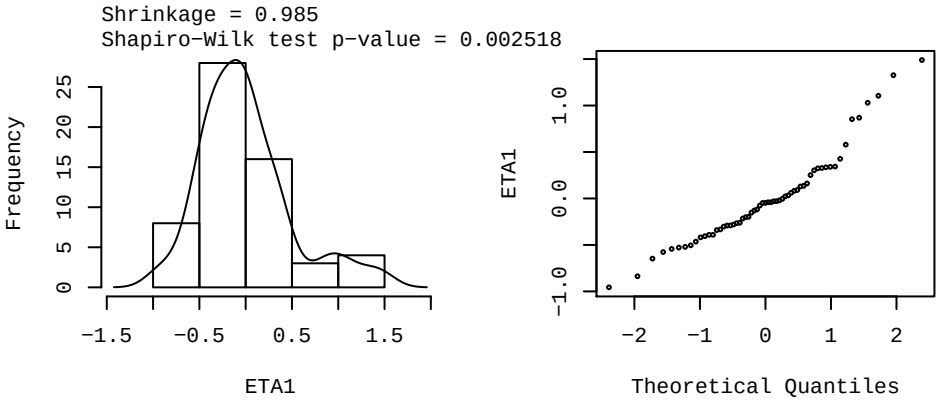
# Normality and Population Shrinkage of Etas

