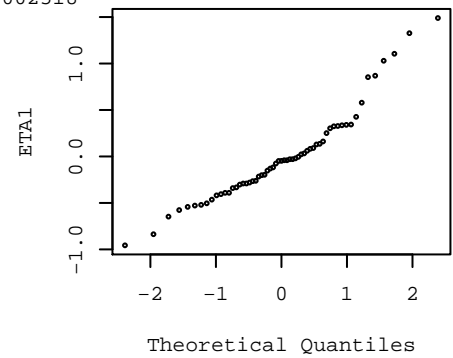
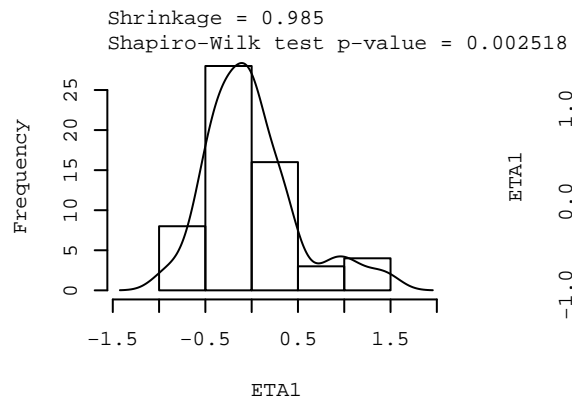


## Normality and Population Shrinkage of Etas

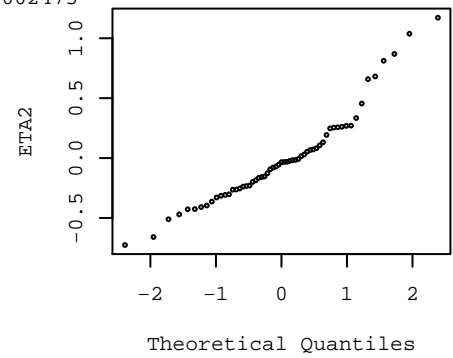
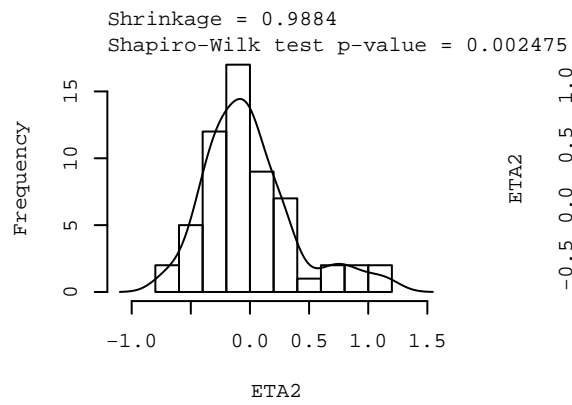
### Eta 1

Minimum : -0.956279  
1st Qu. : -0.3173015  
Median : -0.0470989  
Mean : -0.0046537528813  
3rd Qu. : 0.2066035  
Maximum : 1.48947  
Std Dev : 0.4962  
t-test p= 0.9428

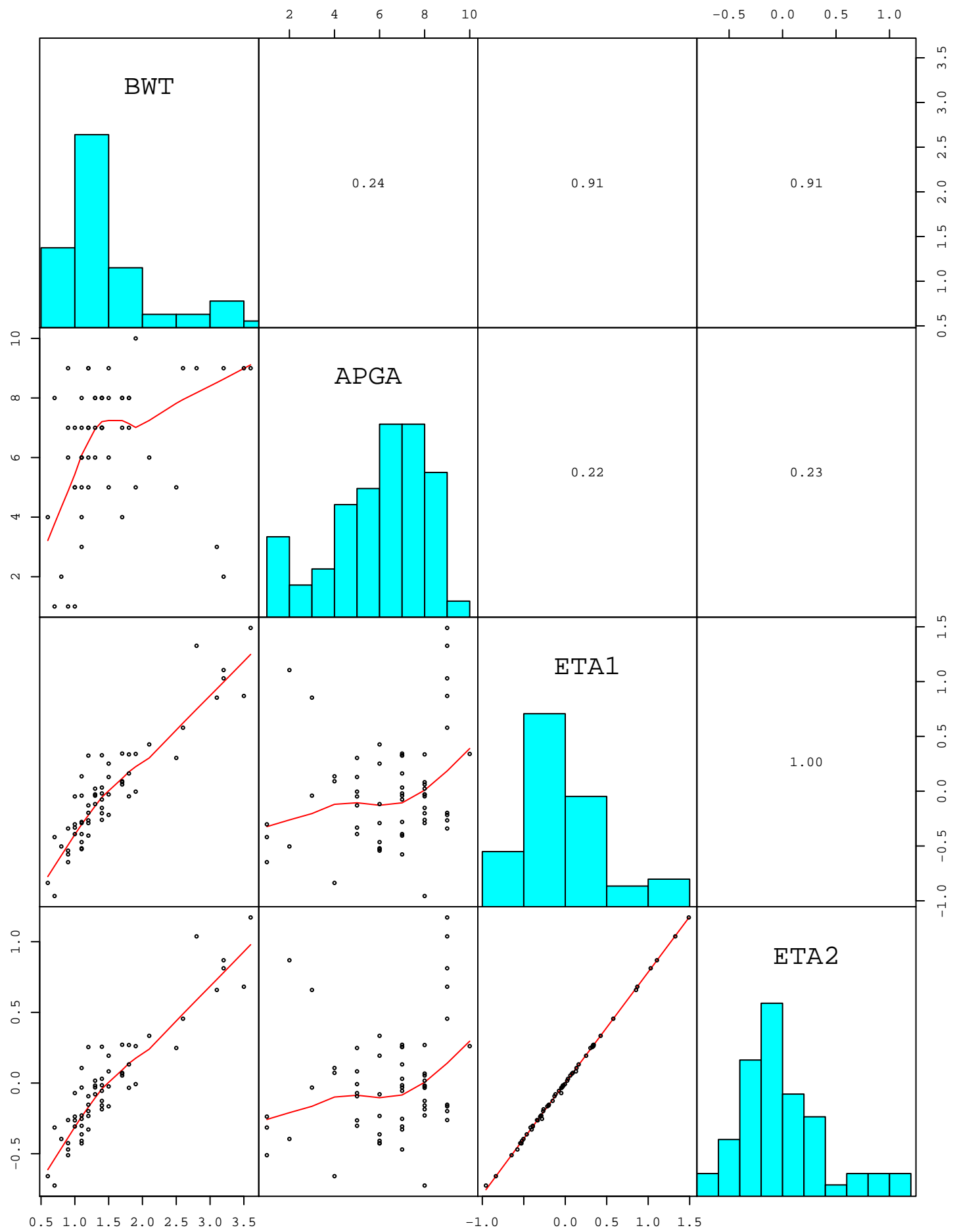


### Eta 2

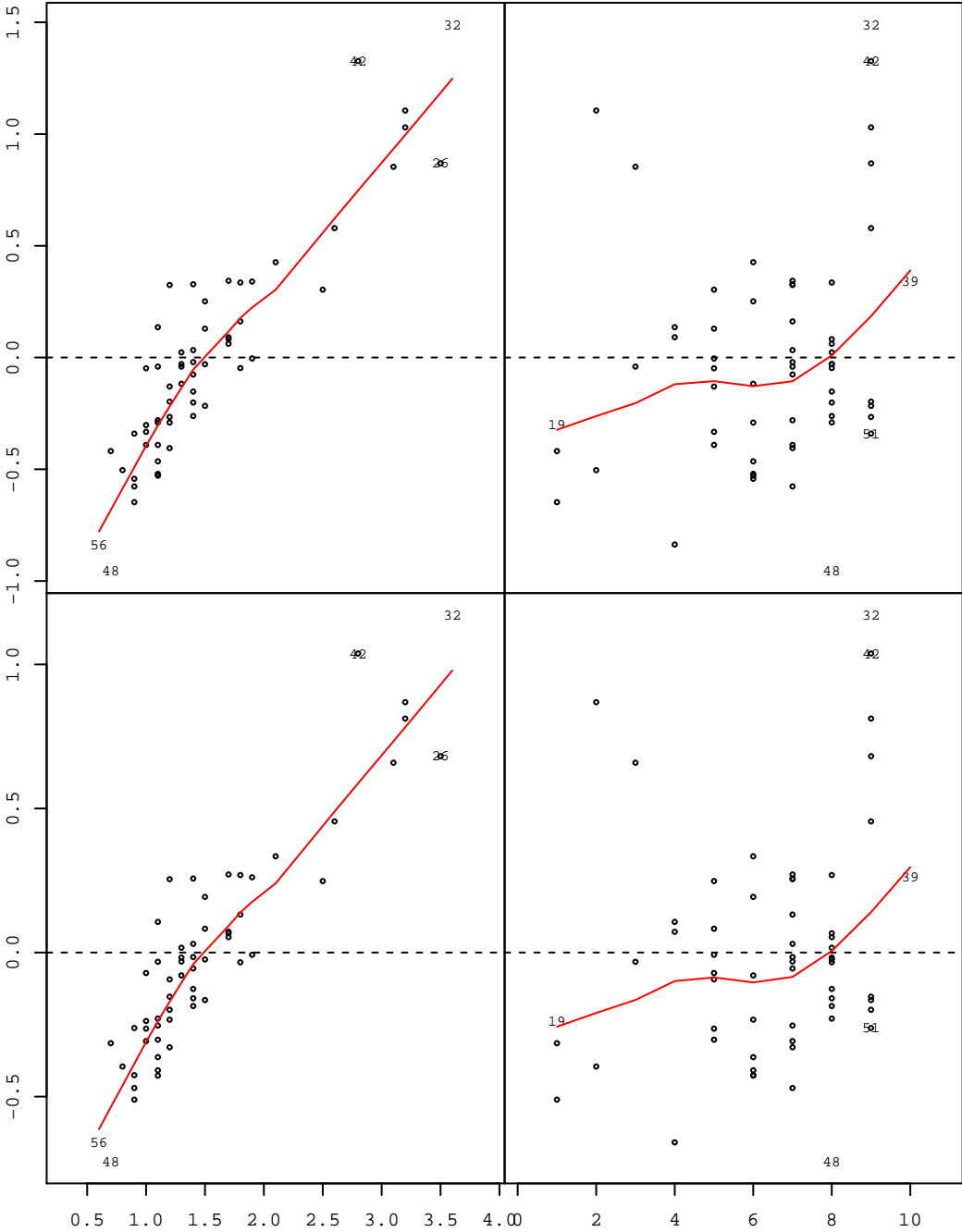
Minimum : -0.725325  
1st Qu. : -0.2576555  
Median : -0.0337916  
Mean : -0.0039027747457  
3rd Qu. : 0.162504  
Maximum : 1.17167  
Std Dev : 0.3892  
t-test p= 0.9389



