

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: wt**

Number of Observations Read	24
Number of Observations Used	24

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6176.90811	3088.45405	22.96	<.0001
Error	21	2824.42522	134.49644		
Corrected Total	23	9001.33333			

Root MSE	11.59726	R-Square	0.6862
Dependent Mean	161.83333	Adj R-Sq	0.6563
Coeff Var	7.16618		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	1	-156.57217	67.88615	-2.31	0.0314
cs	1	15.07381	4.86216	3.10	0.0054
ss	1	8.79279	2.20196	3.99	0.0007

**The ROBUSTREG Procedure**

Model Information	
Data Set	WORK.TABLE871
Dependent Variable	wt
Number of Independent Variables	2
Number of Observations	24
Method	M Estimation

Number of Observations Read	24
Number of Observations Used	24

Parameter Information	
Parameter	Effect
Intercept	Intercept
cs	cs
ss	ss

Summary Statistics						
Variable	Q1	Median	Q3	Mean	Standard Deviation	MAD
cs	15.0000	15.5000	15.5000	15.3750	0.5566	0.7413
ss	8.7500	9.5000	10.7500	9.8542	1.2290	1.4826
wt	150.0	155.0	172.5	161.8	19.7829	14.8260

Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	-127.463	47.3375	-220.243	-34.6831	7.25	0.0071
cs	1	13.2690	3.3904	6.6239	19.9141	15.32	<.0001
ss	1	8.3979	1.5354	5.3885	11.4073	29.91	<.0001
Scale	1	6.5235					

