

**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

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	Intercept	cs	ss	wt
1	MODEL1	PARMS	wt	11.5973	-156.572	15.0738	8.7928	-1
2	MODEL1	STDERR	wt	11.5973	67.886	4.8622	2.2020	.
3	MODEL1	T	wt	11.5973	-2.306	3.1002	3.9932	.
4	MODEL1	PVALUE	wt	11.5973	0.031	0.0054	0.0007	.
5	MODEL1	L95B	wt	11.5973	-297.749	4.9624	4.2136	.
6	MODEL1	U95B	wt	11.5973	-15.395	25.1852	13.3720	.

***The GLM Procedure***

Number of Observations Read	24
Number of Observations Used	24

***The GLM Procedure***

***Dependent Variable: wt***

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6176.908109	3088.454054	22.96	<.0001
Error	21	2824.425225	134.496439		
Corrected Total	23	9001.333333			

R-Square	Coeff Var	Root MSE	wt Mean
0.686221	7.166175	11.59726	161.8333

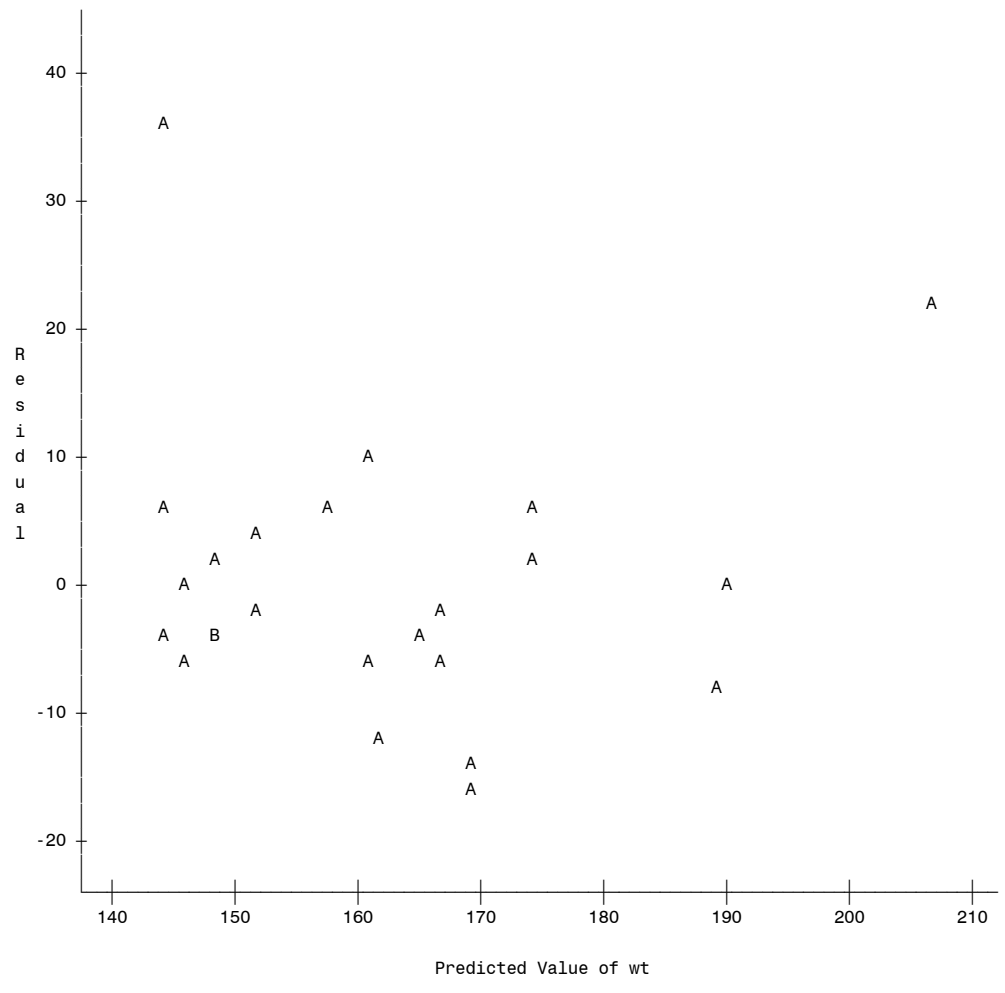
Source	DF	Type I SS	Mean Square	F Value	Pr > F
cs	1	4032.315789	4032.315789	29.98	<.0001
ss	1	2144.592319	2144.592319	15.95	0.0007

