Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure

Number of Observations Read	100
Number of Observations Used	100

Descriptive Statistics

Variable	Sum	Mean	Uncorrected SS	Variance	Standard Deviation
Intercept	100.00000	1.00000	100.00000	0	0
x6	781.00000	7.81000	6292.62000	1.94960	1.39628
x7	367.20000	3.67200	1396.94000	0.49072	0.70052
x8	536.50000	5.36500	3110.21000	2.34230	1.53046
x9	544.20000	5.44200	3106.10000	1.46024	1.20840
x10	401.00000	4.01000	1733.74000	1.27000	1.12694
x11	580.50000	5.80500	3541.07000	1.72997	1.31529
x12	512.30000	5.12300	2738.35000	1.14987	1.07232
x13	697.40000	6.97400	5100.00000	2.38720	1.54506
x14	604.30000	6.04300	3718.31000	0.67197	0.81974
x15	515.00000	5.15000	2872.94000	2.22919	1.49305
x16	427.80000	4.27800	1915.54000	0.86274	0.92884
x17	461.00000	4.61000	2269.20000	1.45444	1.20600
x18	388.60000	3.88600	1563.50000	0.53940	0.73444
x19	691.80000	6.91800	4926.50000	1.42048	1.19184

Correlation

Variable	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16
x6	1.0000	-0.1372	0.0956	0.1064	-0.0535	0.4775	-0.1518	-0.4013	0.0883	0.0270	0.1043
x7	-0.1372	1.0000	0.0009	0.1402	0.4299	-0.0527	0.7915	0.2295	0.0519	-0.0274	0.1561
x8	0.0956	0.0009	1.0000	0.0967	-0.0629	0.1926	0.0170	-0.2708	0.7972	-0.0736	0.0801
x9	0.1064	0.1402	0.0967	1.0000	0.1969	0.5614	0.2298	-0.1280	0.1404	0.0594	0.7569
x10	-0.0535	0.4299	-0.0629	0.1969	1.0000	-0.0116	0.5422	0.1342	0.0108	0.0842	0.1842
x11	0.4775	-0.0527	0.1926	0.5614	-0.0116	1.0000	-0.0613	-0.4949	0.2731	0.0462	0.4244
x12	-0.1518	0.7915	0.0170	0.2298	0.5422	-0.0613	1.0000	0.2646	0.1075	0.0316	0.1951
x13	-0.4013	0.2295	-0.2708	-0.1280	0.1342	-0.4949	0.2646	1.0000	-0.2450	0.0232	-0.1146
x14	0.0883	0.0519	0.7972	0.1404	0.0108	0.2731	0.1075	-0.2450	1.0000	0.0352	0.1971
x15	0.0270	-0.0274	-0.0736	0.0594	0.0842	0.0462	0.0316	0.0232	0.0352	1.0000	0.0685
x16	0.1043	0.1561	0.0801	0.7569	0.1842	0.4244	0.1951	-0.1146	0.1971	0.0685	1.0000
x17	-0.4931	0.2707	-0.1861	0.3945	0.3336	-0.3780	0.3522	0.4711	-0.1703	0.0941	0.4070
x18	0.0277	0.1916	0.0254	0.8651	0.2759	0.6019	0.2716	-0.0729	0.1094	0.1057	0.7510
x19	0.4863	0.2827	0.1126	0.6033	0.3047	0.5505	0.5002	-0.2083	0.1775	0.0709	0.5217

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure

Correlation		
x17	x18	x19
-0.4931	0.0277	0.4863
0.2707	0.1916	0.2827
-0.1861	0.0254	0.1126
0.3945	0.8651	0.6033
0.3336	0.2759	0.3047
-0.3780	0.6019	0.5505
0.3522	0.2716	0.5002
0.4711	-0.0729	-0.2083
-0.1703	0.1094	0.1775
0.0941	0.1057	0.0709
0.4070	0.7510	0.5217
1.0000	0.4967	0.0560
0.4967	1.0000	0.5770
0.0560	0.5770	1.0000

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Number of Observations Read	100
Number of Observations Used	100

Stepwise Selection: Step 1

Variable x9 Entered: R-Square = 0.3639 and C(p) = 182.8851

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	51.17801	51.17801	56.07	<.0001
Error	98	89.44959	0.91275		
Corrected Total	99	140.62760			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	3.68005	0.44285	63.03037	69.06	<.0001
x9	0.59499	0.07946	51.17801	56.07	<.0001

Bounds on condition number: 1, 1

Stepwise Selection: Step 2

Variable x6 Entered: R-Square = 0.5442 and C(p) = 105.8527

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	76.52686	38.26343	57.90	<.0001
Error	97	64.10074	0.66083		
Corrected Total	99	140.62760			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	1.07733	0.56443	2.40746	3.64	0.0593
x6	0.36447	0.05885	25.34885	38.36	<.0001
x9	0.55020	0.06800	43.26674	65.47	<.0001

Bounds on condition number: 1.0114, 4.0458

Stepwise Selection: Step 3

Variable x12 Entered: R-Square = 0.7526 and C(p) = 16.4818

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	105.83315	35.27772	97.33	<.0001
Error	96	34.79445	0.36244		
Corrected Total	99	140.62760			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.56899	0.51122	3.41407	9.42	0.0028
x6	0.43706	0.04432	35.24225	97.24	<.0001
x9	0.43318	0.05201	25.14068	69.36	<.0001
x12	0.53020	0.05896	29.30630	80.86	<.0001

Bounds on condition number: 1.0919, 9.6513

Stepwise Selection: Step 4

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	108.64461	27.16115	80.68	<.0001
Error	95	31.98299	0.33666		
Corrected Total	99	140.62760			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.10570	0.51813	1.53320	4.55	0.0354
x6	0.43482	0.04272	34.87157	103.58	<.0001
x7	-0.39468	0.13658	2.81146	8.35	0.0048
x9	0.42350	0.05024	23.92242	71.06	<.0001
x12	0.73635	0.09121	21.94439	65.18	<.0001

Bounds on condition number: 2.8128, 30.539

Stepwise Selection: Step 5

Variable x11 Entered: R-Square = 0.7908 and C(p) = 3.7320

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	111.20549	22.24110	71.06	<.0001
Error	94	29.42211	0.31300		
Corrected Total	99	140.62760			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.15106	0.49984	1.65991	5.30	0.0235
x6	0.36900	0.04719	19.14018	61.15	<.0001
x7	-0.41714	0.13192	3.12934	10.00	0.0021
x9	0.31896	0.06068	8.64821	27.63	<.0001
x11	0.17435	0.06095	2.56088	8.18	0.0052
x12	0.77513	0.08898	23.75201	75.88	<.0001

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

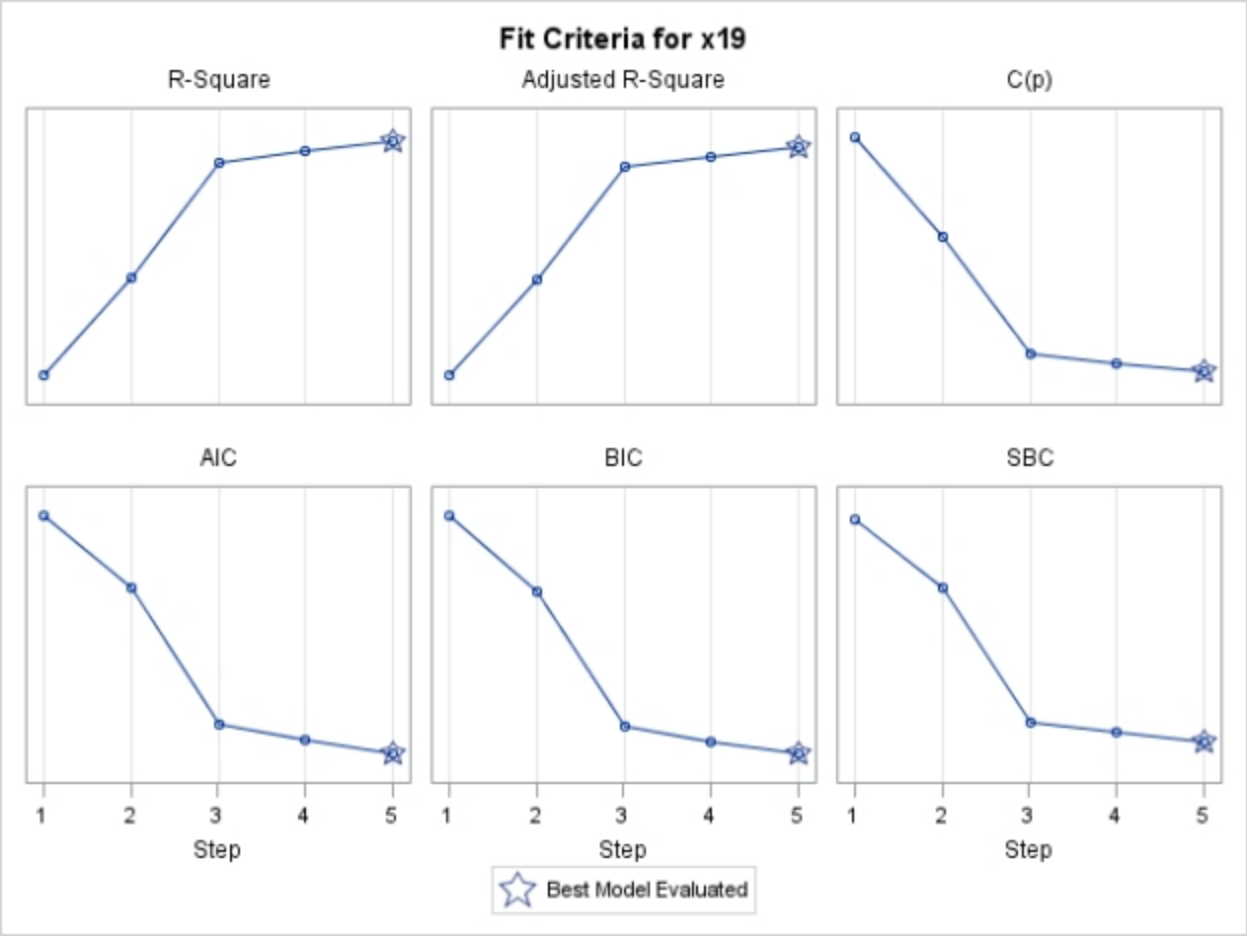
The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Summary of Stepwise Selection

Step	Variable Entered	Variable Removed	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	x9		1	0.3639	0.3639	182.885	56.07	<.0001
2	x6		2	0.1803	0.5442	105.853	38.36	<.0001
3	x12		3	0.2084	0.7526	16.4818	80.86	<.0001
4	x7		4	0.0200	0.7726	9.7163	8.35	0.0048
5	x11		5	0.0182	0.7908	3.7320	8.18	0.0052

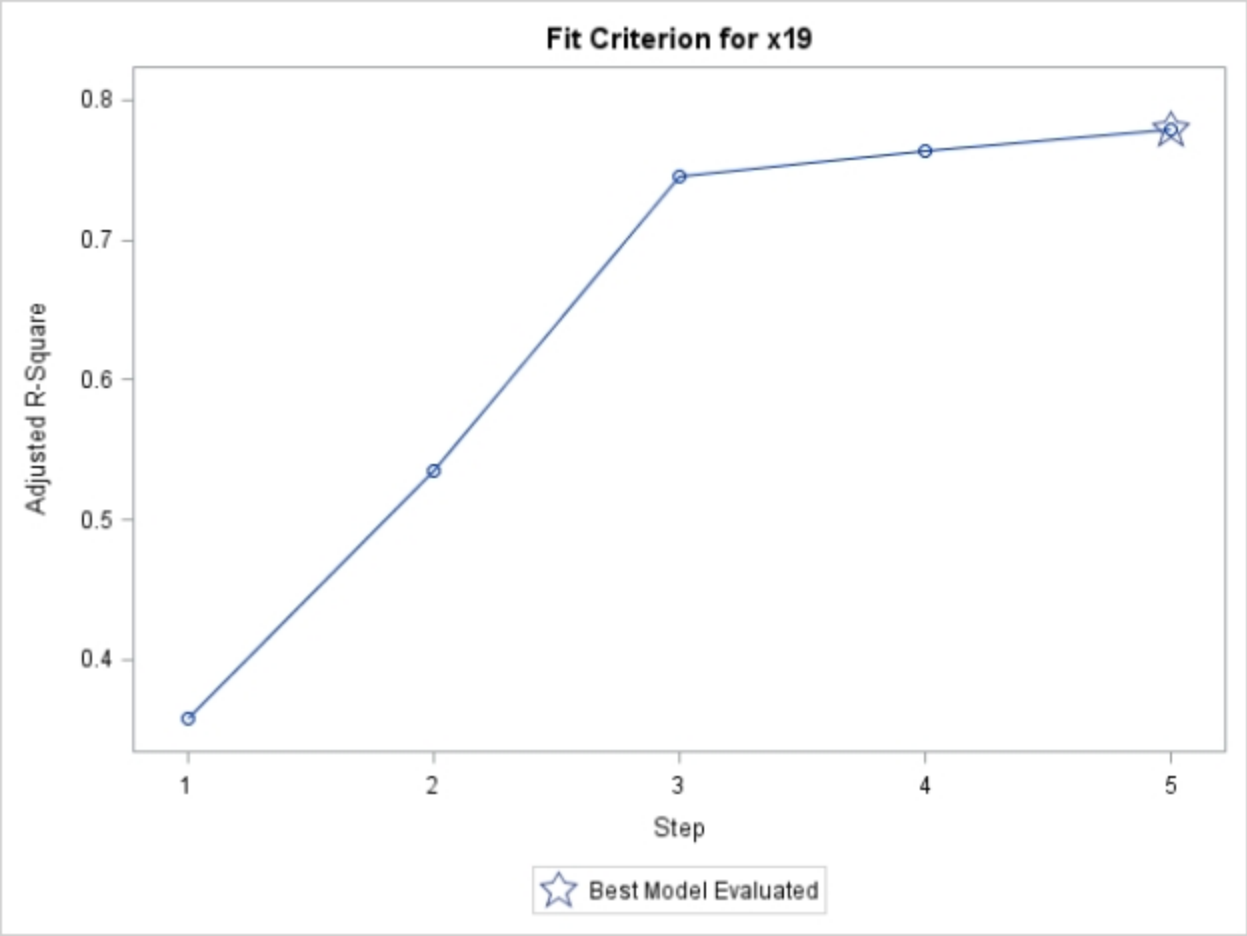
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Number of Observations Read	100
Number of Observations Used	100

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	111.20549	22.24110	71.06	<.0001
Error	94	29.42211	0.31300		
Corrected Total	99	140.62760			

Root MSE	0.55947	R-Square	0.7908
Dependent Mean	6.91800	Adj R-Sq	0.7797
Coeff Var	8.08709		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Heteroscedasticity Consistent			Type II SS	Standardized Estimate
						Standard Error	t Value	Pr > |t|		
Intercept	1	-1.15106	0.49984	-2.30	0.0235	0.45082	-2.55	0.0123	1.65991	0
x6	1	0.36900	0.04719	7.82	<.0001	0.04566	8.08	<.0001	19.14018	0.43230
x7	1	-0.41714	0.13192	-3.16	0.0021	0.11992	-3.48	0.0008	3.12934	-0.24518
x9	1	0.31896	0.06068	5.26	<.0001	0.05675	5.62	<.0001	8.64821	0.32340
x11	1	0.17435	0.06095	2.86	0.0052	0.05265	3.31	0.0013	2.56088	0.19241
x12	1	0.77513	0.08898	8.71	<.0001	0.09886	7.84	<.0001	23.75201	0.69740

Parameter Estimates

Squared Semi-partial Corr Type II	Type II F Value	Type II Pr > F	Tolerance	Variance Inflation	95% Confidence Limits		Heteroscedasticity Consistent 95% Confidence Limits	
.	.	.	.	0	-2.14350	-0.15862	-2.04618	-0.25594
0.13611	61.15	<.0001	0.72831	1.37305	0.27531	0.46269	0.27833	0.45967
0.02225	10.00	0.0021	0.37019	2.70133	-0.67908	-0.15520	-0.65524	-0.17903
0.06150	27.63	<.0001	0.58801	1.70065	0.19848	0.43945	0.20629	0.43164
0.01821	8.18	0.0052	0.49188	2.03302	0.05333	0.29538	0.06982	0.27889
0.16890	75.88	<.0001	0.34727	2.87960	0.59846	0.95180	0.57883	0.97143

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Collinearity Diagnostics							
			Proportion of Variation				
Number	Eigenvalue	Condition Index	Intercept	x6	x7	x9	x11
1	5.85807	1.00000	0.00036132	0.00063382	0.00036632	0.00077700	0.00067314
2	0.07338	8.93513	0.00005601	0.03512	0.04461	0.01663	0.09016
3	0.03655	12.66077	0.02175	0.24368	0.00101	0.37979	0.01393
4	0.01514	19.66772	0.11788	0.07787	0.05855	0.40891	0.77753
5	0.00973	24.54299	0.65272	0.53229	0.05373	0.05360	0.04144
6	0.00714	28.64651	0.20723	0.11041	0.84174	0.14029	0.07628

Collinearity Diagnostics
Proportion of Variation
x12
0.00040928
0.06048
0.00256
0.01393
0.27463
0.64799

Collinearity Diagnostics (intercept adjusted)							
			Proportion of Variation				
Number	Eigenvalue	Condition Index	x6	x7	x9	x11	x12
1	1.90376	1.00000	0.02306	0.08551	0.01039	0.00260	0.08323
2	1.79113	1.03096	0.08701	0.00042182	0.10634	0.12501	0.00093458
3	0.79654	1.54597	0.52013	0.03272	0.24418	0.00270	0.01115
4	0.31546	2.45658	0.35017	0.08485	0.48914	0.75946	0.02920
5	0.19310	3.13991	0.01963	0.79649	0.14995	0.11023	0.87549

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Heteroscedasticity Consistent Covariance of Estimates						
Variable	**Intercept**	**x6**	**x7**	**x9**	**x11**	**x12**
Intercept	0.2032418141	-0.013834069	-0.012886076	-0.003635958	0.0064727456	-0.012748465
x6	-0.013834069	0.0020852868	-0.000330969	0.0004239434	-0.001675237	0.0011776543
x7	-0.012886076	-0.000330969	0.0143809102	0.001281978	-0.000535206	-0.008158737
x9	-0.003635958	0.0004239434	0.001281978	0.0032201802	-0.001201056	-0.002821187
x11	0.0064727456	-0.001675237	-0.000535206	-0.001201056	0.0027719549	-0.00014443
x12	-0.012748465	0.0011776543	-0.008158737	-0.002821187	-0.00014443	0.0097741402

Test of First and Second Moment Specification		
DF	**Chi-Square**	**Pr > ChiSq**
20	25.66	0.1772

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
1	1	8.2	7.7456	0.1156	7.5162	7.9750	6.6113	8.8799	0.4544	0.547
2	2	5.7	6.8253	0.1675	6.4927	7.1579	5.6657	7.9848	-1.1253	0.534
3	3	8.9	8.3976	0.1410	8.1176	8.6776	7.2520	9.5432	0.5024	0.541
4	4	4.8	5.3217	0.1154	5.0926	5.5507	4.1875	6.4559	-0.5217	0.547
5	5	7.1	6.7531	0.0880	6.5784	6.9278	5.6286	7.8776	0.3469	0.553
6	6	4.7	5.0049	0.1242	4.7583	5.2515	3.8670	6.1428	-0.3049	0.546
7	7	5.7	5.2676	0.1757	4.9188	5.6165	4.1033	6.4320	0.4324	0.531
8	8	6.3	5.8720	0.1247	5.6245	6.1196	4.7339	7.0101	0.4280	0.545
9	9	7.0	7.1489	0.1319	6.8870	7.4108	6.0076	8.2902	-0.1489	0.544
10	10	5.5	6.6911	0.1134	6.4660	6.9163	5.5577	7.8246	-1.1911	0.548
11	11	7.4	7.0066	0.1008	6.8065	7.2067	5.8779	8.1353	0.3934	0.550
12	12	6.0	5.9406	0.1502	5.6425	6.2388	4.7905	7.0908	0.0594	0.539
13	13	8.4	8.5382	0.2067	8.1278	8.9486	7.3540	9.7224	-0.1382	0.520
14	14	7.6	7.5564	0.1520	7.2546	7.8581	6.4053	8.7075	0.0436	0.538
15	15	8.0	7.2562	0.1350	6.9881	7.5243	6.1135	8.3989	0.7438	0.543
16	16	6.6	7.1988	0.1315	6.9378	7.4598	6.0577	8.3399	-0.5988	0.544
17	17	6.4	6.1096	0.1193	5.8727	6.3464	4.9738	7.2454	0.2904	0.547
18	18	7.4	6.9914	0.1378	6.7179	7.2649	5.8474	8.1354	0.4086	0.542
19	19	6.8	6.8730	0.1373	6.6004	7.1456	5.7292	8.0168	-0.0730	0.542
20	20	7.6	8.7986	0.1577	8.4854	9.1117	7.6444	9.9527	-1.1986	0.537
21	21	5.4	5.4666	0.1260	5.2163	5.7168	4.3279	6.6053	-0.0666	0.545
22	22	9.9	9.3887	0.2299	8.9321	9.8452	8.1877	10.5897	0.5113	0.510
23	23	7.0	7.0632	0.1072	6.8503	7.2762	5.9322	8.1943	-0.0632	0.549
24	24	8.6	8.3195	0.1687	7.9844	8.6545	7.1592	9.4797	0.2805	0.533
25	25	4.8	5.8841	0.1105	5.6647	6.1034	4.7518	7.0163	-1.0841	0.548
26	26	6.6	6.4427	0.1385	6.1676	6.7177	5.2983	7.5871	0.1573	0.542
27	27	6.3	6.7771	0.1207	6.5374	7.0168	5.6407	7.9135	-0.4771	0.546
28	28	5.4	5.9021	0.1033	5.6970	6.1072	4.7725	7.0317	-0.5021	0.550
29	29	6.3	6.8409	0.1200	6.6026	7.0791	5.7048	7.9770	-0.5409	0.546
30	30	5.4	5.7254	0.1023	5.5223	5.9284	4.5961	6.8546	-0.3254	0.550
31	31	6.1	6.1073	0.1281	5.8530	6.3616	4.9677	7.2468	-0.007275	0.545
32	32	6.4	6.0650	0.1172	5.8322	6.2978	4.9301	7.2000	0.3350	0.547
33	33	5.4	6.1557	0.0777	6.0013	6.3100	5.0342	7.2772	-0.7557	0.554
34	34	7.3	6.6876	0.1114	6.4665	6.9087	5.5550	7.8202	0.6124	0.548
35	35	6.3	7.1090	0.1794	6.7528	7.4652	5.9425	8.2756	-0.8090	0.530
36	36	5.4	5.4074	0.1607	5.0883	5.7264	4.2516	6.5631	-0.007362	0.536
37	37	7.1	6.7531	0.0880	6.5784	6.9278	5.6286	7.8776	0.3469	0.553
38	38	8.7	8.6152	0.1274	8.3623	8.8682	7.4760	9.7545	0.0848	0.545
39	39	7.6	7.0806	0.1154	6.8514	7.3098	5.9464	8.2148	0.5194	0.547

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	DFBETAS		
							Intercept	x6	x7
0.830	| |* |	0.005	0.8287	0.0427	1.0657	0.1749	-0.0519	0.1015	-0.0358
-2.108	| ****| |	0.073	-2.1482	0.0896	0.8759	-0.6741	-0.1007	0.1253	-0.0605
0.928	| |* |	0.010	0.9272	0.0635	1.0775	0.2415	-0.0544	0.0327	-0.1454
-0.953	| *| |	0.007	-0.9525	0.0425	1.0506	-0.2007	-0.1592	0.0989	0.0247
0.628	| |* |	0.002	0.6258	0.0247	1.0661	0.0997	0.0024	0.0434	0.0053
-0.559	| *| |	0.003	-0.5569	0.0493	1.0994	-0.1268	-0.1139	0.0402	0.0212
0.814	| |* |	0.012	0.8125	0.0986	1.1338	0.2688	0.1125	0.0436	-0.0308
0.785	| |* |	0.005	0.7831	0.0497	1.0786	0.1790	0.1124	-0.0289	-0.0665
-0.274	| | |	0.001	-0.2726	0.0556	1.1236	-0.0661	-0.0199	0.0415	0.0272
-2.174	| ****| |	0.034	-2.2191	0.0411	0.8159	-0.4593	0.0136	0.2035	-0.2840
0.715	| |* |	0.003	0.7130	0.0324	1.0666	0.1306	0.0170	0.0021	-0.0403
0.110	| | |	0.000	0.1096	0.0720	1.1482	0.0305	0.0033	-0.0068	0.0139
-0.266	| | |	0.002	-0.2645	0.1365	1.2293	-0.1052	0.0780	-0.0392	-0.0810
0.081	| | |	0.000	0.0806	0.0738	1.1507	0.0227	-0.0065	-0.0015	0.0069
1.370	| |** |	0.019	1.3764	0.0582	1.0032	0.3423	-0.0399	-0.1981	0.1428
-1.101	| **| |	0.012	-1.1024	0.0552	1.0440	-0.2665	0.0190	0.0113	-0.0641
0.531	| |* |	0.002	0.5293	0.0455	1.0971	0.1155	0.0417	-0.0795	0.0431
0.754	| |* |	0.006	0.7518	0.0606	1.0946	0.1910	0.0160	-0.1170	0.0465
-0.135	| | |	0.000	-0.1338	0.0602	1.1333	-0.0339	-0.0147	0.0225	0.0168
-2.233	| ****| |	0.072	-2.2823	0.0795	0.8352	-0.6706	0.3935	-0.3995	0.0781
-0.122	| | |	0.000	-0.1215	0.0508	1.1222	-0.0281	-0.0176	0.0180	-0.0054
1.003	| |** |	0.034	1.0026	0.1689	1.2029	0.4520	-0.3143	0.0596	0.1549
-0.115	| | |	0.000	-0.1146	0.0367	1.1060	-0.0224	0.0013	0.0025	-0.0030
0.526	| |* |	0.005	0.5239	0.0910	1.1524	0.1657	-0.0039	0.0405	-0.1149
-1.977	| ***| |	0.026	-2.0082	0.0390	0.8600	-0.4044	-0.1742	0.2796	-0.1398
0.290	| | |	0.001	0.2888	0.0613	1.1298	0.0738	0.0214	-0.0013	-0.0076
-0.873	| *| |	0.006	-0.8722	0.0466	1.0650	-0.1928	-0.0309	0.0352	-0.0113
-0.913	| *| |	0.005	-0.9124	0.0341	1.0464	-0.1714	-0.0876	0.0179	-0.0287
-0.990	| *| |	0.008	-0.9897	0.0460	1.0496	-0.2173	-0.0300	0.0357	-0.0148
-0.592	| *| |	0.002	-0.5895	0.0334	1.0787	-0.1096	-0.0459	-0.0214	-0.0262
-0.013	| | |	0.000	-0.0133	0.0524	1.1252	-0.0031	-0.0015	0.0019	0.0004
0.612	| |* |	0.003	0.6103	0.0439	1.0888	0.1308	0.0808	0.0172	-0.0721
-1.364	| **| |	0.006	-1.3703	0.0193	0.9644	-0.1922	-0.1002	0.0820	-0.0461
1.117	| |** |	0.009	1.1185	0.0396	1.0247	0.2272	0.0383	0.0922	-0.0276
-1.527	| ***| |	0.045	-1.5377	0.1028	1.0223	-0.5205	-0.0868	0.1588	0.2392
-0.014	| | |	0.000	-0.0137	0.0825	1.1621	-0.0041	-0.0009	-0.0004	-0.0022
0.628	| |* |	0.002	0.6258	0.0247	1.0661	0.0997	0.0024	0.0434	0.0053
0.156	| | |	0.000	0.1548	0.0519	1.1229	0.0362	-0.0263	0.0150	0.0106
0.949	| |* |	0.007	0.9483	0.0426	1.0512	0.2000	-0.0157	0.0929	0.0126