Covariate vs ETA of 2005



ETA1



ETA2

BWT

APGA

## Estimation vs EBE

\$`Correlation of Covariates and EBE`

|      | BWT       | APGA      | ETA1      | ETA2      |
|------|-----------|-----------|-----------|-----------|
| BWT  | 1.0000000 | 0.2445790 | 0.9118075 | 0.9131329 |
| APGA | 0.2445790 | 1.0000000 | 0.2244592 | 0.2273460 |
| ETA1 | 0.9118075 | 0.2244592 | 1.0000000 | 0.9996949 |
| ETA2 | 0.9131329 | 0.2273460 | 0.9996949 | 1.0000000 |

\$`Covariance of EBE`

|      | ETA1      | ETA2      |
|------|-----------|-----------|
| ETA1 | 0.2462456 | 0.1930863 |
| ETA2 | 0.1930863 | 0.1514955 |

\$`Omega Matrix`

|       | Eta 1     | Eta 2     |
|-------|-----------|-----------|
| Eta 1 | 0.2538127 | 0.1965732 |
| Eta 2 | 0.1965732 | 0.1550654 |

\$`Ratios of Cov(EBE)/OM`

|      | ETA1      | ETA2      |
|------|-----------|-----------|
| ETA1 | 0.9701860 | 0.9822618 |
| ETA2 | 0.9822618 | 0.9769777 |

\$`Correlation of EBE`

|      | ETA1      | ETA2      |
|------|-----------|-----------|
| ETA1 | 1.0000000 | 0.9996949 |
| ETA2 | 0.9996949 | 1.0000000 |

\$`Correlation from Omega Matrix`

|       | Eta 1     | Eta 2     |
|-------|-----------|-----------|
| Eta 1 | 1.0000000 | 0.9908549 |
| Eta 2 | 0.9908549 | 1.0000000 |

\$`Ratios of Cor(EBE)/(Cor from OM)`

|      | ETA1     | ETA2     |
|------|----------|----------|
| ETA1 | 1.000000 | 1.008922 |
| ETA2 | 1.008922 | 1.000000 |

# Multiple Linear Regression : ETA 1

## Residuals:

| Min     | 1Q      | Median  | 3Q     | Max    |
|---------|---------|---------|--------|--------|
| -0.4223 | -0.1439 | -0.0101 | 0.1131 | 0.5379 |

## Coefficients:

|             | Estimate   | Std. Error | t value | Pr(> t )     |
|-------------|------------|------------|---------|--------------|
| (Intercept) | -0.9860643 | 0.0923394  | -10.679 | 4.01e-15 *** |
| BWT         | 0.6419286  | 0.0398564  | 16.106  | < 2e-16 ***  |
| APGA        | 0.0003421  | 0.0125496  | 0.027   | 0.978        |

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.2074 on 56 degrees of freedom  
Multiple R-squared: 0.8314, Adjusted R-squared: 0.8254  
F-statistic: 138.1 on 2 and 56 DF, p-value: < 2.2e-16

# Multiple Linear Regression - Influence : ETA 1

\$`Model Estimates`

|   | Variable  | Estimate      | SE         | T            | p-value      |
|---|-----------|---------------|------------|--------------|--------------|
| 1 | Intercept | -0.9860642790 | 0.09233939 | -10.67869615 | 4.011218e-15 |
| 2 | BWT       | 0.6419285992  | 0.03985645 | 16.10601603  | 0.000000e+00 |
| 3 | APGA      | 0.0003420768  | 0.01254961 | 0.02725797   | 9.783509e-01 |

\$`Influence Diagnostics with DFBETAs`

|    | Yhat        | Residual     | R-Student   | hat        | Cook's D     | COV-Ratio | DFFITS       |
|----|-------------|--------------|-------------|------------|--------------|-----------|--------------|
| 1  | -0.08496970 | 0.009107602  | 0.04395013  | 0.01915782 | 1.280431e-05 | 1.0760467 | 0.006142338  |
| 2  | -0.02009269 | -0.196140311 | -0.96561574 | 0.04165458 | 1.352548e-02 | 1.0472523 | -0.201314328 |
| 3  | -0.02111892 | 0.272627919  | 1.33566993  | 0.01756933 | 1.048799e-02 | 0.9763014 | 0.178618230  |
| 4  | -0.40627608 | -0.136244921 | -0.66395551 | 0.03054887 | 4.677181e-03 | 1.0630381 | -0.117861941 |
| 5  | -0.08496970 | 0.412893702  | 2.06849592  | 0.01915782 | 2.631629e-02 | 0.8595467 | 0.289086757  |
| 6  | -0.21403958 | 0.084321576  | 0.40887271  | 0.02564910 | 1.489084e-03 | 1.0735108 | 0.066338635  |
| 7  | -0.34242530 | 0.010002296  | 0.04854470  | 0.03031533 | 2.500350e-05 | 1.0884028 | 0.008583366  |
| 8  | -0.21335542 | -0.191922578 | -0.93537585 | 0.02314463 | 6.925355e-03 | 1.0305828 | -0.143978000 |
| 9  | -0.08462763 | -0.177135374 | -0.86436156 | 0.02775522 | 7.141745e-03 | 1.0426082 | -0.146042752 |
| 10 | -0.08496970 | 0.064599802  | 0.31200654  | 0.01915782 | 6.441849e-04 | 1.0704660 | 0.043605094  |
| 11 | -0.21335542 | 0.537938422  | 2.77760280  | 0.02314463 | 5.440704e-02 | 0.7288160 | 0.427543320  |
| 12 | -0.14950464 | 0.031984639  | 0.15436040  | 0.01894049 | 1.560572e-04 | 1.0745246 | 0.021447856  |
| 13 | -0.27789036 | -0.242862641 | -1.18942139 | 0.02326701 | 1.115091e-02 | 1.0014075 | -0.183576921 |
| 14 | -0.27754828 | -0.002996718 | -0.01451343 | 0.02624629 | 1.926911e-06 | 1.0839816 | -0.002382756 |
| 15 | -0.14916256 | 0.108427262  | 0.52496721  | 0.02078181 | 1.975157e-03 | 1.0619020 | 0.076477576  |
| 16 | -0.21267127 | -0.053190731 | -0.26096203 | 0.04994043 | 1.213452e-03 | 1.1069116 | -0.059831247 |
| 17 | -0.27823244 | -0.112830564 | -0.54832625 | 0.02761280 | 2.881945e-03 | 1.0679081 | -0.092400561 |
| 18 | -0.34242530 | 0.294419996  | 1.45617844  | 0.03031533 | 2.166387e-02 | 0.9717590 | 0.257472261  |
| 19 | -0.34379360 | 0.041613603  | 0.21192987  | 0.11867324 | 2.050925e-03 | 1.1947458 | 0.077767848  |
| 20 | -0.21369750 | -0.077237501 | -0.37348749 | 0.02073433 | 9.998749e-04 | 1.0697326 | -0.054346406 |
| 21 | 0.17180174  | -0.010103737 | -0.04877953 | 0.02005026 | 1.652254e-05 | 1.0770004 | -0.006977433 |
| 22 | -0.02043477 | -0.009387834 | -0.04546836 | 0.02630109 | 1.895202e-05 | 1.0839328 | -0.007472809 |
| 23 | 1.00494061  | -0.151482609 | -0.80522529 | 0.18214410 | 4.843812e-02 | 1.2460330 | -0.380002597 |
| 24 | 1.06879139  | 0.036418608  | 0.19898334  | 0.23436476 | 4.110507e-03 | 1.3756770 | 0.110091026  |
| 25 | -0.53637218 | 0.117818183  | 0.60372385  | 0.12438605 | 1.745706e-02 | 1.1818373 | 0.227545283  |
| 26 | 1.26376451  | -0.394821509 | -2.13797759 | 0.15634811 | 2.654409e-01 | 0.9846849 | -0.920381363 |
| 27 | 0.23531044  | -0.239411364 | -1.17786986 | 0.03259070 | 1.547258e-02 | 1.0125305 | -0.216191692 |
| 28 | 1.07118593  | -0.041295930 | -0.21050569 | 0.12030373 | 2.055078e-03 | 1.1969995 | -0.077846126 |
| 29 | -0.34174114 | -0.049450858 | -0.24009490 | 0.03008678 | 6.062586e-04 | 1.0848715 | -0.042286757 |
| 30 | 0.17214381  | 0.163495186  | 0.79642781  | 0.02637173 | 5.764510e-03 | 1.0474736 | 0.131074773  |
| 31 | -0.08462763 | -0.116711374 | -0.56733625 | 0.02775522 | 3.100417e-03 | 1.0668366 | -0.095857279 |
| 32 | 1.32795737  | 0.161512631  | 0.85275852  | 0.16984057 | 4.983468e-02 | 1.2223652 | 0.385714562  |
| 33 | 0.10795095  | -0.025897454 | -0.12540090 | 0.02560935 | 1.402318e-04 | 1.0823568 | -0.020329812 |
| 34 | 0.10658265  | -0.015817347 | -0.07723640 | 0.04199795 | 8.874886e-05 | 1.1014588 | -0.016171597 |
| 35 | 0.62046760  | -0.316917603 | -1.60461618 | 0.06735528 | 6.028817e-02 | 0.9866218 | -0.431219974 |
| 36 | -0.02146100 | 0.150748996  | 0.73287581  | 0.02419105 | 4.475424e-03 | 1.0506293 | 0.115391905  |
| 37 | -0.21267127 | 0.015302269  | 0.07503272  | 0.04994043 | 1.004298e-04 | 1.1106873 | 0.017202891  |
| 38 | -0.14882049 | 0.172010186  | 0.83998741  | 0.02994819 | 7.299436e-03 | 1.0473048 | 0.147591251  |
| 39 | 0.23702083  | 0.103013172  | 0.50934445  | 0.06135312 | 5.728197e-03 | 1.1087729 | 0.130220331  |
| 40 | -0.27891659 | 0.238254289  | 1.18831778  | 0.05827958 | 2.891706e-02 | 1.0387841 | 0.295617272  |
| 41 | 0.10760888  | 0.235898123  | 1.15173035  | 0.01871889 | 8.385762e-03 | 1.0014580 | 0.159072166  |
| 42 | 0.81441449  | 0.512155510  | 2.72216300  | 0.08258829 | 1.995234e-01 | 0.7874694 | 0.816753886  |
| 43 | -0.40798646 | -0.239184537 | -1.23521302 | 0.11983867 | 6.860233e-02 | 1.1047468 | -0.455784139 |
| 44 | -0.08496970 | 0.118209202  | 0.57212152  | 0.01915782 | 2.157003e-03 | 1.0571728 | 0.079957979  |
| 45 | -0.47183725 | -0.032166754 | -0.16117228 | 0.08980383 | 8.694398e-04 | 1.1580460 | -0.050625609 |
| 46 | -0.27720621 | -0.013449795 | -0.06548868 | 0.03655064 | 5.521648e-05 | 1.0953314 | -0.012755552 |
| 47 | 0.68602877  | -0.107032770 | -0.53125919 | 0.06816358 | 6.971189e-03 | 1.1154949 | -0.143685462 |

