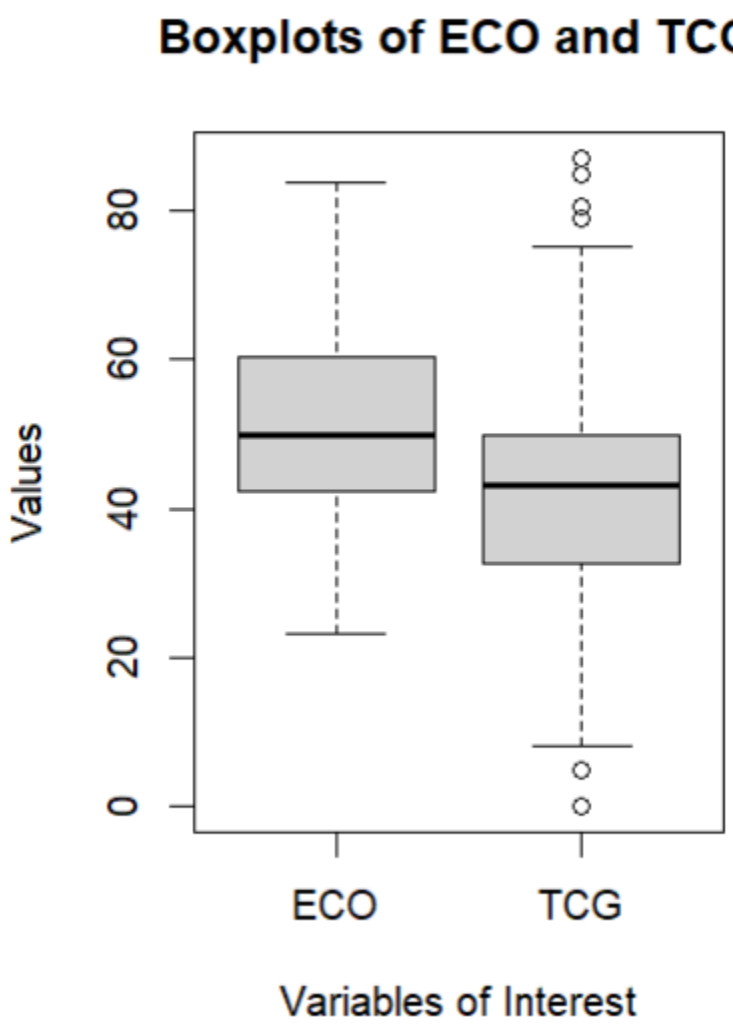
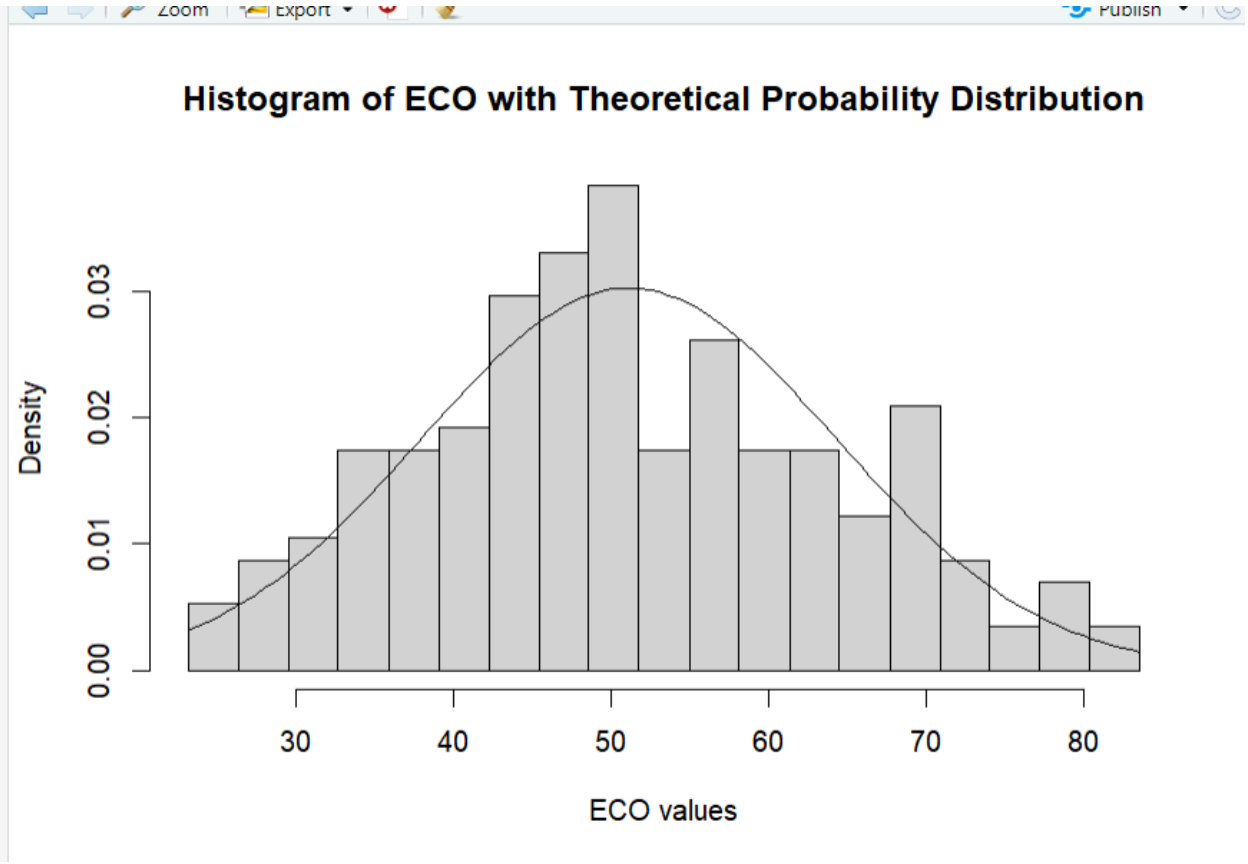
Variable Summaries