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics		
DFBETAS		
x9	x11	x12
0.0757	-0.1176	0.0597
-0.2733	-0.1396	0.3521
-0.0941	0.1212	0.1736
0.1186	-0.0404	0.0019
-0.0413	0.0102	-0.0135
0.0163	0.0255	0.0313
-0.0888	-0.1305	0.0502
0.0338	-0.1023	0.0357
-0.0192	-0.0079	-0.0240
-0.1117	-0.0135	0.1858
-0.0791	0.0781	0.0282
-0.0109	-0.0026	-0.0015
-0.0268	0.0105	0.0400
-0.0103	0.0176	-0.0042
0.0768	0.1170	-0.0769
-0.0847	-0.0755	0.1443
0.0293	0.0065	-0.0469
0.0887	0.0246	-0.0462
-0.0069	-0.0045	-0.0132
-0.2259	0.3197	-0.3052
-0.0047	0.0057	0.0080
-0.1664	0.2251	0.0911
0.0125	-0.0167	0.0022
0.0670	-0.0118	0.0610
0.1535	-0.1356	0.0823
0.0491	-0.0558	-0.0029
0.0214	-0.1061	0.0733
-0.0824	0.0902	0.0904
0.0023	-0.1071	0.0888
0.0208	0.0502	0.0340
0.0023	-0.0023	-0.0003
-0.0137	-0.0267	0.0125
-0.0311	0.0383	0.0684
0.1364	-0.1837	-0.0294
0.3571	-0.2245	-0.3917
0.0007	-0.0003	0.0033
-0.0413	0.0102	-0.0135
0.0159	0.0023	-0.0059
0.1468	-0.1610	-0.0407

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
40	40	6.0	6.2277	0.1402	5.9493	6.5061	5.0825	7.3729	-0.2277	0.542
41	41	7.0	7.0804	0.1105	6.8609	7.2998	5.9481	8.2127	-0.0804	0.548
42	42	7.6	7.3862	0.0918	7.2040	7.5685	6.2606	8.5119	0.2138	0.552
43	43	8.9	8.3562	0.1647	8.0292	8.6832	7.1983	9.5142	0.5438	0.535
44	44	7.6	7.7918	0.1827	7.4290	8.1545	6.6232	8.9604	-0.1918	0.529
45	45	5.5	6.6906	0.1681	6.3568	7.0244	5.5307	7.8505	-1.1906	0.534
46	46	7.4	6.5767	0.1229	6.3326	6.8208	5.4394	7.7141	0.8233	0.546
47	47	7.1	7.1843	0.2095	6.7684	7.6002	5.9981	8.3704	-0.0843	0.519
48	48	7.6	7.4039	0.1532	7.0997	7.7082	6.2522	8.5557	0.1961	0.538
49	49	8.7	9.3181	0.1739	8.9728	9.6635	8.1549	10.4814	-0.6181	0.532
50	50	8.6	7.6860	0.0908	7.5057	7.8662	6.5606	8.8113	0.9140	0.552
51	51	5.4	5.6993	0.0903	5.5199	5.8786	4.5741	6.8245	-0.2993	0.552
52	52	5.7	6.8891	0.1728	6.5460	7.2321	5.7265	8.0517	-1.1891	0.532
53	53	8.7	8.0587	0.1507	7.7595	8.3580	6.9083	9.2092	0.6413	0.539
54	54	6.1	6.1392	0.1237	5.8935	6.3848	5.0015	7.2768	-0.0392	0.546
55	55	7.3	6.7195	0.1151	6.4909	6.9481	5.5854	7.8536	0.5805	0.547
56	56	7.7	7.8927	0.0875	7.7190	8.0663	6.7683	9.0170	-0.1927	0.553
57	57	9.0	8.5119	0.1592	8.1958	8.8280	7.3569	9.6668	0.4881	0.536
58	58	8.2	7.3381	0.0796	7.1800	7.4962	6.2160	8.4601	0.8619	0.554
59	59	7.1	6.3550	0.1860	5.9858	6.7242	5.1844	7.5256	0.7450	0.528
60	60	7.9	7.2591	0.1888	6.8842	7.6339	6.0867	8.4315	0.6409	0.527
61	61	6.6	6.9755	0.1246	6.7280	7.2230	5.8375	8.1136	-0.3755	0.545
62	62	8.0	7.3510	0.1070	7.1386	7.5633	6.2200	8.4819	0.6490	0.549
63	63	6.3	6.6361	0.1220	6.3939	6.8783	5.4992	7.7730	-0.3361	0.546
64	64	6.0	5.6628	0.1415	5.3818	5.9437	4.5170	6.8086	0.3372	0.541
65	65	5.4	5.6305	0.0950	5.4419	5.8191	4.5037	6.7572	-0.2305	0.551
66	66	7.6	7.1488	0.1303	6.8900	7.4075	6.0082	8.2893	0.4512	0.544
67	67	6.4	6.2372	0.1276	5.9838	6.4905	5.0978	7.3765	0.1628	0.545
68	68	6.1	5.7796	0.1158	5.5497	6.0096	4.6453	6.9140	0.3204	0.547
69	69	5.2	5.4758	0.1129	5.2516	5.6999	4.3425	6.6090	-0.2758	0.548
70	70	6.6	6.1875	0.1122	5.9647	6.4103	5.0545	7.3205	0.4125	0.548
71	71	7.6	8.6391	0.1502	8.3408	8.9374	7.4889	9.7893	-1.0391	0.539
72	72	5.8	5.7531	0.1590	5.4374	6.0688	4.5982	6.9079	0.0469	0.536
73	73	7.9	7.3081	0.1065	7.0967	7.5195	6.1773	8.4389	0.5919	0.549
74	74	8.6	8.8716	0.2024	8.4698	9.2734	7.6903	10.0529	-0.2716	0.522
75	75	8.2	7.6180	0.1073	7.4049	7.8311	6.4869	8.7491	0.5820	0.549
76	76	7.1	7.5947	0.1270	7.3427	7.8468	6.4557	8.7338	-0.4947	0.545
77	77	6.4	6.2965	0.0789	6.1400	6.4531	5.1747	7.4184	0.1035	0.554
78	78	7.6	7.6414	0.1005	7.4419	7.8409	6.5128	8.7700	-0.0414	0.550

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	DFBETAS		
							Intercept	x6	x7
-0.420	| | |	0.002	-0.4185	0.0628	1.1249	-0.1083	-0.0029	0.0178	-0.0565
-0.147	| | |	0.000	-0.1458	0.0390	1.1081	-0.0294	-0.0013	-0.0154	0.0094
0.387	| | |	0.001	0.3856	0.0269	1.0853	0.0641	-0.0284	0.0380	0.0230
1.017	| |** |	0.016	1.0172	0.0867	1.0925	0.3133	-0.2340	0.1373	0.2173
-0.363	| | |	0.003	-0.3610	0.1066	1.1836	-0.1247	0.0152	0.0598	-0.0041
-2.231	| **** | |	0.082	-2.2806	0.0903	0.8456	-0.7185	-0.1762	0.1585	0.0199
1.508	| |*** |	0.019	1.5189	0.0483	0.9672	0.3421	0.0824	-0.2770	0.0739
-0.162	| | |	0.001	-0.1617	0.1402	1.2381	-0.0653	0.0261	-0.0400	-0.0426
0.364	| | |	0.002	0.3627	0.0750	1.1430	0.1033	0.0146	-0.0477	-0.0249
-1.162	| ** | |	0.024	-1.1647	0.0966	1.0821	-0.3809	0.1692	-0.1589	0.2239
1.656	| |*** |	0.012	1.6714	0.0263	0.9169	0.2749	-0.0566	-0.0669	-0.0569
-0.542	| * | |	0.001	-0.5400	0.0261	1.0744	-0.0883	-0.0602	0.0340	-0.0077
-2.235	| **** | |	0.088	-2.2842	0.0954	0.8495	-0.7417	-0.0955	0.1236	-0.0691
1.190	| |** |	0.018	1.1929	0.0726	1.0496	0.3337	0.0076	0.0682	-0.2586
-0.072	| | |	0.000	-0.0714	0.0489	1.1207	-0.0162	-0.0077	0.0098	0.0021
1.060	| |** |	0.008	1.0610	0.0423	1.0359	0.2231	0.0337	0.0898	-0.0252
-0.349	| | |	0.001	-0.3470	0.0244	1.0845	-0.0549	0.0298	-0.0357	0.0043
0.910	| |* |	0.012	0.9093	0.0810	1.1002	0.2699	-0.1540	-0.0410	0.1207
1.557	| |*** |	0.008	1.5686	0.0203	0.9305	0.2255	0.0164	-0.0836	-0.0854
1.412	| |** |	0.041	1.4195	0.1105	1.0540	0.5003	-0.1282	0.2640	0.3304
1.217	| |** |	0.032	1.2201	0.1139	1.0939	0.4374	-0.0473	0.2525	0.0232
-0.689	| * | |	0.004	-0.6866	0.0496	1.0884	-0.1569	-0.0005	0.0173	-0.0350
1.182	| |** |	0.009	1.1845	0.0365	1.0116	0.2307	-0.0295	0.1231	-0.0738
-0.616	| * | |	0.003	-0.6135	0.0475	1.0927	-0.1371	0.0223	-0.0861	-0.0638
0.623	| |* |	0.004	0.6210	0.0640	1.1112	0.1623	0.1145	0.0071	-0.0870
-0.418	| | |	0.001	-0.4162	0.0288	1.0857	-0.0717	-0.0496	0.0307	-0.0054
0.829	| |* |	0.007	0.8280	0.0543	1.0789	0.1983	0.0499	-0.1219	-0.0629
0.299	| | |	0.001	0.2975	0.0520	1.1184	0.0697	0.0205	-0.0423	0.0255
0.585	| |* |	0.003	0.5833	0.0429	1.0899	0.1234	0.0759	-0.1007	0.0170
-0.503	| * | |	0.002	-0.5012	0.0407	1.0937	-0.1033	-0.0527	-0.0107	-0.0143
0.753	| |* |	0.004	0.7508	0.0402	1.0714	0.1537	0.0703	-0.0162	-0.0255
-1.928	| *** | |	0.048	-1.9569	0.0721	0.9020	-0.5455	0.3108	-0.3200	0.0765
0.088	| | |	0.000	0.0870	0.0808	1.1594	0.0258	0.0137	-0.0147	-0.0053
1.078	| |** |	0.007	1.0786	0.0362	1.0268	0.2091	-0.0173	-0.1147	0.0464
-0.521	| * | |	0.007	-0.5187	0.1308	1.2057	-0.2012	0.0575	-0.0559	0.1092
1.060	| |** |	0.007	1.0607	0.0368	1.0299	0.2073	-0.0554	0.1205	-0.0498
-0.908	| * | |	0.007	-0.9071	0.0515	1.0663	-0.2114	0.0235	-0.1437	0.1074
0.187	| | |	0.000	0.1858	0.0199	1.0855	0.0265	0.0101	0.0052	-0.0005
-0.075	| | |	0.000	-0.0748	0.0323	1.1014	-0.0137	0.0070	-0.0087	-0.0051

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics		
DFBETAS		
x9	x11	x12
-0.0006	0.0353	0.0166
-0.0126	0.0222	-0.0061
-0.0049	0.0023	-0.0175
0.1080	-0.0584	-0.1051
-0.0236	-0.0065	-0.0432
-0.2876	-0.1323	0.3257
-0.0416	0.1815	-0.0366
-0.0338	0.0373	0.0424
0.0614	-0.0149	0.0208
0.0449	-0.0479	-0.3054
-0.0920	0.1786	0.1254
0.0375	0.0002	0.0126
-0.3436	-0.1175	0.3889
-0.0053	0.0722	0.1743
0.0114	-0.0120	-0.0015
0.1414	-0.1816	-0.0309
-0.0002	0.0021	-0.0142
0.0991	0.0421	-0.0191
-0.0468	0.1261	0.0957
-0.1329	-0.0667	-0.2574
0.3112	-0.2707	-0.1764
0.0008	-0.0791	0.0759
0.0063	-0.1192	0.1140
-0.0436	0.0942	0.0637
0.0050	-0.0484	0.0030
0.0342	-0.0043	0.0086
0.0648	0.0108	0.0658
0.0298	-0.0043	-0.0299
0.0004	0.0220	-0.0298
0.0420	0.0301	0.0216
0.0598	-0.1035	0.0095
-0.0828	0.2066	-0.2888
-0.0203	0.0186	0.0039
0.0542	0.0490	-0.0014
0.1049	-0.0726	-0.1603
0.0497	-0.1218	0.0881
0.0198	0.0420	-0.0821
-0.0023	-0.0131	-0.0006
-0.0056	0.0035	0.0051

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
79	79	8.9	9.1257	0.1451	8.8375	9.4139	7.9781	10.2733	-0.2257	0.540
80	80	5.7	6.8033	0.1417	6.5220	7.0847	5.6574	7.9492	-1.1033	0.541
81	81	7.1	7.5309	0.1287	7.2755	7.7864	6.3911	8.6708	-0.4309	0.544
82	82	7.4	7.0385	0.0972	6.8455	7.2315	5.9110	8.1660	0.3615	0.551
83	83	6.6	6.1335	0.1110	5.9131	6.3539	5.0010	7.2660	0.4665	0.548
84	84	5.0	5.4052	0.1488	5.1097	5.7007	4.2558	6.5547	-0.4052	0.539
85	85	8.2	7.2992	0.1345	7.0323	7.5662	6.1568	8.4417	0.9008	0.543
86	86	5.2	5.7947	0.1042	5.5879	6.0016	4.6648	6.9246	-0.5947	0.550
87	87	5.2	4.6795	0.1711	4.3398	5.0193	3.5179	5.8412	0.5205	0.533
88	88	8.2	7.3311	0.1357	7.0617	7.6005	6.1881	8.4742	0.8689	0.543
89	89	7.3	7.0741	0.0842	6.9070	7.2413	5.9508	8.1975	0.2259	0.553
90	90	8.2	8.1668	0.1937	7.7821	8.5515	6.9913	9.3423	0.0332	0.525
91	91	7.4	7.2553	0.1239	7.0092	7.5013	6.1175	8.3930	0.1447	0.546
92	92	4.8	4.6096	0.1828	4.2466	4.9726	3.4410	5.7783	0.1904	0.529
93	93	7.6	7.4926	0.1579	7.1791	7.8060	6.3384	8.6468	0.1074	0.537
94	94	8.9	9.1895	0.1508	8.8901	9.4889	8.0390	10.3399	-0.2895	0.539
95	95	7.7	7.5418	0.1099	7.3237	7.7599	6.4098	8.6739	0.1582	0.549
96	96	7.3	7.1749	0.1329	6.9110	7.4388	6.0332	8.3167	0.1251	0.543
97	97	6.3	6.2439	0.0901	6.0650	6.4227	5.1187	7.3690	0.0561	0.552
98	98	5.4	5.0565	0.1841	4.6910	5.4220	3.8871	6.2259	0.3435	0.528
99	99	6.4	7.8012	0.1264	7.5502	8.0521	6.6623	8.9400	-1.4012	0.545
100	100	6.4	6.5922	0.1249	6.3443	6.8402	5.4541	7.7304	-0.1922	0.545

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	DFBETAS		
							Intercept	x6	x7
-0.418	| | |	0.002	-0.4159	0.0673	1.1306	-0.1117	0.0519	-0.0346	0.0523
-2.039	| **** | |	0.047	-2.0741	0.0641	0.8686	-0.5430	-0.1901	0.0999	0.3667
-0.792	| * | |	0.006	-0.7899	0.0529	1.0815	-0.1867	0.0165	-0.1219	0.0952
0.656	| | * |	0.002	0.6541	0.0302	1.0696	0.1154	0.0139	0.0033	-0.0363
0.851	| | * |	0.005	0.8495	0.0394	1.0597	0.1720	0.0748	0.0305	-0.0461
-0.751	| * | |	0.007	-0.7496	0.0708	1.1067	-0.2069	-0.1333	0.0064	0.0780
1.659	| | *** |	0.028	1.6745	0.0578	0.9469	0.4146	0.1275	-0.1243	-0.2568
-1.082	| ** | |	0.007	-1.0829	0.0347	1.0246	-0.2052	-0.0861	-0.0461	-0.0414
0.977	| | * |	0.016	0.9769	0.0935	1.1064	0.3138	0.2279	-0.2092	-0.0134
1.601	| | *** |	0.027	1.6145	0.0588	0.9598	0.4036	0.1188	-0.1164	-0.2461
0.408	| | |	0.001	0.4066	0.0226	1.0794	0.0619	-0.0155	0.0351	0.0205
0.063	| | |	0.000	0.0629	0.1199	1.2112	0.0232	-0.0066	-0.0088	0.0038
0.265	| | |	0.001	0.2639	0.0491	1.1163	0.0599	-0.0070	0.0150	-0.0106
0.360	| | |	0.003	0.3584	0.1068	1.1839	0.1239	0.0367	0.0070	0.0713
0.200	| | |	0.001	0.1991	0.0796	1.1556	0.0586	-0.0151	-0.0045	0.0168
-0.537	| * | |	0.004	-0.5353	0.0726	1.1288	-0.1498	0.0698	-0.0469	0.0665
0.288	| | |	0.001	0.2870	0.0386	1.1032	0.0575	-0.0168	0.0230	-0.0067
0.230	| | |	0.001	0.2290	0.0564	1.1262	0.0560	-0.0271	0.0156	0.0459
0.102	| | |	0.000	0.1011	0.0259	1.0939	0.0165	0.0074	0.0028	-0.0021
0.650	| | * |	0.009	0.6482	0.1083	1.1638	0.2258	0.0641	0.0025	0.0992
-2.571	| ***** | |	0.059	-2.6521	0.0510	0.7255	-0.6150	0.2836	-0.1077	-0.1251
-0.353	| | |	0.001	-0.3509	0.0498	1.1133	-0.0803	-0.0269	-0.0281	0.0399

Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

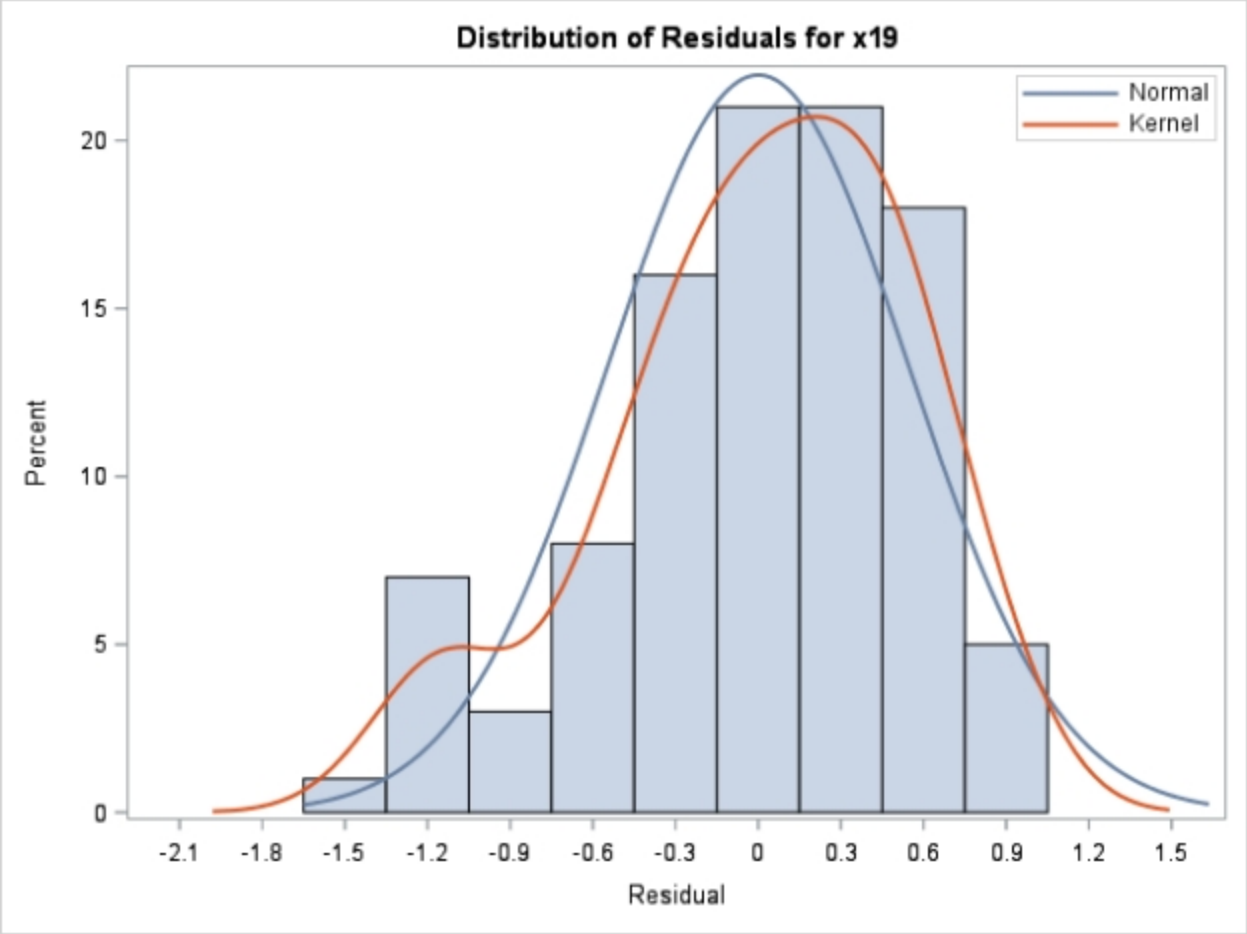
The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics		
DFBETAS		
x9	x11	x12
-0.0482	-0.0016	-0.0538
0.3035	-0.1111	-0.4220
0.0348	0.0260	-0.0761
-0.0653	0.0672	0.0240
-0.0967	0.0256	0.0031
0.0287	0.1046	-0.0535
0.0746	0.1311	0.0990
-0.0291	0.1369	0.0770
-0.2028	0.0983	0.0166
0.0900	0.1156	0.0909
0.0042	-0.0078	-0.0251
0.0035	0.0021	0.0071
-0.0454	0.0257	0.0232
-0.0451	-0.0306	-0.0606
-0.0301	0.0464	-0.0093
-0.0742	0.0052	-0.0664
-0.0348	0.0193	0.0208
-0.0036	-0.0009	-0.0254
0.0046	-0.0114	-0.0013
-0.1150	0.0650	-0.1364
0.1008	0.0399	-0.2284
-0.0247	0.0557	-0.0199

Sum of Residuals	0
Sum of Squared Residuals	29.42211
Predicted Residual SS (PRESS)	33.53338