# Multiple Linear Regression - Influence : ETA 1

```

48 -0.53397765 -0.422301355 -2.16711040 0.05862157 9.144799e-02 0.8769122 -0.540788752
49 -0.14882049 0.119569086 0.58197271 0.02994819 3.527108e-03 1.0682736 0.102256390
50 -0.27789036 -0.250606641 -1.22837167 0.02326701 1.187338e-02 0.9964092 -0.189588559
51 -0.40524985 0.064999848 0.32153894 0.06487582 2.429792e-03 1.1224316 0.084691602
52 -0.40593400 -0.170738998 -0.83576162 0.03466612 8.406511e-03 1.0528248 -0.158378504
53 0.10795095 -0.046616654 -0.22579994 0.02560935 4.543753e-04 1.0802784 -0.036606357
54 0.17214381 -0.219242714 -1.07293848 0.02637173 1.036580e-02 1.0188115 -0.176582442
55 -0.27857451 0.414380513 2.09989003 0.03928365 5.665267e-02 0.8717669 0.424624350
56 -0.59953881 -0.237106188 -1.18184100 0.05733975 2.812105e-02 1.0385961 -0.291480411
57 0.36403824 0.062607760 0.30424372 0.03118792 1.009634e-03 1.0840407 0.054587735
58 -0.08462763 -0.067619374 -0.32806199 0.02775522 1.040725e-03 1.0793279 -0.055429439
59 -0.27789036 -0.186405641 -0.90813643 0.02326701 6.569119e-03 1.0334959 -0.140163015

```

|    | Intercept     | BWT          | APGA          |
|----|---------------|--------------|---------------|
| 1  | 0.0010631287  | -0.001448320 | 0.0018093189  |
| 2  | 0.0698087980  | 0.042433538  | -0.1549680206 |
| 3  | 0.0788253906  | 0.001866877  | -0.0329457660 |
| 4  | -0.0740425003 | 0.076831228  | -0.0025333294 |
| 5  | 0.0500357364  | -0.068164635 | 0.0851548918  |
| 6  | 0.0527040528  | -0.017179240 | -0.0293535397 |
| 7  | 0.0071155776  | -0.003939590 | -0.0030299822 |
| 8  | -0.0388574628 | 0.067266754  | -0.0474833580 |
| 9  | 0.0167719245  | 0.041584897  | -0.0887922250 |
| 10 | 0.0075472603  | -0.010281776 | 0.0128445423  |
| 11 | 0.1153874112  | -0.199748931 | 0.1410020460  |
| 12 | 0.0117812610  | -0.005774798 | -0.0023449295 |
| 13 | -0.1115633941 | 0.090859410  | 0.0067937431  |
| 14 | -0.0007296431 | 0.001328069  | -0.0008070706 |
| 15 | 0.0172455443  | -0.027510478 | 0.0241233764  |
| 16 | 0.0120801079  | 0.026955452  | -0.0458387794 |
| 17 | -0.0755058929 | 0.033749351  | 0.0367908768  |
| 18 | 0.2134435112  | -0.118174513 | -0.0908893245 |
| 19 | 0.0714934532  | -0.004674724 | -0.0685231694 |
| 20 | -0.0317591235 | 0.021239511  | 0.0039047342  |
| 21 | 0.0005049444  | -0.002180194 | -0.0010824862 |
| 22 | 0.0012756158  | 0.001300235  | -0.0044506761 |
| 23 | -0.0453627518 | -0.314586807 | 0.2503938942  |
| 24 | 0.0194400874  | 0.088083410  | -0.0787829579 |
| 25 | 0.2208772261  | -0.050561924 | -0.1867387035 |
| 26 | 0.5628125659  | -0.794633462 | -0.1468544311 |
| 27 | -0.0806909855 | -0.111453294 | 0.1242703242  |
| 28 | 0.0485099909  | -0.063678811 | -0.0173251628 |
| 29 | -0.0141789596 | 0.026699330  | -0.0145237570 |
| 30 | -0.0430501332 | 0.023764576  | 0.0665784470  |
| 31 | 0.0110084960  | 0.027294850  | -0.0582800651 |
| 32 | -0.2343047266 | 0.337503467  | 0.0546490643  |
| 33 | 0.0056894733  | -0.001298662 | -0.0110761444 |
| 34 | -0.0100668222 | -0.005478743 | 0.0122223994  |
| 35 | -0.0267085451 | -0.346249543 | 0.2192846295  |
| 36 | 0.0753657336  | 0.012009223  | -0.0630376433 |
| 37 | -0.0034733152 | -0.007750327 | 0.0131797273  |
| 38 | -0.0090246497 | -0.056849999 | 0.0903950145  |
| 39 | -0.0778423253 | 0.010020283  | 0.1045269584  |
| 40 | 0.2718060279  | -0.038071741 | -0.2292351169 |
| 41 | -0.0019722229 | 0.029094796  | 0.0310067018  |
| 42 | -0.5170699269 | 0.587860986  | 0.2728279778  |

## Multiple Linear Regression - Influence : ETA 1

```
43 -0.4282269318  0.052570014  0.3934558125
44  0.0138392931 -0.018853532  0.0235528363
45 -0.0491112333  0.012492817  0.0394665239
46 -0.0004350262  0.007012134 -0.0076989311
47  0.0907156275 -0.092680278 -0.0580057947
48 -0.0909600031  0.406464510 -0.2997363295
49 -0.0062525935 -0.039387671  0.0626288334
50 -0.1152167881  0.093834806  0.0070162195
51 -0.0064729137 -0.052649312  0.0616177421
52 -0.0567471296  0.109509023 -0.0546751729
53  0.0102446050 -0.002338402 -0.0199439770
54  0.0579966496 -0.032015367 -0.0896937263
55  0.3832252493 -0.098319494 -0.2714040592
56 -0.2697827114  0.172842508  0.1255943405
57  0.0022221641  0.036074356 -0.0162753616
58  0.0063656590  0.015783238 -0.0337004277
59 -0.0851798889  0.069372167  0.0051870982
```

