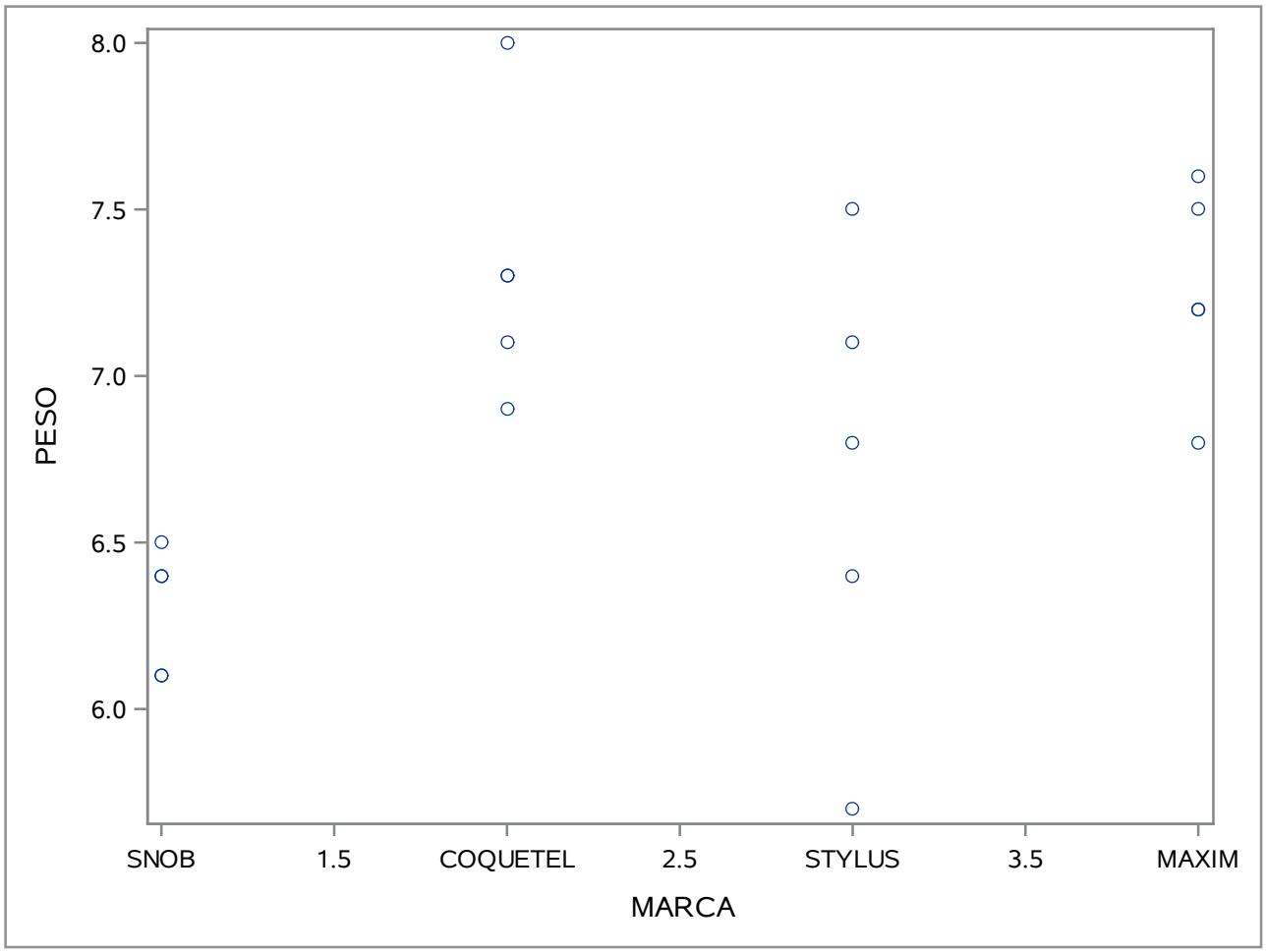

8.0
7.5
7.0
6.5
6.0
PESO
SNOB
1.5
COQUETEL
2.5
STYLUS
3.5
MAXIM
MARCA

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
MARCA	4	COQUETEL MAXIM SNOB STYLUS

Number of Observations Read	20
Number of Observations Used	20

The GLM Procedure

Dependent Variable: PESO

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.52950000	1.17650000	6.03	0.0060
Error	16	3.12000000	0.19500000		
Corrected Total	19	6.64950000			

R-Square	Coeff Var	Root MSE	PESO Mean
0.530792	6.404468	0.441588	6.895000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
MARCA	3	3.52950000	1.17650000	6.03	0.0060

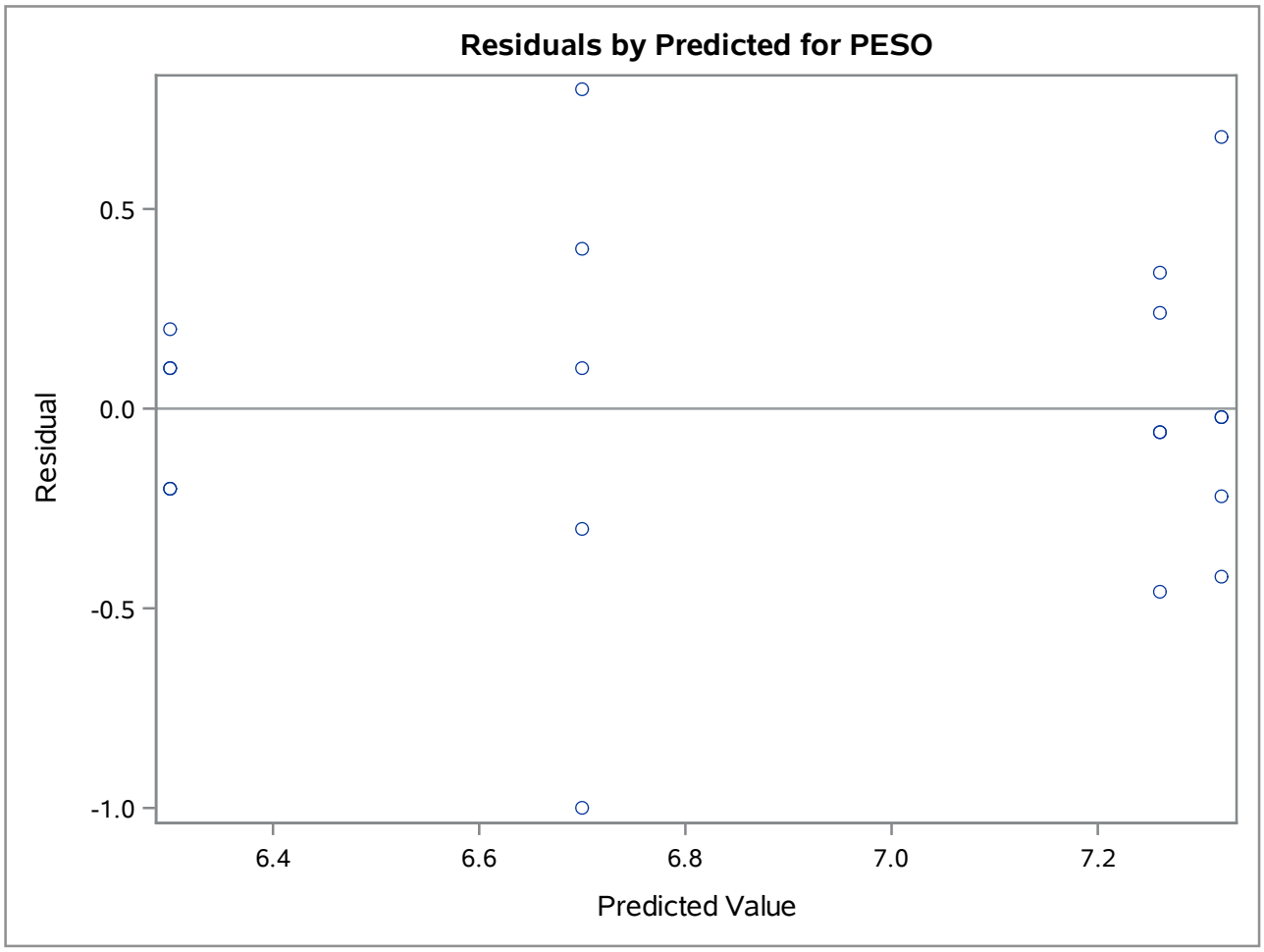
Source	DF	Type III SS	Mean Square	F Value	Pr > F
MARCA	3	3.52950000	1.17650000	6.03	0.0060

Parameter		Estimate		Standard Error	t Value	Pr > |t|
Intercept		6.700000000	B	0.19748418	33.93	<.0001
MARCA	COQUETEL	0.620000000	B	0.27928480	2.22	0.0412
MARCA	MAXIM	0.560000000	B	0.27928480	2.01	0.0622
MARCA	SNOB	-0.400000000	B	0.27928480	-1.43	0.1713
MARCA	STYLUS	0.000000000	B	.	.	.