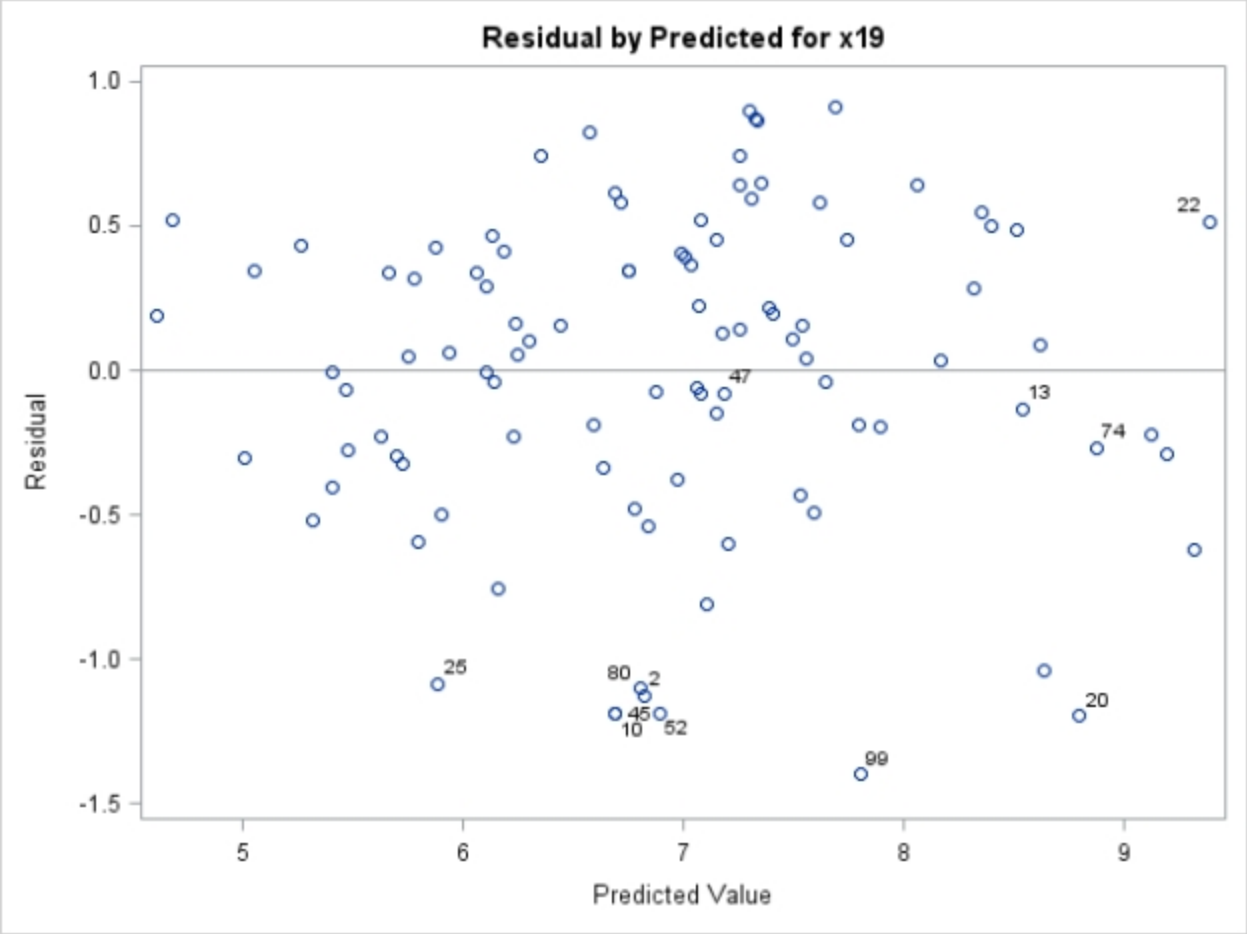
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



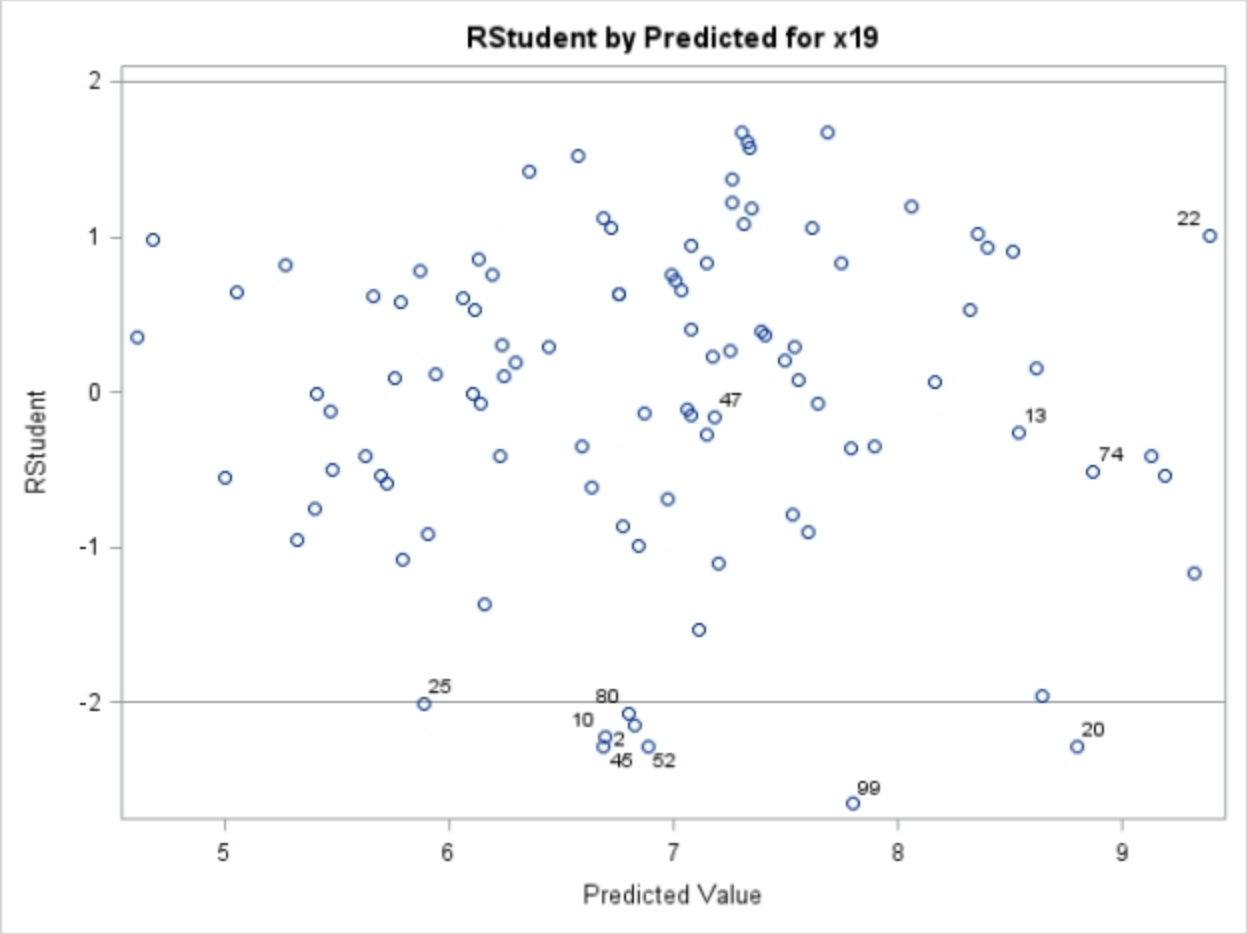
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



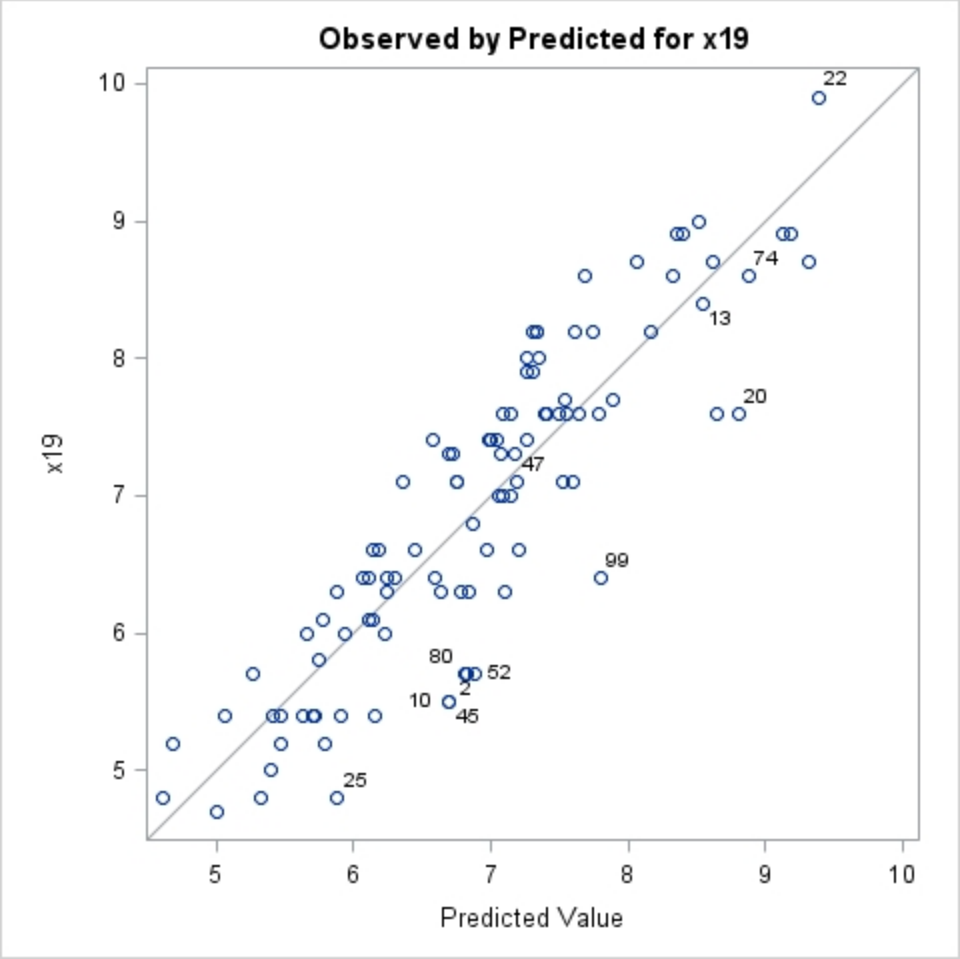
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



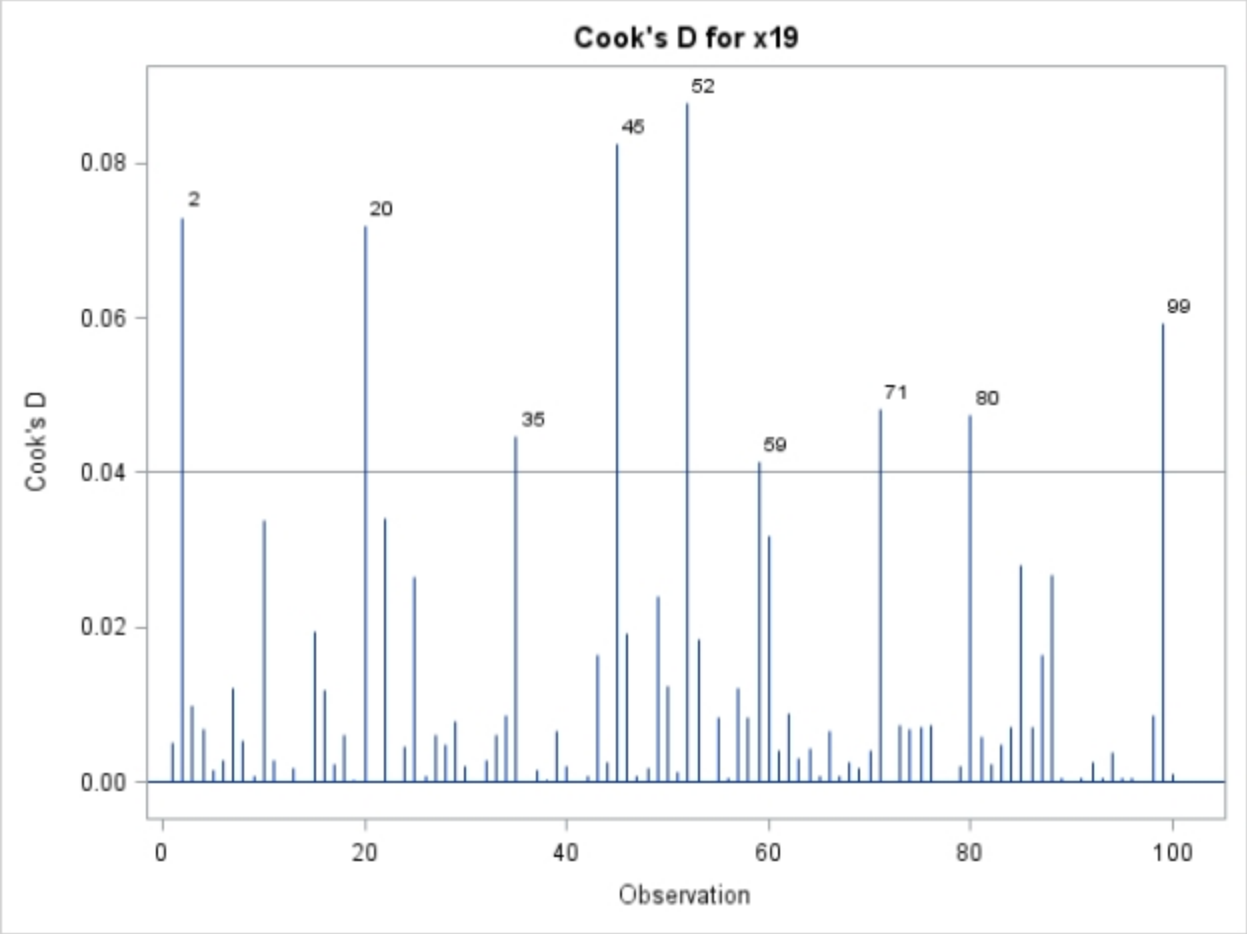
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



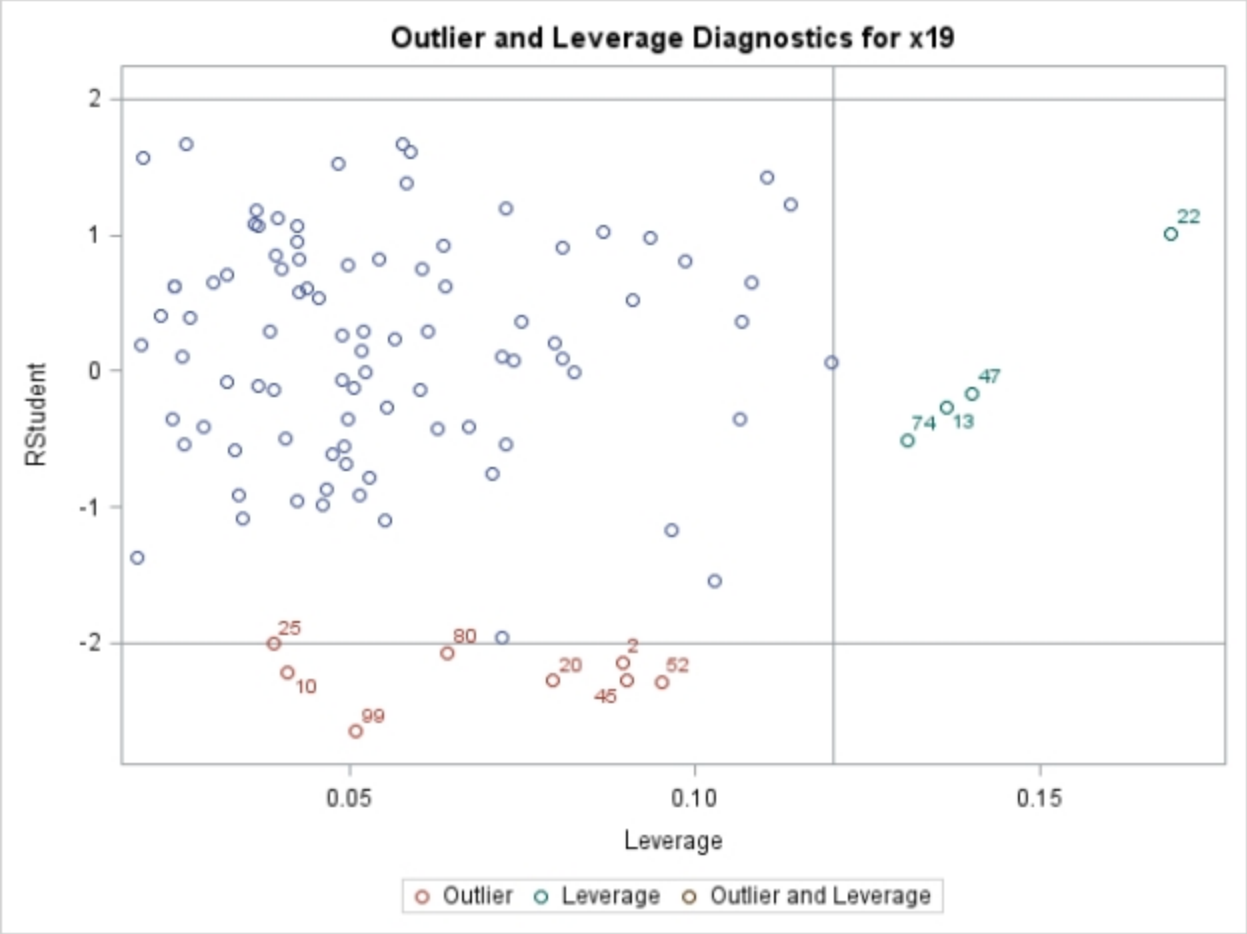
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



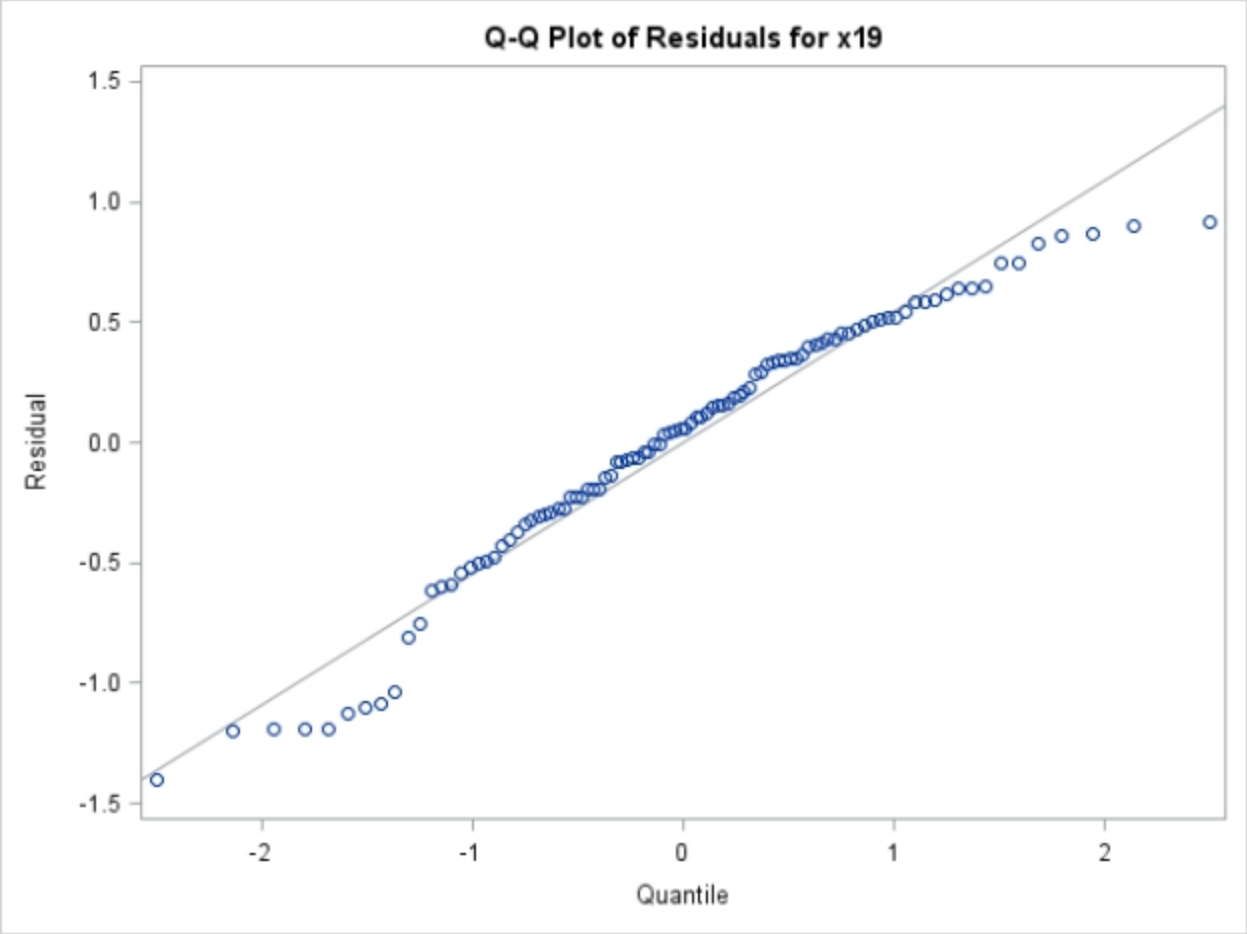
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



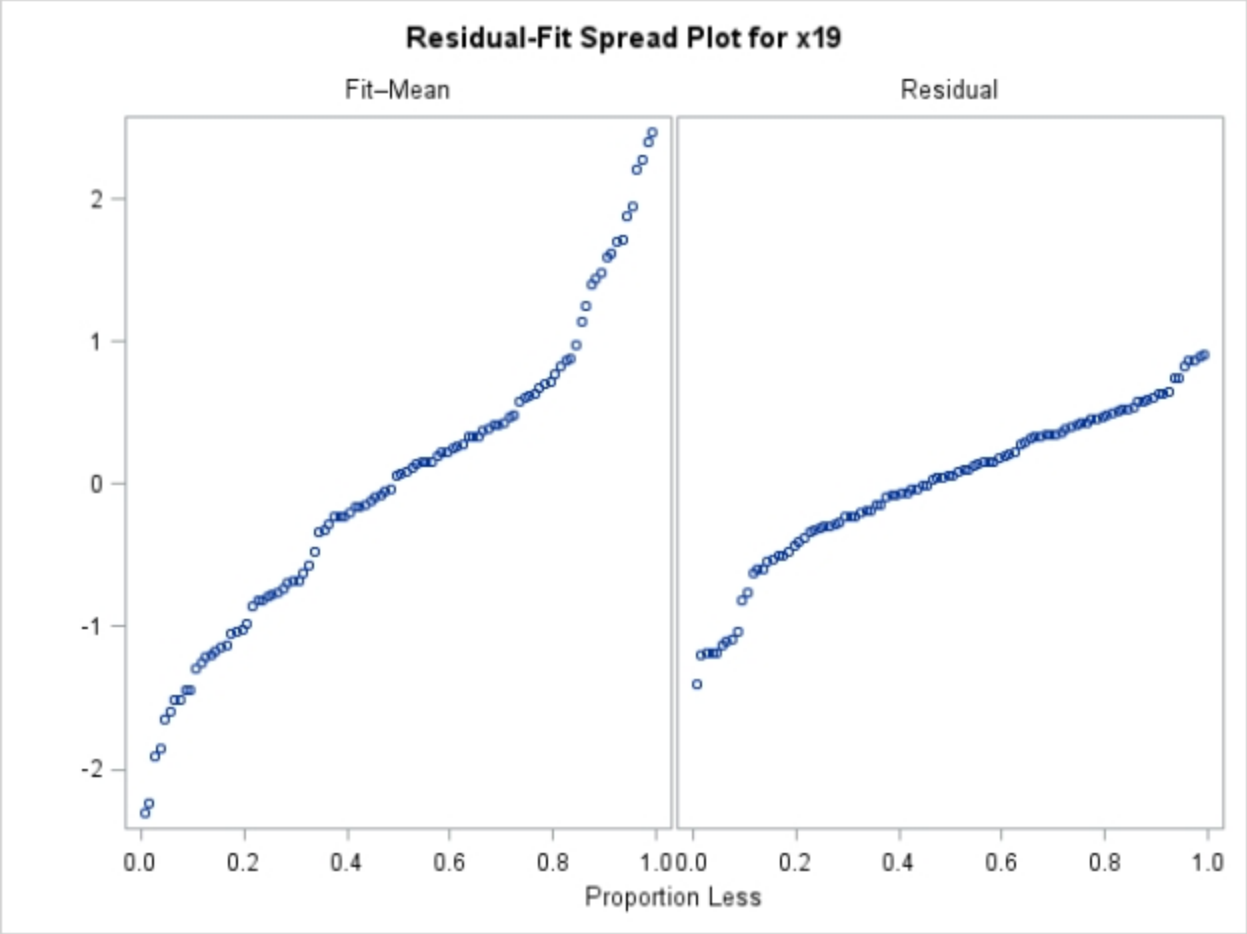
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