\$n

```
[1] 59
```

\$`Parameter Count`

```
[1] 3
```

\$`Degree of Freedom`

```
[1] 56
```

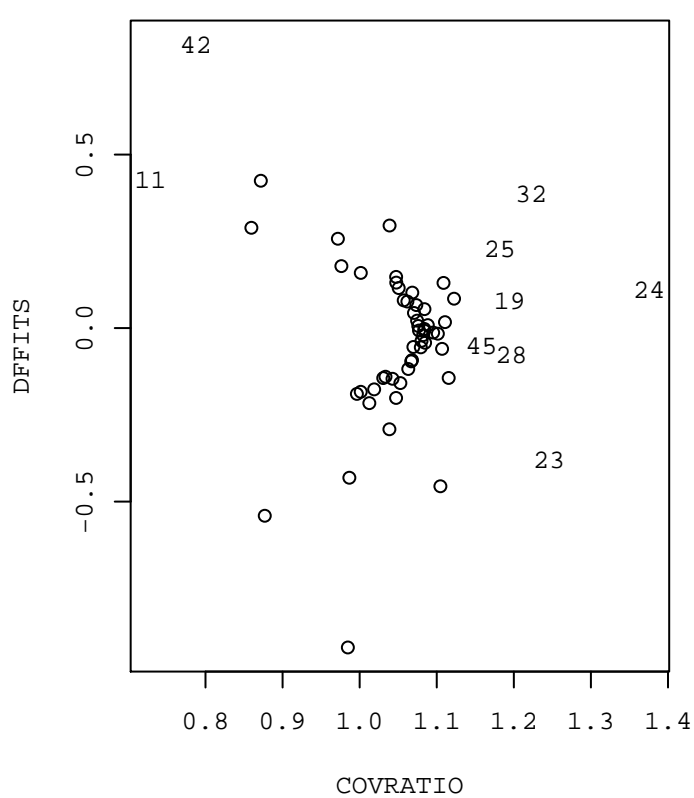
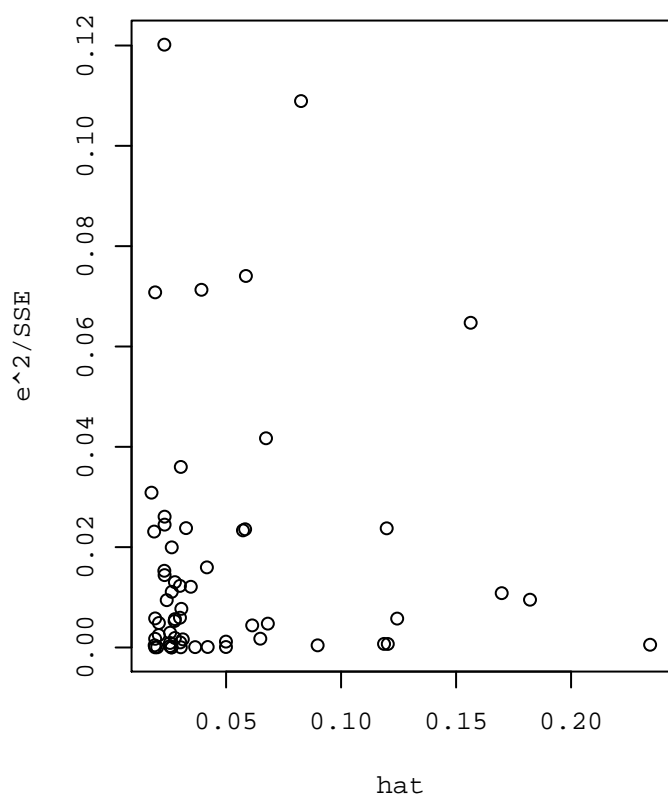
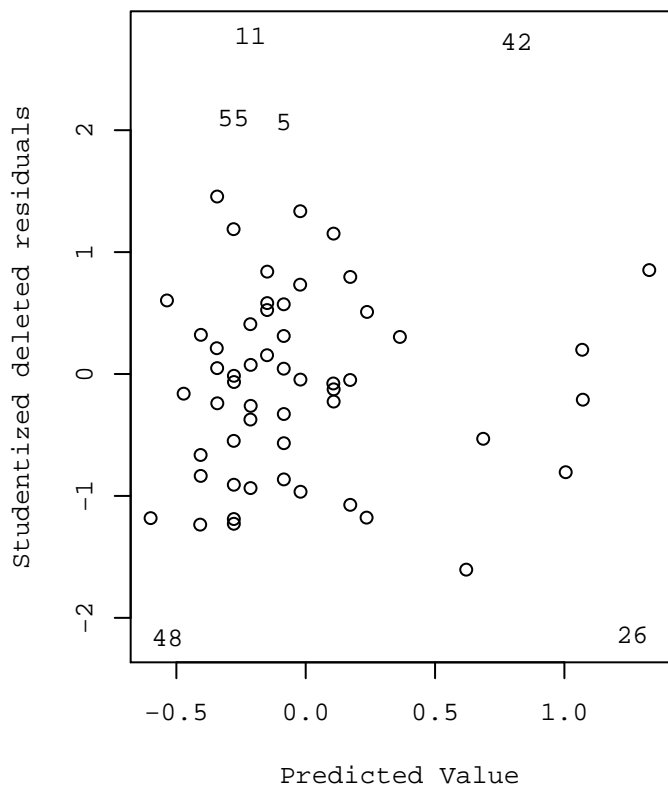
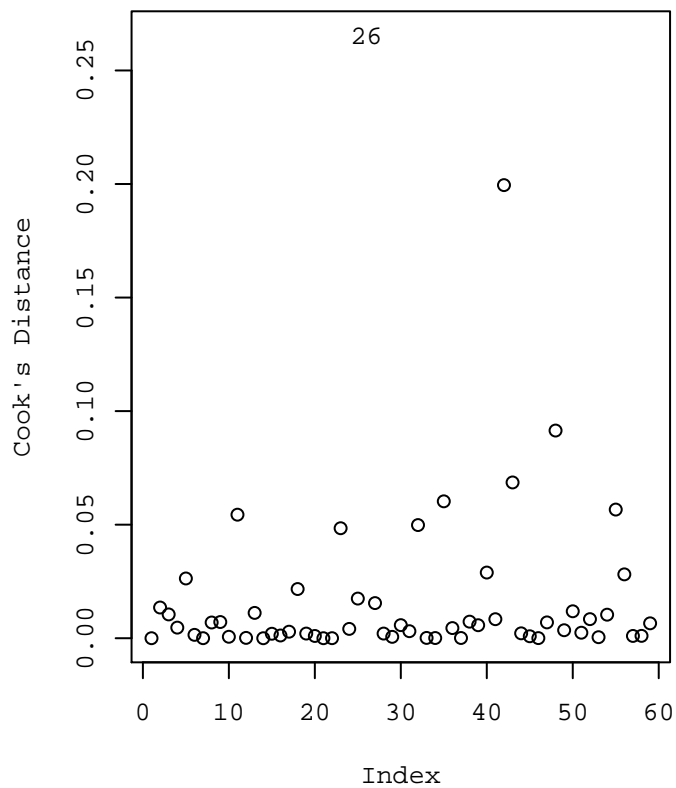
\$SSE

```
[1] 2.408056
```

\$MSE

```
[1] 0.043001
```

# Influence Diagnostics on Eta 1



## Multiple Linear Regression : ETA 2

Residuals:

| Min      | 1Q       | Median   | 3Q      | Max     |
|----------|----------|----------|---------|---------|
| -0.31150 | -0.11292 | -0.01026 | 0.09137 | 0.42215 |

Coefficients:

|             | Estimate   | Std. Error | t value | Pr(> t )     |
|-------------|------------|------------|---------|--------------|
| (Intercept) | -0.7772831 | 0.0719027  | -10.810 | 2.52e-15 *** |
| BWT         | 0.5038673  | 0.0310354  | 16.235  | < 2e-16 ***  |
| APGA        | 0.0007424  | 0.0097721  | 0.076   | 0.94         |

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.1615 on 56 degrees of freedom

Multiple R-squared: 0.8338, Adjusted R-squared: 0.8279

F-statistic: 140.5 on 2 and 56 DF, p-value: < 2.2e-16

## Multiple Linear Regression - Influence : ETA 2

\$`Model Estimates`

|   | Variable  | Estimate      | SE          | T            | p-value      |
|---|-----------|---------------|-------------|--------------|--------------|
| 1 | Intercept | -0.7772830592 | 0.071902727 | -10.81020278 | 2.518757e-15 |
| 2 | BWT       | 0.5038672566  | 0.031035372 | 16.23525726  | 0.000000e+00 |
| 3 | APGA      | 0.0007424372  | 0.009772113 | 0.07597509   | 9.397097e-01 |