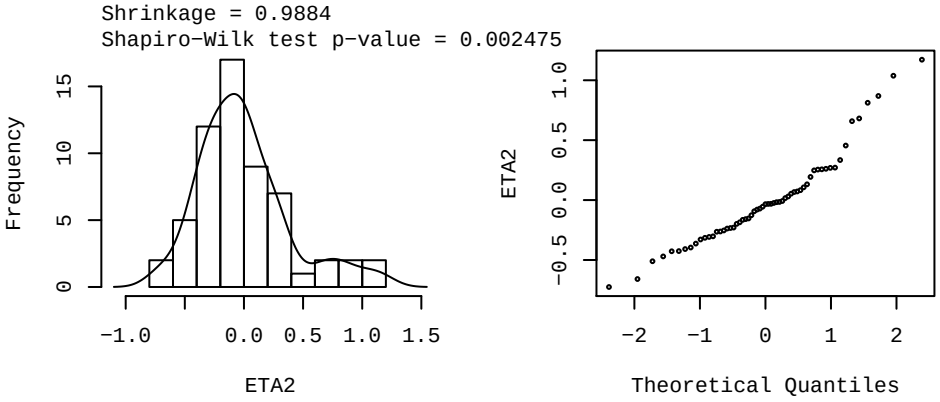
## Eta 1

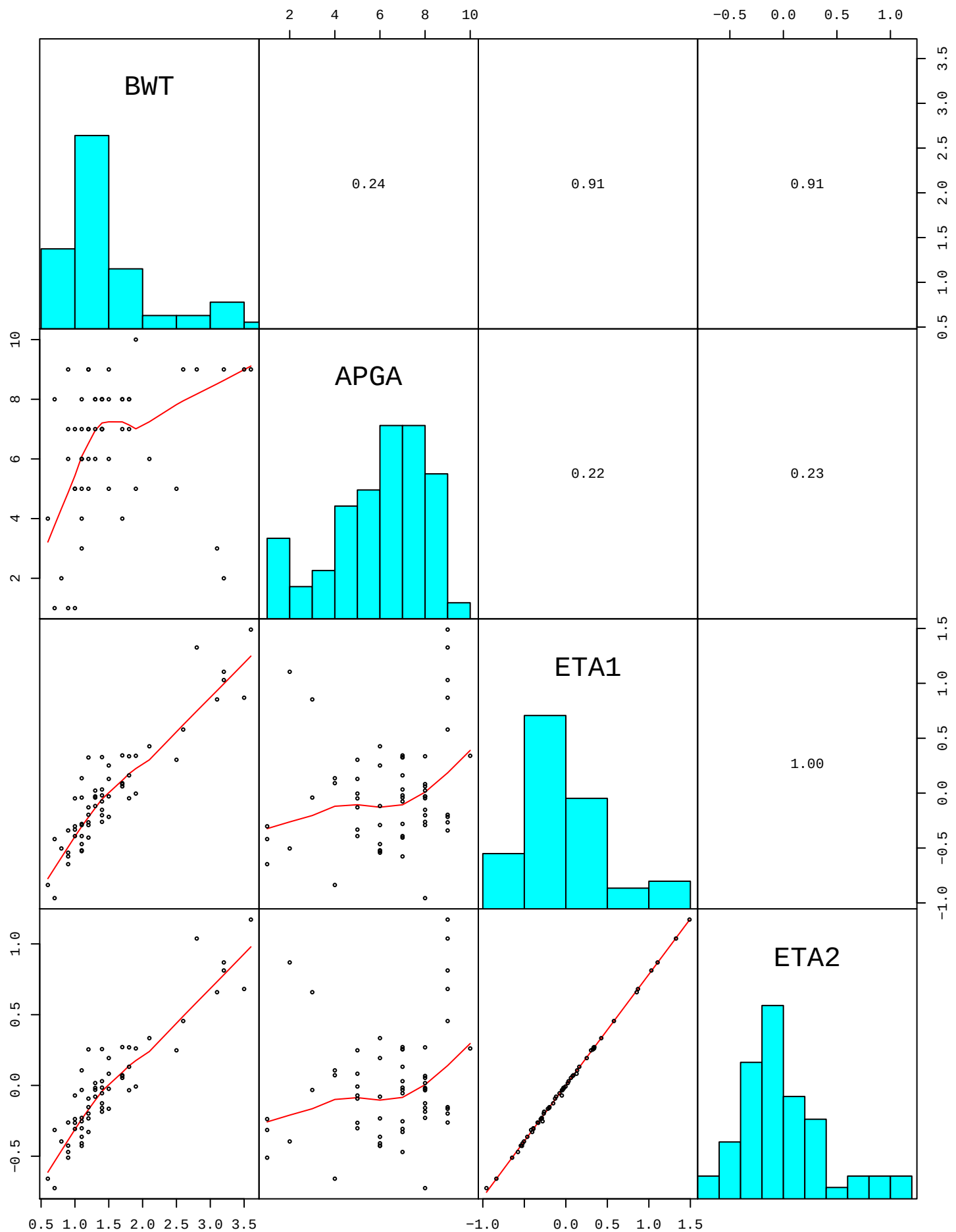
```
Minimum : −0.956279
1st Qu. : −0.3173015
Median  : −0.0470989
Mean    : −0.0046537528813
3rd Qu. : 0.2066035
Maximum : 1.48947
Std Dev : 0.4962
t−test p= 0.9428
```