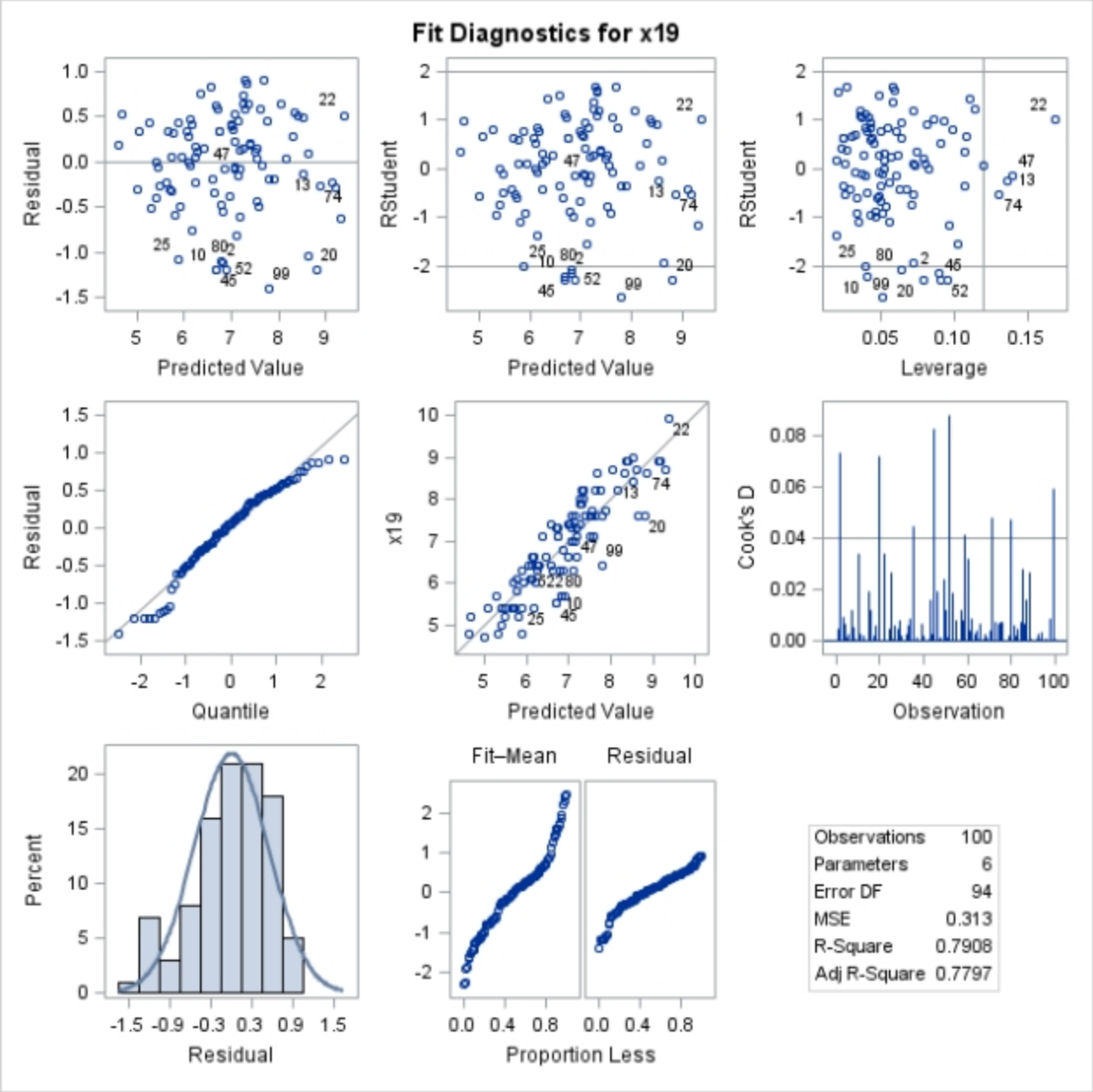


Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

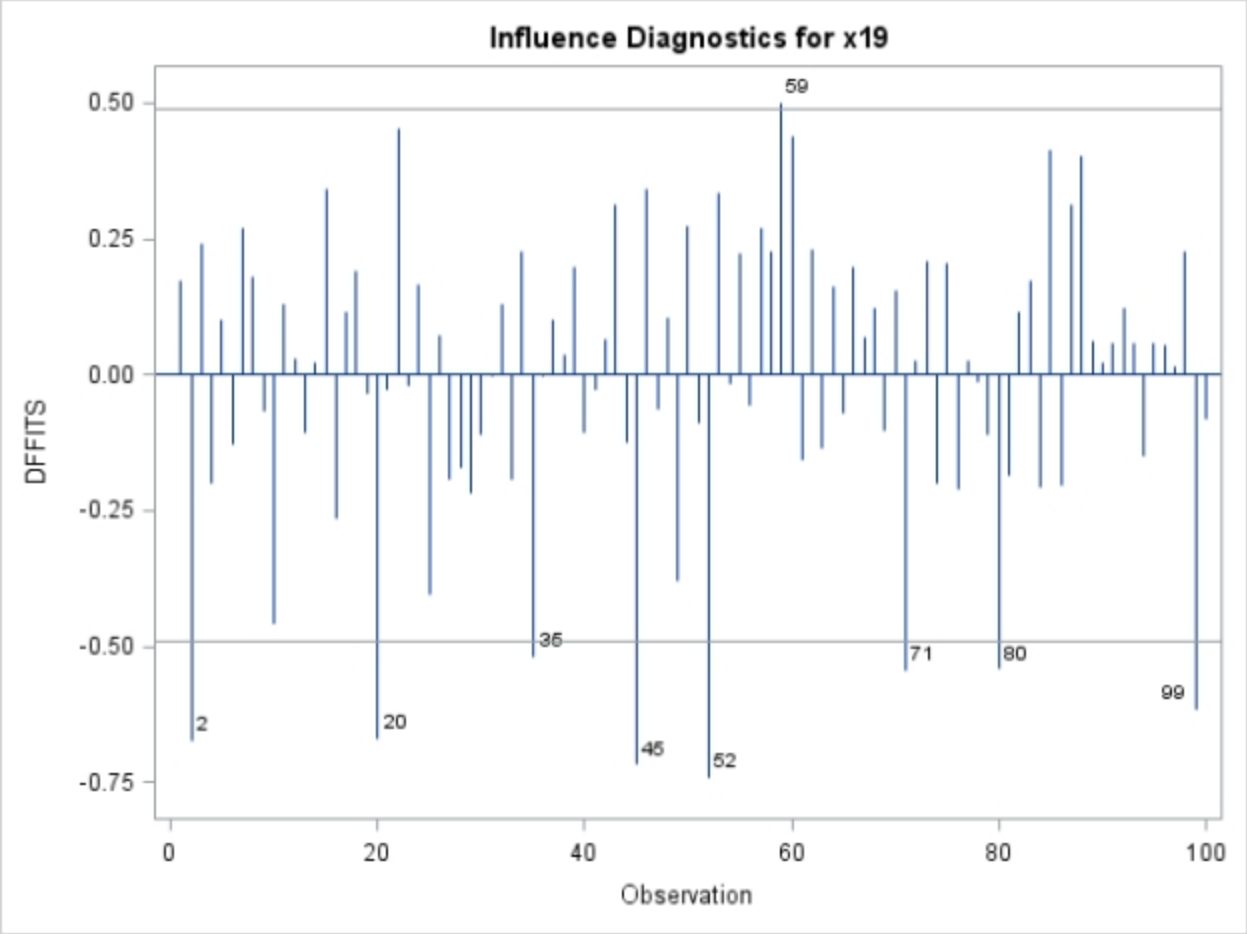
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



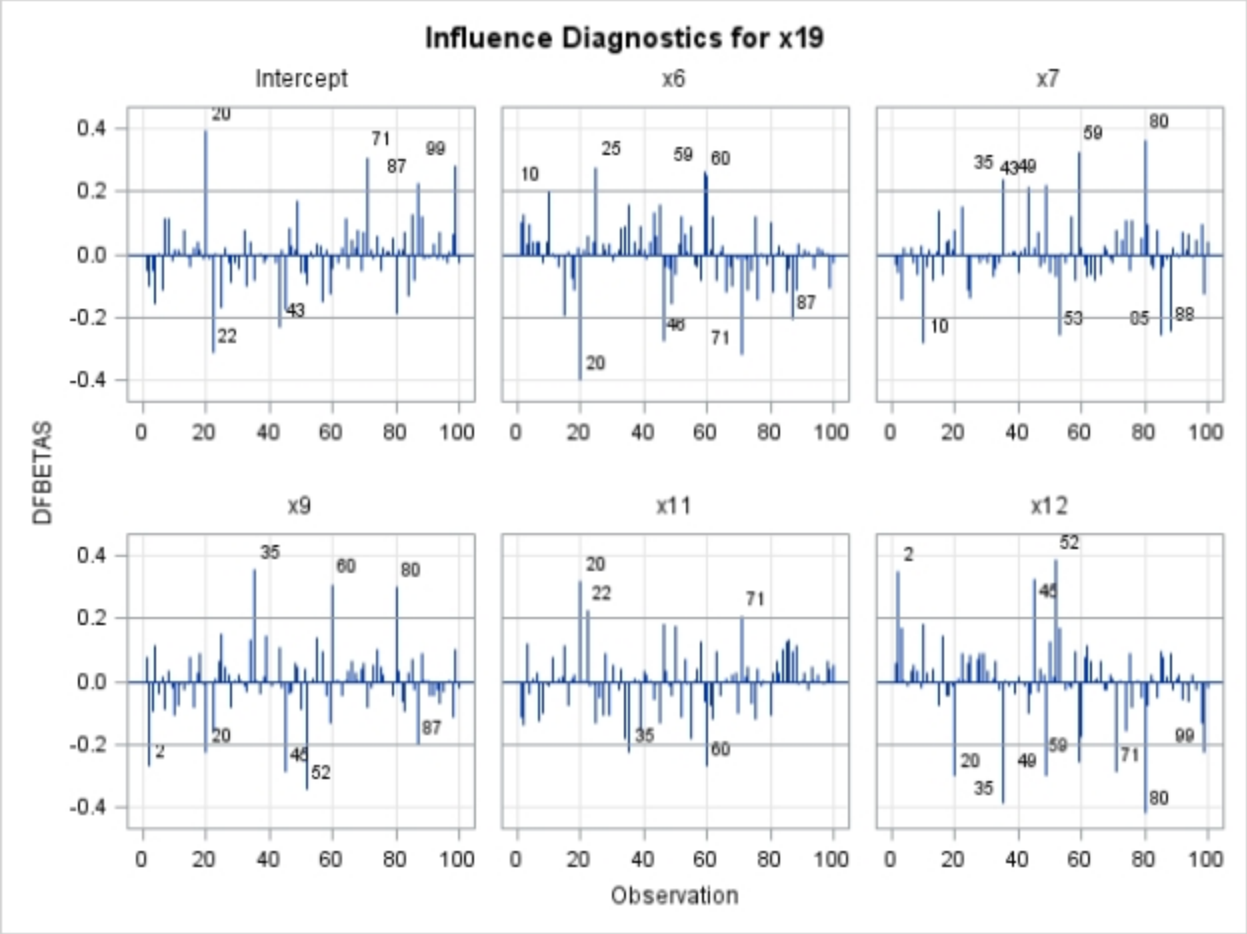
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



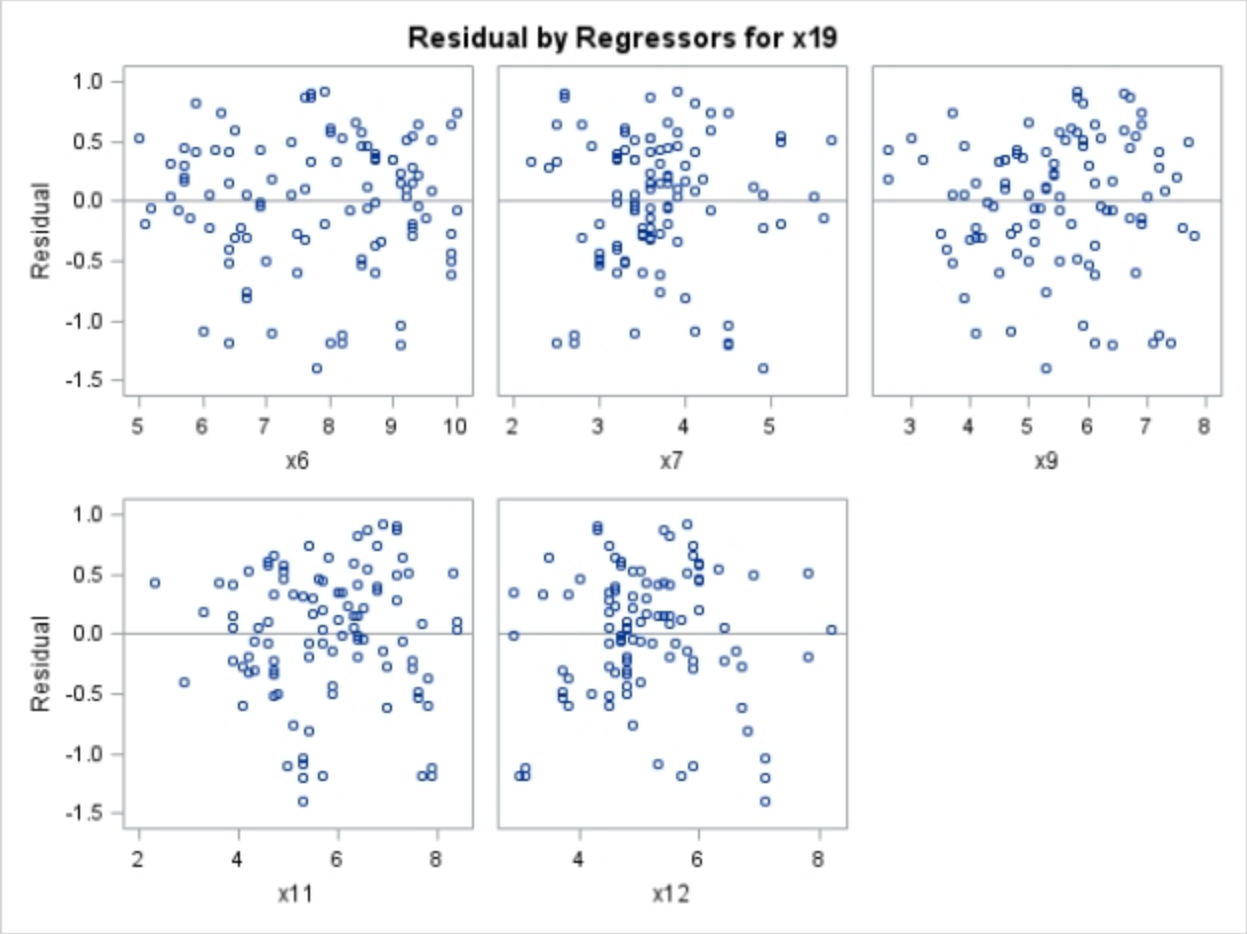
Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression: Reg Model 1 -- X6 to X18 -- STEPWISE

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure

Number of Observations Read	100
Number of Observations Used	100

Descriptive Statistics

Variable	Sum	Mean	Uncorrected SS	Variance	Standard Deviation
Intercept	100.00000	1.00000	100.00000	0	0
x6	781.00000	7.81000	6292.62000	1.94960	1.39628
x7	367.20000	3.67200	1396.94000	0.49072	0.70052
x8	536.50000	5.36500	3110.21000	2.34230	1.53046
x9	544.20000	5.44200	3106.10000	1.46024	1.20840
x10	401.00000	4.01000	1733.74000	1.27000	1.12694
x11	580.50000	5.80500	3541.07000	1.72997	1.31529
x12	512.30000	5.12300	2738.35000	1.14987	1.07232
x13	697.40000	6.97400	5100.00000	2.38720	1.54506
x14	604.30000	6.04300	3718.31000	0.67197	0.81974
x15	515.00000	5.15000	2872.94000	2.22919	1.49305
x16	427.80000	4.27800	1915.54000	0.86274	0.92884
x17	461.00000	4.61000	2269.20000	1.45444	1.20600
x18	388.60000	3.88600	1563.50000	0.53940	0.73444
x19	691.80000	6.91800	4926.50000	1.42048	1.19184

Correlation

Variable	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16
x6	1.0000	-0.1372	0.0956	0.1064	-0.0535	0.4775	-0.1518	-0.4013	0.0883	0.0270	0.1043
x7	-0.1372	1.0000	0.0009	0.1402	0.4299	-0.0527	0.7915	0.2295	0.0519	-0.0274	0.1561
x8	0.0956	0.0009	1.0000	0.0967	-0.0629	0.1926	0.0170	-0.2708	0.7972	-0.0736	0.0801
x9	0.1064	0.1402	0.0967	1.0000	0.1969	0.5614	0.2298	-0.1280	0.1404	0.0594	0.7569
x10	-0.0535	0.4299	-0.0629	0.1969	1.0000	-0.0116	0.5422	0.1342	0.0108	0.0842	0.1842
x11	0.4775	-0.0527	0.1926	0.5614	-0.0116	1.0000	-0.0613	-0.4949	0.2731	0.0462	0.4244
x12	-0.1518	0.7915	0.0170	0.2298	0.5422	-0.0613	1.0000	0.2646	0.1075	0.0316	0.1951
x13	-0.4013	0.2295	-0.2708	-0.1280	0.1342	-0.4949	0.2646	1.0000	-0.2450	0.0232	-0.1146
x14	0.0883	0.0519	0.7972	0.1404	0.0108	0.2731	0.1075	-0.2450	1.0000	0.0352	0.1971
x15	0.0270	-0.0274	-0.0736	0.0594	0.0842	0.0462	0.0316	0.0232	0.0352	1.0000	0.0685
x16	0.1043	0.1561	0.0801	0.7569	0.1842	0.4244	0.1951	-0.1146	0.1971	0.0685	1.0000
x17	-0.4931	0.2707	-0.1861	0.3945	0.3336	-0.3780	0.3522	0.4711	-0.1703	0.0941	0.4070
x18	0.0277	0.1916	0.0254	0.8651	0.2759	0.6019	0.2716	-0.0729	0.1094	0.1057	0.7510
x19	0.4863	0.2827	0.1126	0.6033	0.3047	0.5505	0.5002	-0.2083	0.1775	0.0709	0.5217

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure

Correlation		
x17	x18	x19
-0.4931	0.0277	0.4863
0.2707	0.1916	0.2827
-0.1861	0.0254	0.1126
0.3945	0.8651	0.6033
0.3336	0.2759	0.3047
-0.3780	0.6019	0.5505
0.3522	0.2716	0.5002
0.4711	-0.0729	-0.2083
-0.1703	0.1094	0.1775
0.0941	0.1057	0.0709
0.4070	0.7510	0.5217
1.0000	0.4967	0.0560
0.4967	1.0000	0.5770
0.0560	0.5770	1.0000

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Number of Observations Read	100
Number of Observations Used	100

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	113.04397	8.69569	27.11	<.0001
Error	86	27.58363	0.32074		
Corrected Total	99	140.62760			

Root MSE	0.56634	R-Square	0.8039
Dependent Mean	6.91800	Adj R-Sq	0.7742
Coeff Var	8.18646		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Heteroscedasticity Consistent			Type II SS	Standardized Estimate
						Standard Error	t Value	Pr > |t|		
Intercept	1	-1.33584	1.12031	-1.19	0.2364	0.99482	-1.34	0.1829	0.45602	0
x6	1	0.37742	0.05271	7.16	<.0001	0.04954	7.62	<.0001	16.44664	0.44216
x7	1	-0.45606	0.13651	-3.34	0.0012	0.11256	-4.05	0.0001	3.57999	-0.26806
x8	1	0.03520	0.06492	0.54	0.5891	0.05883	0.60	0.5511	0.09430	0.04520
x9	1	0.15429	0.10360	1.49	0.1401	0.09424	1.64	0.1052	0.71132	0.15643
x10	1	-0.03441	0.06283	-0.55	0.5853	0.05416	-0.64	0.5269	0.09623	-0.03254
x11	1	0.36239	0.26669	1.36	0.1778	0.14449	2.51	0.0140	0.59223	0.39992
x12	1	0.82738	0.10146	8.15	<.0001	0.10050	8.23	<.0001	21.32887	0.74441
x13	1	-0.04747	0.04820	-0.98	0.3275	0.03583	-1.32	0.1888	0.31100	-0.06153
x14	1	-0.10697	0.12553	-0.85	0.3965	0.10979	-0.97	0.3326	0.23289	-0.07357
x15	1	-0.00294	0.03953	-0.07	0.9409	0.03219	-0.09	0.9275	0.00177	-0.00368
x16	1	0.14306	0.10452	1.37	0.1746	0.10275	1.39	0.1674	0.60094	0.11150
x17	1	0.23793	0.27249	0.87	0.3850	0.15732	1.51	0.1341	0.24454	0.24075
x18	1	-0.24917	0.51410	-0.48	0.6291	0.28609	-0.87	0.3862	0.07534	-0.15354

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Parameter Estimates

Squared Semi-partial Corr Type II	Type II F Value	Type II Pr > F	Tolerance	Variance Inflation	95% Confidence Limits		Heteroscedasticity Consistent 95% Confidence Limits	
.	.	.	.	0	-3.56294	0.89126	-3.31347	0.64179
0.11695	51.28	<.0001	0.59820	1.67169	0.27264	0.48220	0.27895	0.47590
0.02546	11.16	0.0012	0.35429	2.82256	-0.72744	-0.18469	-0.67982	-0.23231
0.00067054	0.29	0.5891	0.32815	3.04740	-0.09386	0.16427	-0.08174	0.15215
0.00506	2.22	0.1401	0.20671	4.83774	-0.05167	0.36024	-0.03305	0.34162
0.00068427	0.30	0.5853	0.64624	1.54742	-0.15931	0.09049	-0.14209	0.07326
0.00421	1.85	0.1778	0.02633	37.97842	-0.16777	0.89255	0.07516	0.64962
0.15167	66.50	<.0001	0.27370	3.65361	0.62568	1.02907	0.62759	1.02717
0.00221	0.97	0.3275	0.58410	1.71202	-0.14329	0.04836	-0.11869	0.02376
0.00166	0.73	0.3965	0.30596	3.26841	-0.35652	0.14258	-0.32522	0.11128
0.00001260	0.01	0.9409	0.92985	1.07545	-0.08153	0.07565	-0.06694	0.06106
0.00427	1.87	0.1746	0.34375	2.90906	-0.06471	0.35084	-0.06119	0.34732
0.00174	0.76	0.3850	0.03000	33.33234	-0.30376	0.77961	-0.07481	0.55066
0.00053576	0.23	0.6291	0.02273	44.00376	-1.27117	0.77283	-0.81790	0.31957

Collinearity Diagnostics

Number	Eigenvalue	Condition Index	Proportion of Variation				
			Intercept	x6	x7	x8	x9
1	13.48216	1.00000	0.00001394	0.00009725	0.00006604	0.00012525	0.00005156
2	0.14409	9.67308	0.00001334	0.01060	0.00259	0.03085	0.00050385
3	0.09208	12.10019	0.00041375	0.00101	0.00365	0.05505	0.02016
4	0.08148	12.86311	0.00008985	0.00383	0.00479	0.03013	0.00064649
5	0.06430	14.48068	0.00004641	0.01862	0.00861	0.04919	0.00160
6	0.04786	16.78455	0.00278	0.06650	0.00400	0.06874	0.00070685
7	0.03102	20.84620	0.00128	0.04937	0.11341	0.00195	0.00112
8	0.01913	26.54570	0.00067655	0.30458	0.00963	0.00296	0.00738
9	0.01230	33.10879	0.00271	0.09199	0.00004180	0.00811	0.03567
10	0.00965	37.38604	0.03468	0.09823	0.11735	0.08344	0.26341
11	0.00724	43.15705	0.01059	0.00826	0.58949	0.18407	0.03142
12	0.00539	50.00918	0.04877	0.09004	0.04249	0.23702	0.63498
13	0.00292	67.90061	0.42679	0.25344	0.08463	0.24730	0.00005183
14	0.00037354	189.98195	0.47115	0.00343	0.01926	0.00107	0.00230

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Collinearity Diagnostics

Proportion of Variation

x10	x11	x12	x13	x14	x15	x16	x17
0.00024393	0.00000672	0.00006089	0.00014135	0.00002960	0.00036535	0.00008214	0.00000995
0.02709	0.00150	0.00383	0.02731	0.00153	0.00024732	0.00042172	0.00269
0.00151	0.00088316	0.00256	0.01847	0.00342	0.01762	0.02476	0.00077209
0.01633	0.00003461	0.00523	0.00134	0.00038889	0.66378	0.00066636	0.00006820
0.25373	0.00106	0.01008	0.02917	0.00150	0.00007952	0.00479	0.00530
0.17359	0.00086331	0.00000513	0.15184	0.00029012	0.17096	0.00112	0.00082242
0.39231	0.00011513	0.09119	0.04459	0.00025312	0.06205	0.00024148	0.00107
0.03067	0.01468	0.00090327	0.23687	0.00009430	0.00131	0.10759	0.00607
0.03480	0.00003470	0.00339	0.14935	0.01113	0.00384	0.72412	0.02202
0.00002905	0.00750	0.15524	0.18402	0.04781	0.03071	0.00013566	0.01151
0.03969	0.00008871	0.50012	0.05323	0.14808	0.03581	0.00020275	0.00059923
0.01910	0.00860	0.08209	0.03531	0.17288	0.00243	0.03981	0.00642
0.00090211	0.00320	0.07520	0.05749	0.61083	0.00025267	0.09327	0.00132
0.01002	0.96144	0.07010	0.01087	0.00177	0.01055	0.00277	0.94134

Collinearity Diagnostics

Proportion of Variation

x18
0.00000420
0.00000501
0.00115
0.00001014
0.00005019
0.00002510
0.00001907
0.00193
0.00288
0.00224
0.00015690
0.02259
0.01128
0.95767

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Collinearity Diagnostics (intercept adjusted)								
			Proportion of Variation					
Number	Eigenvalue	Condition Index	x6	x7	x8	x9	x10	x11
1	3.56707	1.00000	0.00001196	0.00593	0.00043913	0.01211	0.01180	0.00047044
2	2.99764	1.09085	0.02616	0.00792	0.00822	0.00104	0.00948	0.00156
3	1.73808	1.43259	0.00075347	0.02627	0.05205	0.00478	0.01245	0.00016291
4	1.28723	1.66467	0.10277	0.03224	0.03394	0.00168	0.05350	0.00096785
5	1.00524	1.88374	0.00149	0.00336	0.00006621	0.00152	0.01013	0.00002691
6	0.61861	2.40130	0.00274	0.08128	0.00146	0.00108	0.63670	0.00114
7	0.55143	2.54338	0.48103	0.02777	0.00984	0.00013345	0.02232	0.00099149
8	0.44699	2.82491	0.14774	0.02596	0.00033740	0.00093217	0.08822	0.01559
9	0.28074	3.56457	0.10751	0.00237	0.15340	0.07034	0.03663	0.00056777
10	0.20071	4.21573	0.00018480	0.56957	0.16519	0.02124	0.05667	0.00120
11	0.16620	4.63283	0.12880	0.03366	0.28235	0.22098	0.03004	0.00099847
12	0.13106	5.21702	0.00011183	0.15929	0.29055	0.65956	0.02043	0.00679
13	0.00901	19.90198	0.00070384	0.02438	0.00216	0.00459	0.01164	0.96953