Note: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

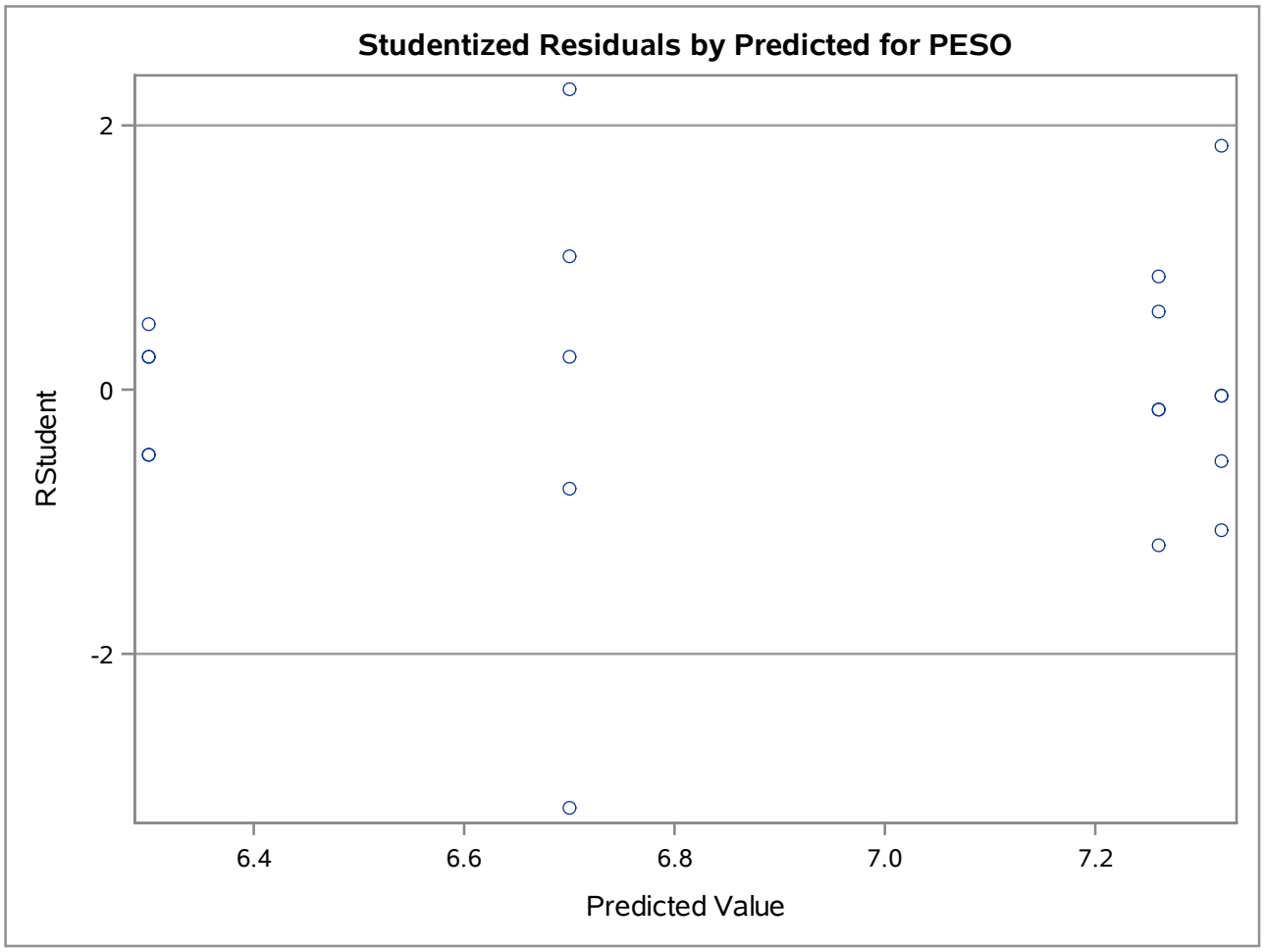
The GLM Procedure

Dependent Variable: PESO



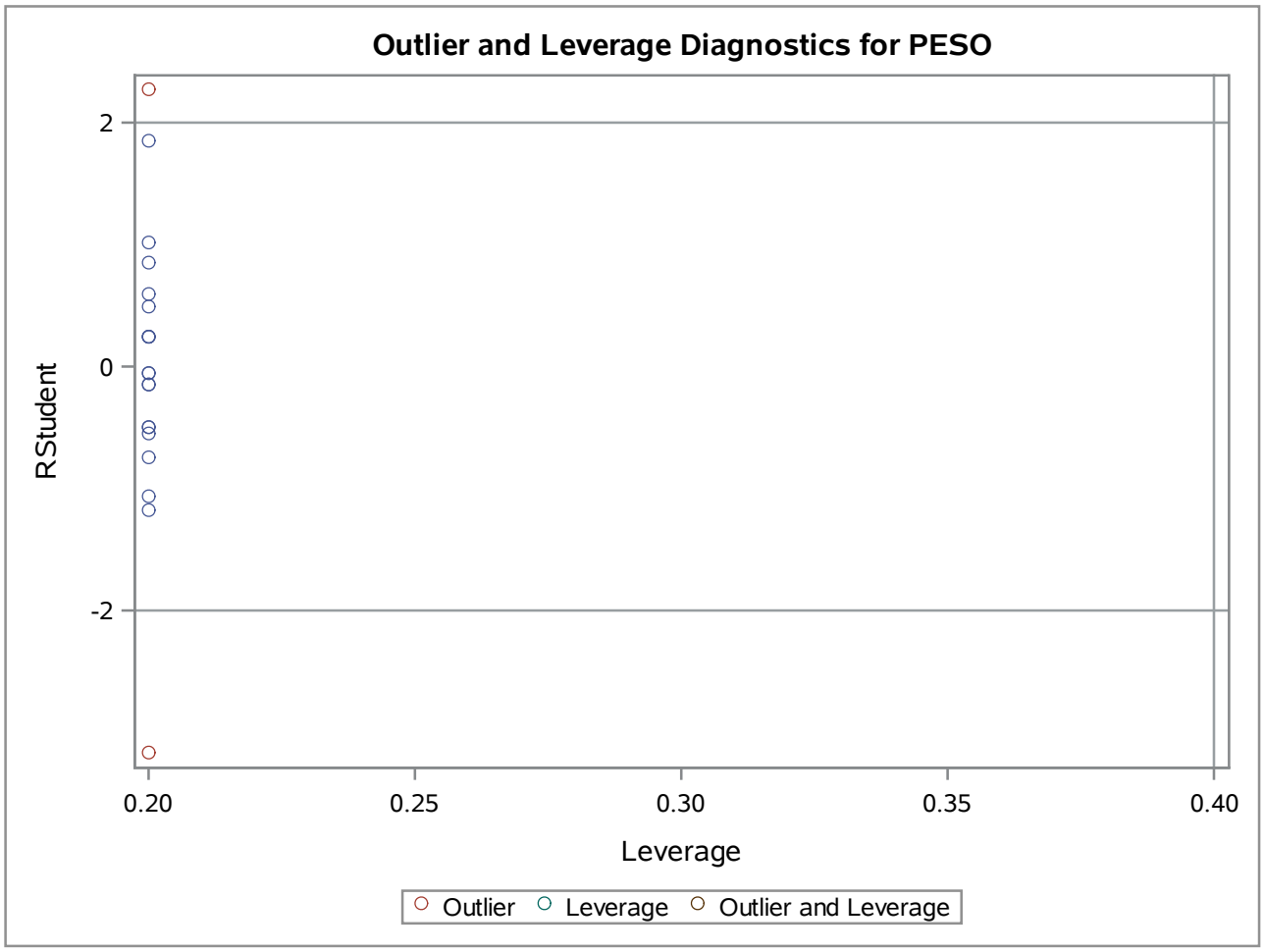
The GLM Procedure

Dependent Variable: PESO



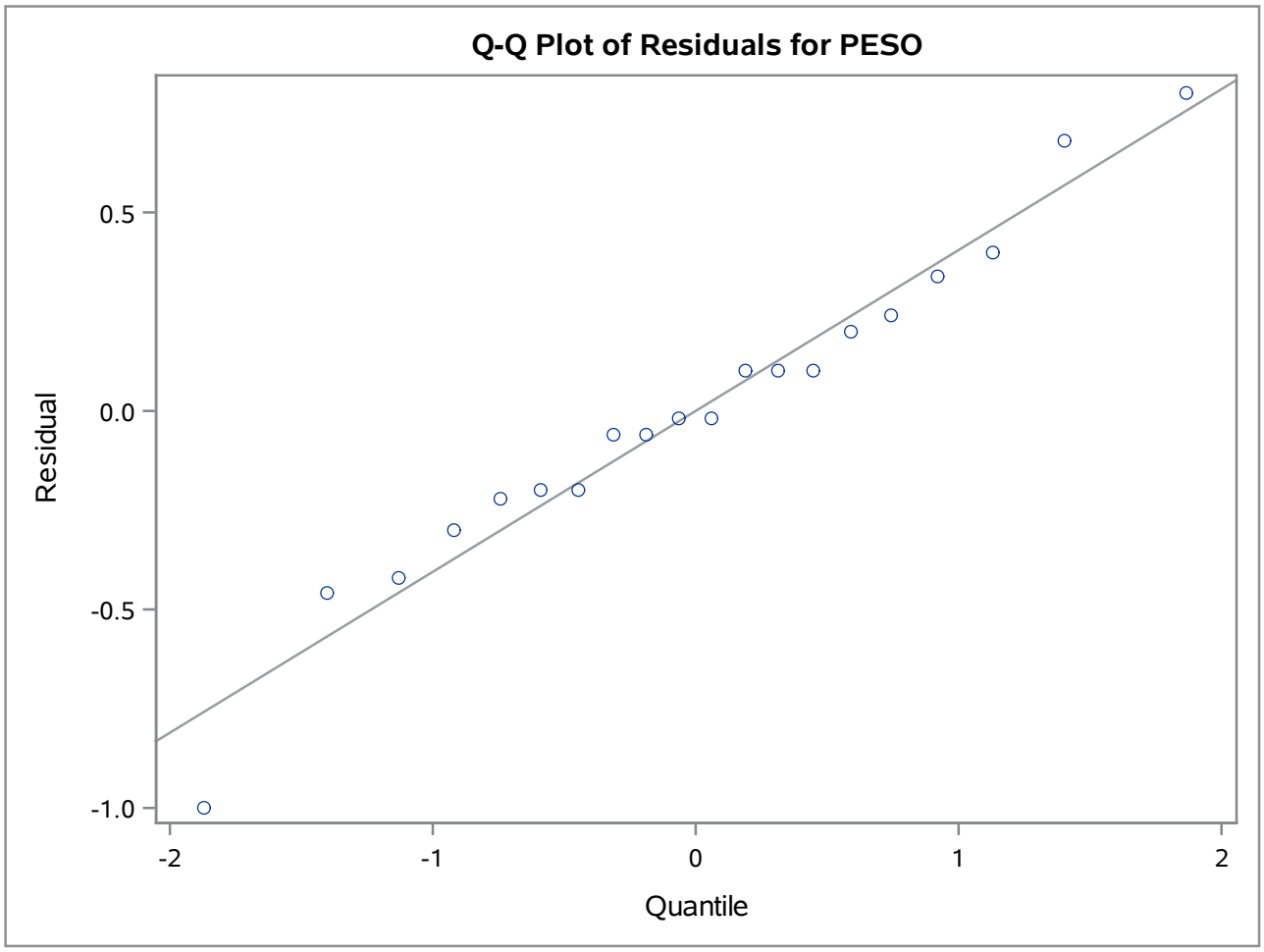
The GLM Procedure

Dependent Variable: PESO



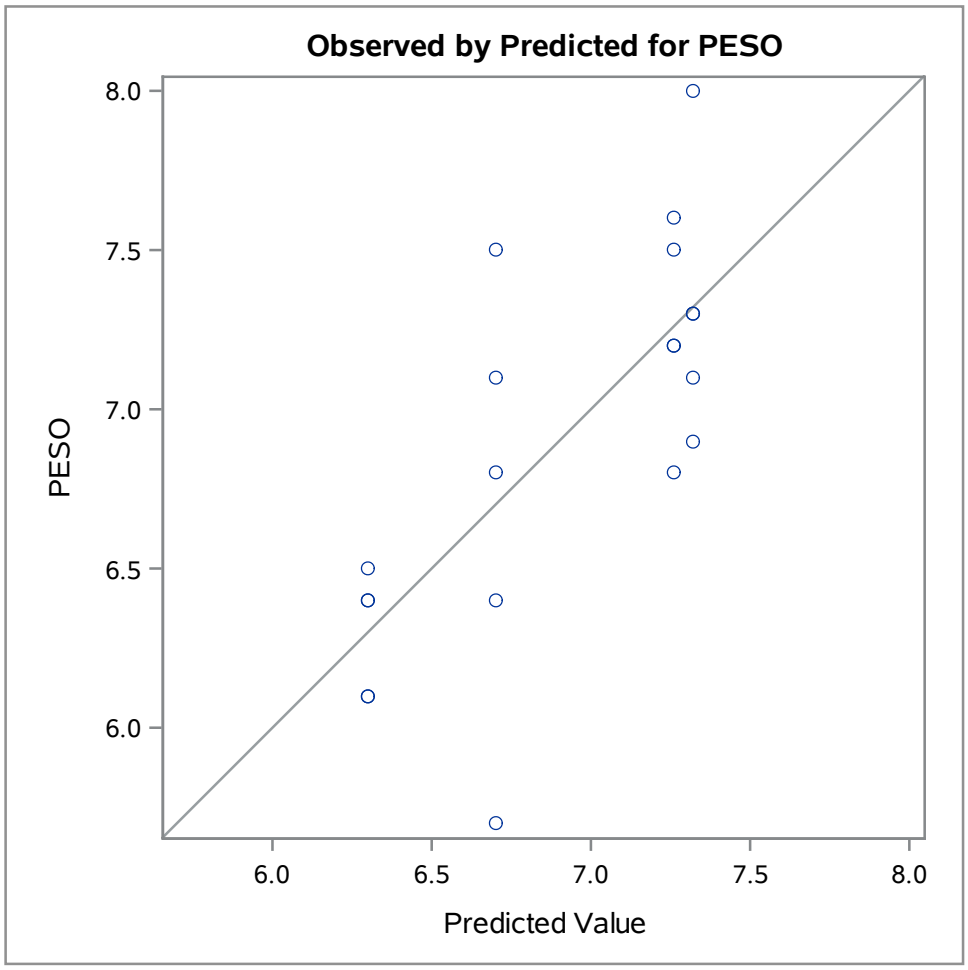
The GLM Procedure

Dependent Variable: PESO



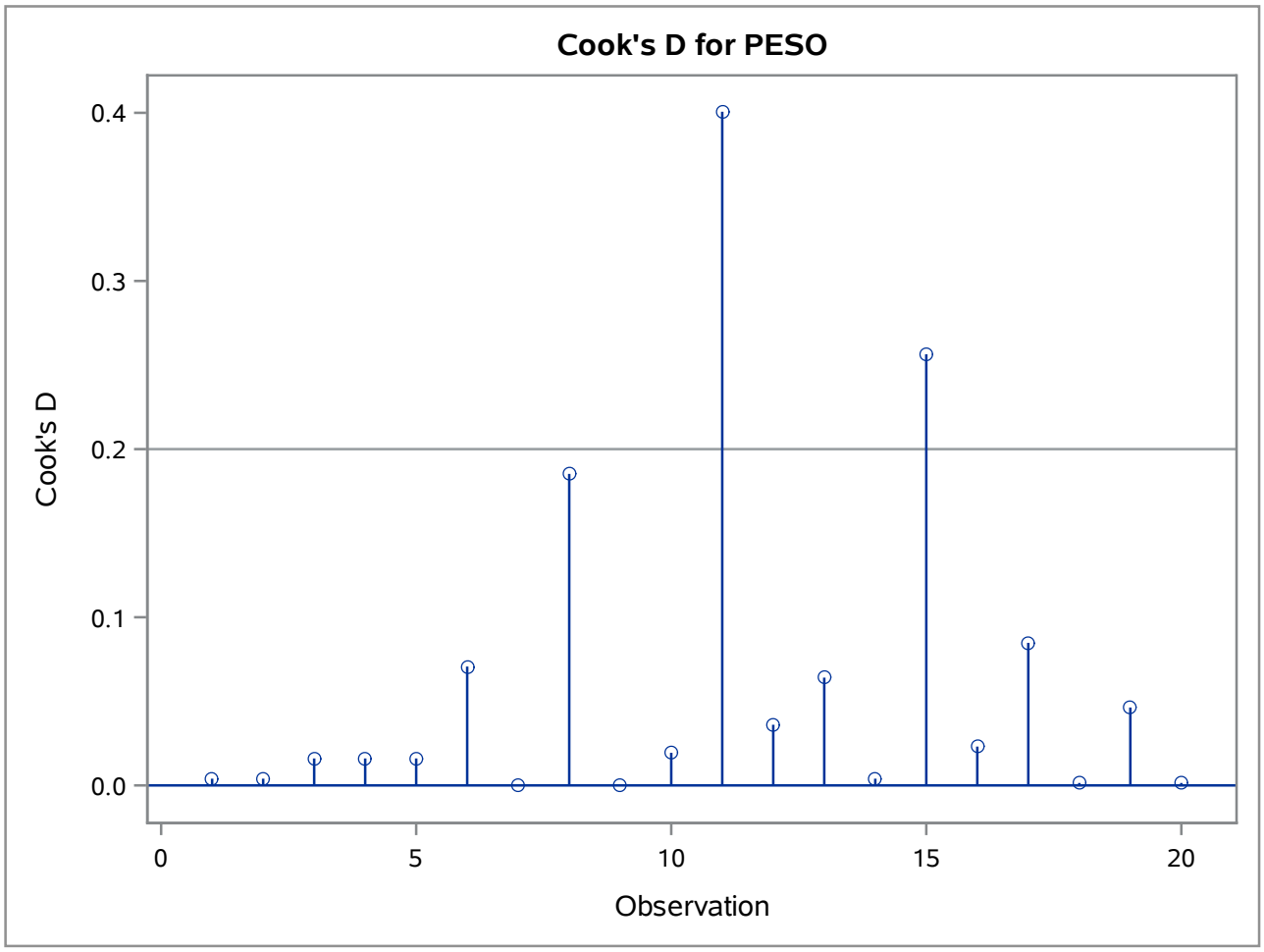