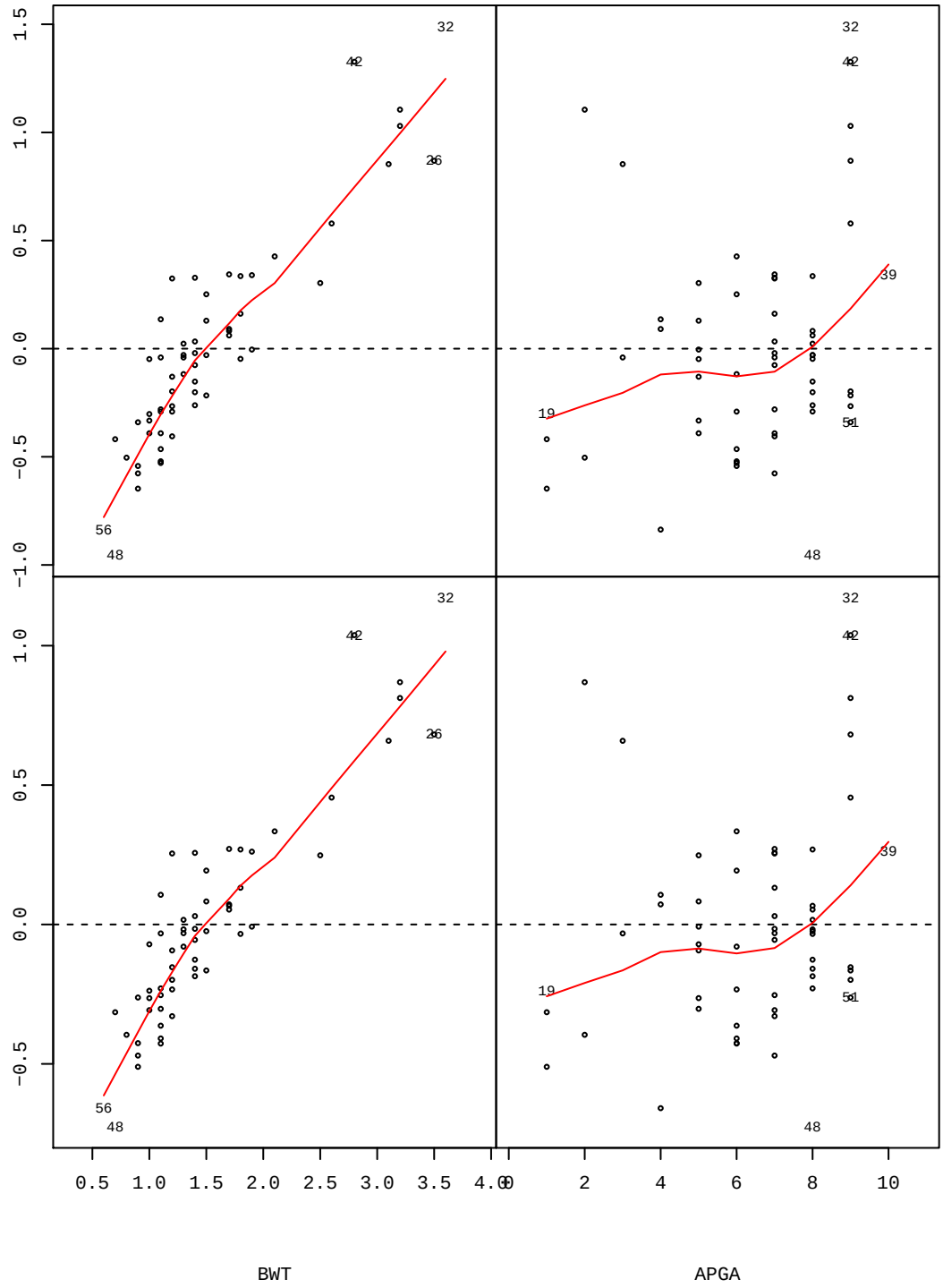



## Eta 2

```
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
BWT
APGA
ETA1
ETA2
0.24
0.91
0.91
0.22
0.23
1.00


ETA1
ETA2
BWT
APGA
1.5
1.0
0.5
0.0
−0.5
−1.0
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
0 2 4 6 8 10
32
42
26
56
48
19
39
51

## 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 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 |