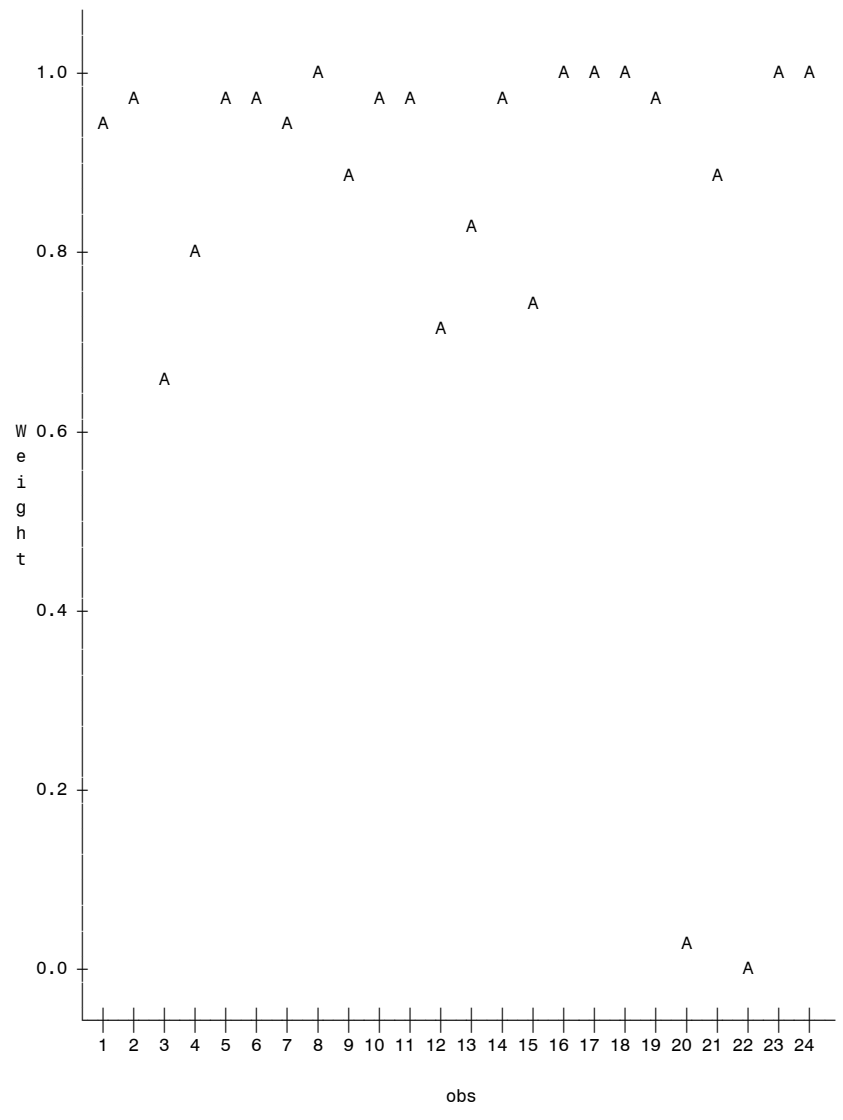
*The ROBUSTREG Procedure*

Diagnostics					
Obs	Mahalanobis Distance	Robust MCD Distance	Leverage	Standardized Robust Residual	Outlier
5	2.0215	3.9959	*	-0.5906	
6	3.0235	4.5331	*	-0.4381	
19	1.7868	3.2350	*	0.6720	
20	2.7395	4.8776	*	4.1928	*
22	1.1199	1.2295		5.6788	*

Diagnostics Summary		
Observation Type	Proportion	Cutoff
Outlier	0.0833	3.0000
Leverage	0.1667	2.7162

Goodness-of-Fit	
Statistic	Value
R-Square	0.5319
AICR	38.3387
BICR	42.9019
Deviance	1419.987

Plot of casewt\*obs. Legend: A = 1 obs, B = 2 obs, etc.



***The ROBUSTREG Procedure***

Model Information	
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Dependent Variable	wt
Number of Independent Variables	2
Number of Observations	24
Method	M Estimation

Number of Observations Read	24
Number of Observations Used	24

Parameter Information	
Parameter	Effect
Intercept	Intercept
cs	cs
ss	ss

Summary Statistics						
Variable	Q1	Median	Q3	Mean	Standard Deviation	MAD
cs	15.0000	15.5000	15.5000	15.3750	0.5566	0.7413
ss	8.7500	9.5000	10.7500	9.8542	1.2290	1.4826
wt	150.0	155.0	172.5	161.8	19.7829	14.8260

Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	-145.523	50.6160	-244.729	-46.3175	8.27	0.0040
cs	1	14.1059	3.6252	7.0006	21.2113	15.14	<.0001
ss	1	9.0470	1.6418	5.8292	12.2648	30.37	<.0001
Scale	1	6.7338					

*The ROBUSTREG Procedure*

Diagnostics					
Obs	Mahalanobis Distance	Robust MCD Distance	Leverage	Standardized Robust Residual	Outlier
5	2.0215	3.9959	*	-1.0012	
6	3.0235	4.5331	*	-0.6125	
19	1.7868	3.2350	*	0.1877	
20	2.7395	4.8776	*	3.4400	*
22	1.1199	1.2295		5.4998	*

Diagnostics Summary		
Observation Type	Proportion	Cutoff
Outlier	0.0833	3.0000
Leverage	0.1667	2.7162

Goodness-of-Fit	
Statistic	Value
R-Square	0.5823
AICR	46.3357
BICR	49.8862
Deviance	1829.723

***The ROBUSTREG Procedure***

Model Information	
Data Set	WORK.TABLE871
Dependent Variable	wt
Number of Independent Variables	2
Number of Observations	24
Method	MM Estimation

Number of Observations Read	24
Number of Observations Used	24

Parameter Information	
Parameter	Effect
Intercept	Intercept
cs	cs
ss	ss

Summary Statistics						
Variable	Q1	Median	Q3	Mean	Standard Deviation	MAD
cs	15.0000	15.5000	15.5000	15.3750	0.5566	0.7413
ss	8.7500	9.5000	10.7500	9.8542	1.2290	1.4826
wt	150.0	155.0	172.5	161.8	19.7829	14.8260

Profile for the Initial LTS Estimate	
Total Number of Observations	24
Number of Squares Minimized	19
Number of Coefficients	3
Highest Possible Breakdown Value	0.2500

***The ROBUSTREG Procedure***

MM Profile	
Chi Function	Tukey
K1	3.4400
Efficiency	0.8500

Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	-138.076	49.1096	-234.329	-41.8232	7.91	0.0049
cs	1	13.7226	3.3441	7.1683	20.2769	16.84	<.0001
ss	1	8.7912	1.6541	5.5492	12.0331	28.25	<.0001
Scale	0	9.4638					

Diagnostics					
Obs	Mahalanobis Distance	Robust MCD Distance	Leverage	Standardized Robust Residual	Outlier
5	2.0215	3.9959	*	-0.5336	
6	3.0235	4.5331	*	-0.3246	
19	1.7868	3.2350	*	0.3191	
20	2.7395	4.8776	*	2.6805	
22	1.1199	1.2295		3.9637	*