The GLM Procedure

Dependent Variable: PESO



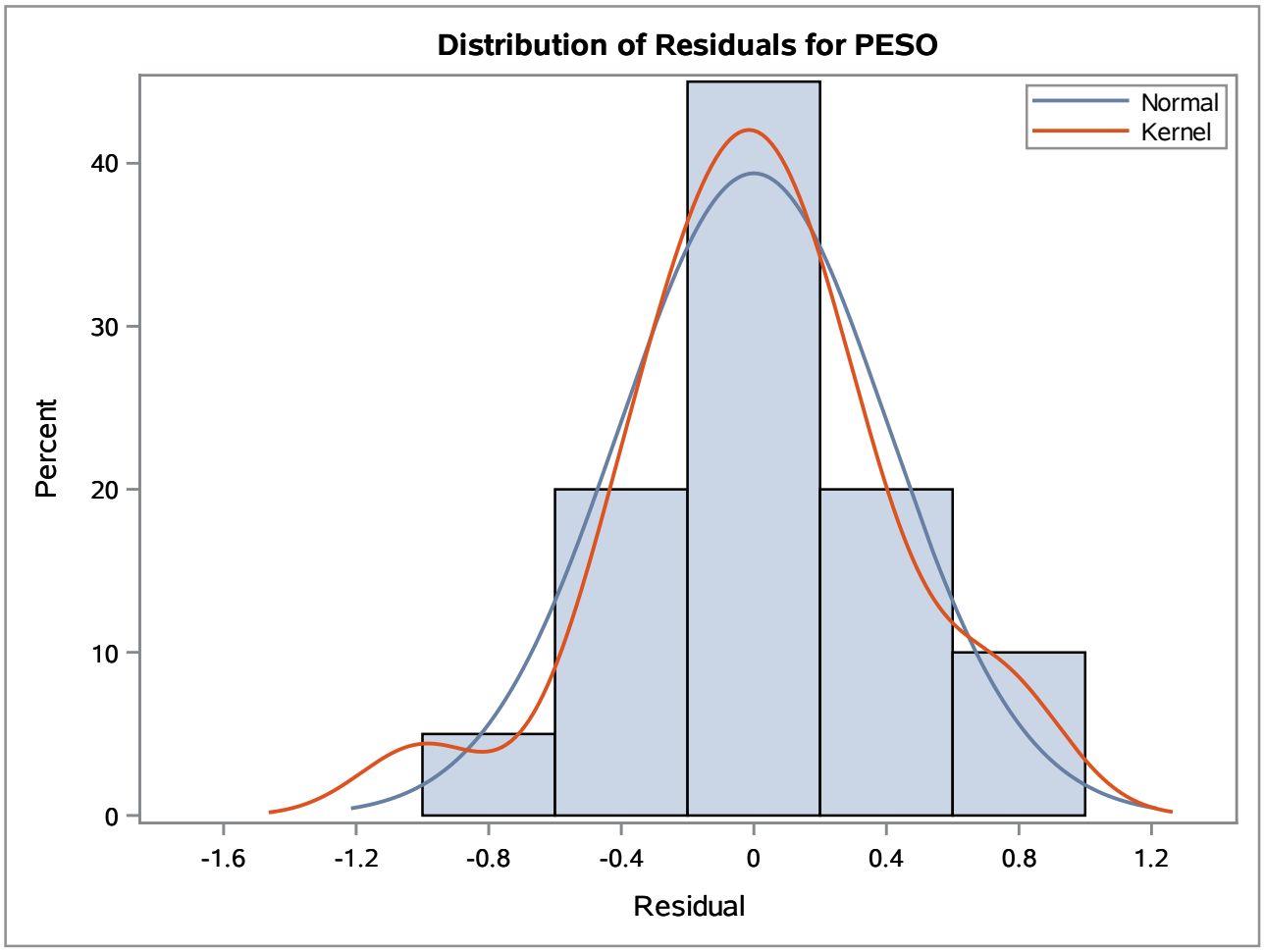
The GLM Procedure

Dependent Variable: PESO



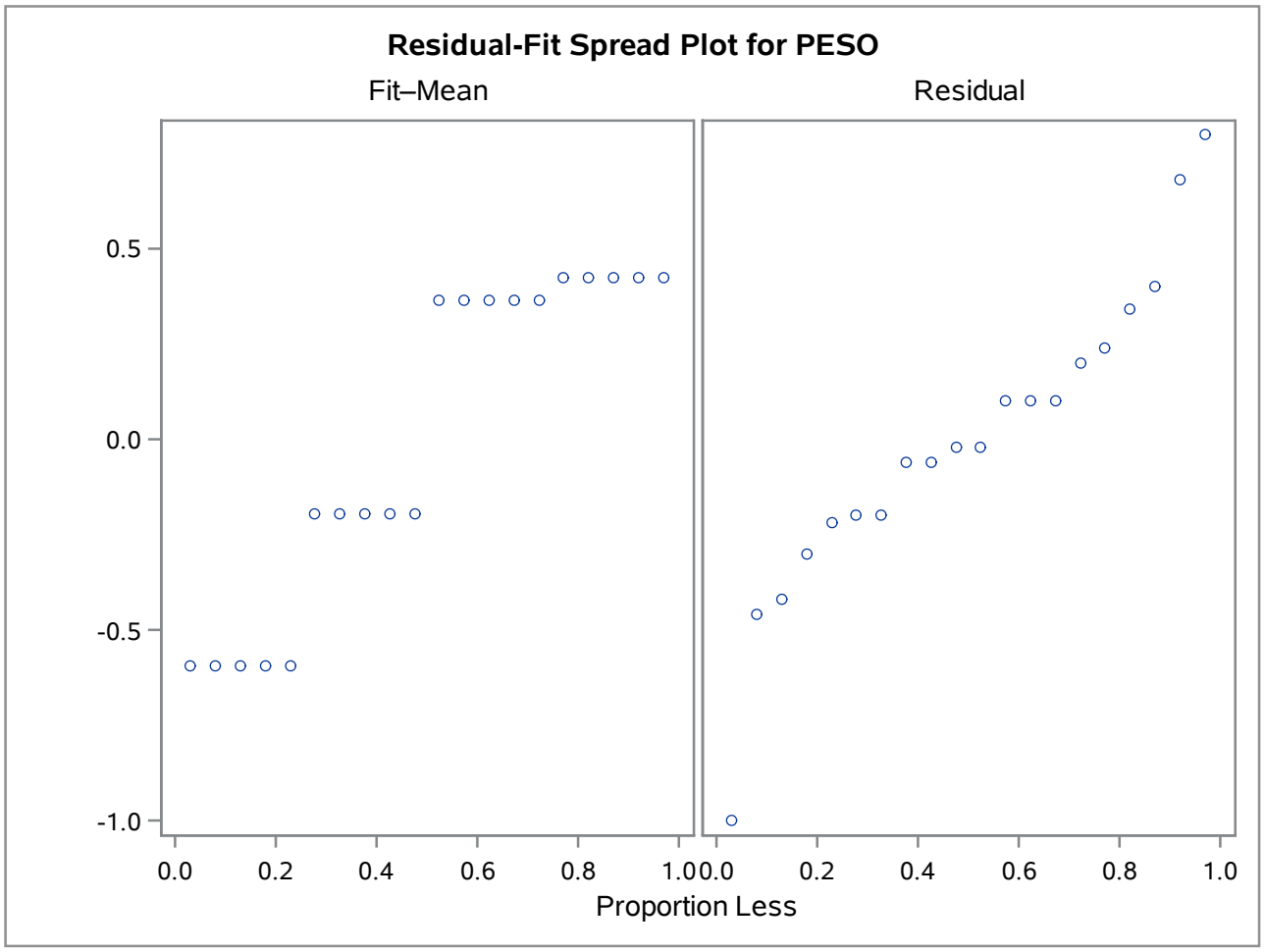
The GLM Procedure

Dependent Variable: PESO



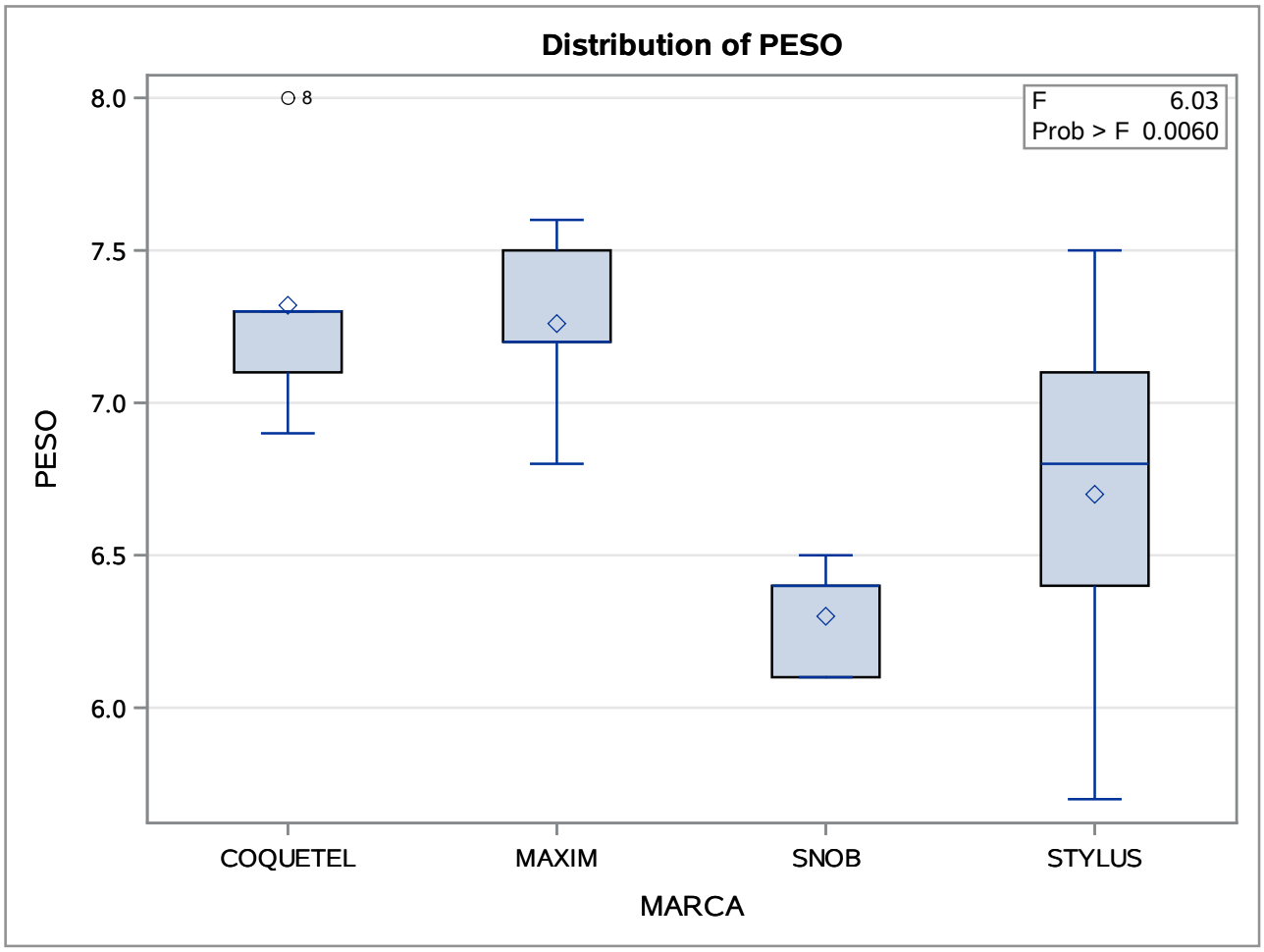
The GLM Procedure

Dependent Variable: PESO



The GLM Procedure

Dependent Variable: PESO



The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
MARCA	4	COQUETEL MAXIM SNOB STYLUS