```
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

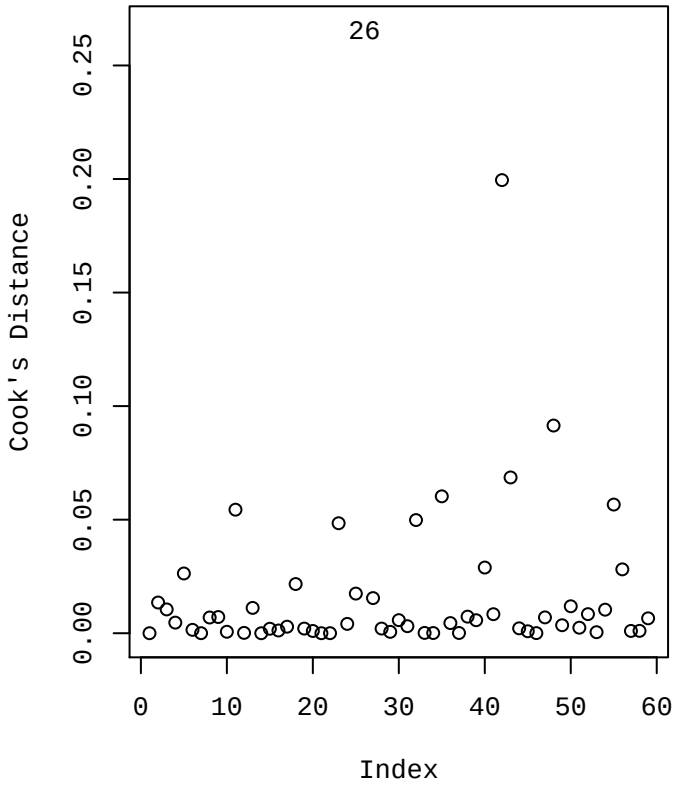
$`Parameter Count`
[1] 3

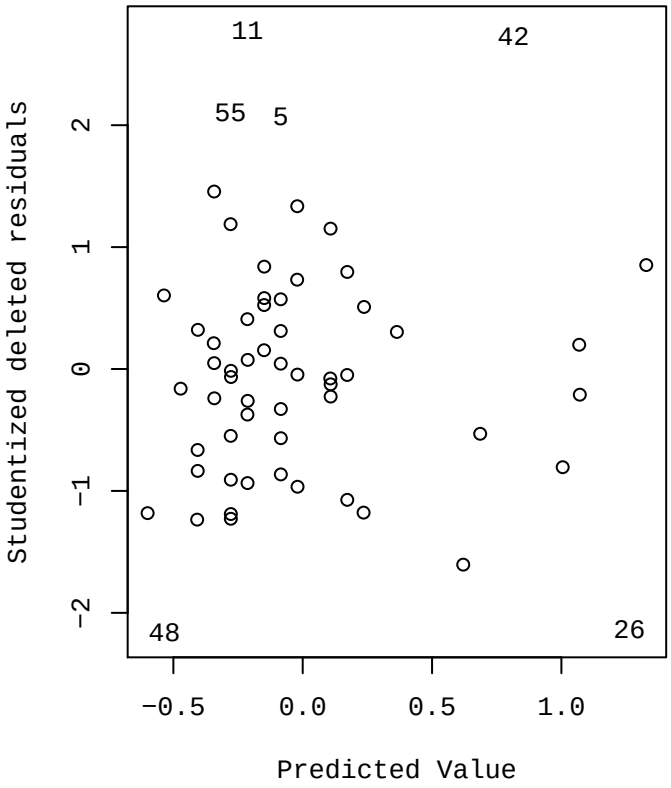
$`Degree of Freedom`
[1] 56