\$`Influence Diagnostics with DFBETAs`

|    | Yhat        | Residual     | R-Student   | hat        | Cook's D     | COV-Ratio | DFFITS       |
|----|-------------|--------------|-------------|------------|--------------|-----------|--------------|
| 1  | -0.06667184 | 0.011445540  | 0.07093267  | 0.01915782 | 3.335063e-05 | 1.0758648 | 0.009913336  |
| 2  | -0.01480024 | -0.150031760 | -0.94827307 | 0.04165458 | 1.305174e-02 | 1.0491189 | -0.197698678 |
| 3  | -0.01702755 | 0.210286551  | 1.32266452  | 0.01756933 | 1.029101e-02 | 0.9780868 | 0.176879025  |
| 4  | -0.31934791 | -0.106232095 | -0.66484540 | 0.03054887 | 4.689627e-03 | 1.0629701 | -0.118019910 |
| 5  | -0.06667184 | 0.323488840  | 2.08221640  | 0.01915782 | 2.664097e-02 | 0.8570741 | 0.291004290  |
| 6  | -0.16893017 | 0.075863965  | 0.47265886  | 0.02564910 | 1.987907e-03 | 1.0702349 | 0.076687788  |
| 7  | -0.26970362 | 0.005616617  | 0.03500693  | 0.03031533 | 1.300272e-05 | 1.0884700 | 0.006189705  |
| 8  | -0.16744529 | -0.161356709 | -1.01125820 | 0.02314463 | 8.073229e-03 | 1.0224522 | -0.155658213 |
| 9  | -0.06592940 | -0.119617597 | -0.74833624 | 0.02775522 | 5.371149e-03 | 1.0531775 | -0.126439085 |
| 10 | -0.06667184 | 0.051196340  | 0.31756077  | 0.01915782 | 6.672818e-04 | 1.0702622 | 0.044381336  |
| 11 | -0.16744529 | 0.422146291  | 2.80233091  | 0.02314463 | 5.525851e-02 | 0.7240267 | 0.431349602  |
| 12 | -0.11780100 | 0.038427903  | 0.23823891  | 0.01894049 | 3.715160e-04 | 1.0725976 | 0.033102490  |
| 13 | -0.21857445 | -0.190162546 | -1.19620025 | 0.02326701 | 1.127515e-02 | 1.0005468 | -0.184623179 |
| 14 | -0.21783202 | -0.035527983 | -0.22106937 | 0.02624629 | 4.466777e-04 | 1.0811095 | -0.036294260 |
| 15 | -0.11705857 | 0.085897265  | 0.53413718  | 0.02078181 | 2.044403e-03 | 1.0613425 | 0.077813463  |
| 16 | -0.16596042 | -0.032609583 | -0.20541212 | 0.04994043 | 7.521849e-04 | 1.1084753 | -0.047095216 |
| 17 | -0.21931689 | -0.083170109 | -0.51891700 | 0.02761280 | 2.582557e-03 | 1.0697284 | -0.087444696 |
| 18 | -0.26970362 | 0.198655417  | 1.25577953  | 0.03031533 | 1.626618e-02 | 1.0000327 | 0.222038993  |
| 19 | -0.27267337 | 0.035134365  | 0.22980620  | 0.11867324 | 2.411163e-03 | 1.1942318 | 0.084327585  |
| 20 | -0.16818773 | -0.064816272 | -0.40258951 | 0.02073433 | 1.161290e-03 | 1.0684192 | -0.058581059 |
| 21 | 0.13487506  | -0.003126063 | -0.01938148 | 0.02005026 | 2.608503e-06 | 1.0771181 | -0.002772331 |
| 22 | -0.01554268 | -0.008402923 | -0.05226591 | 0.02630109 | 2.504198e-05 | 1.0838935 | -0.008589999 |
| 23 | 0.78693275  | -0.128144748 | -0.87570714 | 0.18214410 | 5.716716e-02 | 1.2381083 | -0.413264451 |
| 24 | 0.83657704  | 0.032414964  | 0.22747228  | 0.23436476 | 5.370603e-03 | 1.3747665 | 0.125853031  |
| 25 | -0.42383354 | 0.109182542  | 0.71948343  | 0.12438605 | 2.472500e-02 | 1.1720821 | 0.271175404  |
| 26 | 0.99293427  | -0.311501273 | -2.16862461 | 0.15634811 | 2.725017e-01 | 0.9781688 | -0.933574648 |
| 27 | 0.18377691  | -0.191502524 | -1.21079708 | 0.03259070 | 1.632697e-02 | 1.0083053 | -0.222235306 |
| 28 | 0.84177410  | -0.029580096 | -0.19362922 | 0.12030373 | 1.738987e-03 | 1.1974446 | -0.071605119 |
| 29 | -0.26821874 | -0.039138258 | -0.24403930 | 0.03008678 | 6.263203e-04 | 1.0847586 | -0.042981464 |
| 30 | 0.13561750  | 0.133383500  | 0.83489134  | 0.02637173 | 6.327613e-03 | 1.0439374 | 0.137405038  |
| 31 | -0.06592940 | -0.092878597 | -0.57988400 | 0.02775522 | 3.238235e-03 | 1.0660042 | -0.097977351 |
| 32 | 1.04332100  | 0.128349001  | 0.87050819  | 0.16984057 | 5.190234e-02 | 1.2203546 | 0.393742983  |
| 33 | 0.08523077  | -0.018192474 | -0.11312679 | 0.02560935 | 1.141299e-04 | 1.0825296 | -0.018339950 |
| 34 | 0.08226103  | -0.010264026 | -0.06436364 | 0.04199795 | 6.163313e-05 | 1.1015683 | -0.013476324 |
| 35 | 0.48609727  | -0.237994268 | -1.54498187 | 0.06735528 | 5.607324e-02 | 0.9963410 | -0.415194021 |
| 36 | -0.01776999 | 0.100436788  | 0.62624319  | 0.02419105 | 3.276380e-03 | 1.0588974 | 0.098602510  |
| 37 | -0.16596042 | 0.012692417  | 0.07992522  | 0.04994043 | 1.139522e-04 | 1.1106414 | 0.018324602  |
| 38 | -0.11631613 | 0.133040128  | 0.83426797  | 0.02994819 | 7.201609e-03 | 1.0478450 | 0.146586309  |
| 39 | 0.18748910  | 0.073741900  | 0.46807582  | 0.06135312 | 4.841103e-03 | 1.1112045 | 0.119669486  |
| 40 | -0.22080177 | 0.188748565  | 1.20951919  | 0.05827958 | 2.993114e-02 | 1.0359808 | 0.300891537  |
| 41 | 0.08448834  | 0.186458663  | 1.16952556  | 0.01871889 | 8.640561e-03 | 0.9992580 | 0.161529965  |
| 42 | 0.64022719  | 0.397642806  | 2.71316928  | 0.08258829 | 1.983625e-01 | 0.7893227 | 0.814055424  |
| 43 | -0.32306009 | -0.187354909 | -1.24276010 | 0.11983867 | 6.942023e-02 | 1.1036511 | -0.458568956 |
| 44 | -0.06667184 | 0.096834640  | 0.60207049  | 0.01915782 | 2.387223e-03 | 1.0551595 | 0.084143558  |
| 45 | -0.37270438 | -0.022995620 | -0.14796321 | 0.08980383 | 7.328222e-04 | 1.1583038 | -0.046476528 |
| 46 | -0.21708958 | -0.012150420 | -0.07597826 | 0.03655064 | 7.431959e-05 | 1.0952427 | -0.014798660 |
| 47 | 0.53945374  | -0.084253743 | -0.53708743 | 0.06816358 | 7.124181e-03 | 1.1151181 | -0.145261778 |

## Multiple Linear Regression - Influence : ETA 2

```

48 -0.41863648 -0.306688518 -2.01000619 0.05862157 7.954402e-02 0.9064796 -0.501584385
49 -0.11631613 0.098900428 0.61843664 0.02994819 3.979794e-03 1.0657426 0.108663340
50 -0.21857445 -0.208522546 -1.31515969 0.02326701 1.355746e-02 0.9848226 -0.202983541
51 -0.31712059 0.055169594 0.35054151 0.06487582 2.886871e-03 1.1212414 0.092330720
52 -0.31860547 -0.151538532 -0.95442323 0.03466612 1.092144e-02 1.0408701 -0.180865117
53 0.08523077 -0.031773074 -0.19762257 0.02560935 3.481242e-04 1.0809810 -0.032038282
54 0.13561750 -0.169409100 -1.06453150 0.02637173 1.020726e-02 1.0197903 -0.175198836
55 -0.22005933 0.326570328 2.12735269 0.03928365 5.803079e-02 0.8666763 0.430177648
56 -0.47199296 -0.186853043 -1.19644197 0.05733975 2.880244e-02 1.0366800 -0.295081485
57 0.28529280 0.048834197 0.30476170 0.03118792 1.013069e-03 1.0840221 0.054680672
58 -0.06592940 -0.060345597 -0.37610166 0.02775522 1.366999e-03 1.0773427 -0.063546234
59 -0.21857445 -0.144424546 -0.90352926 0.02326701 6.503608e-03 1.0339596 -0.139451939

```

|    | Intercept     | BWT           | APGA          |
|----|---------------|---------------|---------------|
| 1  | 0.0017158207  | -0.0023374952 | 0.0029201235  |
| 2  | 0.0685550167  | 0.0416714226  | -0.1521847609 |
| 3  | 0.0780578683  | 0.0018486993  | -0.0326249733 |
| 4  | -0.0741417387 | 0.0769342040  | -0.0025367248 |
| 5  | 0.0503676270  | -0.0686167763 | 0.0857197303  |
| 6  | 0.0609261435  | -0.0198592862 | -0.0339328359 |
| 7  | 0.0051312412  | -0.0028409481 | -0.0021850046 |
| 8  | -0.0420097739 | 0.0727237689  | -0.0513354447 |
| 9  | 0.0145205890  | 0.0360028568  | -0.0768734327 |
| 10 | 0.0076816138  | -0.0104648086 | 0.0130731960  |
| 11 | 0.1164146684  | -0.2015272316 | 0.1422573420  |
| 12 | 0.0181831264  | -0.0089127887 | -0.0036191499 |
| 13 | -0.1121992263 | 0.0913772443  | 0.0068324626  |
| 14 | -0.0111139603 | 0.0202292082  | -0.0122933408 |
| 15 | 0.0175467842  | -0.0279910222 | 0.0245447563  |
| 16 | 0.0095086652  | 0.0212175562  | -0.0360812675 |
| 17 | -0.0714561665 | 0.0319392189  | 0.0348176138  |
| 18 | 0.1840694689  | -0.1019113663 | -0.0783811586 |
| 19 | 0.0775239431  | -0.0050690380 | -0.0743031151 |
| 20 | -0.0342337838 | 0.0228944863  | 0.0042089897  |
| 21 | 0.0002006287  | -0.0008662527 | -0.0004301023 |
| 22 | 0.0014663212  | 0.0014946211  | -0.0051160551 |
| 23 | -0.0493333805 | -0.3421227776 | 0.2723110211  |
| 24 | 0.0222233729  | 0.1006945303  | -0.0900625093 |
| 25 | 0.2632287966  | -0.0602567983 | -0.2225444653 |
| 26 | 0.5708802503  | -0.8060242031 | -0.1489595283 |
| 27 | -0.0829466929 | -0.1145689585 | 0.1277442872  |
| 28 | 0.0446208932  | -0.0585736124 | -0.0159361860 |
| 29 | -0.0144118983 | 0.0271379597  | -0.0147623602 |
| 30 | -0.0451292424 | 0.0249122882  | 0.0697938578  |
| 31 | 0.0112519705  | 0.0278985295  | -0.0595690432 |
| 32 | -0.2391816411 | 0.3445284023  | 0.0557865522  |
| 33 | 0.0051325932  | -0.0011715500 | -0.0099920222 |
| 34 | -0.0083890142 | -0.0045656170 | 0.0101853276  |
| 35 | -0.0257159429 | -0.3333814494 | 0.2111350875  |
| 36 | 0.0644001026  | 0.0102618940  | -0.0538657358 |
| 37 | -0.0036997921 | -0.0082556853 | 0.0140391093  |
| 38 | -0.0089632012 | -0.0564629101 | 0.0897795189  |
| 39 | -0.0715353048 | 0.0092084092  | 0.0960578682  |
| 40 | 0.2766554637  | -0.0387509987 | -0.2333250224 |
| 41 | -0.0020026954 | 0.0295443346  | 0.0314857814  |
| 42 | -0.5153615869 | 0.5859187609  | 0.2719265853  |