Number of Observations Read	20
Number of Observations Used	20

The GLM Procedure

Dependent Variable: PESO

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.52950000	1.17650000	6.03	0.0060
Error	16	3.12000000	0.19500000		
Corrected Total	19	6.64950000			

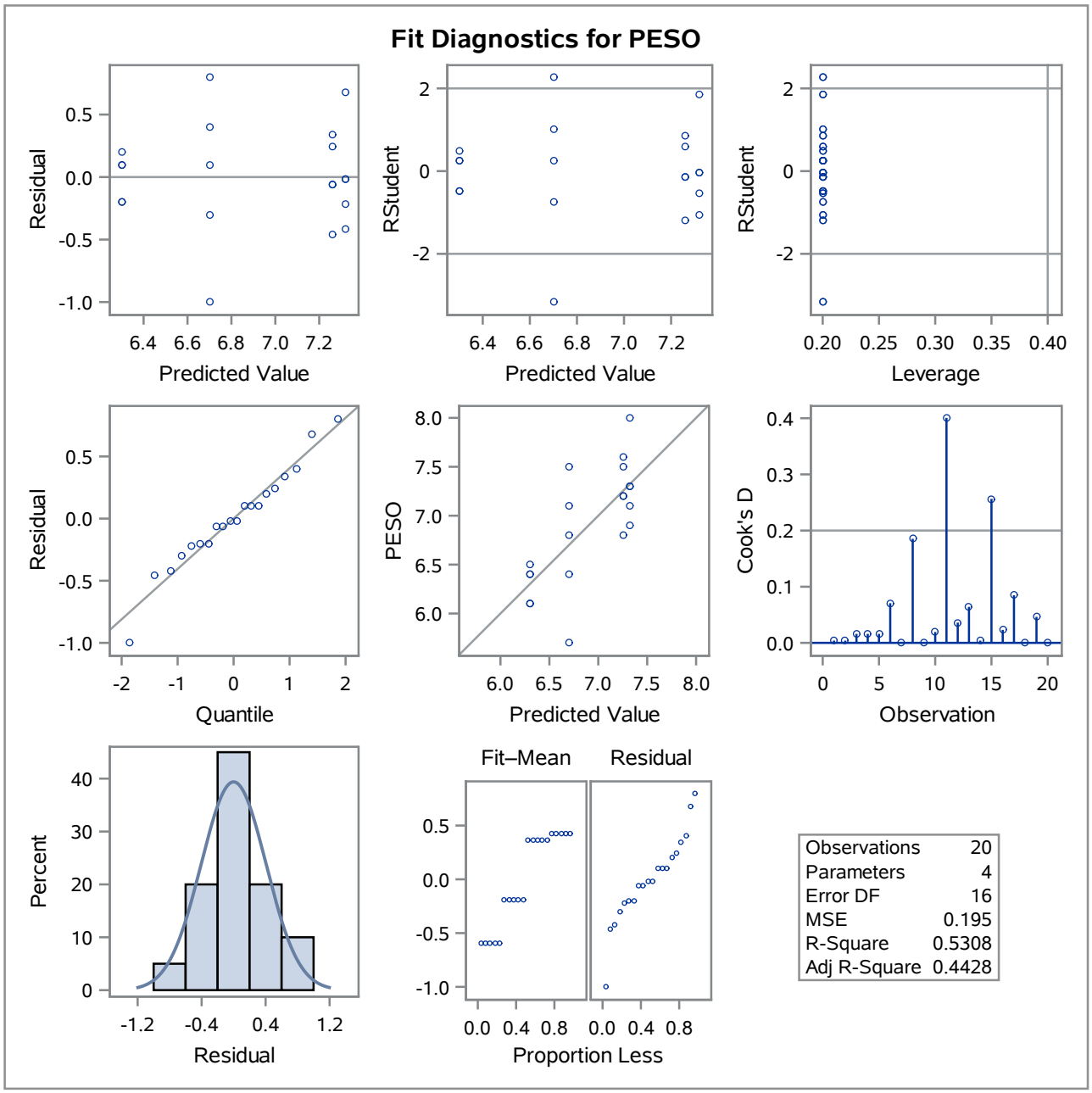
R-Square	Coeff Var	Root MSE	PESO Mean
0.530792	6.404468	0.441588	6.895000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
MARCA	3	3.52950000	1.17650000	6.03	0.0060