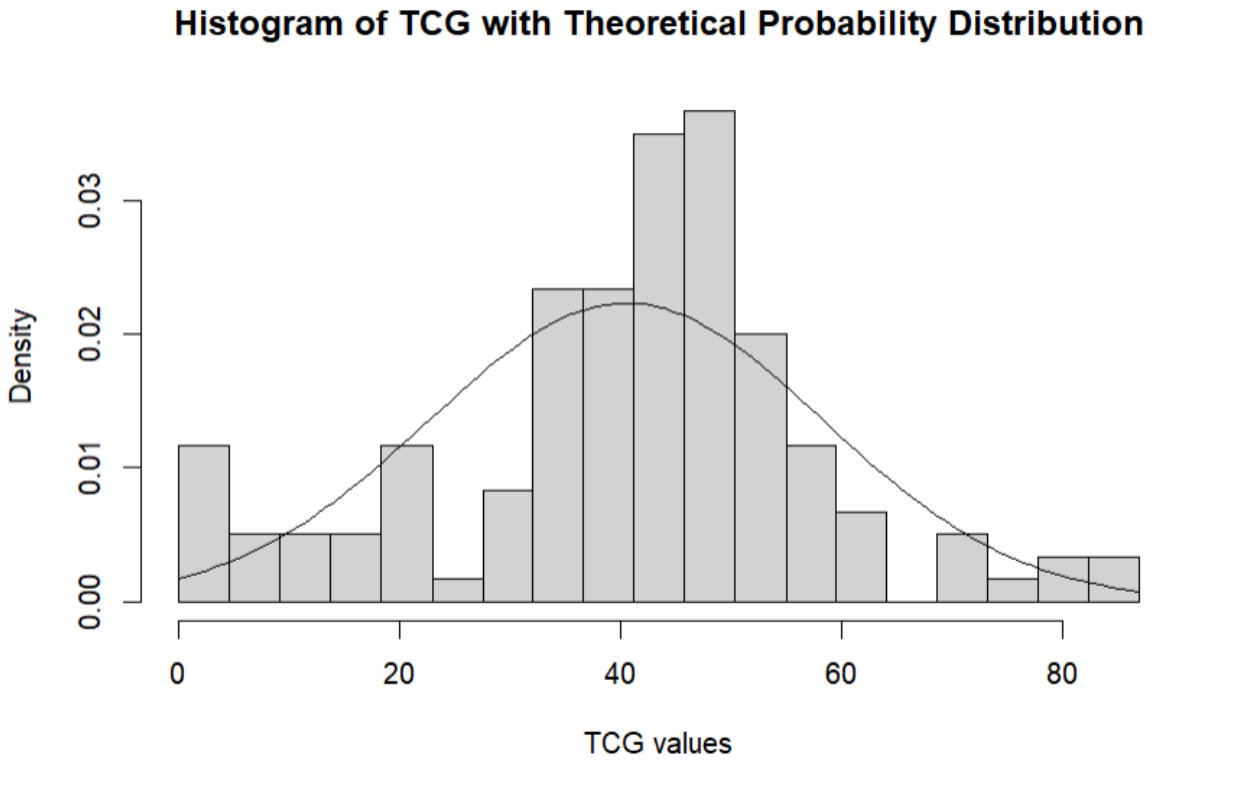
```
> summary(ECO.noNA)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  23.10   42.27   49.75   51.10   60.08   83.60
> summary(TCG.noNA)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   0.00   32.60   43.10   40.46   49.75   87.00
```

