categorical values encountered during processing are:
POWER (2 levels)
          1,   2
HEIGHT (3 levels)
          1,   2,   3
TRUNK (3 levels)
          1,   2,   3
5 case(s) deleted due to missing data.

Dep Var: CAD   N: 54   Multiple R: 0.893348334   Squared multiple R: 0.798071246


                    Analysis of Variance

| Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
POWER	1.185185185	1	1.185185185	0.561403509	0.458563606
HEIGHT	1.74037E+02	2	8.70185E+01	4.12193E+01	0.000000000
TRUNK	3.814814815	2	1.907407407	0.903508772	0.414134561
HEIGHT*POWER	6.44815E+01	2	3.22407E+01	1.52719E+01	0.000015758

```
TRUNK*POWER           1.60370E+01      2   8.018518519 3.798245614 0.031865251
TRUNK*HEIGHT          3.01852E+01      4   7.546296296 3.574561404 0.014860094
TRUNK*HEIGHT*POWER    1.06296E+01      4   2.657407407 1.258771930 0.304066726

Error                 7.60000E+01     36   2.111111111
```
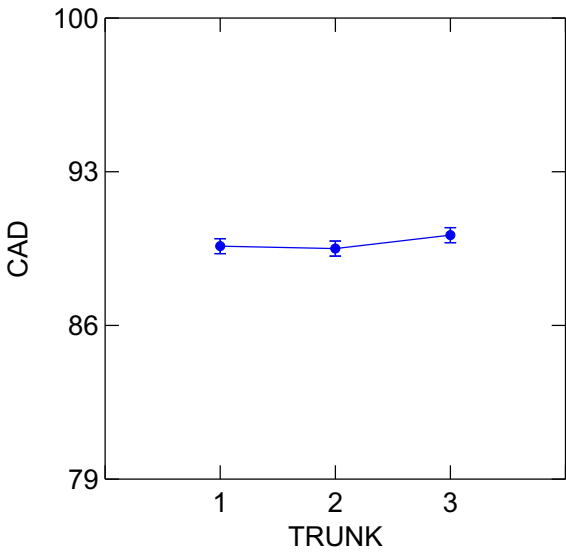

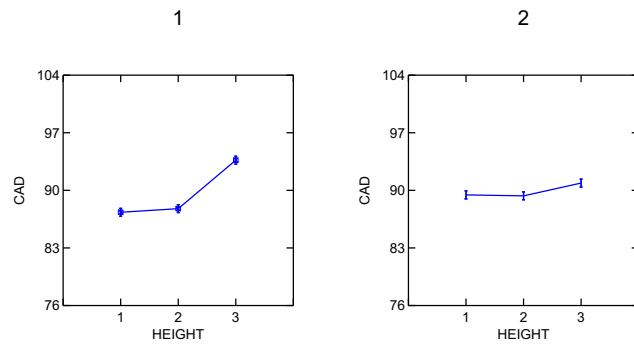
Least Squares Means
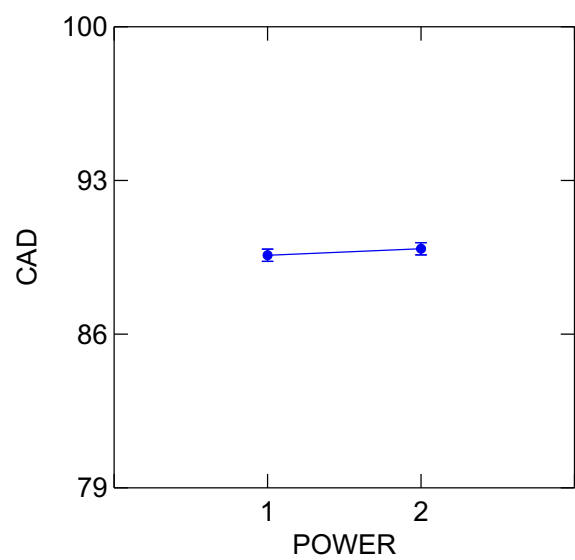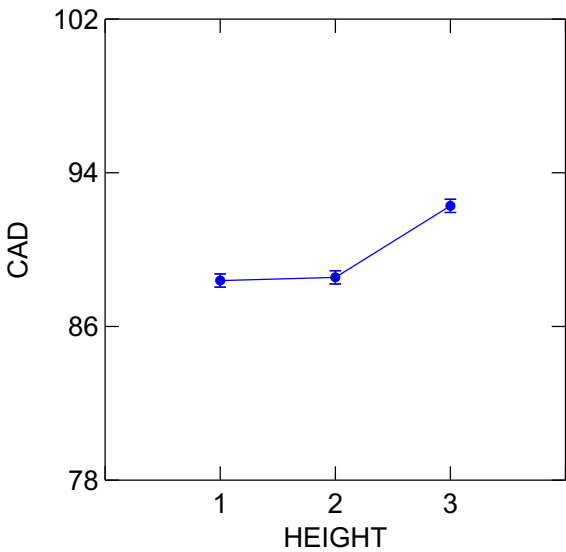
Least Squares Means