## Multiple Linear Regression - Influence : ETA 2

```
43 -0.4308433762  0.0528912140  0.3958598071
44  0.0145637418 -0.0198404625  0.0247857621
45 -0.0450862645  0.0114689536  0.0362319986
46 -0.0005047062  0.0081352961 -0.0089321001
47  0.0917108325 -0.0936970360 -0.0586421532
48 -0.0843658769  0.3769979512 -0.2780070075
49 -0.0066443544 -0.0418555349  0.0665528890
50 -0.1233571881  0.1004645066  0.0075119357
51 -0.0070567657 -0.0573982403  0.0671756158
52 -0.0648040987  0.1250571363 -0.0624379652
53  0.0089661898 -0.0020465951 -0.0174551857
54  0.0575422188 -0.0317645115 -0.0889909340
55  0.3882371235 -0.0996053303 -0.2749535200
56 -0.2731157224  0.1749778780  0.1271459867
57  0.0022259474  0.0361357739 -0.0163030708
58  0.0072978126  0.0180944520 -0.0386353406
59 -0.0847477538  0.0690202282  0.0051607830
```

\$n

```
[1] 59
```

\$`Parameter Count`

```
[1] 3
```

\$`Degree of Freedom`

```
[1] 56
```

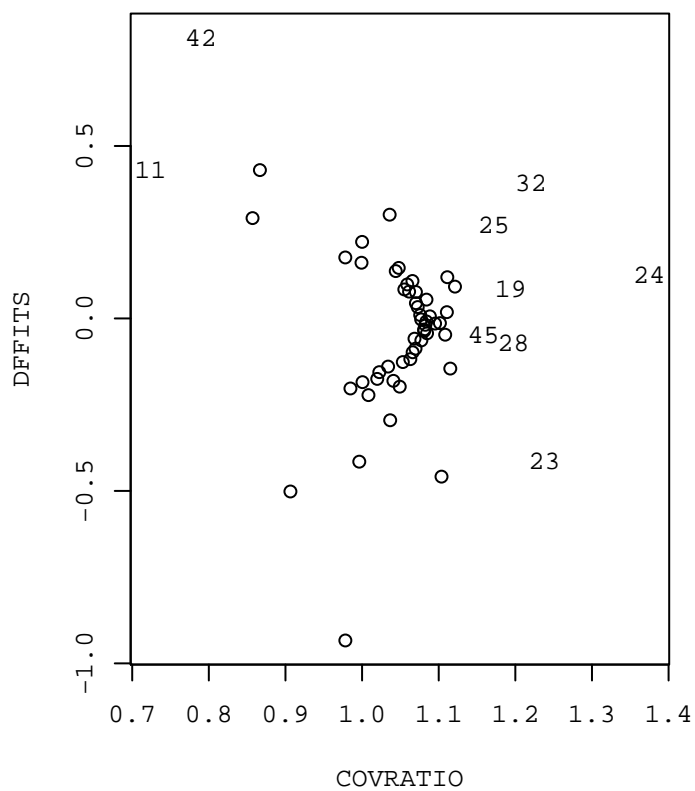
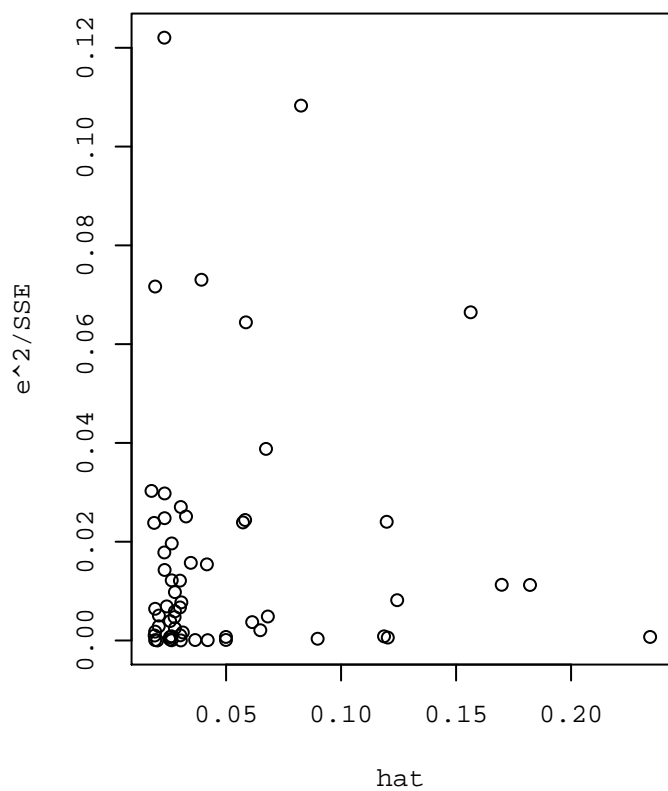
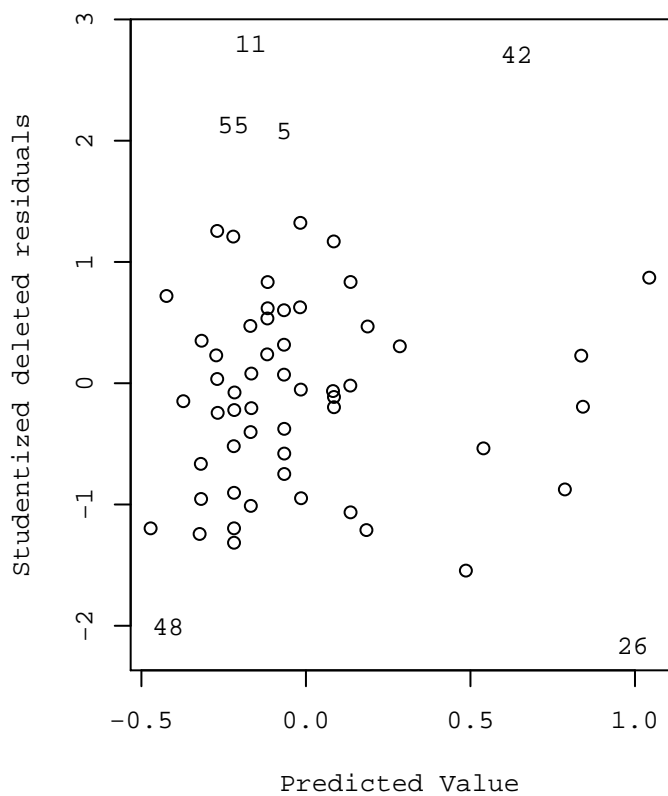
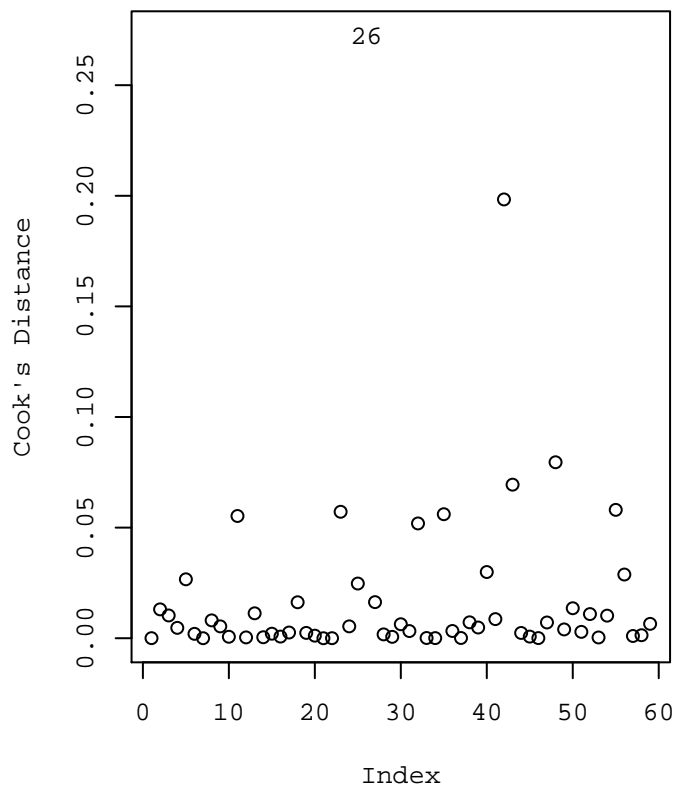
\$SSE

```
[1] 1.460102
```