Variable Boxplots

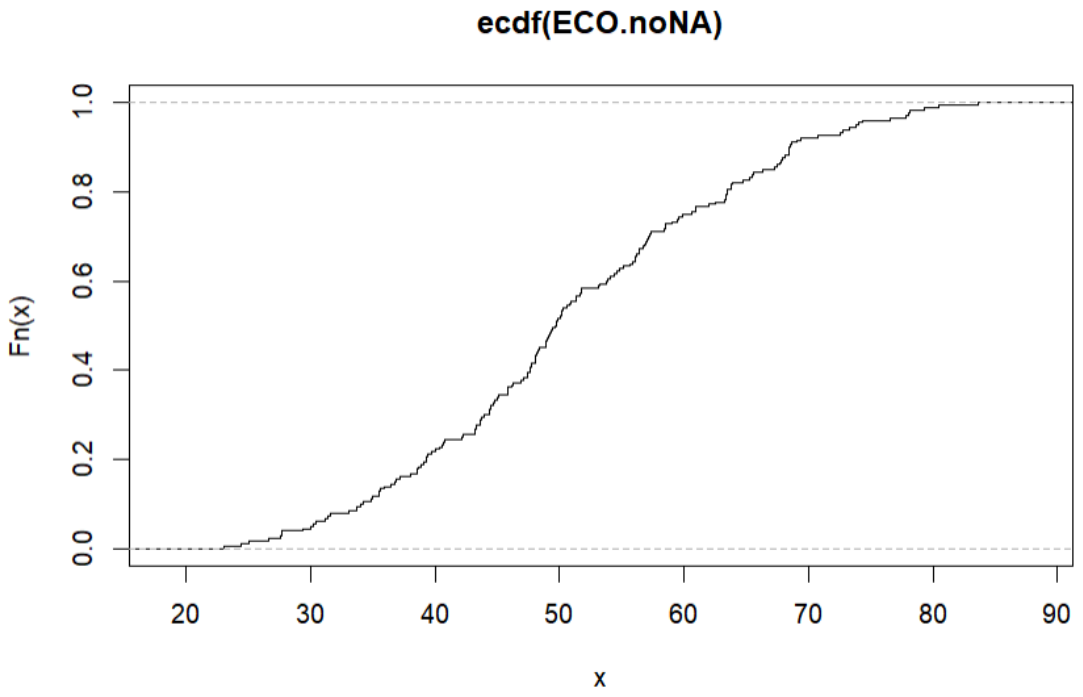


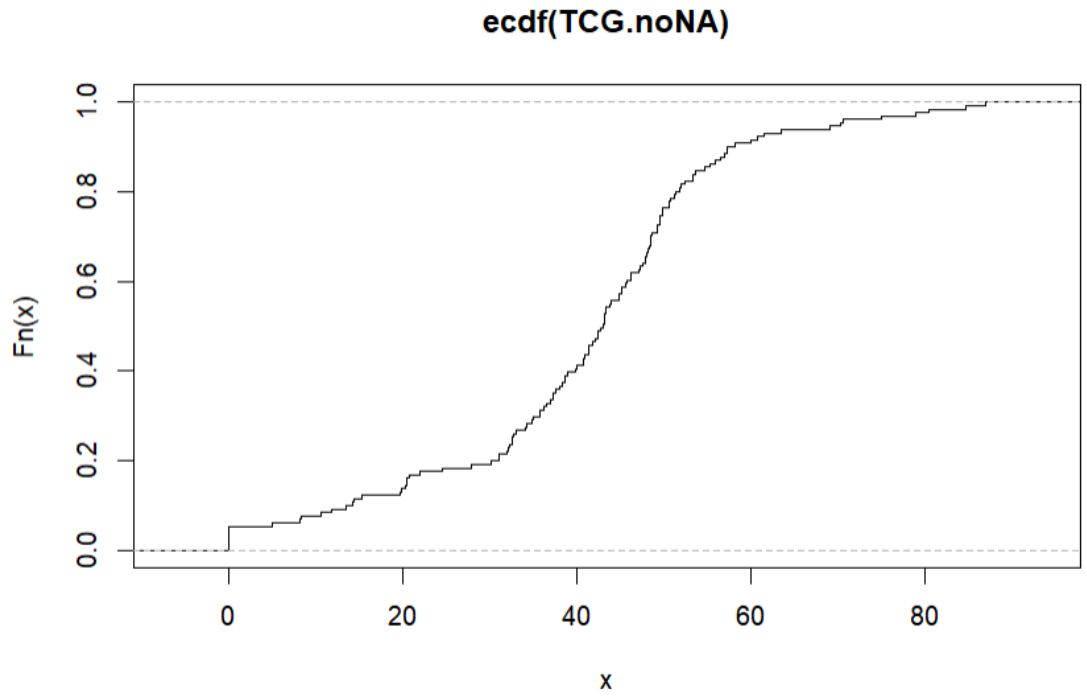
Histograms


Zoom
Export
Publish
Histogram of ECO with Theoretical Probability Distribution
Density