Least Squares Means
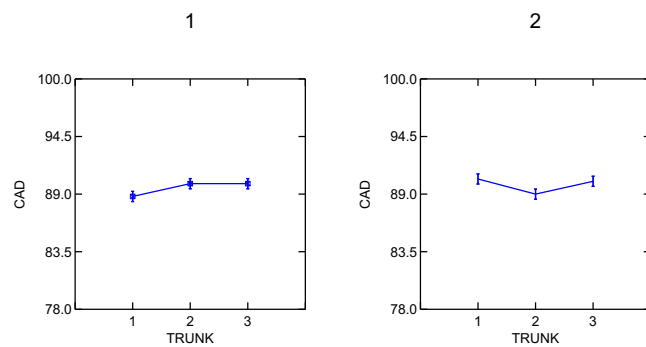
Least Squares Means
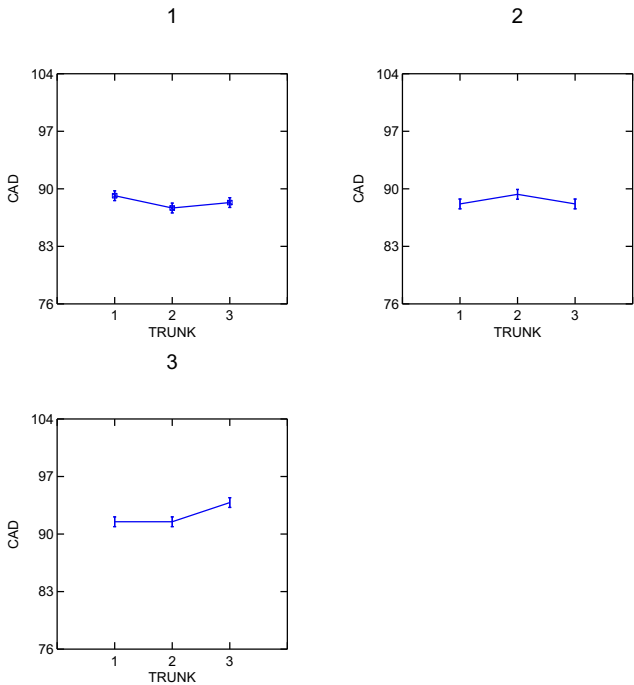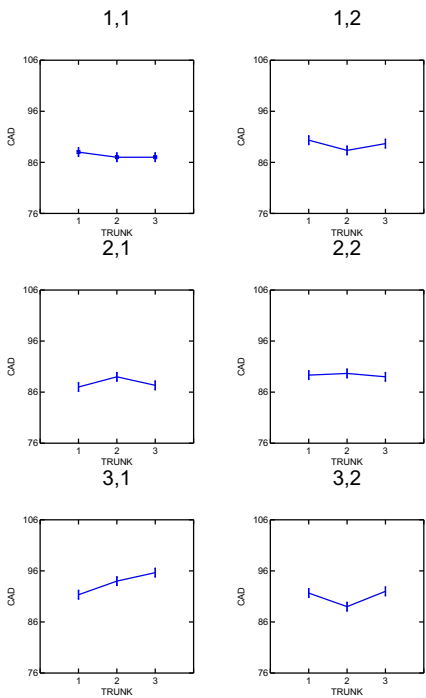
1   2

Least Squares Means

1   2

Least Squares Means

1

2

3

Least Squares Means


```
*** WARNING ***
Case           32 is an outlier        (Studentized Residual =  4.539796923)
Case           33 is an outlier        (Studentized Residual = -5.136595700)

Durbin-Watson D Statistic    2.816
First Order Autocorrelation  -0.411
```