Collinearity Diagnostics (intercept adjusted)						
Proportion of Variation						
x12	x13	x14	x15	x16	x17	x18
0.00650	0.00001114	0.00142	0.00112	0.01786	0.00065256	0.00146
0.00680	0.03641	0.00733	0.00004478	0.00119	0.00141	0.00004022
0.02026	0.00006658	0.04811	0.00483	0.00561	0.00038762	0.00061284
0.01858	0.01073	0.02477	0.00016851	0.00592	0.00279	0.00012427
0.00004670	0.00031504	0.00515	0.87055	0.00110	0.00000551	0.00003209
0.01698	0.12103	0.00000122	0.03201	0.00045964	0.00116	0.00001604
0.00407	0.41709	0.00637	0.01847	0.01182	0.00048176	0.00018471
0.00230	0.30498	0.00371	0.00426	0.12314	0.00532	0.00227
0.01511	0.03519	0.09520	0.00277	0.54704	0.00969	0.00331
0.59980	0.01607	0.10658	0.01455	0.00533	0.00042405	0.00050540
0.03504	0.03703	0.39155	0.03761	0.14426	0.02599	0.02035
0.19896	0.00040683	0.30407	0.00011178	0.13381	0.00104	0.01520
0.07556	0.02067	0.00576	0.01350	0.00248	0.95065	0.95589

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Heteroscedasticity Consistent Covariance of Estimates

Variable	Intercept	x6	x7	x8	x9	x10
Intercept	0.9896586964	-0.028041698	-0.005841726	0.0123988986	0.0311839361	0.0005513113
x6	-0.028041698	0.0024538475	-5.638319E-6	-0.000415828	-0.000626865	-0.000235285
x7	-0.005841726	-5.638319E-6	0.0126688672	-0.000649327	-0.000083879	0.0011641651
x8	0.0123988986	-0.000415828	-0.000649327	0.0034606504	-0.000335771	0.0002328461
x9	0.0311839361	-0.000626865	-0.000083879	-0.000335771	0.0088806443	0.0010481028
x10	0.0005513113	-0.000235285	0.0011641651	0.0002328461	0.0010481028	0.0029336692
x11	-0.078993451	-9.97117E-7	-0.003860123	0.0004564231	-0.004518022	-0.001310851
x12	-0.028522827	0.0010082904	-0.007897784	0.0002450534	-0.002202239	-0.002069767
x13	-0.01230483	-0.00019639	0.0000514646	0.0003455294	0.0001324453	0.0001992519
x14	-0.047870978	0.0013394359	0.000476473	-0.005490228	-0.001178819	-0.000376176
x15	-0.004465204	3.8349451E-7	-0.000289019	0.000349573	0.0000922828	0.0000315701
x16	-0.01611599	-0.000863514	-0.001106928	0.0012619033	-0.004718941	0.0003869066
x17	-0.106925224	0.0027829453	-0.003047232	-0.000496675	-0.005752996	-0.001782824
x18	0.1503931403	-0.001429955	0.0099292337	-0.000597615	0.0034148776	0.0010337206

Heteroscedasticity Consistent Covariance of Estimates

x11	x12	x13	x14	x15	x16
-0.078993451	-0.028522827	-0.01230483	-0.047870978	-0.004465204	-0.01611599
-9.97117E-7	0.0010082904	-0.00019639	0.0013394359	3.8349451E-7	-0.000863514
-0.003860123	-0.007897784	0.0000514646	0.000476473	-0.000289019	-0.001106928
0.0004564231	0.0002450534	0.0003455294	-0.005490228	0.000349573	0.0012619033
-0.004518022	-0.002202239	0.0001324453	-0.001178819	0.0000922828	-0.004718941
-0.001310851	-0.002069767	0.0001992519	-0.000376176	0.0000315701	0.0003869066
0.0208762085	0.0059445378	0.0007728545	-0.000557378	-0.000199213	0.0033275787
0.0059445378	0.0101004758	-0.000039775	-0.000089326	0.0004483035	0.0013445142
0.0007728545	-0.000039775	0.0012838445	-0.000046313	0.0000246471	0.0006734955
-0.000557378	-0.000089326	-0.000046313	0.0120530257	-0.000562594	-0.000885988
-0.000199213	0.0004483035	0.0000246471	-0.000562594	0.0010363884	0.0006016197
0.0033275787	0.0013445142	0.0006734955	-0.000885988	0.0006016197	0.010557282
0.0204259224	0.0060641498	0.0000379277	0.0019393109	-0.000504401	0.0017968474
-0.036681391	-0.013639656	-0.001492755	0.000339955	-0.000095595	-0.009999034

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Heteroscedasticity Consistent Covariance of Estimates	
x17	x18
-0.106925224	0.1503931403
0.0027829453	-0.001429955
-0.003047232	0.0099292337
-0.000496675	-0.000597615
-0.005752996	0.0034148776
-0.001782824	0.0010337206
0.0204259224	-0.036681391
0.0060641498	-0.013639656
0.0000379277	-0.001492755
0.0019393109	0.000339955
-0.000504401	-0.000095595
0.0017968474	-0.009999034
0.0247491321	-0.037454291
-0.037454291	0.0818499803

Test of First and Second Moment Specification		
DF	Chi-Square	Pr > ChiSq
101	99.09	0.5353

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics										
Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
1	1	8.2	7.8353	0.1916	7.4544	8.2163	6.6468	9.0239	0.3647	0.533
2	2	5.7	6.6372	0.2365	6.1670	7.1075	5.4171	7.8573	-0.9372	0.515
3	3	8.9	8.6543	0.2071	8.2426	9.0660	7.4555	9.8530	0.2457	0.527
4	4	4.8	5.3227	0.2228	4.8798	5.7657	4.1129	6.5326	-0.5227	0.521
5	5	7.1	6.8409	0.1507	6.5413	7.1404	5.6759	8.0059	0.2591	0.546
6	6	4.7	4.8982	0.2580	4.3853	5.4110	3.6610	6.1353	-0.1982	0.504
7	7	5.7	5.2453	0.2508	4.7467	5.7439	4.0140	6.4766	0.4547	0.508
8	8	6.3	6.0159	0.1679	5.6821	6.3497	4.8416	7.1902	0.2841	0.541
9	9	7.0	7.0834	0.1799	6.7257	7.4410	5.9021	8.2647	-0.0834	0.537
10	10	5.5	6.6463	0.1480	6.3520	6.9405	5.4826	7.8099	-1.1463	0.547
11	11	7.4	7.0302	0.1704	6.6915	7.3689	5.8545	8.2059	0.3698	0.540
12	12	6.0	5.8830	0.2006	5.4843	6.2818	4.6887	7.0774	0.1170	0.530
13	13	8.4	8.3437	0.2407	7.8651	8.8222	7.1203	9.5670	0.0563	0.513
14	14	7.6	7.4933	0.2158	7.0644	7.9222	6.2885	8.6981	0.1067	0.524
15	15	8.0	7.2014	0.1716	6.8602	7.5425	6.0250	8.3778	0.7986	0.540
16	16	6.6	7.0609	0.1965	6.6702	7.4516	5.8692	8.2526	-0.4609	0.531
17	17	6.4	6.1799	0.1886	5.8049	6.5549	4.9932	7.3666	0.2201	0.534
18	18	7.4	6.9940	0.1738	6.6484	7.3395	5.8163	8.1717	0.4060	0.539
19	19	6.8	6.9598	0.1897	6.5827	7.3369	5.7725	8.1471	-0.1598	0.534
20	20	7.6	8.7332	0.1970	8.3416	9.1248	7.5412	9.9252	-1.1332	0.531
21	21	5.4	5.1509	0.1995	4.7544	5.5474	3.9572	6.3445	0.2491	0.530
22	22	9.9	9.4533	0.2702	8.9161	9.9904	8.2059	10.7007	0.4467	0.498
23	23	7.0	7.3182	0.1832	6.9540	7.6825	6.1349	8.5015	-0.3182	0.536
24	24	8.6	8.4316	0.3290	7.7777	9.0856	7.1296	9.7336	0.1684	0.461
25	25	4.8	6.0061	0.1631	5.6818	6.3304	4.8345	7.1777	-1.2061	0.542
26	26	6.6	6.6714	0.2031	6.2676	7.0752	5.4753	7.8675	-0.0714	0.529
27	27	6.3	6.9071	0.1795	6.5502	7.2641	5.7261	8.0882	-0.6071	0.537
28	28	5.4	5.7554	0.1676	5.4223	6.0885	4.5813	6.9295	-0.3554	0.541
29	29	6.3	7.1241	0.1965	6.7335	7.5147	5.9324	8.3158	-0.8241	0.531
30	30	5.4	5.9641	0.2057	5.5551	6.3730	4.7662	7.1619	-0.5641	0.528
31	31	6.1	6.0028	0.2113	5.5827	6.4229	4.8011	7.2045	0.0972	0.525
32	32	6.4	5.8978	0.1737	5.5525	6.2431	4.7202	7.0754	0.5022	0.539
33	33	5.4	5.9374	0.2089	5.5220	6.3528	4.7374	7.1374	-0.5374	0.526
34	34	7.3	6.7801	0.2027	6.3771	7.1830	5.5843	7.9758	0.5199	0.529
35	35	6.3	7.0623	0.2408	6.5836	7.5411	5.8389	8.2857	-0.7623	0.513
36	36	5.4	5.4292	0.3502	4.7330	6.1253	4.1055	6.7529	-0.0292	0.445
37	37	7.1	6.6897	0.1167	6.4577	6.9217	5.5402	7.8392	0.4103	0.554
38	38	8.7	8.5898	0.1847	8.2226	8.9570	7.4056	9.7740	0.1102	0.535
39	39	7.6	7.1126	0.1958	6.7233	7.5018	5.9214	8.3038	0.4874	0.531

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	DFBETAS		
							Intercept	x6	x7
0.684	| * |	0.004	0.6821	0.1145	1.2324	0.2453	0.0501	0.0324	-0.0446
-1.821	| *** |	0.050	-1.8467	0.1744	0.8226	-0.8489	-0.2523	0.0432	-0.1076
0.466	| |	0.002	0.4640	0.1337	1.3124	0.1823	0.0266	0.0053	-0.0837
-1.004	| ** |	0.013	-1.0040	0.1548	1.1816	-0.4297	-0.0021	0.1261	0.0553
0.475	| |	0.001	0.4725	0.0708	1.2219	0.1304	0.0176	0.0319	0.0025
-0.393	| |	0.003	-0.3911	0.2075	1.4494	-0.2001	-0.0817	0.0432	-0.0044
0.895	| * |	0.014	0.8944	0.1961	1.2852	0.4418	0.1843	0.0399	-0.0422
0.525	| * |	0.002	0.5230	0.0879	1.2346	0.1624	0.0671	-0.0159	-0.0441
-0.155	| |	0.000	-0.1544	0.1009	1.3050	-0.0517	0.0117	0.0149	0.0183
-2.097	| **** |	0.023	-2.1400	0.0683	0.6064	-0.5794	0.0277	0.1407	-0.2644
0.685	| * |	0.003	0.6826	0.0905	1.1997	0.2153	0.0134	0.0280	-0.0231
0.221	| |	0.000	0.2196	0.1254	1.3362	0.0832	0.0279	-0.0154	0.0337
0.110	| |	0.000	0.1093	0.1807	1.4348	0.0513	-0.0179	0.0139	0.0359
0.204	| |	0.001	0.2027	0.1451	1.3686	0.0835	-0.0158	0.0040	0.0159
1.480	| **	0.016	1.4902	0.0918	0.9039	0.4738	-0.1307	-0.0990	0.1614
-0.868	| * |	0.007	-0.8665	0.1204	1.1841	-0.3206	0.0137	-0.0090	-0.0718
0.412	| |	0.002	0.4102	0.1110	1.2887	0.1449	-0.0117	-0.0305	0.0395
0.753	| * |	0.004	0.7514	0.0942	1.1853	0.2423	-0.0025	-0.1246	0.0452
-0.299	| |	0.001	-0.2979	0.1122	1.3075	-0.1059	-0.0075	0.0496	0.0453
-2.134	| **** |	0.045	-2.1803	0.1210	0.6255	-0.8089	0.3465	-0.4544	0.0414
0.470	| |	0.002	0.4679	0.1240	1.2972	0.1761	0.0321	-0.0726	0.0376
0.898	| * |	0.017	0.8965	0.2276	1.3368	0.4867	-0.0950	0.0124	0.1384
-0.594	| * |	0.003	-0.5916	0.1047	1.2421	-0.2023	-0.0104	0.0244	-0.0091
0.365	| |	0.005	0.3634	0.3374	1.7395	0.2593	-0.0207	0.0208	-0.0990
-2.224	| **** |	0.032	-2.2774	0.0830	0.5605	-0.6851	0.0125	0.2035	-0.1346
-0.135	| |	0.000	-0.1343	0.1286	1.3478	-0.0516	-0.0053	0.0051	0.0085
-1.130	| ** |	0.010	-1.1322	0.1005	1.0619	-0.3785	-0.0257	0.0638	-0.0183
-0.657	| * |	0.003	-0.6548	0.0875	1.2031	-0.2028	0.0078	-0.0031	-0.0359
-1.552	| *** |	0.024	-1.5645	0.1204	0.8999	-0.5788	-0.1259	0.1069	0.0081
-1.069	| ** |	0.012	-1.0699	0.1320	1.1252	-0.4171	-0.0486	-0.0200	-0.0342
0.185	| |	0.000	0.1839	0.1392	1.3609	0.0740	0.0229	-0.0324	-0.0034
0.932	| * |	0.006	0.9310	0.0941	1.1281	0.3000	0.0601	0.0282	-0.0795
-1.021	| ** |	0.012	-1.0212	0.1361	1.1495	-0.4054	-0.0418	0.1062	-0.0210
0.983	| * |	0.010	0.9830	0.1281	1.1532	0.3768	-0.1053	0.1356	-0.0586
-1.487	| ** |	0.035	-1.4979	0.1808	0.9984	-0.7037	0.0989	0.0269	0.2202
-0.066	| |	0.000	-0.0651	0.3823	1.9057	-0.0512	0.0223	0.0000	-0.0084
0.740	| * |	0.002	0.7385	0.0425	1.1248	0.1555	0.0224	0.0515	0.0128
0.206	| |	0.000	0.2047	0.1064	1.3090	0.0706	-0.0194	0.0260	0.0125
0.917	| * |	0.008	0.9163	0.1195	1.1658	0.3376	-0.1152	0.1317	0.0059

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

DFBETAS

x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18
-0.0730	0.0582	0.0203	-0.0062	0.0742	-0.0565	-0.0309	-0.0465	0.0855	0.0029	-0.0373
0.0148	-0.2800	-0.0937	0.1983	0.3743	0.0512	0.0238	0.1391	0.4782	0.2006	-0.2739
0.0182	-0.0938	0.0478	-0.0012	0.0763	-0.0563	-0.0345	-0.0292	0.0772	-0.0109	0.0199
-0.0641	0.1283	-0.1753	-0.0217	0.0609	-0.1862	-0.0362	0.1083	-0.2115	0.0180	0.0263
-0.0138	-0.0456	-0.0697	-0.0296	0.0080	0.0215	0.0085	-0.0150	0.0529	-0.0331	0.0329
0.0220	-0.0003	-0.0427	0.0930	0.0622	-0.0433	0.0012	-0.1371	-0.0131	0.0977	-0.0875
0.1120	-0.0274	-0.1723	-0.0969	0.1237	0.0321	-0.1412	-0.1172	-0.0339	-0.0726	0.0681
-0.0355	-0.0270	0.0225	-0.0383	0.0154	-0.0727	0.0126	-0.0211	0.0168	-0.0106	0.0275
-0.0010	-0.0098	0.0134	-0.0192	-0.0183	-0.0170	0.0010	0.0119	0.0121	-0.0171	0.0155
-0.1853	-0.0831	-0.0637	-0.0673	0.1725	-0.1042	0.2114	-0.0530	0.1840	-0.0536	0.0218
-0.0119	-0.0787	-0.0879	-0.0324	0.0273	0.0241	-0.0062	0.1110	-0.0304	-0.0440	0.0695
0.0344	-0.0094	-0.0011	-0.0312	-0.0078	0.0022	-0.0262	0.0254	-0.0135	-0.0302	0.0317
-0.0200	0.0182	0.0022	-0.0055	-0.0193	0.0083	0.0191	0.0009	-0.0046	-0.0058	0.0018
-0.0156	-0.0176	-0.0282	0.0060	-0.0053	0.0322	0.0182	-0.0319	0.0041	-0.0066	0.0068
-0.0641	-0.0043	-0.0348	0.0367	-0.1130	0.1439	0.0673	-0.0051	-0.1489	0.0188	0.0477
0.1941	-0.1223	0.0277	-0.0158	0.1104	0.0852	-0.1527	0.0345	0.1467	-0.0186	0.0093
0.0060	-0.0063	-0.0484	0.0186	-0.0230	-0.0623	0.0245	0.0046	-0.0587	0.0374	-0.0071
0.0212	0.0570	-0.0544	-0.0023	-0.0261	0.0796	-0.0216	0.0720	0.0783	-0.0249	-0.0007
-0.0413	0.0021	0.0190	-0.0232	-0.0417	-0.0354	0.0517	-0.0220	-0.0303	-0.0127	0.0181
0.3225	-0.1551	0.0605	0.0042	-0.2275	-0.0158	-0.2471	-0.1360	0.2467	-0.0963	0.0338
-0.0099	0.0855	0.0233	-0.0487	-0.0572	0.0366	0.0640	-0.0048	-0.0601	-0.0467	0.0290
0.1308	-0.0522	-0.0108	0.1179	0.1224	-0.1315	-0.1465	0.1148	-0.0236	0.0715	-0.0847
-0.0821	0.0959	0.0232	-0.0436	-0.0177	0.1000	0.0629	-0.0451	-0.0677	-0.0344	0.0247
-0.1587	0.0239	-0.0755	0.0115	0.0719	-0.0001	0.1138	-0.0584	0.1004	0.0099	-0.0297
0.1498	0.3599	0.1592	0.0024	0.0744	-0.0665	-0.2089	0.2213	-0.2091	0.0085	-0.0815
-0.0171	-0.0030	0.0023	-0.0042	-0.0068	0.0108	0.0129	0.0123	-0.0255	-0.0105	0.0123
-0.1092	0.1176	-0.1085	0.0186	0.1316	0.0330	0.0401	-0.1300	-0.1418	0.0456	-0.0511
0.0531	-0.0579	0.0578	0.0619	0.0755	-0.0953	-0.0895	-0.0373	0.0115	0.0507	-0.0451
-0.1704	0.1839	0.1743	-0.0362	0.0180	0.0893	0.2410	-0.1314	-0.3408	0.0130	-0.0040
0.0193	0.1835	-0.1346	0.0270	0.0924	0.0177	0.0698	-0.1462	-0.2084	0.0102	-0.0208
0.0109	-0.0103	0.0281	-0.0133	-0.0082	-0.0044	0.0120	-0.0195	0.0052	-0.0211	0.0155
0.0416	0.0667	-0.0740	-0.0766	0.0078	0.0208	0.0449	0.0829	-0.1042	-0.0615	0.0567
-0.2003	-0.1289	-0.2202	-0.0154	0.1022	-0.2053	0.1584	0.0295	0.0232	0.0264	0.0377
0.1162	-0.0538	0.1557	0.0592	-0.0682	0.0824	-0.0498	-0.1249	0.0120	0.1061	-0.0557
0.0375	0.2041	0.3515	-0.1428	-0.4386	-0.0264	-0.0515	-0.0652	0.2738	-0.1230	0.0421
-0.0048	-0.0068	-0.0048	-0.0396	0.0093	0.0066	0.0038	-0.0060	0.0020	-0.0382	0.0426
-0.0085	-0.0347	0.0336	-0.0636	-0.0468	0.0435	0.0348	-0.0381	0.0009	-0.0674	0.0698
0.0175	0.0090	-0.0318	-0.0013	0.0011	0.0289	-0.0139	-0.0084	-0.0044	-0.0039	0.0069
0.0102	0.0118	0.1348	0.0334	-0.0914	0.0684	-0.0239	0.0904	-0.0409	0.0742	-0.0345

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
40	40	6.0	6.1685	0.2381	5.6950	6.6419	4.9471	7.3898	-0.1685	0.514
41	41	7.0	7.2644	0.2421	6.7832	7.7455	6.0400	8.4887	-0.2644	0.512
42	42	7.6	7.4462	0.1846	7.0791	7.8133	6.2620	8.6304	0.1538	0.535
43	43	8.9	8.2363	0.2117	7.8155	8.6571	7.0344	9.4382	0.6637	0.525
44	44	7.6	7.8322	0.2520	7.3313	8.3331	6.6000	9.0644	-0.2322	0.507
45	45	5.5	6.5925	0.2160	6.1630	7.0219	5.3875	7.7974	-1.0925	0.524
46	46	7.4	6.6319	0.1846	6.2650	6.9988	5.4478	7.8160	0.7681	0.535
47	47	7.1	7.1665	0.2763	6.6172	7.7159	5.9138	8.4193	-0.0665	0.494
48	48	7.6	7.5745	0.2131	7.1507	7.9982	6.3715	8.7774	0.0255	0.525
49	49	8.7	9.2262	0.2261	8.7768	9.6755	8.0139	10.4384	-0.5262	0.519
50	50	8.6	7.7858	0.1737	7.4404	8.1311	6.6081	8.9634	0.8142	0.539
51	51	5.4	5.7285	0.1700	5.3905	6.0664	4.5530	6.9039	-0.3285	0.540
52	52	5.7	6.7472	0.2224	6.3052	7.1892	5.5377	7.9567	-1.0472	0.521
53	53	8.7	8.1439	0.2275	7.6916	8.5962	6.9306	9.3572	0.5561	0.519
54	54	6.1	6.0253	0.1620	5.7033	6.3473	4.8543	7.1963	0.0747	0.543
55	55	7.3	6.8853	0.1802	6.5270	7.2436	5.7038	8.0668	0.4147	0.537
56	56	7.7	7.7463	0.1711	7.4062	8.0863	6.5702	8.9223	-0.0463	0.540
57	57	9.0	8.4809	0.2236	8.0364	8.9254	7.2705	9.6913	0.5191	0.520
58	58	8.2	7.2805	0.1879	6.9069	7.6541	6.0943	8.4667	0.9195	0.534
59	59	7.1	6.4690	0.2940	5.8844	7.0535	5.2004	7.7375	0.6310	0.484
60	60	7.9	7.3801	0.2397	6.9036	7.8566	6.1576	8.6027	0.5199	0.513
61	61	6.6	7.1627	0.1860	6.7930	7.5325	5.9777	8.3477	-0.5627	0.535
62	62	8.0	7.3416	0.2433	6.8580	7.8253	6.1163	8.5670	0.6584	0.511
63	63	6.3	6.6100	0.2308	6.1513	7.0688	5.3943	7.8257	-0.3100	0.517
64	64	6.0	5.5287	0.1887	5.1535	5.9039	4.3420	6.7154	0.4713	0.534
65	65	5.4	5.4672	0.1683	5.1325	5.8018	4.2926	6.6417	-0.0672	0.541
66	66	7.6	7.2154	0.1904	6.8369	7.5940	6.0277	8.4032	0.3846	0.533
67	67	6.4	6.3304	0.2140	5.9051	6.7558	5.1269	7.5340	0.0696	0.524
68	68	6.1	5.9629	0.1914	5.5825	6.3433	4.7746	7.1513	0.1371	0.533
69	69	5.2	5.7699	0.1849	5.4022	6.1375	4.5855	6.9542	-0.5699	0.535
70	70	6.6	6.3764	0.1819	6.0148	6.7379	5.1939	7.5588	0.2236	0.536
71	71	7.6	8.7023	0.2065	8.2918	9.1128	7.5039	9.9006	-1.1023	0.527
72	72	5.8	5.7112	0.2517	5.2108	6.2115	4.4791	6.9432	0.0888	0.507
73	73	7.9	7.2034	0.2080	6.7899	7.6169	6.0040	8.4028	0.6966	0.527
74	74	8.6	8.9071	0.2325	8.4449	9.3693	7.6901	10.1241	-0.3071	0.516
75	75	8.2	7.6746	0.1373	7.4017	7.9475	6.5161	8.8330	0.5254	0.549
76	76	7.1	7.4509	0.2589	6.9363	7.9655	6.2130	8.6888	-0.3509	0.504
77	77	6.4	6.3250	0.2330	5.8619	6.7882	5.1077	7.5424	0.0750	0.516
78	78	7.6	7.4027	0.2302	6.9451	7.8603	6.1874	8.6180	0.1973	0.517