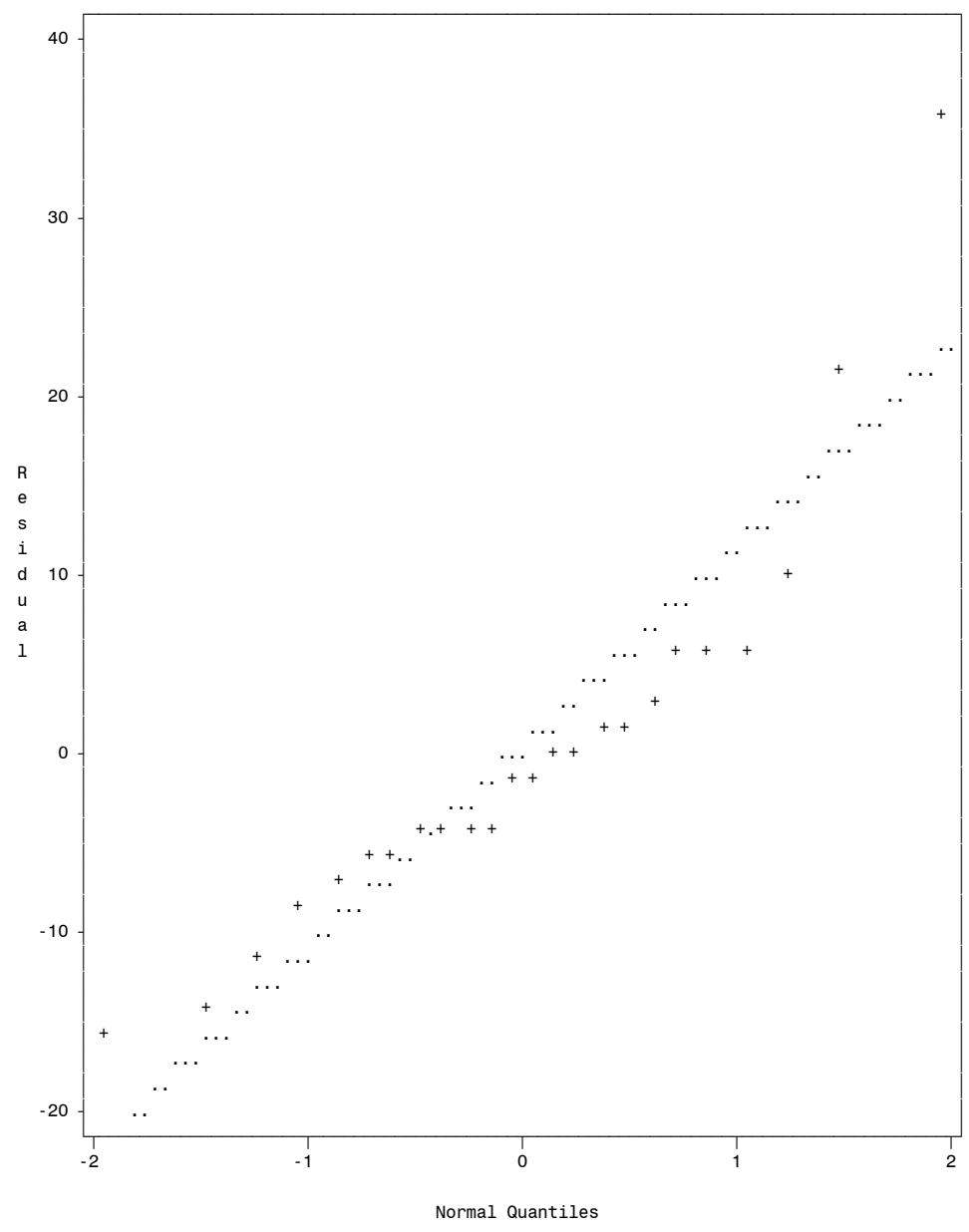
Source	DF	Type III SS	Mean Square	F Value	Pr > F
cs	1	1292.700413	1292.700413	9.61	0.0054
ss	1	2144.592319	2144.592319	15.95	0.0007