\$MSE

```
[1] 0.02607325
```

# Influence Diagnostics on Eta 2



## ETA 1

|    | ID | ETA1        | seETA1     | LL1         | UL1         | ZERO1 | RSE1        | SHR1        |
|----|----|-------------|------------|-------------|-------------|-------|-------------|-------------|
| 1  | 1  | -0.07586210 | 0.01141680 | -0.09869570 | -0.05302850 | FALSE | 0.150494120 | 0.022661449 |
| 2  | 2  | -0.21623300 | 0.00865125 | -0.23353550 | -0.19893050 | FALSE | 0.040008926 | 0.017172050 |
| 3  | 3  | 0.25150900  | 0.00862601 | 0.23425698  | 0.26876102  | FALSE | 0.034297023 | 0.017121951 |
| 4  | 4  | -0.54252100 | 0.00812719 | -0.55877538 | -0.52626662 | FALSE | 0.014980416 | 0.016131832 |
| 5  | 5  | 0.32792400  | 0.01128940 | 0.30534520  | 0.35050280  | FALSE | 0.034426879 | 0.022408570 |
| 6  | 6  | -0.12971800 | 0.00845689 | -0.14663178 | -0.11280422 | FALSE | 0.065194422 | 0.016786261 |
| 7  | 7  | -0.33242300 | 0.00850159 | -0.34942618 | -0.31541982 | FALSE | 0.025574614 | 0.016874987 |
| 8  | 8  | -0.40527800 | 0.00655032 | -0.41837864 | -0.39217736 | FALSE | 0.016162535 | 0.013001870 |
| 9  | 9  | -0.26176300 | 0.00495181 | -0.27166662 | -0.25185938 | FALSE | 0.018917150 | 0.009828953 |
| 10 | 10 | -0.02036990 | 0.00780255 | -0.03597500 | -0.00476480 | FALSE | 0.383043118 | 0.015487448 |
| 11 | 11 | 0.32458300  | 0.01914720 | 0.28628860  | 0.36287740  | FALSE | 0.058990150 | 0.038005685 |
| 12 | 12 | -0.11752000 | 0.00690641 | -0.13133282 | -0.10370718 | FALSE | 0.058767954 | 0.013708680 |
| 13 | 13 | -0.52075300 | 0.00833741 | -0.53742782 | -0.50407818 | FALSE | 0.016010297 | 0.016549103 |
| 14 | 14 | -0.28054500 | 0.00585992 | -0.29226484 | -0.26882516 | FALSE | 0.020887629 | 0.011631480 |
| 15 | 15 | -0.04073530 | 0.01051010 | -0.06175550 | -0.01971510 | FALSE | 0.258009638 | 0.020861721 |
| 16 | 16 | -0.26586200 | 0.00729284 | -0.28044768 | -0.25127632 | FALSE | 0.027430923 | 0.014475713 |
| 17 | 17 | -0.39106300 | 0.00682429 | -0.40471158 | -0.37741442 | FALSE | 0.017450615 | 0.013545679 |
| 18 | 18 | -0.04800530 | 0.00621071 | -0.06042672 | -0.03558388 | FALSE | 0.129375506 | 0.012327771 |
| 19 | 19 | -0.30218000 | 0.00762679 | -0.31743358 | -0.28692642 | FALSE | 0.025239228 | 0.015138578 |
| 20 | 20 | -0.29093500 | 0.00736383 | -0.30566266 | -0.27620734 | FALSE | 0.025310911 | 0.014616623 |
| 21 | 21 | 0.16169800  | 0.00654048 | 0.14861704  | 0.17477896  | FALSE | 0.040448738 | 0.012982338 |
| 22 | 22 | -0.02982260 | 0.01329500 | -0.05641260 | -0.00323260 | FALSE | 0.445802848 | 0.026389529 |
| 23 | 23 | 0.85345800  | 0.00698032 | 0.83949736  | 0.86741864  | FALSE | 0.008178868 | 0.013855386 |
| 24 | 24 | 1.10521000  | 0.00443358 | 1.09634284  | 1.11407716  | FALSE | 0.004011527 | 0.008800307 |
| 25 | 25 | -0.41855400 | 0.00507174 | -0.42869748 | -0.40841052 | FALSE | 0.012117290 | 0.010067005 |
| 26 | 26 | 0.86894300  | 0.00801859 | 0.85290582  | 0.88498018  | FALSE | 0.009227982 | 0.015916270 |
| 27 | 27 | -0.00410092 | 0.00993548 | -0.02397188 | 0.01577004  | TRUE  | 2.422744165 | 0.019721146 |
| 28 | 28 | 1.02989000  | 0.03138420 | 0.96712160  | 1.09265840  | FALSE | 0.030473352 | 0.062295167 |
| 29 | 29 | -0.39119200 | 0.02261910 | -0.43643020 | -0.34595380 | FALSE | 0.057820968 | 0.044897133 |
| 30 | 30 | 0.33563900  | 0.01408160 | 0.30747580  | 0.36380220  | FALSE | 0.041954600 | 0.027950868 |
| 31 | 31 | -0.20133900 | 0.02303040 | -0.24739980 | -0.15527820 | FALSE | 0.114386184 | 0.045713531 |
| 32 | 32 | 1.48947000  | 0.01067720 | 1.46811560  | 1.51082440  | FALSE | 0.007168456 | 0.021193402 |
| 33 | 33 | 0.08205350  | 0.01229800 | 0.05745750  | 0.10664950  | FALSE | 0.149877824 | 0.024410562 |
| 34 | 34 | 0.09076530  | 0.01137260 | 0.06802010  | 0.11351050  | FALSE | 0.125296782 | 0.022573716 |
| 35 | 35 | 0.30355000  | 0.00872137 | 0.28610726  | 0.32099274  | FALSE | 0.028731247 | 0.017311233 |
| 36 | 36 | 0.12928800  | 0.00747195 | 0.11434410  | 0.14423190  | FALSE | 0.057793067 | 0.014831233 |
| 37 | 37 | -0.19736900 | 0.00982628 | -0.21702156 | -0.17771644 | FALSE | 0.049786339 | 0.019504392 |
| 38 | 38 | 0.02318970  | 0.00578129 | 0.01162712  | 0.03475228  | FALSE | 0.249304217 | 0.011475406 |
| 39 | 39 | 0.34003400  | 0.00553977 | 0.32895446  | 0.35111354  | FALSE | 0.016291812 | 0.010996007 |
| 40 | 40 | -0.04066230 | 0.01804250 | -0.07674730 | -0.00457730 | FALSE | 0.443715678 | 0.035812942 |
| 41 | 41 | 0.34350700  | 0.01017800 | 0.32315100  | 0.36386300  | FALSE | 0.029629673 | 0.020202529 |
| 42 | 42 | 1.32657000  | 0.02038730 | 1.28579540  | 1.36734460  | FALSE | 0.015368431 | 0.040467186 |
| 43 | 43 | -0.64717100 | 0.02730100 | -0.70177300 | -0.59256900 | FALSE | 0.042185141 | 0.054190336 |
| 44 | 44 | 0.03323950  | 0.00834166 | 0.01655618  | 0.04992282  | FALSE | 0.250956242 | 0.016557539 |
| 45 | 45 | -0.50400400 | 0.01053840 | -0.52508080 | -0.48292720 | FALSE | 0.020909358 | 0.020917895 |
| 46 | 46 | -0.29065600 | 0.02994130 | -0.35053860 | -0.23077340 | FALSE | 0.103012840 | 0.059431124 |
| 47 | 47 | 0.57899600  | 0.01957680 | 0.53984240  | 0.61814960  | FALSE | 0.033811633 | 0.038858407 |
| 48 | 48 | -0.95627900 | 0.00456691 | -0.96541282 | -0.94714518 | FALSE | 0.004775709 | 0.009064957 |
| 49 | 49 | -0.02925140 | 0.00722055 | -0.04369250 | -0.01481030 | FALSE | 0.246844595 | 0.014332223 |
| 50 | 50 | -0.52849700 | 0.00501705 | -0.53853110 | -0.51846290 | FALSE | 0.009493053 | 0.009958449 |
| 51 | 51 | -0.34025000 | 0.00780285 | -0.35585570 | -0.32464430 | FALSE | 0.022932697 | 0.015488043 |
| 52 | 52 | -0.57667300 | 0.00675787 | -0.59018874 | -0.56315726 | FALSE | 0.011718721 | 0.013413840 |
| 53 | 53 | 0.06133430  | 0.01194700 | 0.03744030  | 0.08522830  | FALSE | 0.194784973 | 0.023713855 |
| 54 | 54 | -0.04709890 | 0.00601098 | -0.05912086 | -0.03507694 | FALSE | 0.127624637 | 0.011931322 |

ETA 1

|    |    |             |            |             |             |       |             |             |
|----|----|-------------|------------|-------------|-------------|-------|-------------|-------------|
| 55 | 55 | 0.13580600  | 0.02280030 | 0.09020540  | 0.18140660  | FALSE | 0.167888753 | 0.045256801 |
| 56 | 56 | -0.83664500 | 0.03327960 | -0.90320420 | -0.77008580 | FALSE | 0.039777444 | 0.066057387 |
| 57 | 57 | 0.42664600  | 0.01117010 | 0.40430580  | 0.44898620  | FALSE | 0.026181190 | 0.022171769 |
| 58 | 58 | -0.15224700 | 0.00749816 | -0.16724332 | -0.13725068 | FALSE | 0.049249969 | 0.014883257 |
| 59 | 59 | -0.46429600 | 0.00656938 | -0.47743476 | -0.45115724 | FALSE | 0.014149120 | 0.013039702 |