0.00
0.01
0.02
0.03
30
40
50
60
70
80
ECO values

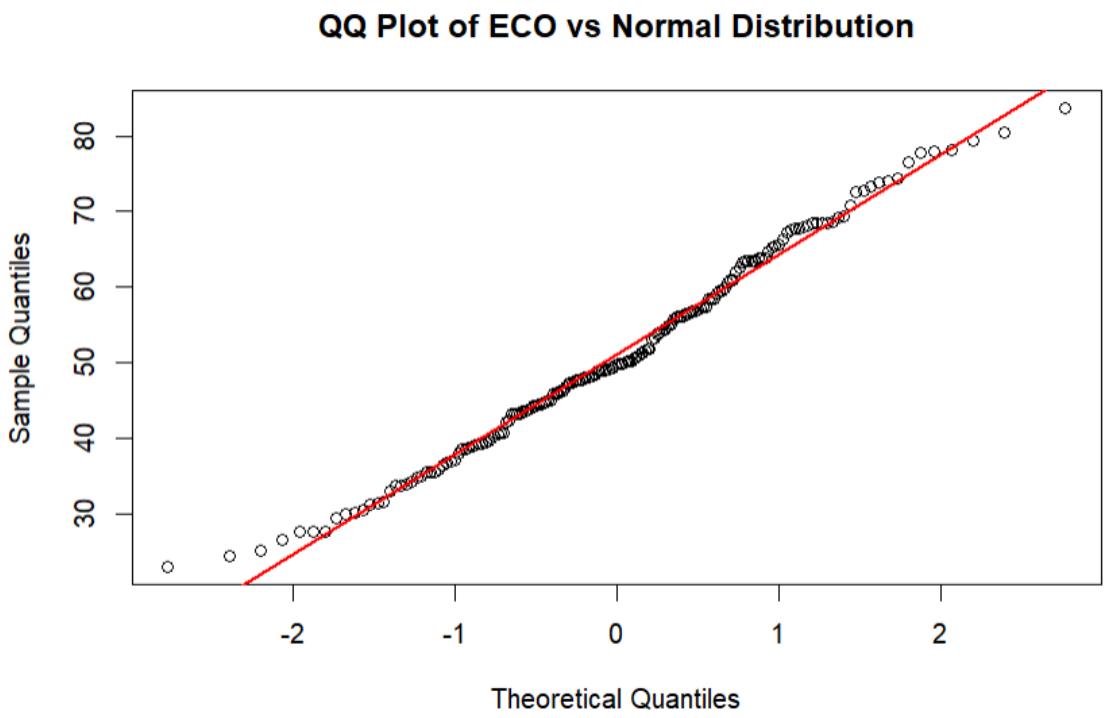

Histogram of TCG with Theoretical Probability Distribution
Density
0.00
0.01
0.02
0.03
0
20
40
60
80
TCG values