Source	DF	Type III SS	Mean Square	F Value	Pr > F
MARCA	3	3.52950000	1.17650000	6.03	0.0060

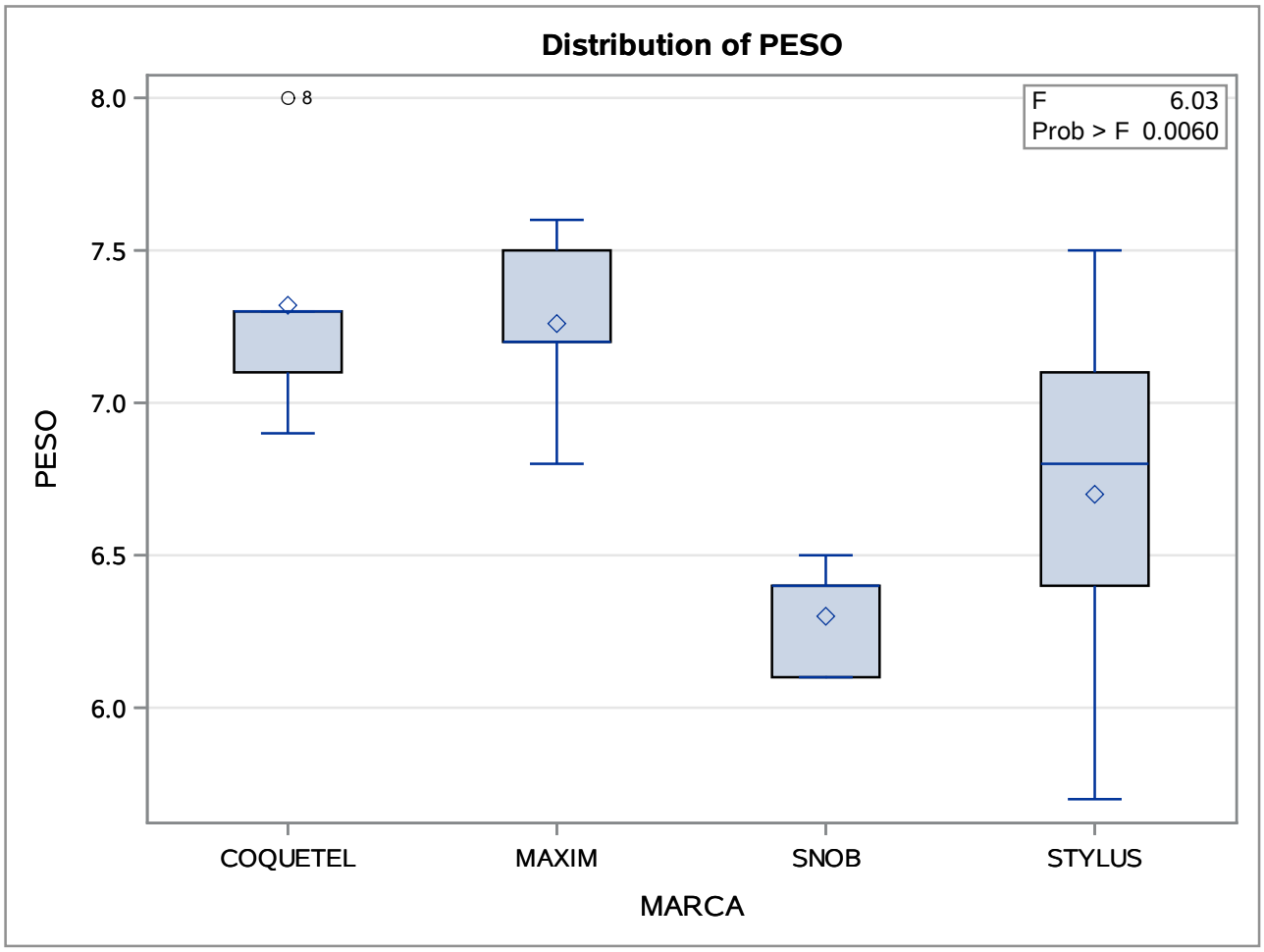
The GLM Procedure

Dependent Variable: PESO



The GLM Procedure

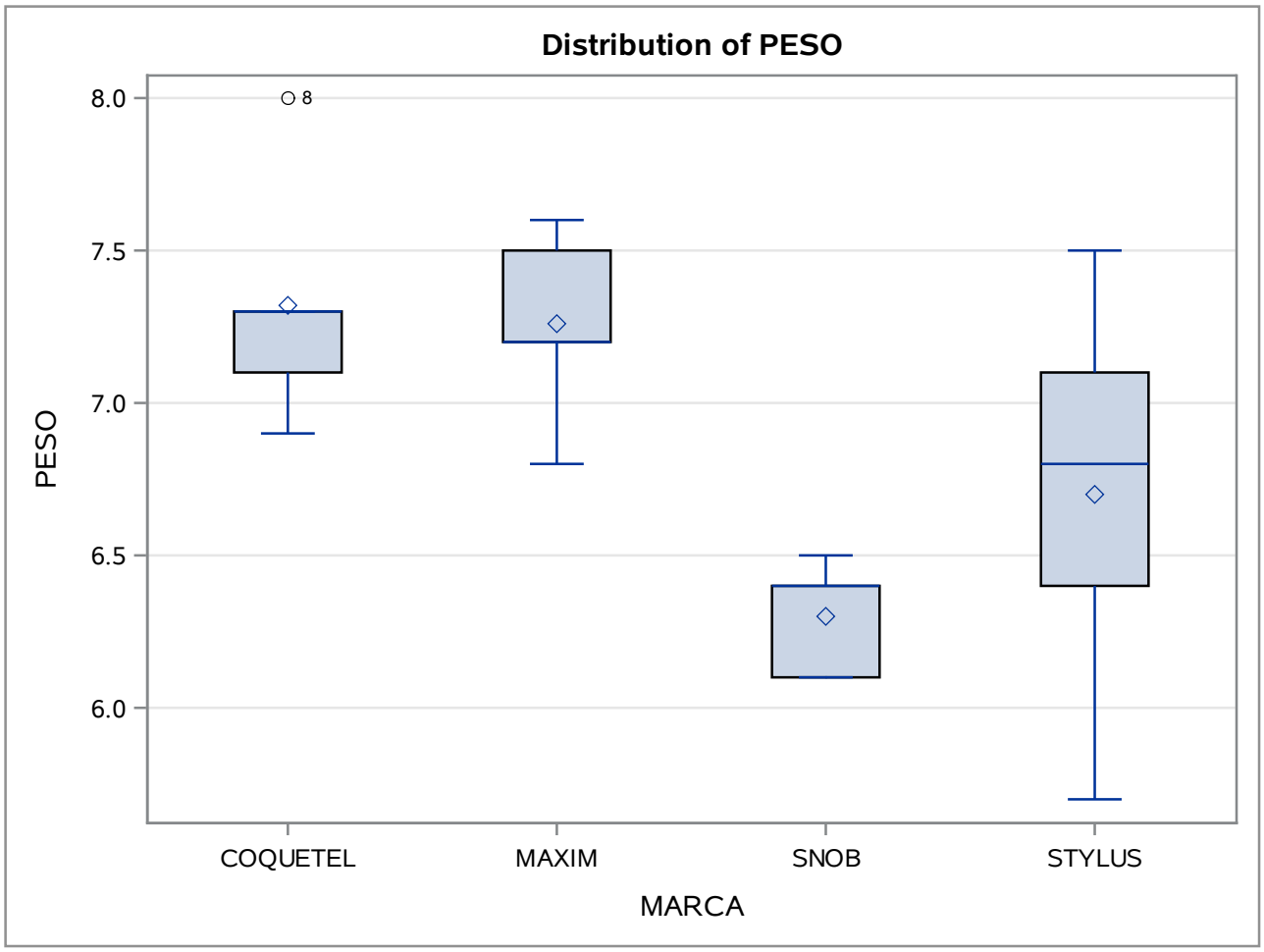
Dependent Variable: PESO



The GLM Procedure

Levene's Test for Homogeneity of PESO Variance ANOVA of Squared Deviations from Group Means					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
MARCA	3	0.3646	0.1215	2.15	0.1344
Error	16	0.9058	0.0566		

The GLM Procedure



Level of MARCA	N	PESO	
		Mean	Std Dev
COQUETEL	5	7.32000000	0.41472883
MAXIM	5	7.26000000	0.31304952
SNOB	5	6.30000000	0.18708287
STYLUS	5	6.70000000	0.68920244

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
MARCA	4	COQUETEL MAXIM SNOB STYLUS