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics									
							DFBETAS		
Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	Intercept	x6	x7
-0.328	| | |	0.002	-0.3262	0.1768	1.4061	-0.1512	-0.0631	0.0527	-0.0533
-0.516	| * | |	0.004	-0.5141	0.1827	1.3799	-0.2430	-0.0245	-0.0682	0.0655
0.287	| | |	0.001	0.2857	0.1063	1.3004	0.0985	-0.0259	0.0365	0.0109
1.264	| |** |	0.019	1.2680	0.1397	1.0532	0.5110	-0.0290	0.1038	0.2612
-0.458	| | |	0.004	-0.4557	0.1979	1.4192	-0.2264	0.0266	0.0765	-0.0093
-2.087	| **** | |	0.053	-2.1292	0.1455	0.6660	-0.8786	-0.3594	0.1660	0.0048
1.435	| |** |	0.017	1.4436	0.1062	0.9389	0.4976	-0.0379	-0.2159	0.0526
-0.135	| | |	0.000	-0.1339	0.2381	1.5414	-0.0748	-0.0123	-0.0228	-0.0403
0.049	| | |	0.000	0.0484	0.1416	1.3718	0.0197	-0.0018	-0.0064	-0.0050
-1.013	| ** | |	0.014	-1.0134	0.1593	1.1843	-0.4412	0.0582	-0.0832	0.1864
1.511	| |*** |	0.017	1.5221	0.0941	0.8923	0.4905	0.1746	-0.0766	-0.0660
-0.608	| * | |	0.003	-0.6058	0.0901	1.2188	-0.1906	-0.0892	0.0923	-0.0012
-2.010	| **** | |	0.053	-2.0475	0.1541	0.7098	-0.8740	-0.2857	0.0860	-0.1278
1.072	| |** |	0.016	1.0733	0.1614	1.1633	0.4709	-0.1278	0.1189	-0.2208
0.138	| | |	0.000	0.1369	0.0818	1.2789	0.0409	0.0228	-0.0225	-0.0008
0.772	| |* |	0.005	0.7706	0.1013	1.1889	0.2587	-0.0806	0.1185	-0.0420
-0.086	| | |	0.000	-0.0852	0.0912	1.2946	-0.0270	0.0062	-0.0040	0.0014
0.998	| |* |	0.013	0.9976	0.1559	1.1856	0.4286	-0.2497	0.0241	0.1391
1.721	| |*** |	0.026	1.7413	0.1101	0.8104	0.6126	0.1662	-0.2059	-0.0464
1.304	| |** |	0.045	1.3091	0.2696	1.2194	0.7953	0.0089	0.3392	0.3830
1.013	| |** |	0.016	1.0133	0.1791	1.2129	0.4734	-0.0082	0.1529	0.0169
-1.052	| ** | |	0.010	-1.0526	0.1079	1.1014	-0.3660	0.0509	0.0048	-0.0337
1.287	| |** |	0.027	1.2923	0.1845	1.1000	0.6147	0.1211	0.1639	-0.0861
-0.599	| * | |	0.005	-0.5972	0.1660	1.3320	-0.2665	-0.0986	0.0021	-0.0744
0.883	| |* |	0.007	0.8815	0.1110	1.1665	0.3116	0.1765	-0.0562	-0.1131
-0.124	| | |	0.000	-0.1235	0.0884	1.2888	-0.0384	-0.0121	0.0163	-0.0022
0.721	| |* |	0.005	0.7190	0.1130	1.2200	0.2567	-0.0222	-0.0447	-0.0596
0.133	| | |	0.000	0.1319	0.1428	1.3701	0.0538	-0.0081	-0.0122	0.0140
0.257	| | |	0.001	0.2557	0.1142	1.3155	0.0918	0.0284	-0.0355	0.0022
-1.065	| ** | |	0.010	-1.0655	0.1066	1.0950	-0.3681	-0.0208	-0.0830	-0.0092
0.417	| | |	0.001	0.4150	0.1031	1.2766	0.1407	0.0126	-0.0013	-0.0172
-2.090	| **** | |	0.048	-2.1329	0.1329	0.6547	-0.8351	0.4588	-0.4238	0.0984
0.175	| | |	0.001	0.1741	0.1975	1.4605	0.0864	0.0364	-0.0376	-0.0128
1.322	| |** |	0.019	1.3283	0.1349	1.0212	0.5245	0.0298	-0.1893	0.0502
-0.595	| * | |	0.005	-0.5924	0.1685	1.3373	-0.2667	0.0782	-0.0777	0.1345
0.956	| |* |	0.004	0.9558	0.0588	1.0775	0.2388	0.0156	0.0832	-0.0610
-0.697	| * | |	0.009	-0.6945	0.2089	1.3756	-0.3569	0.0659	-0.1557	0.0487
0.145	| | |	0.000	0.1444	0.1692	1.4129	0.0652	-0.0211	0.0165	0.0039
0.381	| | |	0.002	0.3794	0.1652	1.3779	0.1688	-0.0833	0.0676	0.0241

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

DFBETAS

x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18
0.0275	-0.0313	-0.0299	0.0612	0.0225	-0.0038	0.0096	-0.0557	-0.0544	0.0683	-0.0367
-0.0442	0.0287	0.0660	-0.0179	-0.0699	-0.0487	0.1051	0.1297	-0.0485	-0.0282	0.0167
0.0449	-0.0207	-0.0096	0.0236	-0.0045	0.0425	-0.0570	0.0237	-0.0013	0.0179	-0.0116
0.0781	0.1954	0.1766	-0.0240	-0.1446	0.0720	-0.1617	-0.0612	-0.0477	-0.0455	-0.0068
0.0336	-0.0486	0.0660	-0.0474	-0.0855	0.1121	-0.0518	0.0044	0.0291	-0.0610	0.0609
-0.0698	-0.2951	-0.1892	0.1203	0.3270	0.0717	0.2057	0.1611	0.2693	0.1591	-0.1663
0.0551	-0.1780	0.2487	0.0155	-0.1405	0.1574	-0.0013	-0.0295	0.1255	-0.0331	0.0604
0.0020	-0.0292	0.0099	0.0263	0.0297	0.0277	-0.0088	0.0068	-0.0027	0.0165	-0.0119
0.0062	-0.0010	0.0059	0.0020	0.0016	0.0026	-0.0033	-0.0021	0.0092	0.0021	-0.0021
0.1399	-0.0888	0.0732	-0.0265	-0.2762	-0.0256	-0.0442	-0.1251	-0.0225	0.0085	0.0519
-0.0053	-0.0548	-0.0143	0.0373	0.1700	-0.2820	-0.1471	-0.1647	-0.0867	0.0211	0.0103
-0.0807	-0.0058	-0.0063	0.0116	-0.0087	-0.0205	0.0927	-0.0412	-0.1053	0.0349	0.0134
0.2542	-0.3465	0.0714	0.2332	0.3593	0.0820	-0.0885	0.0175	0.3380	0.2442	-0.2726
-0.0647	-0.0826	-0.1274	0.0710	0.1578	-0.0105	0.0575	0.2590	-0.0383	0.0780	-0.0265
-0.0073	0.0001	-0.0008	-0.0088	0.0016	-0.0109	0.0062	-0.0038	-0.0078	-0.0140	0.0105
-0.0433	-0.0347	-0.0934	0.0600	0.0180	0.0244	0.0185	-0.0823	0.0189	0.1032	-0.0603
-0.0115	-0.0101	0.0013	-0.0042	-0.0052	-0.0106	0.0069	-0.0071	-0.0021	-0.0013	0.0072
-0.0617	0.0243	-0.1038	0.0773	-0.0210	0.1655	0.0750	0.1293	-0.0291	0.0645	-0.0378
-0.2281	0.0996	0.3048	-0.1189	-0.0146	-0.2816	0.2001	0.1323	0.0278	-0.1425	0.0765
-0.2619	-0.2496	0.0221	-0.2213	-0.3238	-0.3696	0.3246	-0.0894	-0.1515	-0.1018	0.2485
0.1766	0.1414	-0.0767	-0.0276	-0.0838	-0.0484	-0.1273	0.1706	0.1212	0.0208	-0.0469
-0.1627	0.1239	0.0630	-0.0698	0.0731	0.0257	0.0569	0.0378	-0.1126	-0.0569	0.0275
0.3703	0.0170	0.0005	-0.0425	0.1506	-0.1071	-0.3477	-0.0399	-0.2756	0.0102	0.0577
0.0063	-0.1030	-0.0524	0.0725	0.0560	0.0500	0.0595	-0.1214	-0.0838	0.0727	-0.0101
0.0589	0.1208	-0.0103	-0.0828	0.0168	0.0033	-0.0458	0.0127	0.0152	-0.0877	0.0276
0.0055	-0.0069	-0.0220	0.0057	0.0096	-0.0038	-0.0091	0.0086	-0.0050	0.0087	-0.0006
-0.0612	-0.0300	0.0297	0.0376	0.0355	-0.0290	0.0265	-0.0475	-0.0805	0.0551	-0.0012
0.0043	0.0017	-0.0233	0.0039	-0.0072	-0.0164	0.0126	0.0123	-0.0047	0.0099	-0.0039
-0.0071	-0.0249	0.0063	0.0073	-0.0074	-0.0423	-0.0024	-0.0510	0.0011	0.0125	0.0005
0.0020	0.2576	0.1367	-0.0223	-0.0096	0.0568	0.0497	0.0059	-0.0908	-0.0638	-0.0112
-0.0690	-0.0107	-0.0302	0.0094	0.0217	-0.0663	0.0313	-0.0043	0.0168	0.0334	-0.0204
0.1018	0.1795	-0.2149	-0.0132	-0.1559	-0.1356	-0.2797	0.0305	-0.1492	-0.0957	0.0278
-0.0293	-0.0117	0.0298	0.0075	0.0044	-0.0253	0.0057	-0.0361	-0.0053	-0.0025	-0.0027
-0.0390	0.1253	0.2990	0.0420	-0.0778	0.1242	-0.1210	0.0966	-0.0087	-0.0218	-0.0341
-0.0579	0.1167	-0.0536	-0.0420	-0.1457	-0.0410	0.0051	0.0439	-0.0165	-0.0250	0.0108
0.0316	0.0194	0.0504	-0.0002	0.0832	-0.0554	-0.0494	-0.1046	0.0252	0.0252	-0.0294
0.0567	-0.0055	-0.0997	0.0423	0.0200	0.1036	-0.1429	-0.0933	0.1966	-0.0054	-0.0473
-0.0115	-0.0203	0.0079	-0.0102	-0.0152	-0.0004	0.0397	0.0089	-0.0028	-0.0005	0.0116
-0.0242	0.0353	0.0383	0.0171	-0.0513	0.0745	0.0740	-0.0894	-0.0447	0.0212	-0.0174

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
79	79	8.9	9.0223	0.2079	8.6090	9.4355	7.8230	10.2216	-0.1223	0.527
80	80	5.7	6.5579	0.2003	6.1596	6.9561	5.3637	7.7521	-0.8579	0.530
81	81	7.1	7.6554	0.2449	7.1687	8.1422	6.4289	8.8820	-0.5554	0.511
82	82	7.4	7.1444	0.1548	6.8367	7.4521	5.9773	8.3115	0.2556	0.545
83	83	6.6	6.0216	0.1413	5.7408	6.3025	4.8613	7.1820	0.5784	0.548
84	84	5.0	5.0928	0.3246	4.4474	5.7381	3.7951	6.3904	-0.0928	0.464
85	85	8.2	7.2817	0.1793	6.9253	7.6381	6.1008	8.4626	0.9183	0.537
86	86	5.2	5.8567	0.1599	5.5388	6.1746	4.6868	7.0266	-0.6567	0.543
87	87	5.2	4.7153	0.2504	4.2175	5.2130	3.4843	5.9462	0.4847	0.508
88	88	8.2	7.2917	0.2159	6.8626	7.7209	6.0869	8.4966	0.9083	0.524
89	89	7.3	7.0000	0.1479	6.7059	7.2941	5.8363	8.1636	0.3000	0.547
90	90	8.2	8.2951	0.2379	7.8222	8.7680	7.0740	9.5162	-0.0951	0.514
91	91	7.4	7.2485	0.1887	6.8732	7.6237	6.0617	8.4352	0.1515	0.534
92	92	4.8	4.3920	0.2582	3.8787	4.9053	3.1546	5.6293	0.4080	0.504
93	93	7.6	7.3904	0.2014	6.9900	7.7908	6.1954	8.5853	0.2096	0.529
94	94	8.9	9.0113	0.2042	8.6055	9.4172	7.8146	10.2081	-0.1113	0.528
95	95	7.7	7.4967	0.1484	7.2017	7.7918	6.3329	8.6606	0.2033	0.547
96	96	7.3	7.2585	0.2163	6.8285	7.6885	6.0533	8.4636	0.0415	0.523
97	97	6.3	6.3637	0.1505	6.0645	6.6628	5.1988	7.5286	-0.0637	0.546
98	98	5.4	5.2988	0.3645	4.5743	6.0233	3.9600	6.6376	0.1012	0.433
99	99	6.4	7.7870	0.1477	7.4934	8.0807	6.6235	8.9506	-1.3870	0.547
100	100	6.4	6.3217	0.2174	5.8896	6.7538	5.1158	7.5276	0.0783	0.523

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	DFBETAS		
							Intercept	x6	x7
-0.232	| | |	0.001	-0.2309	0.1347	1.3494	-0.0911	-0.0124	-0.0046	0.0292
-1.619	| *** | |	0.027	-1.6352	0.1251	0.8727	-0.6184	-0.1163	0.1345	0.2854
-1.088	| ** | |	0.019	-1.0888	0.1869	1.1933	-0.5221	-0.0059	-0.2172	0.1276
0.469	| | |	0.001	0.4671	0.0747	1.2281	0.1327	0.0050	0.0197	-0.0279
1.055	| |** |	0.005	1.0553	0.0622	1.0468	0.2719	0.0797	0.0551	-0.0418
-0.200	| | |	0.001	-0.1988	0.3286	1.7429	-0.1390	0.0338	0.0076	0.0207
1.709	| |*** |	0.023	1.7290	0.1002	0.8069	0.5770	0.1434	-0.1333	-0.2661
-1.209	| ** | |	0.009	-1.2120	0.0797	1.0070	-0.3567	-0.0663	-0.0972	-0.0253
0.954	| |* |	0.016	0.9537	0.1954	1.2613	0.4701	0.1205	-0.1753	0.0012
1.735	| |*** |	0.037	1.7556	0.1453	0.8370	0.7239	0.1611	-0.2385	-0.2454
0.549	| |* |	0.002	0.5466	0.0682	1.2036	0.1479	-0.0582	0.0601	0.0230
-0.185	| | |	0.001	-0.1840	0.1764	1.4223	-0.0852	0.0163	0.0240	-0.0102
0.284	| | |	0.001	0.2823	0.1111	1.3078	0.0998	-0.0293	0.0148	-0.0141
0.809	| |* |	0.012	0.8078	0.2079	1.3360	0.4138	0.0664	0.0654	0.1924
0.396	| | |	0.002	0.3941	0.1265	1.3144	0.1500	-0.0168	-0.0110	0.0383
-0.211	| | |	0.000	-0.2095	0.1299	1.3441	-0.0810	-0.0098	-0.0071	0.0207
0.372	| | |	0.001	0.3701	0.0687	1.2366	0.1005	-0.0122	0.0206	-0.0152
0.079	| | |	0.000	0.0788	0.1459	1.3776	0.0326	0.0068	0.0013	0.0156
-0.117	| | |	0.000	-0.1159	0.0706	1.2646	-0.0320	-0.0121	-0.0015	0.0025
0.234	| | |	0.003	0.2322	0.4141	1.9927	0.1952	-0.0745	0.0057	0.0185
-2.537	| ***** | |	0.034	-2.6222	0.0680	0.4254	-0.7085	-0.0581	-0.0420	-0.1444
0.150	| | |	0.000	0.1489	0.1473	1.3764	0.0619	0.0000	0.0132	-0.0145

Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics

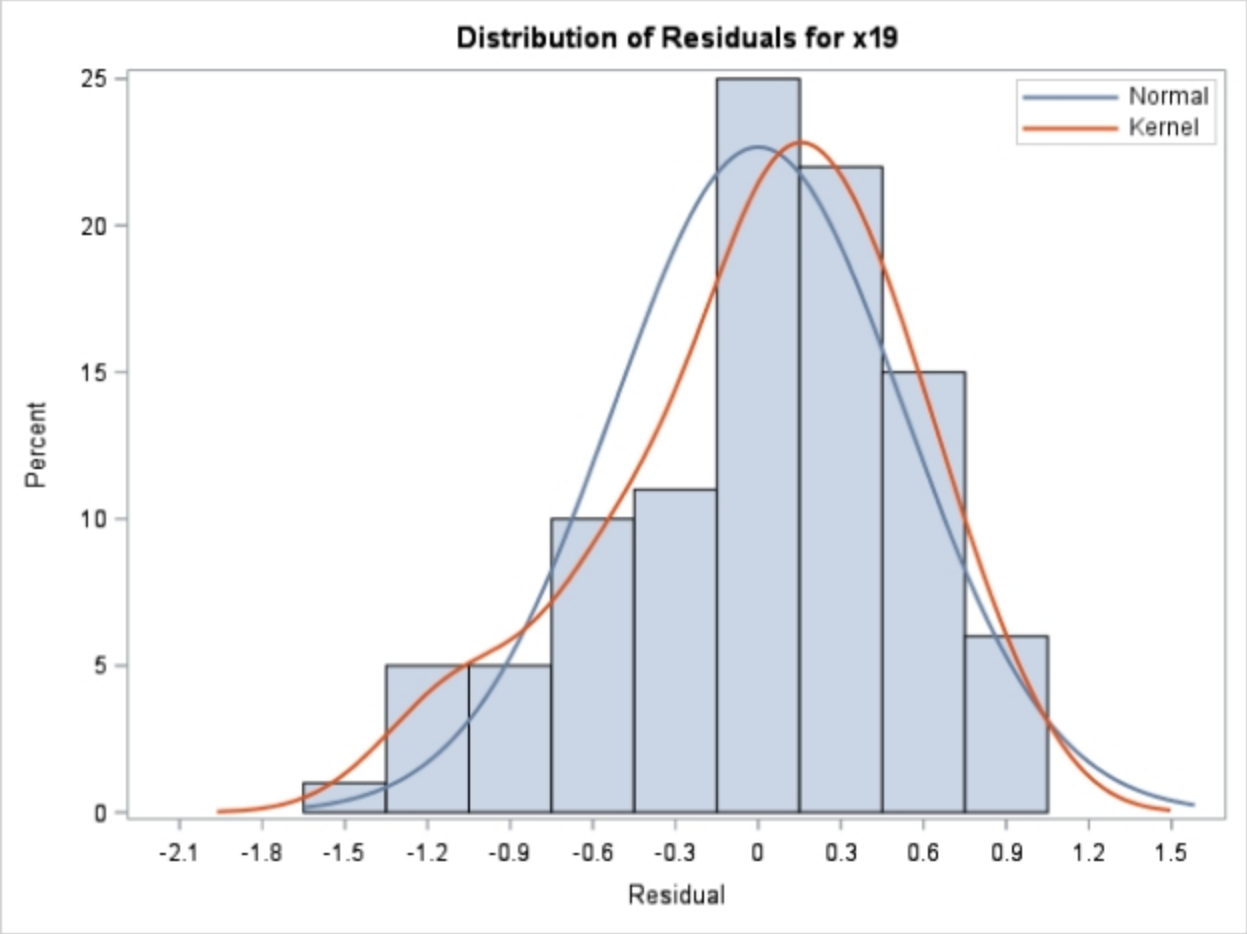
DFBETAS

x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18
0.0065	-0.0400	-0.0326	0.0111	-0.0214	0.0218	-0.0061	0.0364	0.0048	0.0125	-0.0029
0.1470	-0.1429	-0.0173	-0.0313	-0.3142	-0.0801	-0.1107	0.1910	0.1404	0.0273	0.0713
-0.2847	0.1219	0.0235	-0.0125	-0.1145	0.1602	0.2186	-0.1519	0.1709	-0.0635	-0.0284
0.0429	-0.0734	-0.0671	-0.0090	0.0299	0.0304	-0.0283	0.0032	0.0208	-0.0177	0.0342
-0.0059	-0.0246	-0.0326	-0.0504	-0.0060	-0.0029	0.0312	-0.0712	-0.1252	-0.0485	0.0646
0.0246	-0.0576	0.0351	-0.0474	-0.0312	-0.0013	-0.0474	-0.0209	0.0333	-0.0526	0.0719
0.0865	0.1069	-0.2795	-0.0189	0.1941	0.0162	-0.0507	-0.1039	0.0068	-0.0571	0.0346
-0.0021	0.0325	0.0453	-0.0089	0.0425	0.0563	0.0551	0.1969	0.0921	-0.0630	0.0098
-0.1391	-0.1284	-0.0640	0.0409	0.0331	-0.0633	-0.0126	0.1653	-0.0885	0.0247	0.0024
0.3419	0.1402	0.0533	-0.1076	0.0658	0.1032	-0.2120	0.3841	0.1693	-0.1818	0.0865
-0.0306	-0.0105	0.0310	-0.0016	-0.0554	0.0885	0.0545	-0.0501	0.0179	-0.0047	0.0046
-0.0103	0.0005	0.0060	-0.0145	-0.0252	0.0332	-0.0054	0.0049	-0.0031	-0.0189	0.0151
-0.0072	-0.0408	0.0167	0.0061	0.0117	0.0343	0.0331	-0.0154	0.0391	-0.0033	-0.0028
-0.0891	-0.0257	-0.1218	-0.1473	-0.1489	0.1331	0.0992	-0.0676	-0.1308	-0.1292	0.1519
-0.0259	-0.0305	0.0239	-0.0062	-0.0385	0.0638	0.0142	0.0401	0.0151	-0.0378	0.0284
0.0221	-0.0515	-0.0054	0.0136	-0.0223	0.0254	-0.0156	0.0061	0.0249	0.0128	-0.0048
-0.0045	-0.0124	0.0240	0.0290	0.0259	0.0255	-0.0227	-0.0115	0.0032	0.0142	-0.0246
0.0043	-0.0009	-0.0153	-0.0079	-0.0019	0.0017	-0.0073	-0.0038	0.0124	-0.0094	0.0063
0.0053	0.0016	-0.0001	0.0049	-0.0002	0.0089	0.0082	-0.0098	-0.0037	0.0017	-0.0028
-0.0195	-0.0346	-0.0037	0.1621	-0.0124	-0.0397	-0.0114	-0.0316	0.0126	0.1561	-0.1586
-0.2216	0.0607	-0.0681	0.2251	-0.1547	-0.0967	0.2045	-0.1661	-0.0695	0.2433	-0.2162
-0.0073	0.0172	0.0367	-0.0159	-0.0116	0.0277	0.0110	0.0036	-0.0170	-0.0131	0.0113

Sum of Residuals	0
Sum of Squared Residuals	27.58363
Predicted Residual SS (PRESS)	36.15753

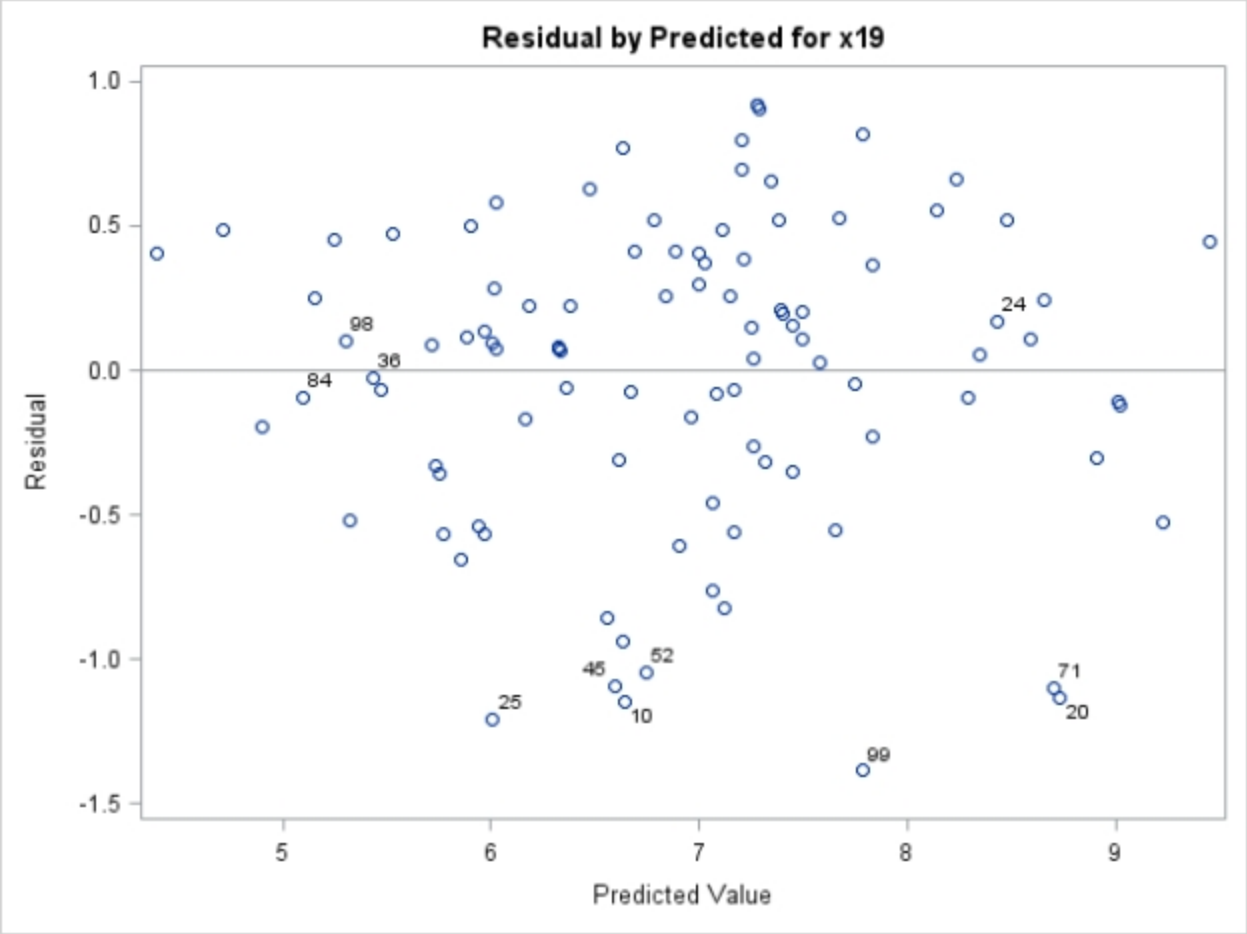
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