Parameter	Estimate	Standard Error	t Value	Pr >  t
Intercept	-156.5721664	67.88615111	-2.31	0.0314
cs	15.0738135	4.86216381	3.10	0.0054
ss	8.7927899	2.20196149	3.99	0.0007

Obs	_NAME_	_SOURCE_	_TYPE_	DF	SS	F	PROB
1	wt	ERROR	ERROR	21	2824.43	.	.
2	wt	cs	SS1	1	4032.32	29.9808	.000019682
3	wt	ss	SS1	1	2144.59	15.9453	.000660416
4	wt	cs	SS3	1	1292.70	9.6114	.005420181
5	wt	ss	SS3	1	2144.59	15.9453	.000660416

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





Normal Line: ... Mu=0, Sigma=11.082

**Residuals from regression on original data**

Obs	cs	ss	wt	id	bootid	pred	res
1	14.5	9.5	140	1	1	145.530	-5.5296
2	15.5	9.5	155	2	2	160.603	-5.6034
3	15.5	10.5	153	3	3	169.396	-16.3962
4	15.0	10.5	150	4	4	161.859	-11.8593
5	16.5	11.0	180	5	5	188.866	-8.8664
6	16.5	8.5	160	6	6	166.884	-6.8845
7	15.5	8.5	155	7	7	151.811	3.1893
8	14.5	9.5	145	8	8	145.530	-0.5296
9	15.0	10.0	163	9	9	157.463	5.5371
10	15.0	9.0	150	10	10	148.670	1.3299
11	15.0	8.5	140	11	11	144.274	-4.2738
12	15.5	9.5	170	12	12	160.603	9.3966
13	15.5	11.0	180	13	13	173.793	6.2074
14	15.5	11.0	175	14	14	173.793	1.2074
15	15.5	10.5	155	15	15	169.396	-14.3962
16	15.5	8.5	150	16	16	151.811	-1.8107
17	15.5	10.0	160	17	17	165.000	-4.9998
18	15.0	9.0	145	18	18	148.670	-3.6701
19	16.0	12.0	190	19	19	190.122	-0.1223
20	16.5	13.0	228	20	20	206.452	21.5480
21	15.0	8.5	150	21	21	144.274	5.7262
22	15.0	8.5	180	22	22	144.274	35.7262
23	15.0	11.0	165	23	23	166.256	-1.2557
24	15.0	9.0	145	24	24	148.670	-3.6701



<b>Obs</b>	<b>res</b>	<b>iter</b>	<b>id</b>
1	-3.6701	1	1
2	5.7262	1	2
3	35.7262	1	3
4	-1.2557	1	4
5	1.2074	1	5
6	-1.2557	1	6
7	35.7262	1	7
8	21.5480	1	8
9	-8.8664	1	9
10	3.1893	1	10
11	-16.3962	1	11
12	-16.3962	1	12
13	-4.2738	1	13
14	1.3299	1	14
15	-5.6034	1	15
16	1.2074	1	16
17	6.2074	1	17
18	-3.6701	1	18
19	1.2074	1	19
20	3.1893	1	20
21	5.7262	1	21
22	1.3299	1	22
23	-4.2738	1	23
24	-0.1223	1	24

Obs	cs	ss	wt	id	bootid	res	iter
1	14.5	9.5	140	1	1	-3.6701	1
2	15.5	9.5	155	2	2	5.7262	1
3	15.5	10.5	153	3	3	35.7262	1
4	15.0	10.5	150	4	4	-1.2557	1
5	16.5	11.0	180	5	5	1.2074	1
6	16.5	8.5	160	6	6	-1.2557	1
7	15.5	8.5	155	7	7	35.7262	1
8	14.5	9.5	145	8	8	21.5480	1
9	15.0	10.0	163	9	9	-8.8664	1
10	15.0	9.0	150	10	10	3.1893	1
11	15.0	8.5	140	11	11	-16.3962	1
12	15.5	9.5	170	12	12	-16.3962	1
13	15.5	11.0	180	13	13	-4.2738	1
14	15.5	11.0	175	14	14	1.3299	1
15	15.5	10.5	155	15	15	-5.6034	1
16	15.5	8.5	150	16	16	1.2074	1
17	15.5	10.0	160	17	17	6.2074	1
18	15.0	9.0	145	18	18	-3.6701	1
19	16.0	12.0	190	19	19	1.2074	1
20	16.5	13.0	228	20	20	3.1893	1
21	15.0	8.5	150	21	21	5.7262	1
22	15.0	8.5	180	22	22	1.3299	1
23	15.0	11.0	165	23	23	-4.2738	1
24	15.0	9.0	145	24	24	-0.1223	1