## ETA 2

|    | ID | ETA2        | seETA2     | LL2         | UL2         | ZERO2 | RSE2        | SHR2        |
|----|----|-------------|------------|-------------|-------------|-------|-------------|-------------|
| 1  | 1  | -0.05522630 | 0.00578334 | -0.06679298 | -0.04365962 | FALSE | 0.104720758 | 0.014686599 |
| 2  | 2  | -0.16483200 | 0.00431527 | -0.17346254 | -0.15620146 | FALSE | 0.026179807 | 0.010958484 |
| 3  | 3  | 0.19325900  | 0.00445103 | 0.18435694  | 0.20216106  | FALSE | 0.023031424 | 0.011303242 |
| 4  | 4  | -0.42558000 | 0.00378107 | -0.43314214 | -0.41801786 | FALSE | 0.008884511 | 0.009601901 |
| 5  | 5  | 0.25681700  | 0.00601158 | 0.24479384  | 0.26884016  | FALSE | 0.023408030 | 0.015266207 |
| 6  | 6  | -0.09306620 | 0.00417985 | -0.10142590 | -0.08470650 | FALSE | 0.044912654 | 0.010614589 |
| 7  | 7  | -0.26408700 | 0.00443964 | -0.27296628 | -0.25520772 | FALSE | 0.016811278 | 0.011274317 |
| 8  | 8  | -0.32880200 | 0.00294546 | -0.33469292 | -0.32291108 | FALSE | 0.008958157 | 0.007479897 |
| 9  | 9  | -0.18554700 | 0.00291995 | -0.19138690 | -0.17970710 | FALSE | 0.015736983 | 0.007415115 |
| 10 | 10 | -0.01547550 | 0.00386968 | -0.02321486 | -0.00773614 | FALSE | 0.250052018 | 0.009826923 |
| 11 | 11 | 0.25470100  | 0.01056820 | 0.23356460  | 0.27583740  | FALSE | 0.041492574 | 0.026837591 |
| 12 | 12 | -0.07937310 | 0.00444483 | -0.08826276 | -0.07048344 | FALSE | 0.055999199 | 0.011287497 |
| 13 | 13 | -0.40873700 | 0.00442296 | -0.41758292 | -0.39989108 | FALSE | 0.010821041 | 0.011231959 |
| 14 | 14 | -0.25336000 | 0.00342681 | -0.26021362 | -0.24650638 | FALSE | 0.013525458 | 0.008702270 |
| 15 | 15 | -0.03116130 | 0.00565474 | -0.04247078 | -0.01985182 | FALSE | 0.181466755 | 0.014360023 |
| 16 | 16 | -0.19857000 | 0.00342488 | -0.20541976 | -0.19172024 | FALSE | 0.017247721 | 0.008697368 |
| 17 | 17 | -0.30248700 | 0.00333051 | -0.30914802 | -0.29582598 | FALSE | 0.011010424 | 0.008457719 |
| 18 | 18 | -0.07104820 | 0.00380552 | -0.07865924 | -0.06343716 | FALSE | 0.053562511 | 0.009663991 |
| 19 | 19 | -0.23753900 | 0.00386936 | -0.24527772 | -0.22980028 | FALSE | 0.016289367 | 0.009826110 |
| 20 | 20 | -0.23300400 | 0.00334177 | -0.23968754 | -0.22632046 | FALSE | 0.014342114 | 0.008486313 |
| 21 | 21 | 0.13174900  | 0.00414361 | 0.12346178  | 0.14003622  | FALSE | 0.031450789 | 0.010522559 |
| 22 | 22 | -0.02394560 | 0.00621533 | -0.03637626 | -0.01151494 | FALSE | 0.259560420 | 0.015783623 |
| 23 | 23 | 0.65878800  | 0.00370146 | 0.65138508  | 0.66619092  | FALSE | 0.005618591 | 0.009399734 |
| 24 | 24 | 0.86899200  | 0.00252074 | 0.86395052  | 0.87403348  | FALSE | 0.002900763 | 0.006401335 |
| 25 | 25 | -0.31465100 | 0.00200559 | -0.31866218 | -0.31063982 | FALSE | 0.006374014 | 0.005093129 |
| 26 | 26 | 0.68143300  | 0.00413823 | 0.67315654  | 0.68970946  | FALSE | 0.006072835 | 0.010508897 |
| 27 | 27 | -0.00772561 | 0.00457370 | -0.01687301 | 0.00142179  | TRUE  | 0.592017977 | 0.011614758 |
| 28 | 28 | 0.81219400  | 0.01673180 | 0.77873040  | 0.84565760  | FALSE | 0.020600743 | 0.042489847 |
| 29 | 29 | -0.30735700 | 0.01234640 | -0.33204980 | -0.28266420 | FALSE | 0.040169575 | 0.031353270 |
| 30 | 30 | 0.26900100  | 0.00865531 | 0.25169038  | 0.28631162  | FALSE | 0.032175754 | 0.021979871 |
| 31 | 31 | -0.15880800 | 0.01148680 | -0.18178160 | -0.13583440 | FALSE | 0.072331369 | 0.029170345 |
| 32 | 32 | 1.17167000  | 0.00524886 | 1.16117228  | 1.18216772  | FALSE | 0.004479811 | 0.013329305 |
| 33 | 33 | 0.06703830  | 0.00580568 | 0.05542694  | 0.07864966  | FALSE | 0.086602435 | 0.014743330 |
| 34 | 34 | 0.07199700  | 0.00546544 | 0.06106612  | 0.08292788  | FALSE | 0.075912052 | 0.013879302 |
| 35 | 35 | 0.24810300  | 0.00417266 | 0.23975768  | 0.25644832  | FALSE | 0.016818257 | 0.010596331 |
| 36 | 36 | 0.08266680  | 0.00468264 | 0.07330152  | 0.09203208  | FALSE | 0.056644747 | 0.011891408 |
| 37 | 37 | -0.15326800 | 0.00522011 | -0.16370822 | -0.14282778 | FALSE | 0.034058708 | 0.013256295 |
| 38 | 38 | 0.01672400  | 0.00383922 | 0.00904556  | 0.02440244  | FALSE | 0.229563502 | 0.009749571 |
| 39 | 39 | 0.26123100  | 0.00336401 | 0.25450298  | 0.26795902  | FALSE | 0.012877530 | 0.008542791 |
| 40 | 40 | -0.03205320 | 0.00841906 | -0.04889132 | -0.01521508 | FALSE | 0.262658954 | 0.021379922 |
| 41 | 41 | 0.27094700  | 0.00448308 | 0.26198084  | 0.27991316  | FALSE | 0.016545967 | 0.011384632 |
| 42 | 42 | 1.03787000  | 0.01150170 | 1.01486660  | 1.06087340  | FALSE | 0.011082024 | 0.029208183 |
| 43 | 43 | -0.51041500 | 0.01416870 | -0.53875240 | -0.48207760 | FALSE | 0.027759176 | 0.035980940 |
| 44 | 44 | 0.03016280  | 0.00518256 | 0.01979768  | 0.04052792  | FALSE | 0.171819592 | 0.013160938 |
| 45 | 45 | -0.39570000 | 0.00507170 | -0.40584340 | -0.38555660 | FALSE | 0.012817033 | 0.012879413 |
| 46 | 46 | -0.22924000 | 0.01580800 | -0.26085600 | -0.19762400 | FALSE | 0.068958297 | 0.040143888 |
| 47 | 47 | 0.45520000  | 0.01028570 | 0.43462860  | 0.47577140  | FALSE | 0.022596002 | 0.026120192 |
| 48 | 48 | -0.72532500 | 0.00179914 | -0.72892328 | -0.72172672 | FALSE | 0.002480460 | 0.004568856 |
| 49 | 49 | -0.01741570 | 0.00349127 | -0.02439824 | -0.01043316 | FALSE | 0.200466820 | 0.008865964 |
| 50 | 50 | -0.42709700 | 0.00183414 | -0.43076528 | -0.42342872 | FALSE | 0.004294434 | 0.004657737 |
| 51 | 51 | -0.26195100 | 0.00378171 | -0.26951442 | -0.25438758 | FALSE | 0.014436708 | 0.009603526 |
| 52 | 52 | -0.47014400 | 0.00354300 | -0.47723000 | -0.46305800 | FALSE | 0.007535989 | 0.008997330 |
| 53 | 53 | 0.05345770  | 0.00531028 | 0.04283714  | 0.06407826  | FALSE | 0.099336111 | 0.013485279 |
| 54 | 54 | -0.03379160 | 0.00231787 | -0.03842734 | -0.02915586 | FALSE | 0.068593082 | 0.005886153 |

ETA 2

|    |    |             |            |             |             |       |             |             |
|----|----|-------------|------------|-------------|-------------|-------|-------------|-------------|
| 55 | 55 | 0.10651100  | 0.01296630 | 0.08057840  | 0.13244360  | FALSE | 0.121736722 | 0.032927486 |
| 56 | 56 | -0.65884600 | 0.01830520 | -0.69545640 | -0.62223560 | FALSE | 0.027783731 | 0.046485444 |
| 57 | 57 | 0.33412700  | 0.00574039 | 0.32264622  | 0.34560778  | FALSE | 0.017180264 | 0.014577529 |
| 58 | 58 | -0.12627500 | 0.00349645 | -0.13326790 | -0.11928210 | FALSE | 0.027689170 | 0.008879118 |
| 59 | 59 | -0.36299900 | 0.00291322 | -0.36882544 | -0.35717256 | FALSE | 0.008025422 | 0.007398025 |