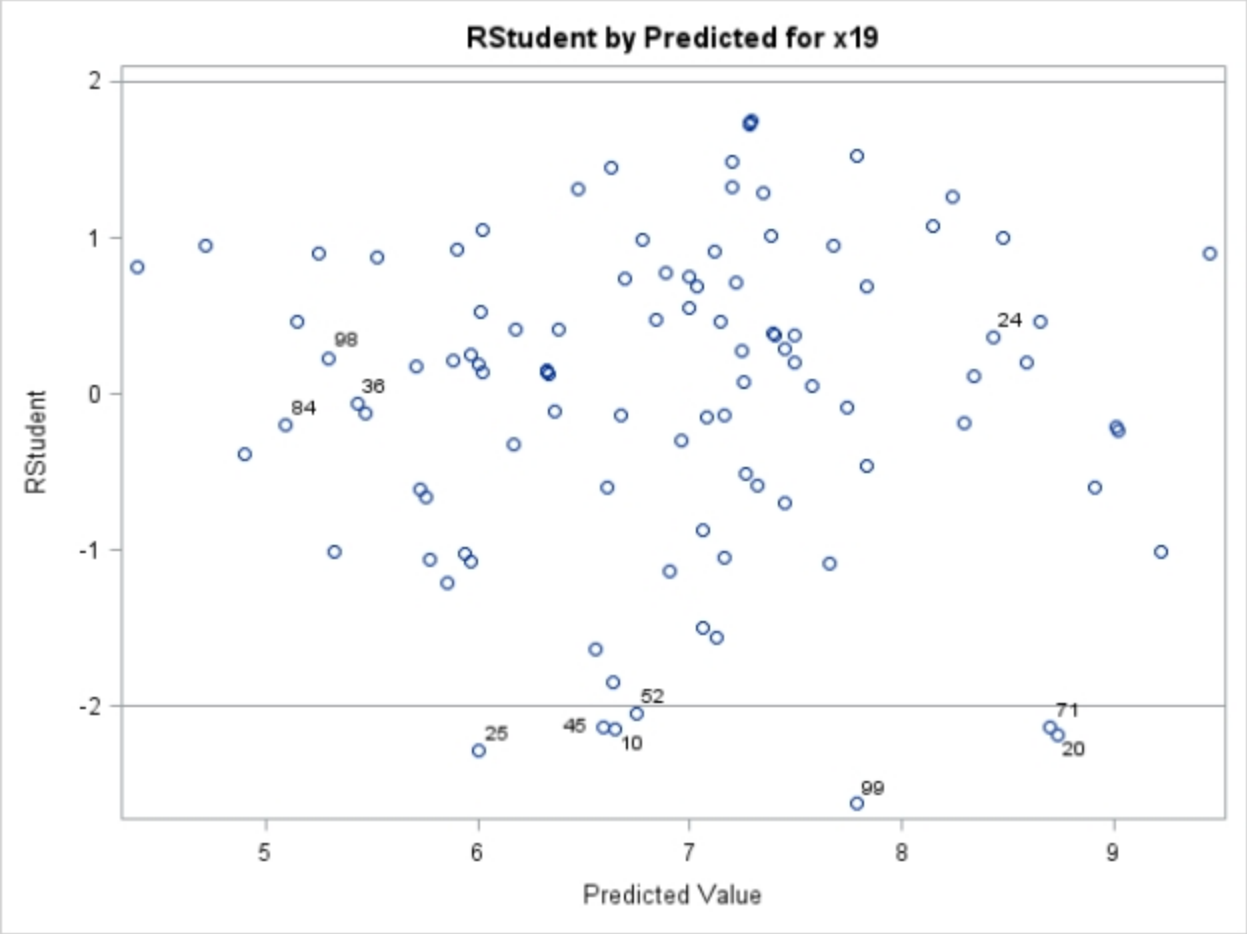
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



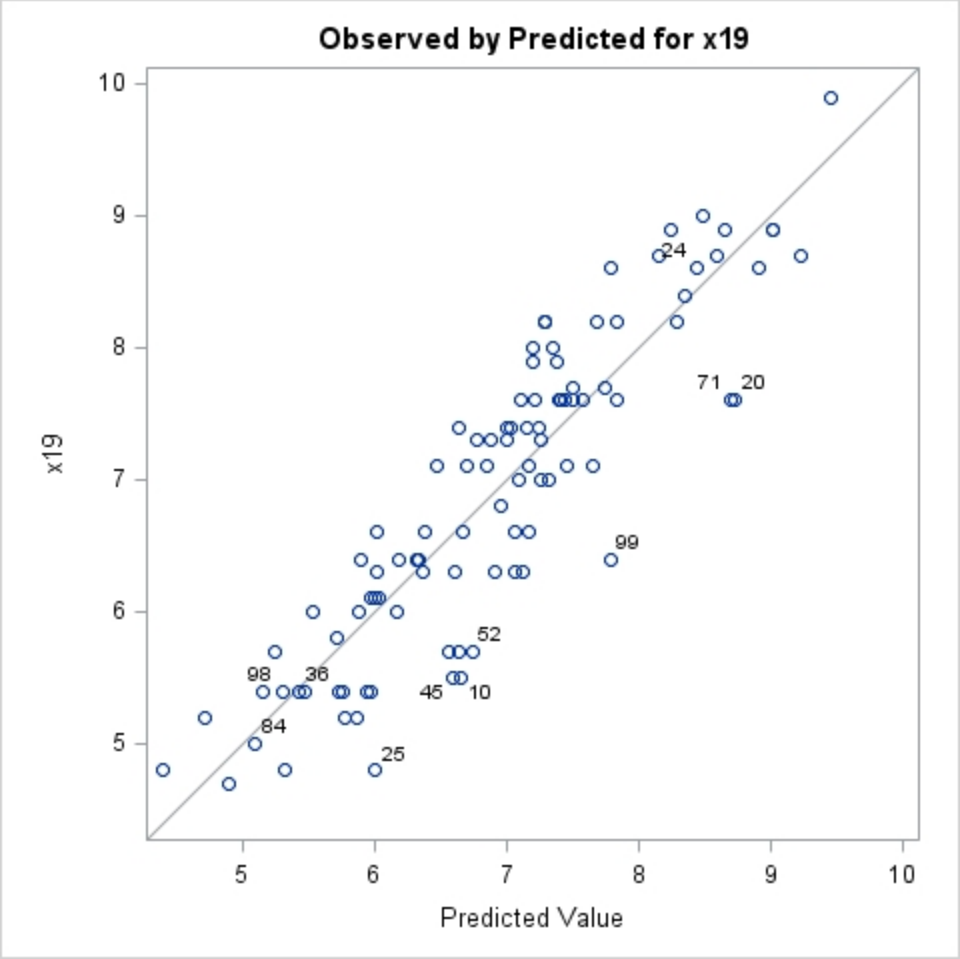
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



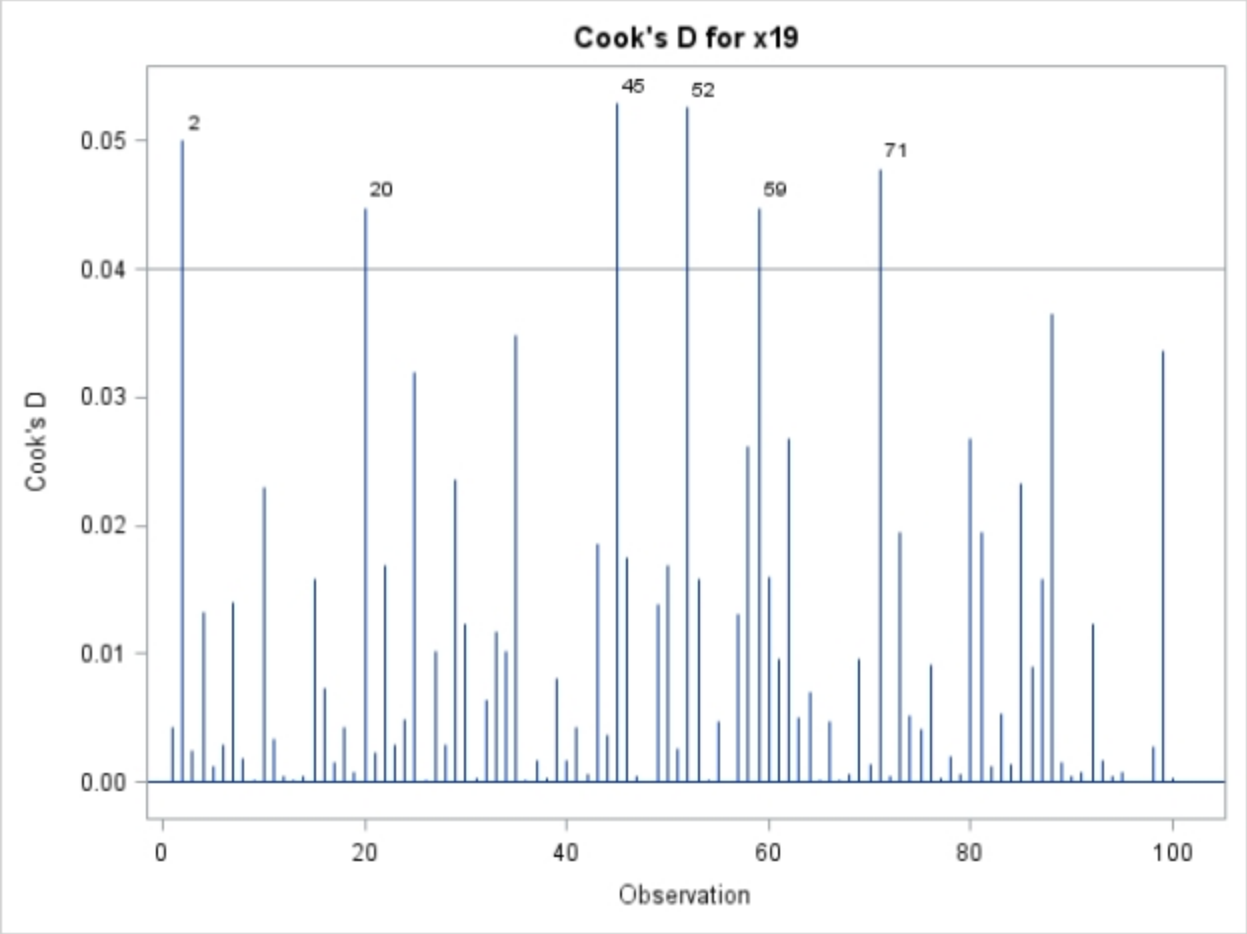
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



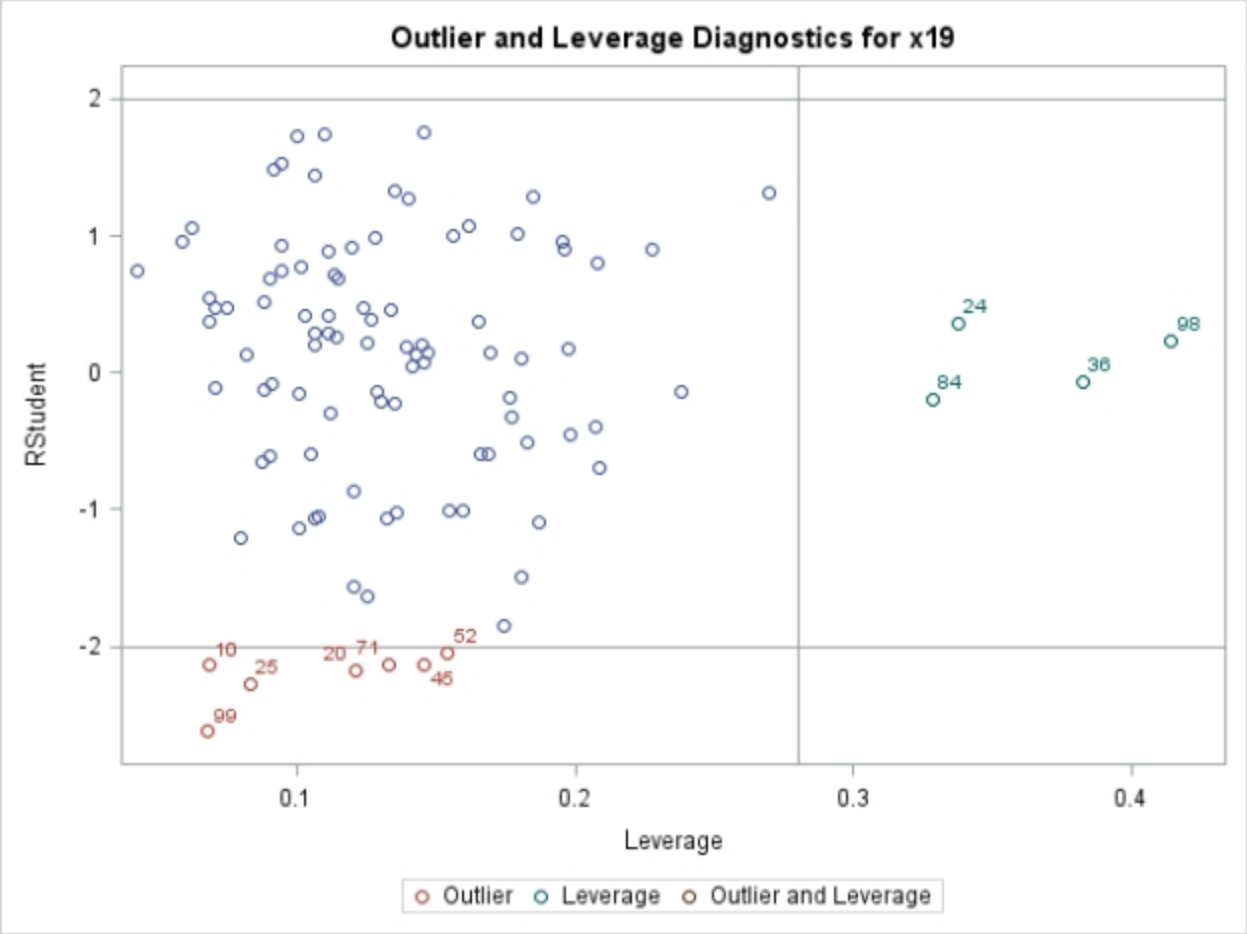
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



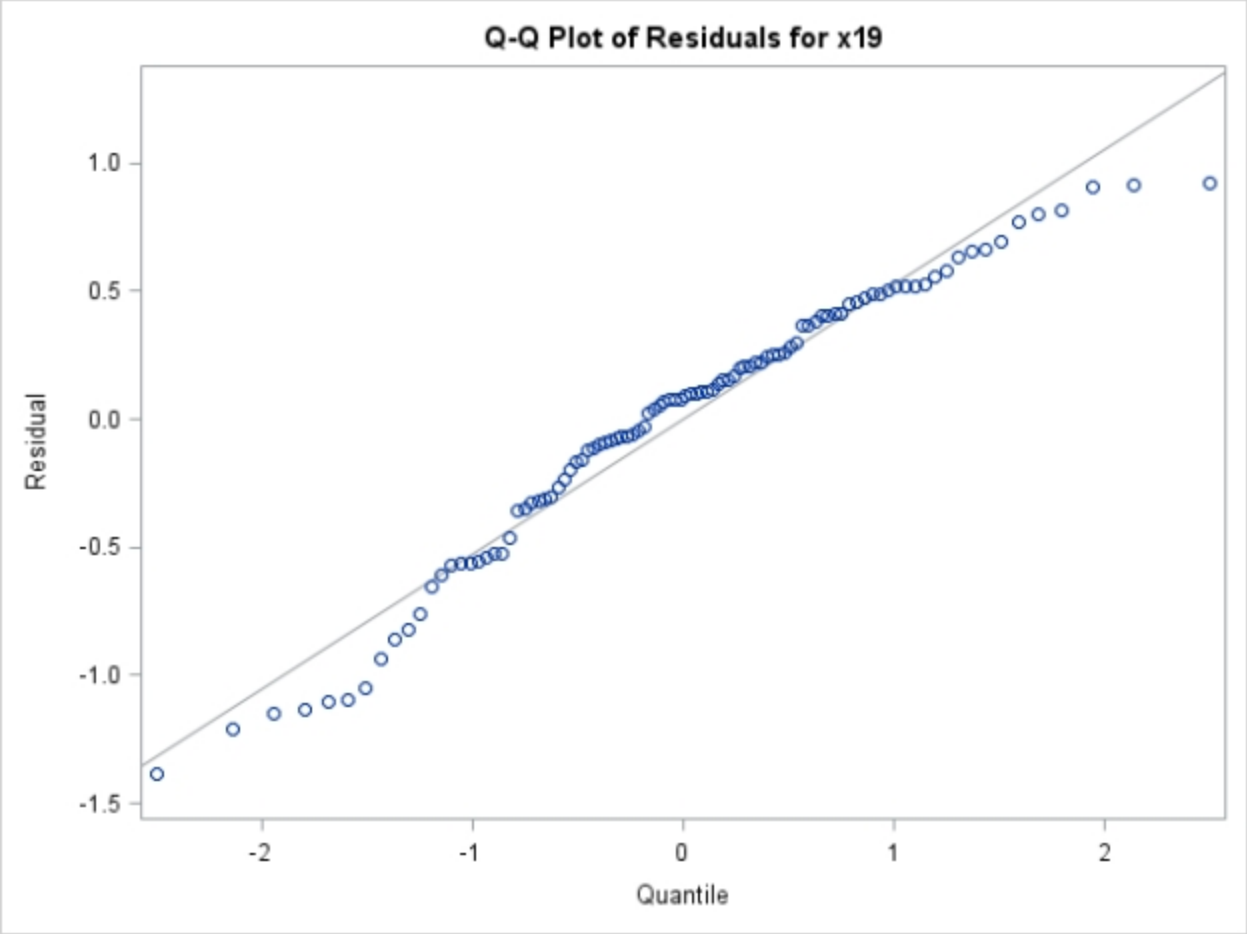
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



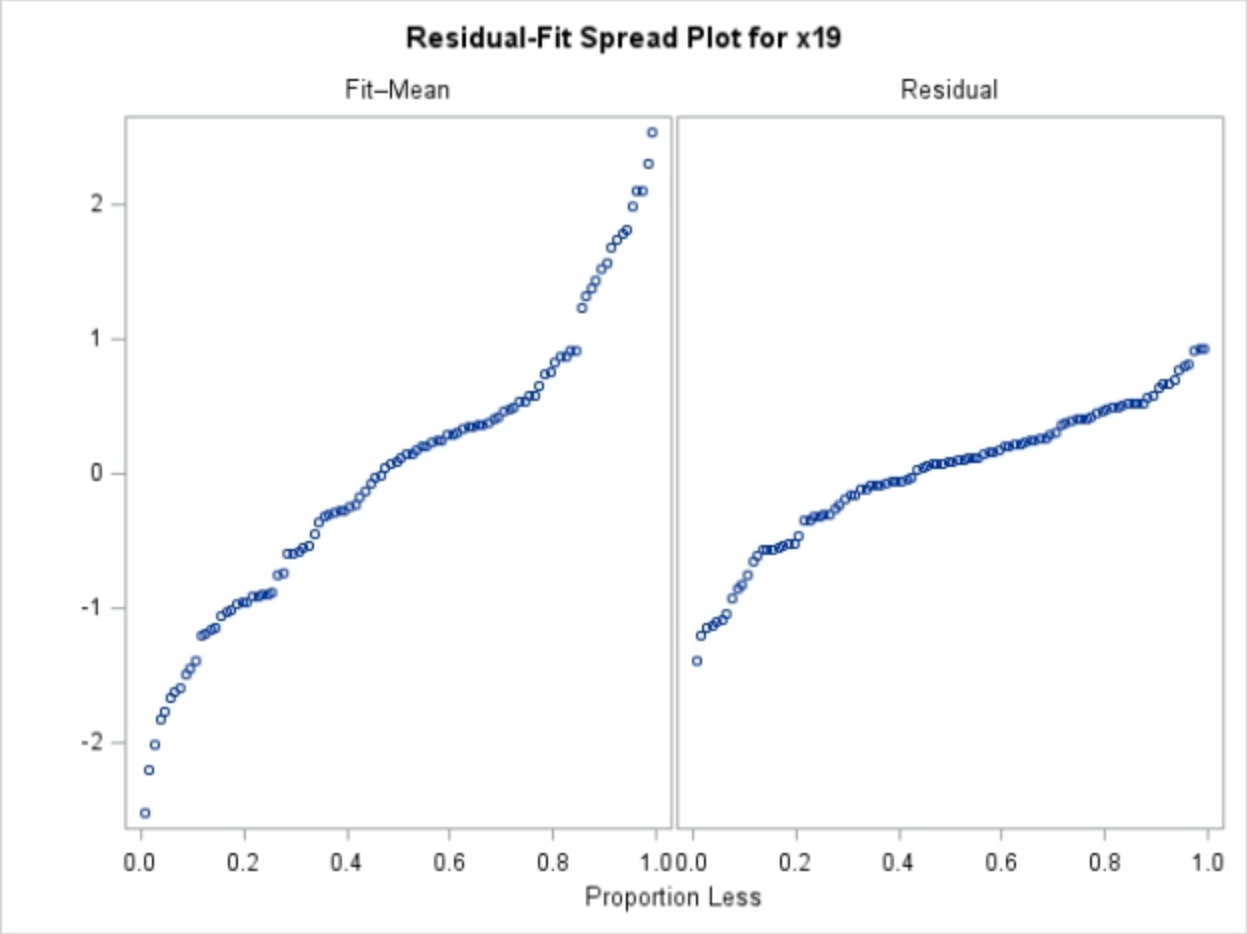
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



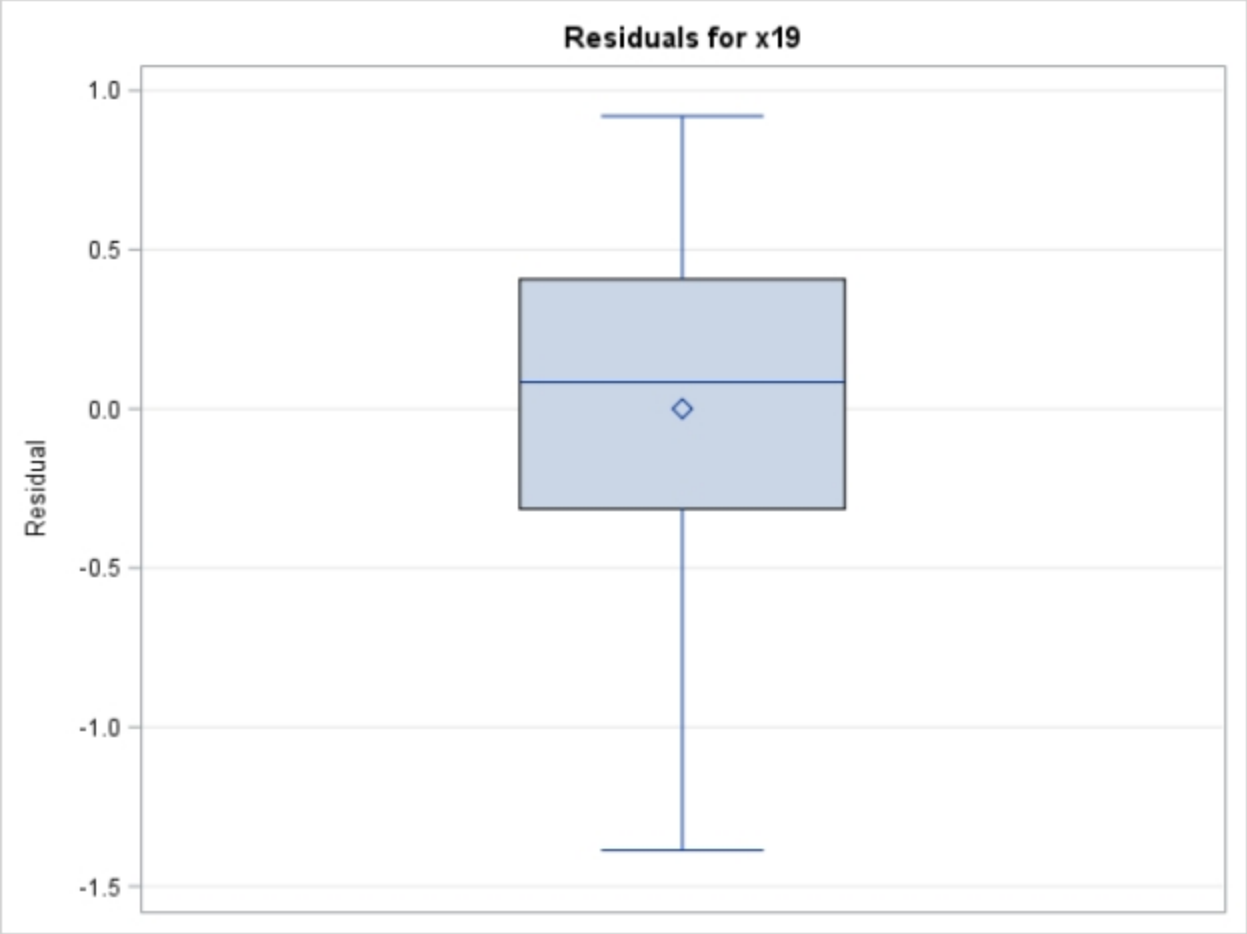
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



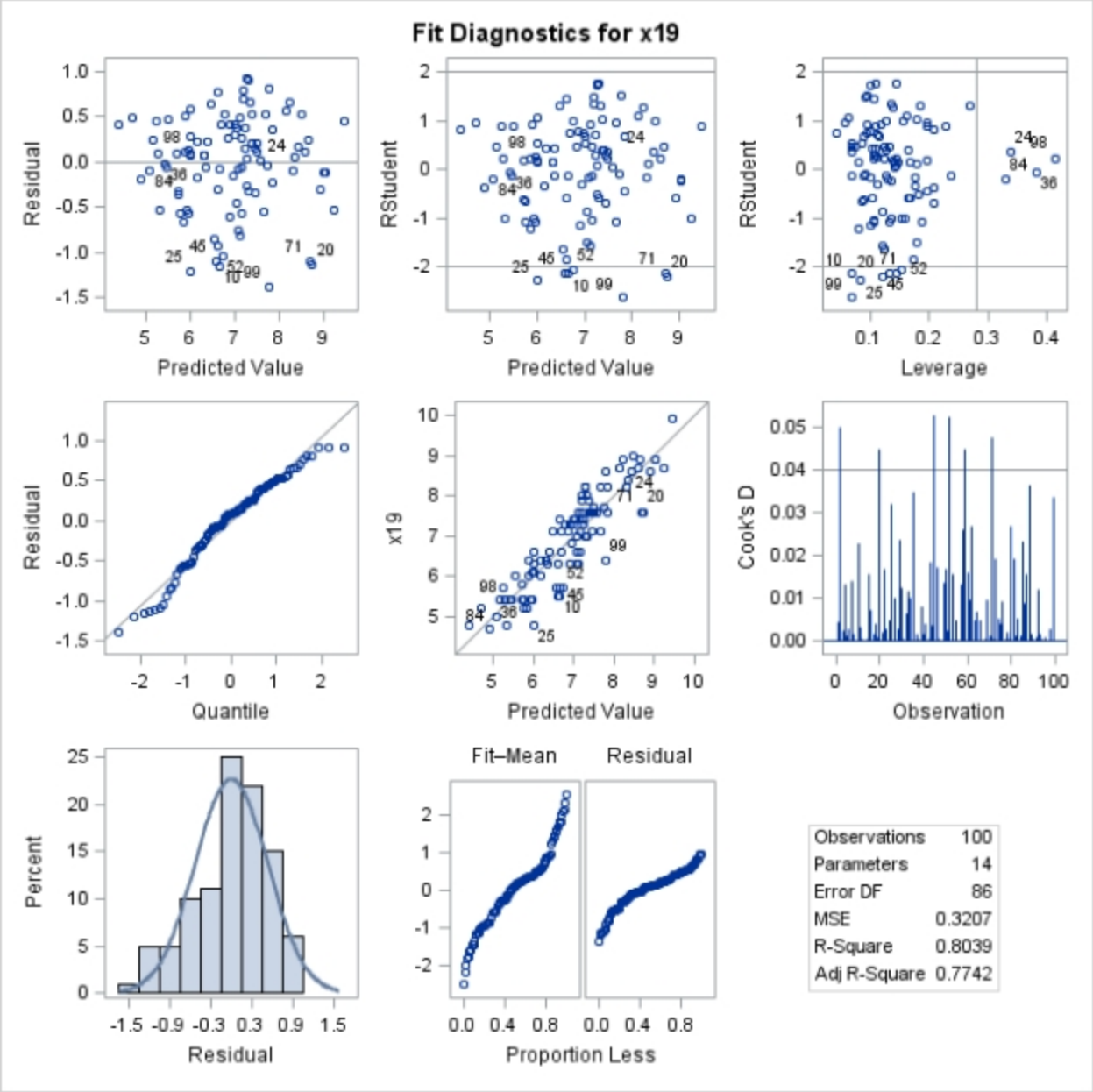
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