**Bootstrap analysis results**

Obs	iter	_NAME_	_SOURCE_	_TYPE_	DF	SS	F	PROB
1	1	res	ERROR	ERROR	21	3709.09	.	.
2	1	res	cs	SS1	1	3.84	0.02172	0.88423
3	1	res	ss	SS1	1	12.87	0.07286	0.78986
4	1	res	cs	SS3	1	11.29	0.06394	0.80283
5	1	res	ss	SS3	1	12.87	0.07286	0.78986
6	2	res	ERROR	ERROR	21	3686.39	.	.
7	2	res	cs	SS1	1	75.06	0.42760	0.52027
8	2	res	ss	SS1	1	204.79	1.16664	0.29234
9	2	res	cs	SS3	1	1.74	0.00989	0.92172
10	2	res	ss	SS3	1	204.79	1.16664	0.29234
11	3	res	ERROR	ERROR	21	2275.05	.	.
12	3	res	cs	SS1	1	102.87	0.94953	0.34093
13	3	res	ss	SS1	1	271.01	2.50154	0.12868
14	3	res	cs	SS3	1	2.80	0.02584	0.87383
15	3	res	ss	SS3	1	271.01	2.50154	0.12868
16	4	res	ERROR	ERROR	21	2644.90	.	.
17	4	res	cs	SS1	1	171.32	1.36025	0.25657
18	4	res	ss	SS1	1	5.29	0.04203	0.83954
19	4	res	cs	SS3	1	113.70	0.90278	0.35284
20	4	res	ss	SS3	1	5.29	0.04203	0.83954
21	5	res	ERROR	ERROR	21	1133.36	.	.
22	5	res	cs	SS1	1	34.16	0.63303	0.43515
23	5	res	ss	SS1	1	22.26	0.41242	0.52769
24	5	res	cs	SS3	1	53.89	0.99849	0.32905
25	5	res	ss	SS3	1	22.26	0.41242	0.52769

<b>iter</b>	<b>fcs</b>	<b>fss</b>	<b>foverall</b>
1	0.06394	0.07286	0.04729
2	0.00989	1.16664	0.79712
3	0.02584	2.50154	1.72554
4	0.90278	0.04203	0.70114
5	0.99849	0.41242	0.52273
6	0.48110	0.47868	0.33121
7	4.61330	0.78193	2.31065
8	0.04905	1.70882	1.26351
9	1.53229	0.69746	0.81505
10	1.00583	0.22728	0.50336
11	0.00092	0.09607	0.05545
12	0.19362	0.05523	0.09769
13	0.99326	0.21431	1.01554
14	1.48888	0.24378	1.42367
15	0.29900	0.02093	0.24481
16	0.50609	1.65838	1.87040
17	0.16586	0.28394	0.15965
18	0.07291	0.92631	0.47959
19	1.09913	0.76193	0.65089
20	3.29232	1.60863	4.36271
21	0.03725	0.12393	0.13913
22	0.06672	0.19466	0.09960
23	1.70556	0.05140	0.93372
24	0.24839	0.19155	0.39811
25	0.09542	0.24590	0.12761
26	0.54460	3.42144	3.25089
27	0.03745	0.02929	0.02317
28	2.84517	2.36018	1.80267
29	1.82589	0.17000	0.93658
30	0.05414	0.65553	0.33847

*Bootstrap distribution of F values*

Obs	fcsp90	fssp90	foverallp90	fcsp95	fssp95	foverallp95	fcsp97_5	fssp97_5
1	3.05477	2.97284	2.62744	4.63958	4.31799	3.55381	6.43653	5.79945

Obs	foverallp97_5	fcsp99	fssp99	foverallp99
1	4.63452	9.61822	7.77723	6.19996

*The MEANS Procedure*

Variable	Mean
rejooverall	0
rejcs	0.0102000
rejss	0.000600000