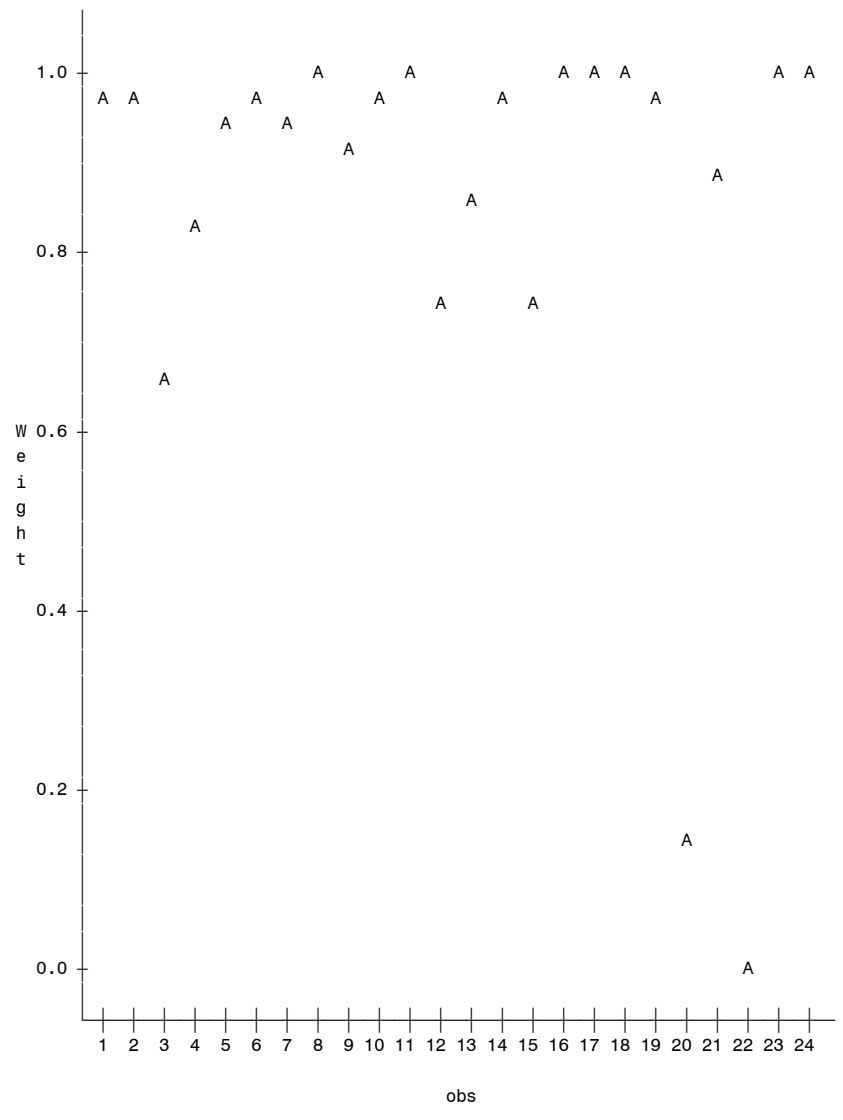
Diagnostics Summary		
Observation Type	Proportion	Cutoff
Outlier	0.0417	3.0000
Leverage	0.1667	2.7162



***The ROBUSTREG Procedure***

Goodness-of-Fit	
Statistic	Value
R-Square	0.5088
AICR	19.3087
BICR	26.3499
Deviance	1506.080

Plot of casewt\*obs. Legend: A = 1 obs, B = 2 obs, etc.



cs	ss	wt
14.5	9.5	140
15.5	9.5	155
15.5	10.5	153
15.0	10.5	150
16.5	11.0	180
16.5	8.5	160
15.5	8.5	155
14.5	9.5	145
15.0	10.0	163
15.0	9.0	150
15.0	8.5	140
15.5	9.5	170
15.5	11.0	180
15.5	11.0	175
15.5	10.5	155
15.5	8.5	150
15.5	10.0	160
15.0	9.0	145
16.0	12.0	190
16.5	13.0	228
15.0	8.5	150
15.0	8.5	180
15.0	11.0	165
15.0	9.0	145