Number of Observations Read	20
Number of Observations Used	20

The GLM Procedure

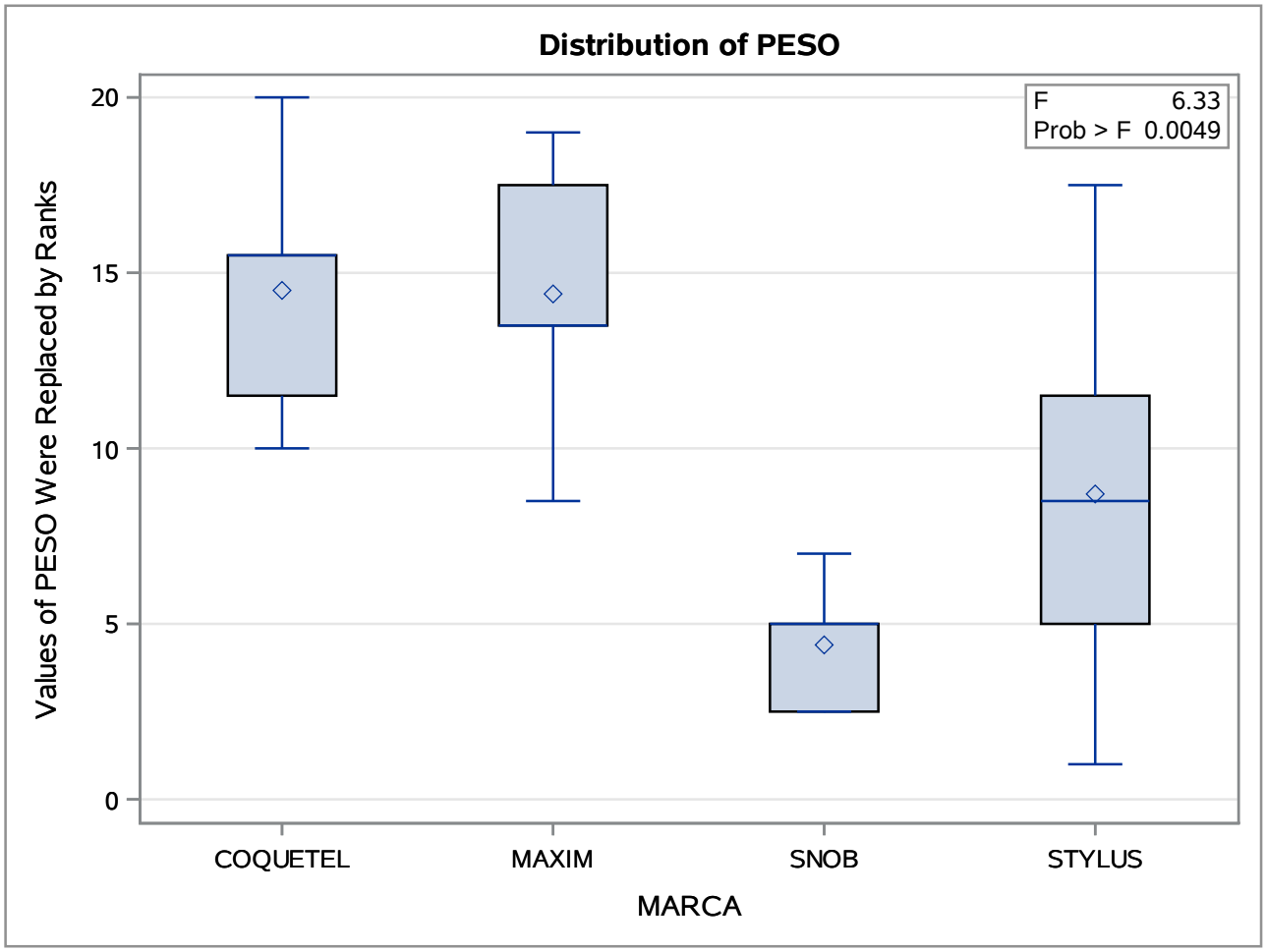
Dependent Variable: PESO Values of PESO Were Replaced by Ranks

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	358.3000000	119.4333333	6.33	0.0049
Error	16	301.7000000	18.8562500		
Corrected Total	19	660.0000000			

R-Square	Coeff Var	Root MSE	PESO Mean
0.542879	41.35598	4.342378	10.50000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
MARCA	3	358.3000000	119.4333333	6.33	0.0049

Source	DF	Type III SS	Mean Square	F Value	Pr > F
MARCA	3	358.3000000	119.4333333	6.33	0.0049

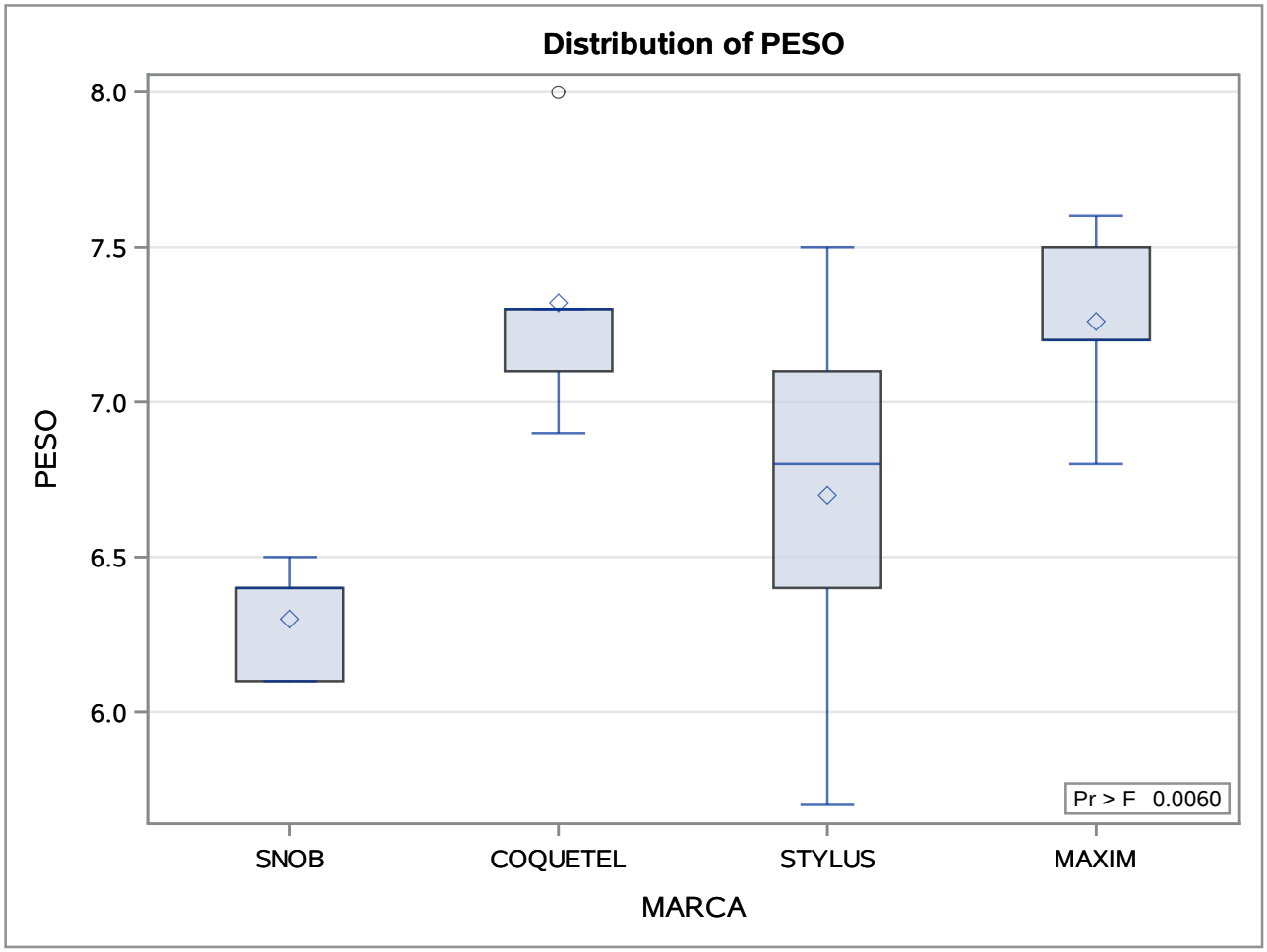


KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Analysis of Variance for Variable PESO Classified by Variable MARCA		
MARCA	N	Mean
SNOB	5	6.300
COQUETEL	5	7.320
STYLUS	5	6.700
MAXIM	5	7.260

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Among	3	3.52950	1.17650	6.0333	0.0060
Within	16	3.12000	0.19500		
Average scores were used for ties.					