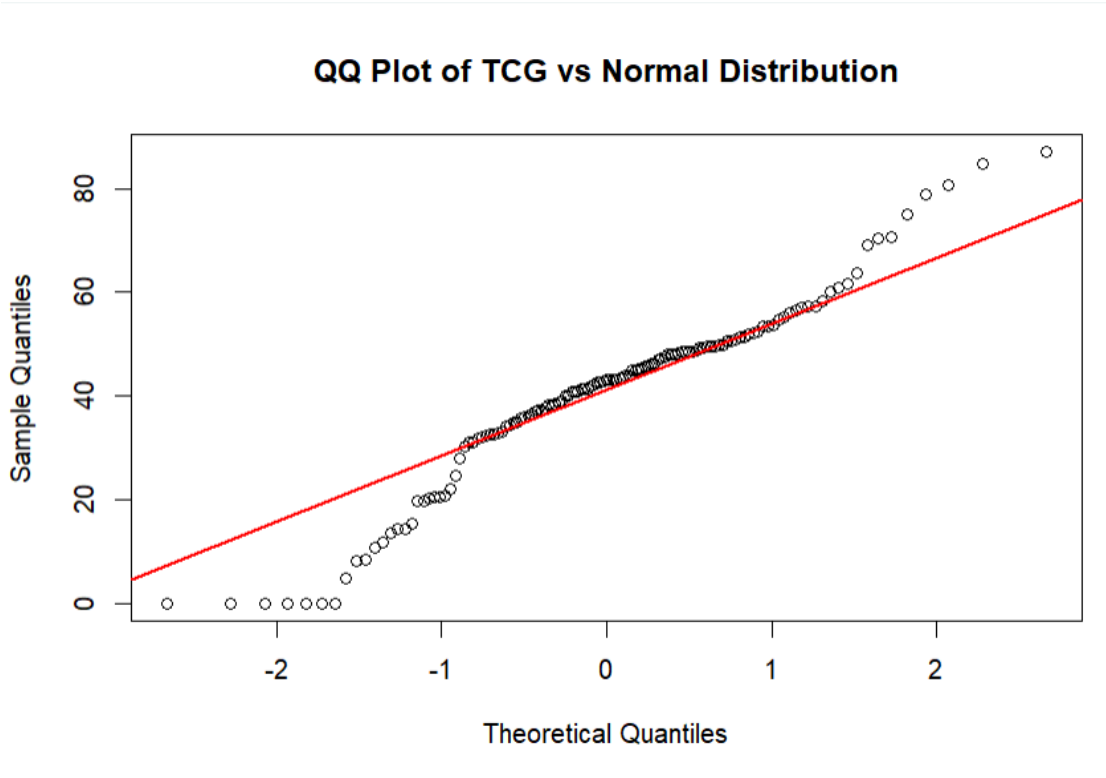
ECDF Plots


ecdf(ECO.noNA)
Fn(x)
0.0
0.2
0.4
0.6
0.8
1.0
20
30
40
50
60
70
80
90
x

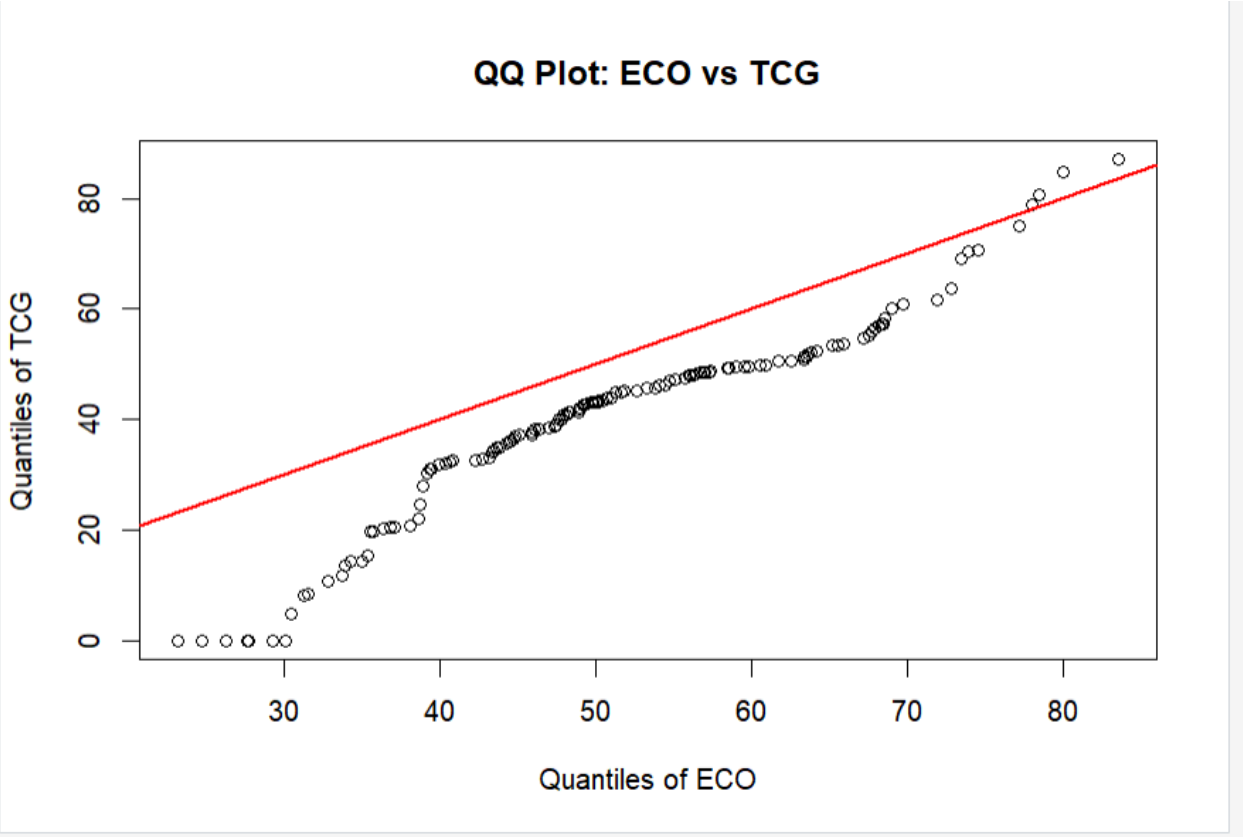

ecdf(TCG.noNA)
Fn(x)
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
x

QQ Plots Against Normal Distribution





QQ Plot of Chosen Variables Against Each Other



All Remaining Statistical Tests

```
> shapiro.test(ECO.noNA)

        Shapiro-Wilk normality test

data:  ECO.noNA
W = 0.98825, p-value = 0.1409

> shapiro.test(TCG.noNA)

        Shapiro-Wilk normality test

data:  TCG.noNA
W = 0.95425, p-value = 0.0002294
```

```
> ad.test(ECO.noNA)

        Anderson-Darling normality test

data:  ECO.noNA
A = 0.53432, p-value = 0.1694

> ad.test(TCG.noNA)

        Anderson-Darling normality test

data:  TCG.noNA
A = 2.3567, p-value = 5.369e-06

>
```

```
> ks.test(ECO.noNA,TCG.noNA)

        Asymptotic two-sample Kolmogorov-Smirnov test

data:  ECO.noNA and TCG.noNA
D = 0.26421, p-value = 5.057e-05
alternative hypothesis: two-sided
```

```
> wilcox.test(ECO.noNA,TCG.noNA)

        Wilcoxon rank sum test with continuity correction

data:  ECO.noNA and TCG.noNA
W = 15952, p-value = 1.071e-07
alternative hypothesis: true location shift is not equal to 0

>
```

```
> var.test(ECO.noNA,TCG.noNA)

        F test to compare two variances

data:  ECO.noNA and TCG.noNA
F = 0.5435, num df = 179, denom df = 130, p-value = 0.0001595
alternative hypothesis: true ratio of variances is not equal to 1
95 percent confidence interval:
 0.3927835 0.7458622
sample estimates:
ratio of variances
         0.5434983

> 
```

```
> t.test(ECO.noNA,TCG.noNA)

        Welch Two Sample t-test

data:  ECO.noNA and TCG.noNA
t = 5.7758, df = 227.35, p-value = 2.501e-08
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
  7.011055 14.271940
sample estimates:
mean of x mean of y
 51.09722  40.45573

> 
```