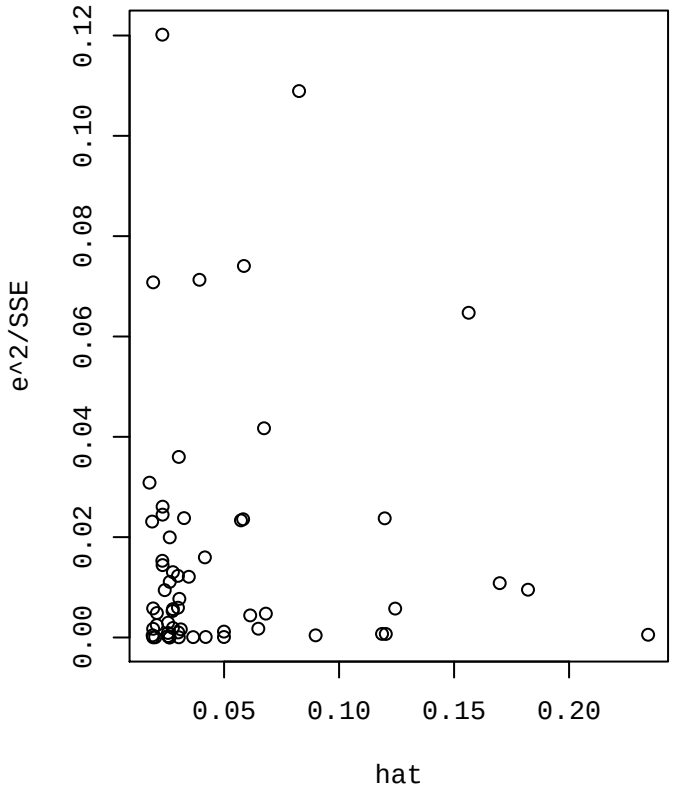
$SSE
[1] 2.408056

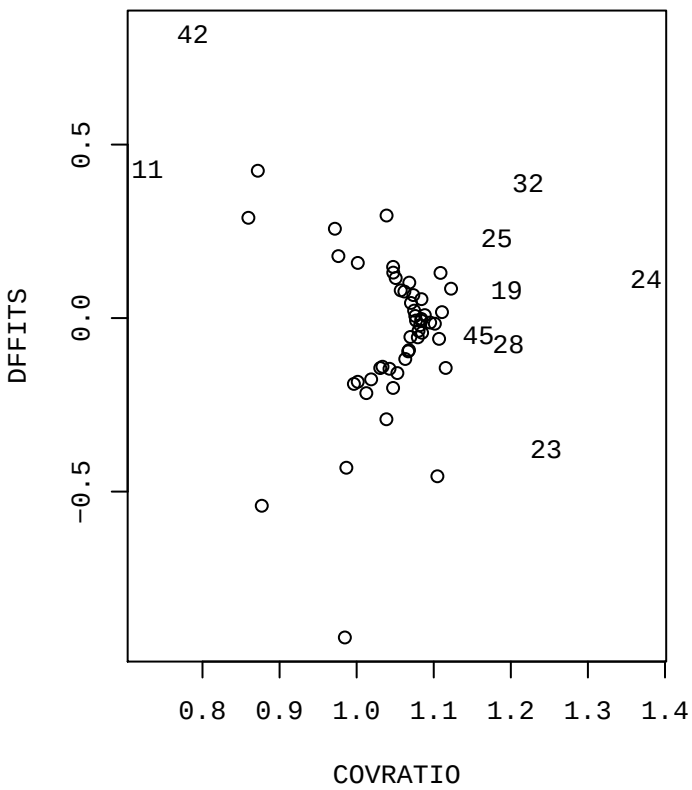
$MSE
[1] 0.043001
```

# 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 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 |