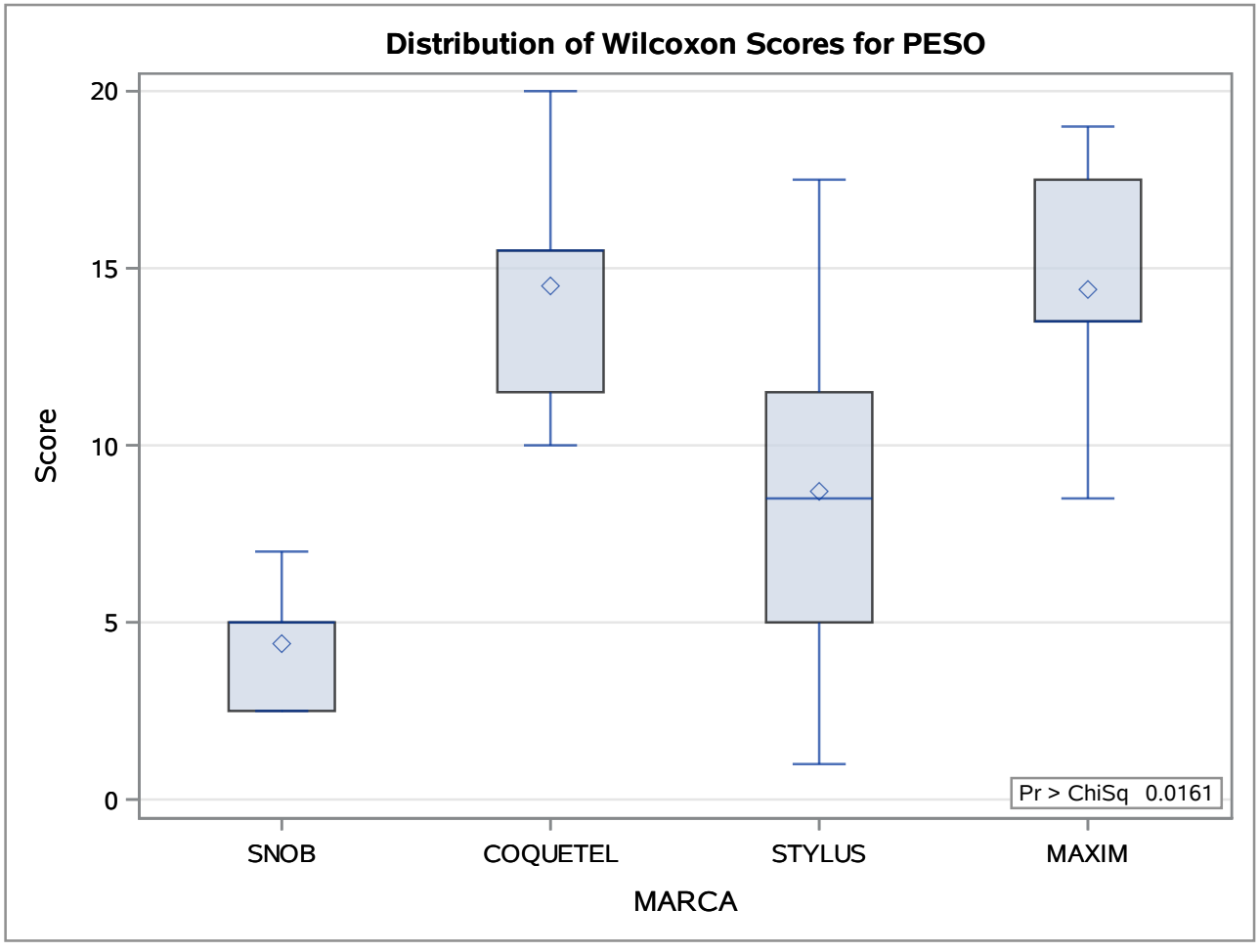


KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable PESO Classified by Variable MARCA					
MARCA	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
SNOB	5	22.00	52.50	11.413289	4.40
COQUETEL	5	72.50	52.50	11.413289	14.50
STYLUS	5	43.50	52.50	11.413289	8.70
MAXIM	5	72.00	52.50	11.413289	14.40
Average scores were used for ties.					

Kruskal-Wallis Test	
Chi-Square	10.3147
DF	3
Pr > Chi-Square	0.0161

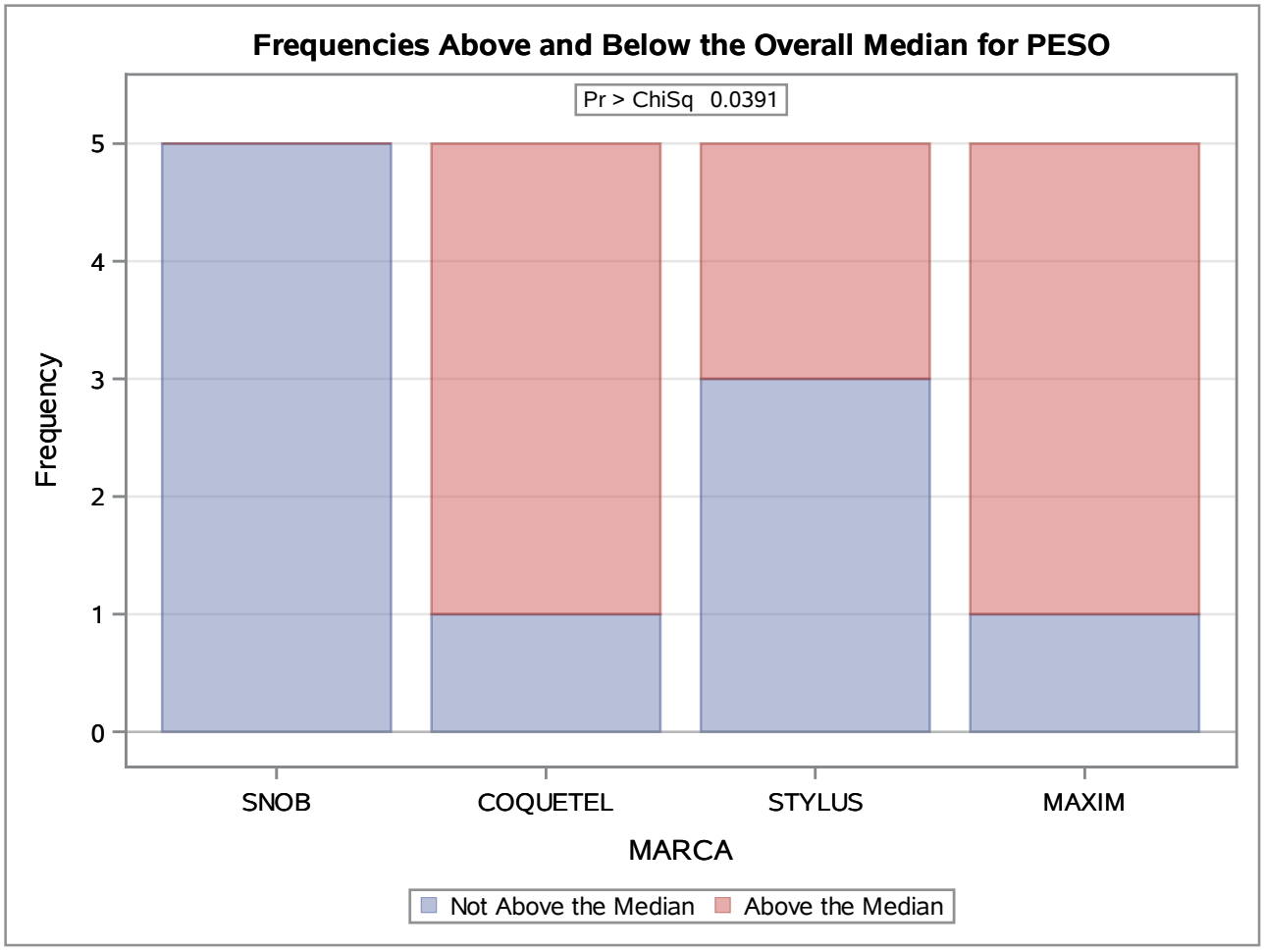


KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Median Scores (Number of Points Above Median) for Variable PESO Classified by Variable MARCA					
MARCA	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
SNOB	5	0.0	2.50	0.993399	0.00
COQUETEL	5	4.0	2.50	0.993399	0.80
STYLUS	5	2.0	2.50	0.993399	0.40
MAXIM	5	4.0	2.50	0.993399	0.80
Average scores were used for ties.					

Median One-Way Analysis	
Chi-Square	8.3600
DF	3
Pr > Chi-Square	0.0391

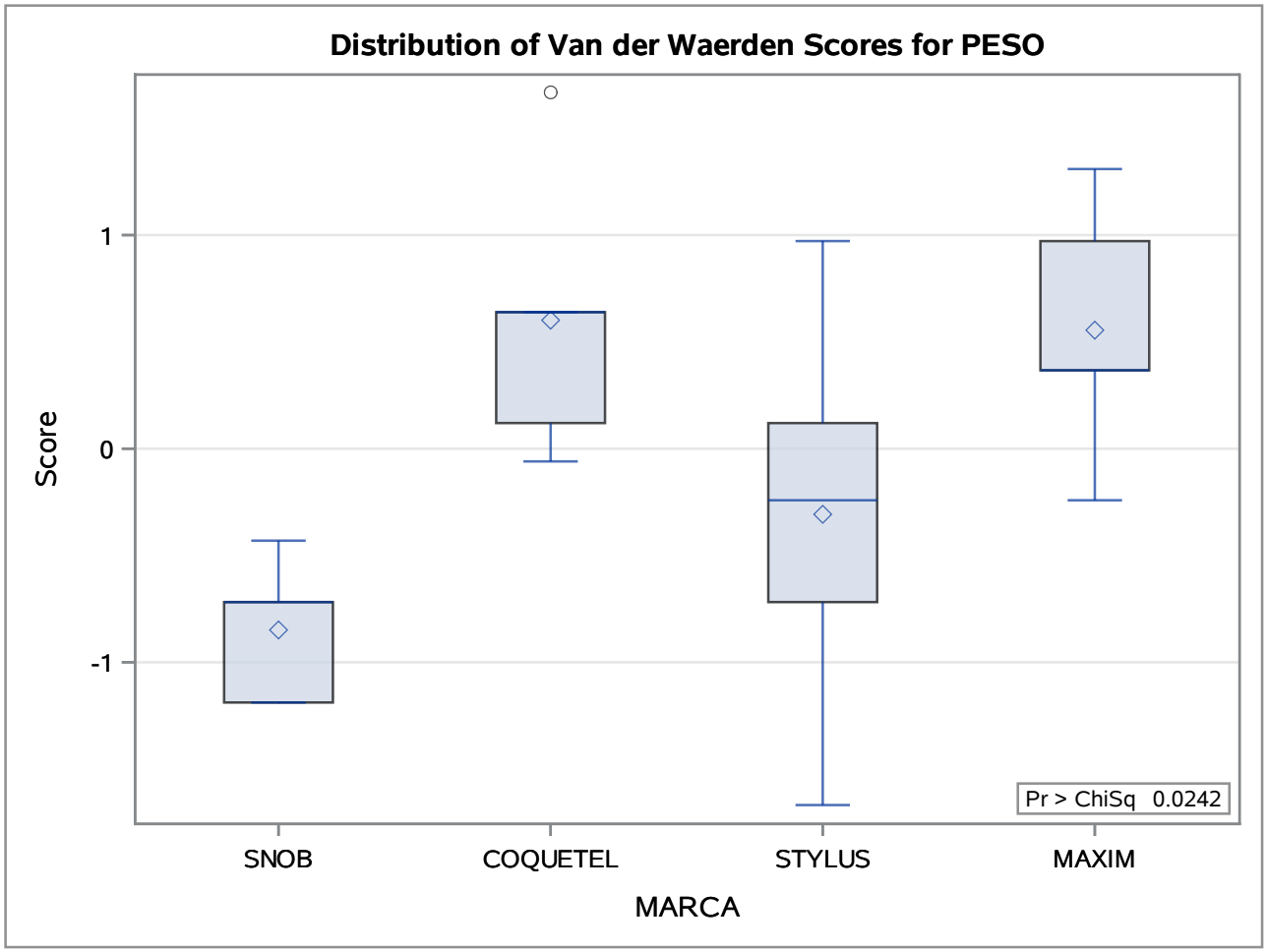


KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Van der Waerden Scores (Normal) for Variable PESO Classified by Variable MARCA					
MARCA	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
SNOB	5	-4.243826	0.0	1.718470	-0.848765
COQUETEL	5	3.006931	0.0	1.718470	0.601386
STYLUS	5	-1.536344	0.0	1.718470	-0.307269
MAXIM	5	2.773240	0.0	1.718470	0.554648
Average scores were used for ties.					

Van der Waerden One-Way Analysis	
Chi-Square	9.4229
DF	3
Pr > Chi-Square	0.0242

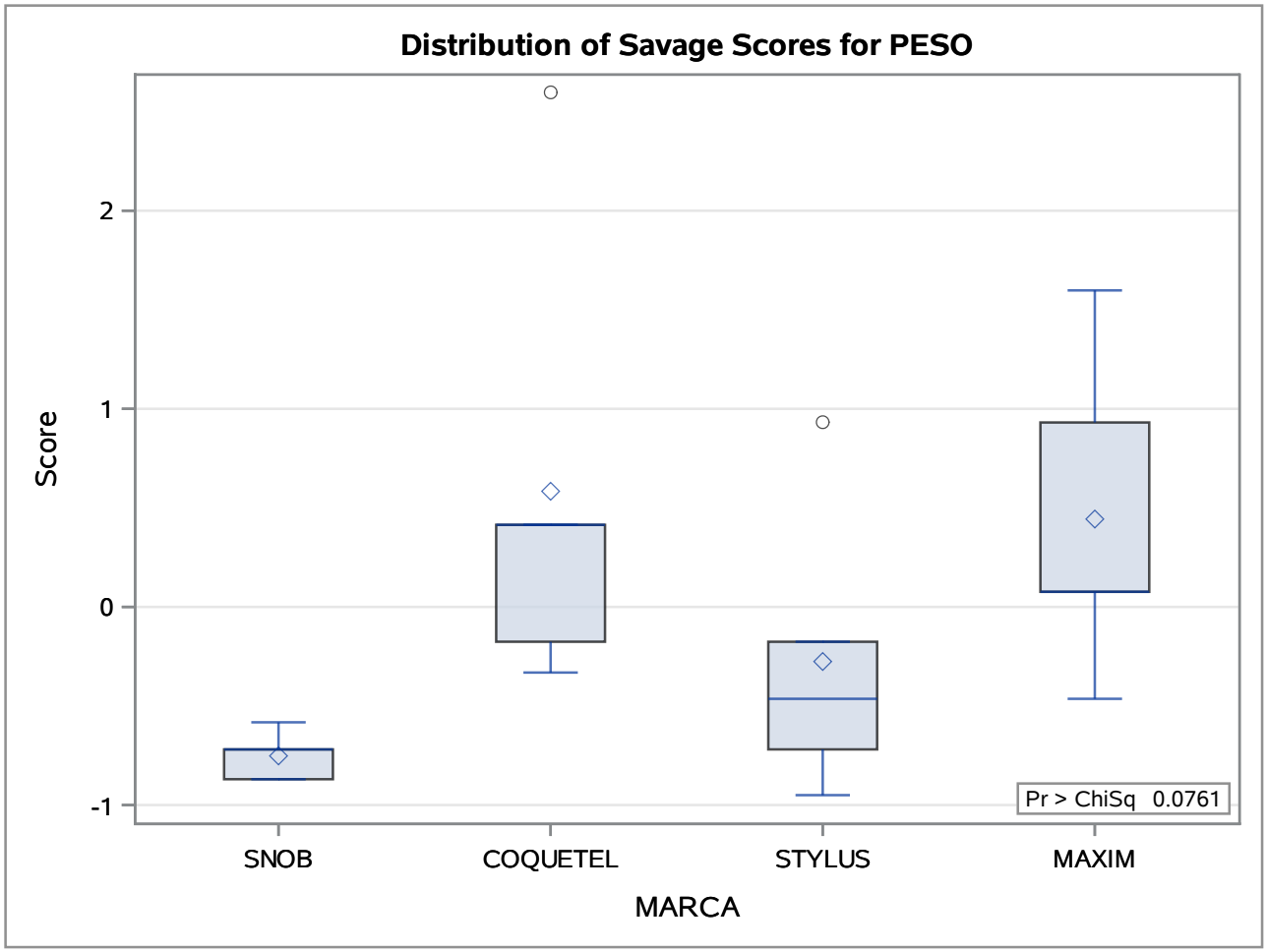


KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Savage Scores (Exponential) for Variable PESO Classified by Variable MARCA					
MARCA	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
SNOB	5	-3.759776	0.0	1.793462	-0.751955
COQUETEL	5	2.919651	0.0	1.793462	0.583930
STYLUS	5	-1.377505	0.0	1.793462	-0.275501
MAXIM	5	2.217630	0.0	1.793462	0.443526
Average scores were used for ties.					

Savage One-Way Analysis	
Chi-Square	6.8729
DF	3
Pr > Chi-Square	0.0761

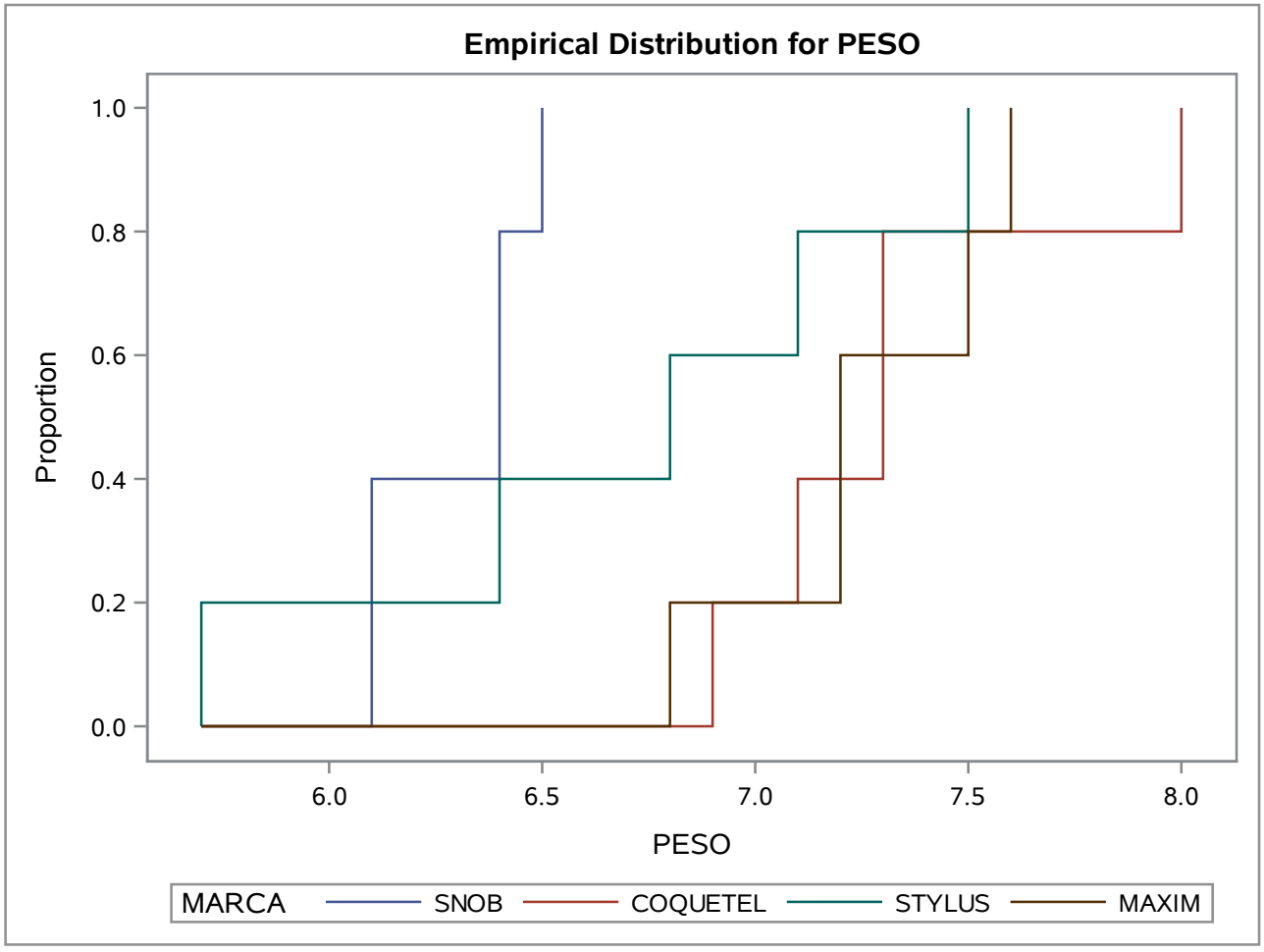


KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Kolmogorov-Smirnov Test for Variable PESO Classified by Variable MARCA			
MARCA	N	EDF at Maximum	Deviation from Mean at Maximum
SNOB	5	1.000	1.453444
COQUETEL	5	0.000	-0.782624
STYLUS	5	0.400	0.111803
MAXIM	5	0.000	-0.782624
Total	20	0.350	
Maximum Deviation Occurred at Observation 5			
Value of PESO at Maximum = 6.50			

Kolmogorov-Smirnov Statistics (Asymptotic)			
KS	0.409268	KSa	1.830301



KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The NPAR1WAY Procedure

Cramer-von Mises Test for Variable PESO Classified by Variable MARCA		
MARCA	**N**	**Summed Deviation from Mean**
SNOB	5	0.689375
COQUETEL	5	0.309375
STYLUS	5	0.059375
MAXIM	5	0.274375

Cramer-von Mises Statistics (Asymptotic)			
CM	0.066625	**CMa**	1.332500

KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The GLMPOWER Procedure

Fixed Scenario Elements	
Dependent Variable	PESO
Source	MARCA
Alpha	0.05
Error Standard Deviation	0.441588
Total Sample Size	20
Test Degrees of Freedom	3
Error Degrees of Freedom	16

Computed Power
Power
0.898

KRUSKAL-WALLIS - UTILIZANDO NPAR1WAY

The GLMPOWER Procedure

Fixed Scenario Elements	
Dependent Variable	PESO
Source	MARCA
Alpha	0.05
Error Standard Deviation	0.441588
Nominal Power	0.98
Test Degrees of Freedom	3

Computed N Total		
Error DF	**Actual Power**	**N Total**
36	>.999	40