```
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
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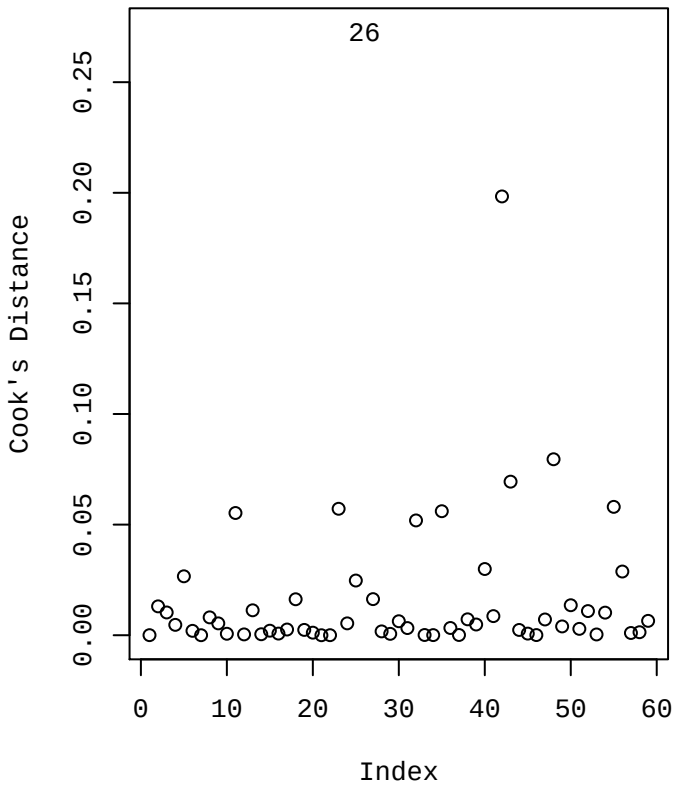
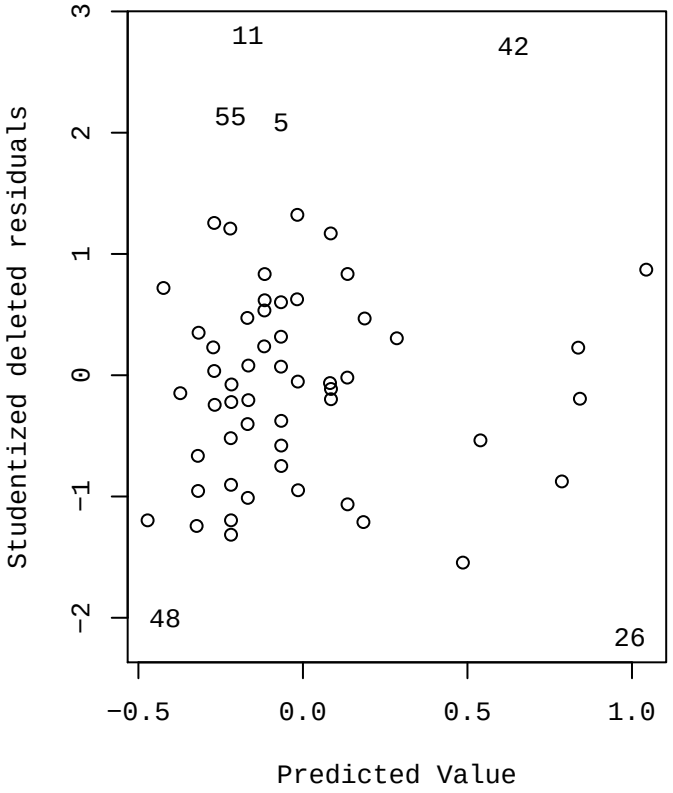
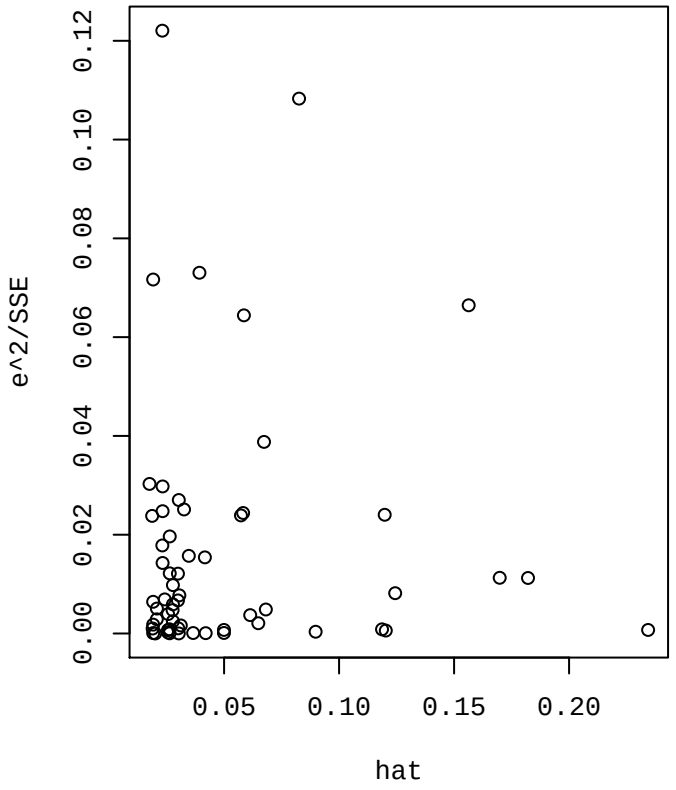
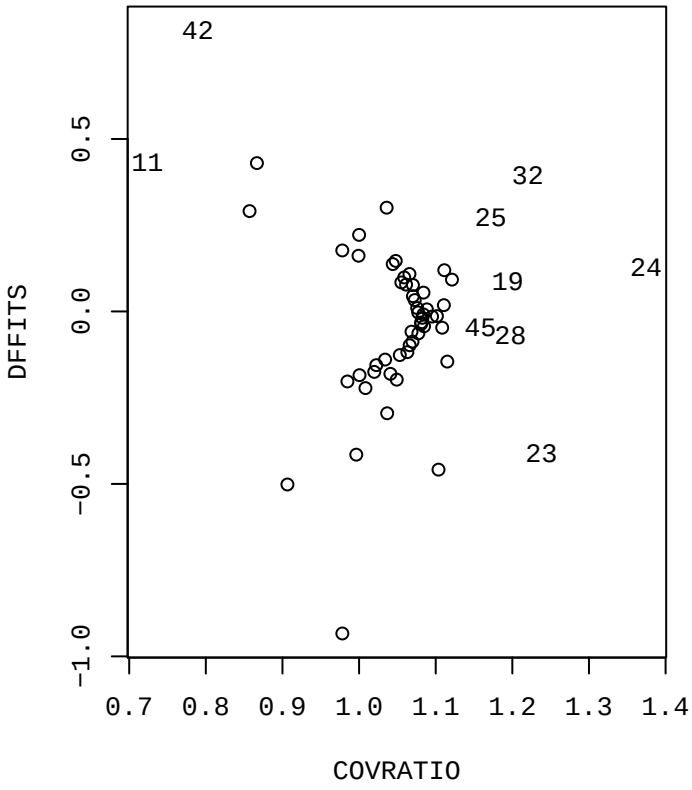
Influence Diagnostics on Eta 2



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 |