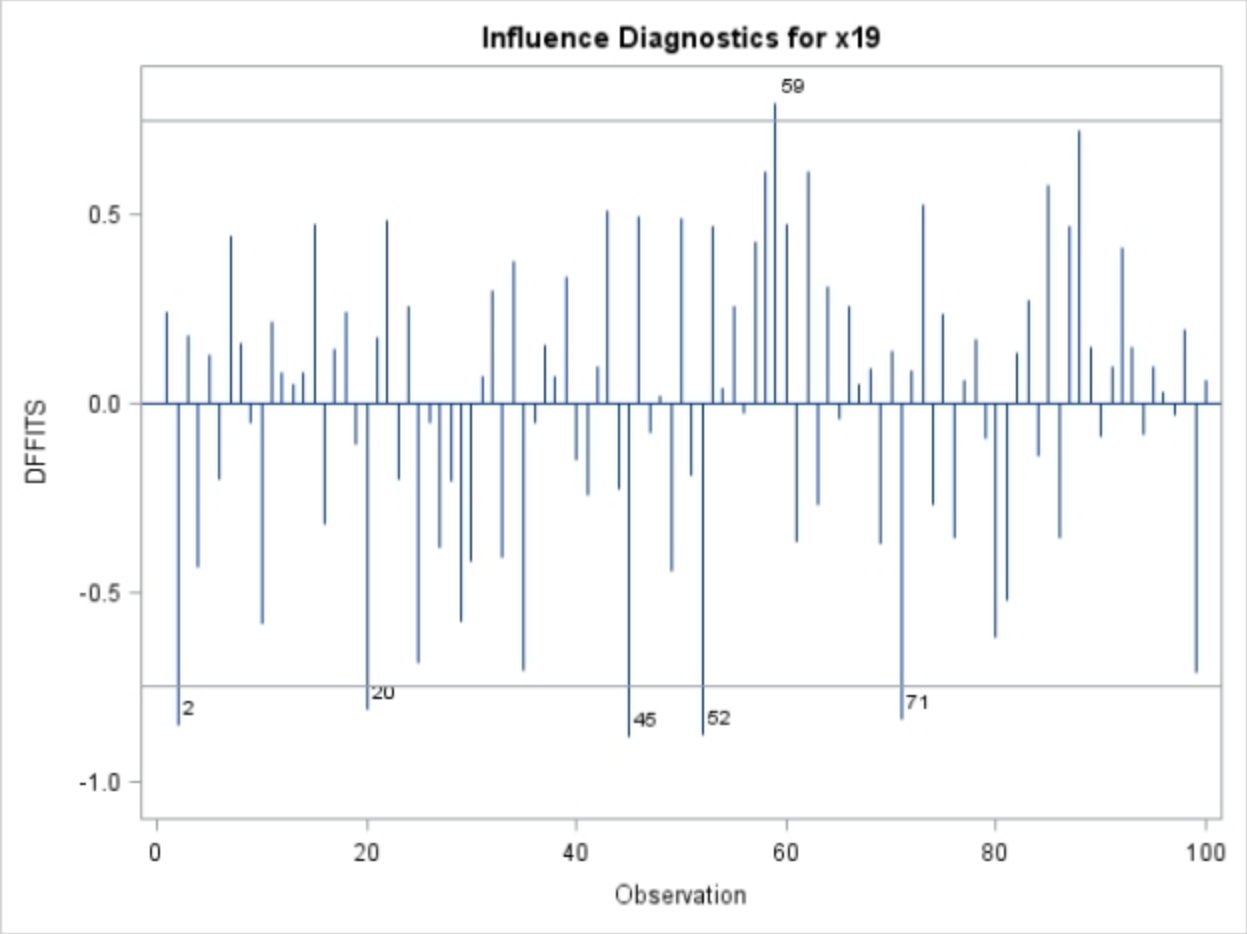
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



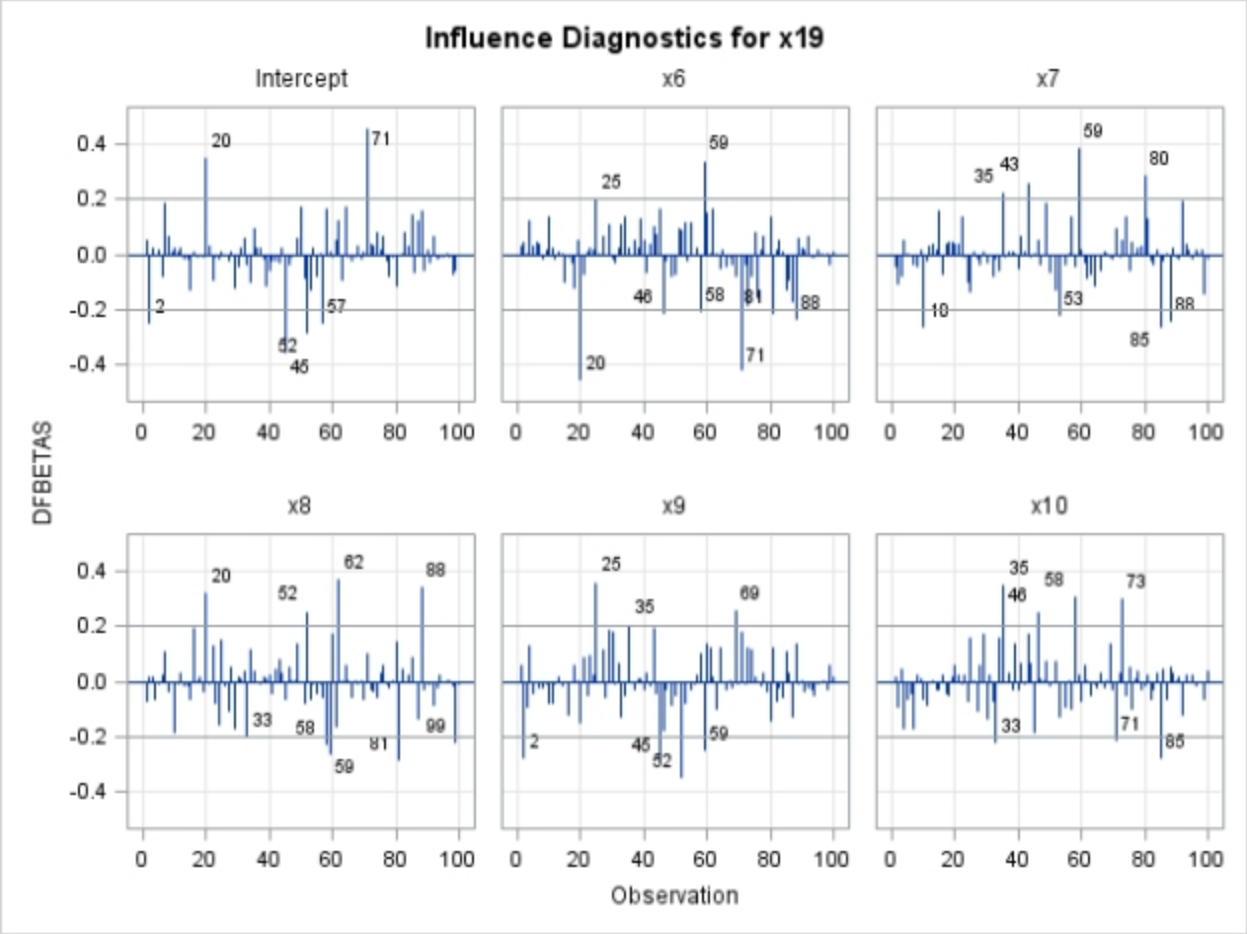
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



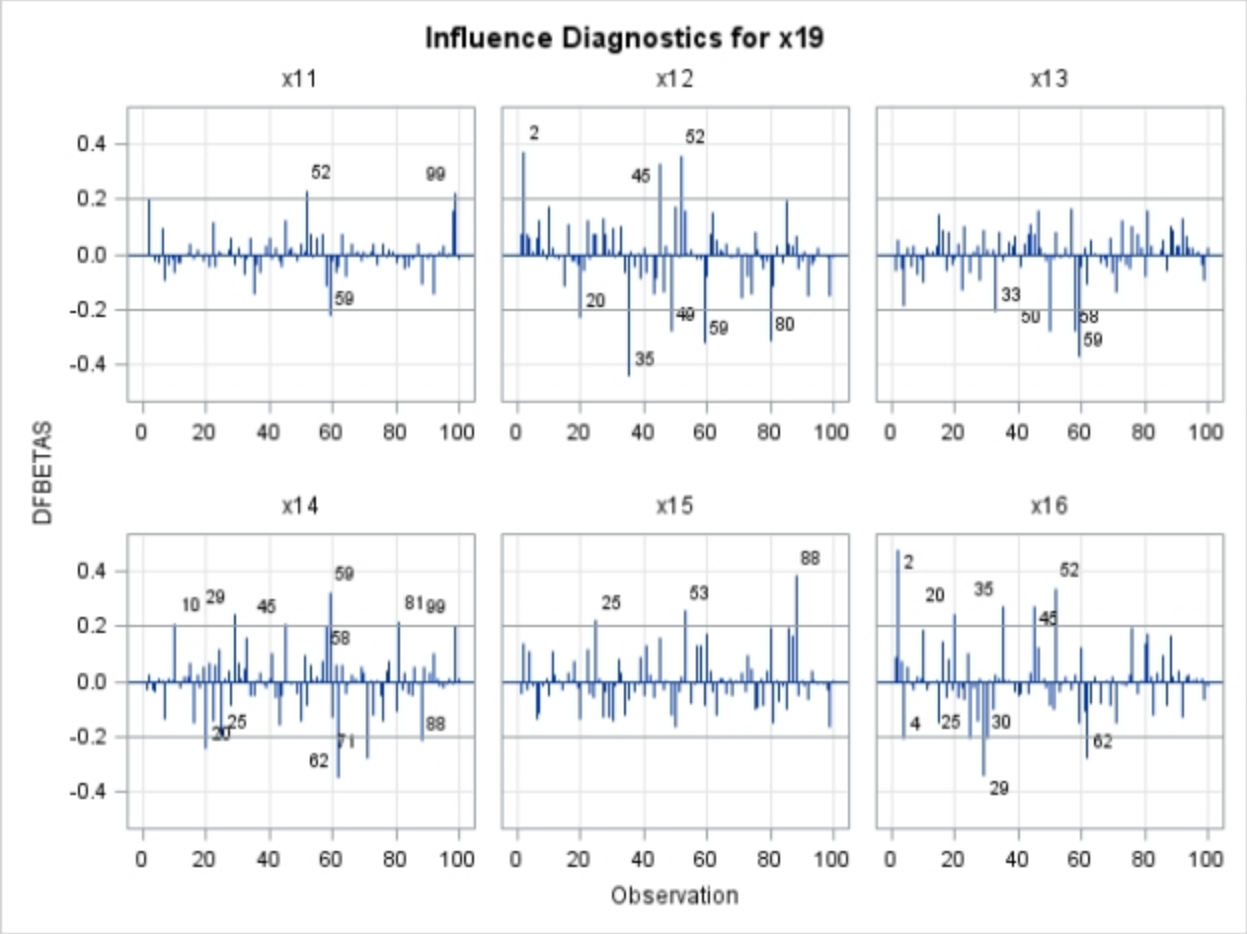
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



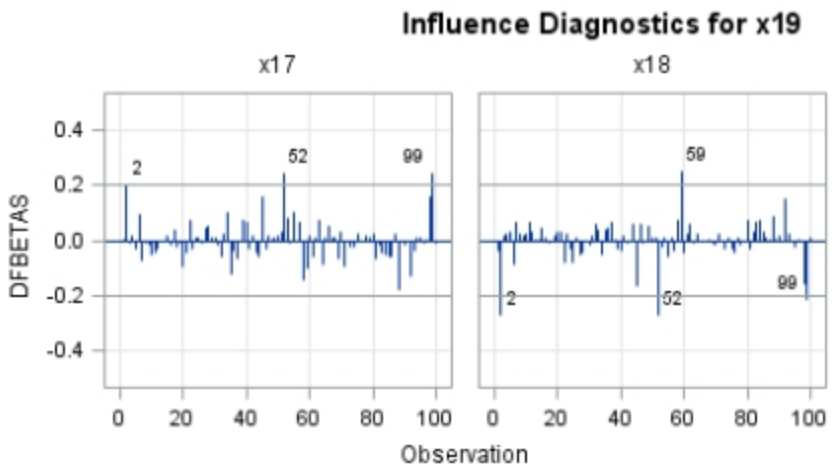
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



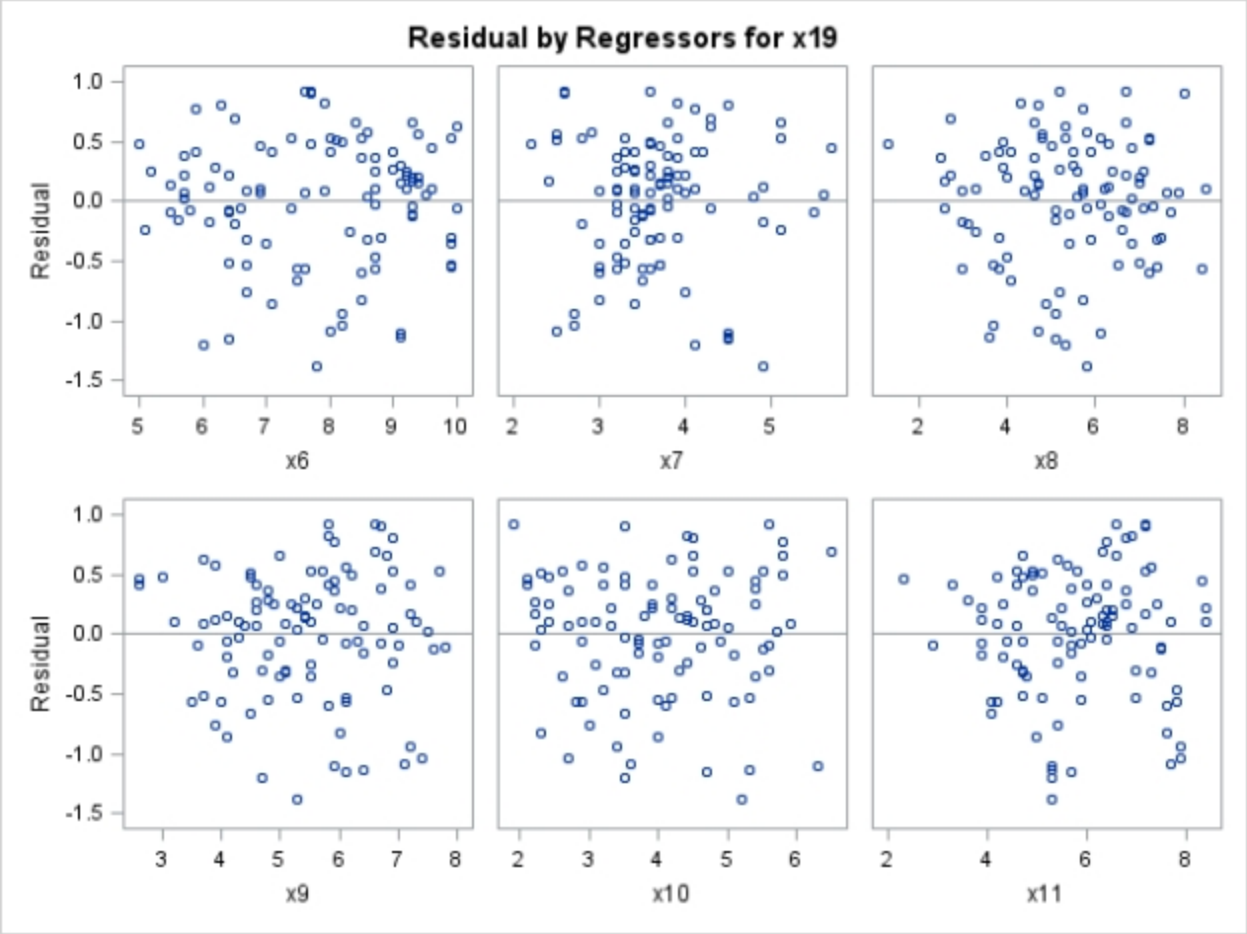
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



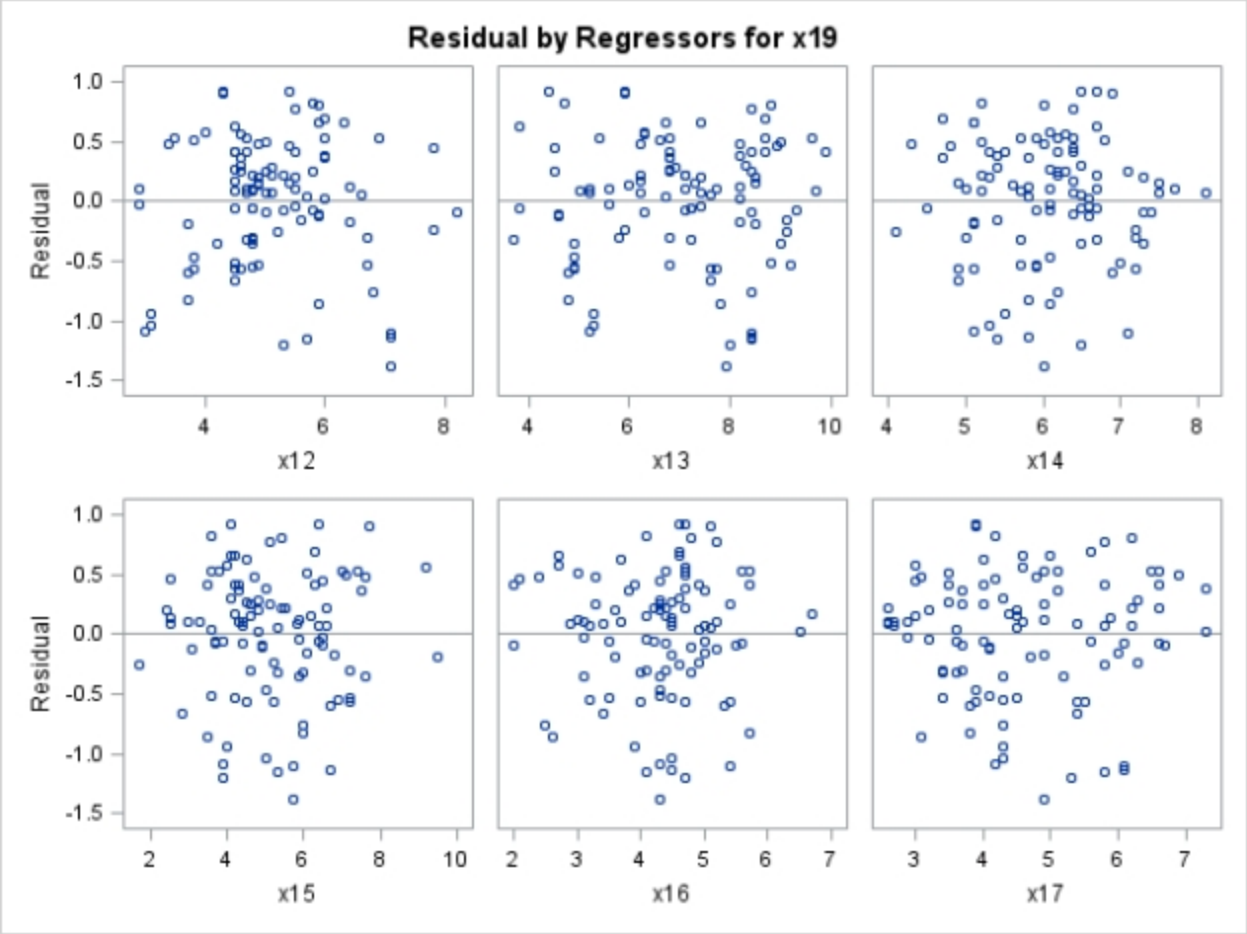
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



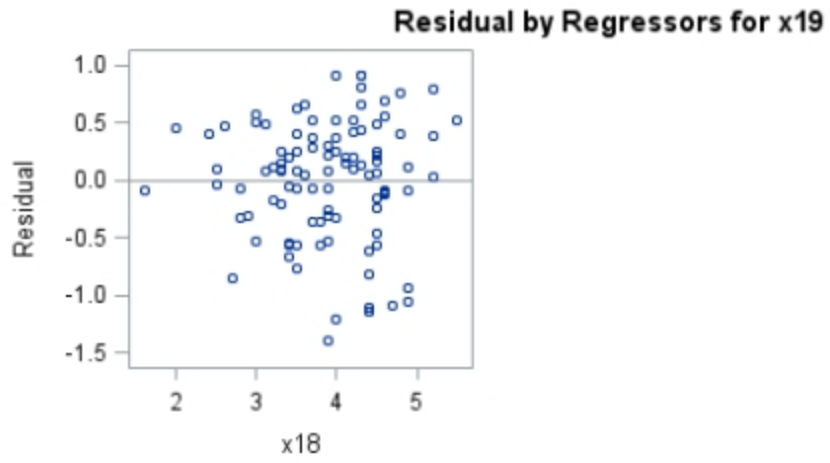
Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression Model 2: X6 TO X18 -- SIMULTANEOUS

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure

Number of Observations Read	100
Number of Observations Used	100

Descriptive Statistics

Variable	Sum	Mean	Uncorrected SS	Variance	Standard Deviation
Intercept	100.00000	1.00000	100.00000	0	0
x6	781.00000	7.81000	6292.62000	1.94960	1.39628
x7	367.20000	3.67200	1396.94000	0.49072	0.70052
x9	544.20000	5.44200	3106.10000	1.46024	1.20840
x11	580.50000	5.80500	3541.07000	1.72997	1.31529
x12	512.30000	5.12300	2738.35000	1.14987	1.07232
x19	691.80000	6.91800	4926.50000	1.42048	1.19184

Correlation

Variable	x6	x7	x9	x11	x12	x19
x6	1.0000	-0.1372	0.1064	0.4775	-0.1518	0.4863
x7	-0.1372	1.0000	0.1402	-0.0527	0.7915	0.2827
x9	0.1064	0.1402	1.0000	0.5614	0.2298	0.6033
x11	0.4775	-0.0527	0.5614	1.0000	-0.0613	0.5505
x12	-0.1518	0.7915	0.2298	-0.0613	1.0000	0.5002
x19	0.4863	0.2827	0.6033	0.5505	0.5002	1.0000

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Adjusted R-Square Selection Method

Number of Observations Read	100
Number of Observations Used	100

Model Index	Number in Model	Adjusted R-Square	R-Square	C(p)	AIC	BIC	MSE	Prediction Criterion	Root MSE
1	5	0.7797	0.7908	6.0000	-110.3424	-107.5846	0.31300	0.2359	0.55947
2	4	0.7630	0.7726	12.1817	-103.9966	-102.2110	0.33666	0.2514	0.58023
3	4	0.7588	0.7685	13.9979	-102.2348	-100.6222	0.34265	0.2558	0.58536
4	3	0.7448	0.7526	19.1640	-97.5712	-96.3948	0.36244	0.2680	0.60203
5	4	0.7179	0.7293	31.6300	-86.5735	-86.4151	0.40074	0.2992	0.63304
6	3	0.6903	0.6997	42.9097	-78.2113	-78.4153	0.43986	0.3253	0.66322
7	4	0.6401	0.6547	65.1505	-62.2323	-64.0396	0.51118	0.3817	0.71497
8	3	0.6155	0.6272	75.5105	-56.5673	-58.1163	0.54616	0.4039	0.73902
9	3	0.6103	0.6221	77.7649	-55.2304	-56.8558	0.55351	0.4093	0.74398
10	4	0.6060	0.6219	79.8847	-53.1598	-55.6119	0.55973	0.4179	0.74815
11	3	0.6045	0.6165	80.2913	-53.7532	-55.4620	0.56174	0.4154	0.74950
12	3	0.5900	0.6025	86.6109	-50.1509	-52.0593	0.58235	0.4307	0.76312
13	2	0.5808	0.5893	90.5259	-48.8929	-50.0610	0.59543	0.4361	0.77164
14	2	0.5650	0.5738	97.4853	-45.1908	-46.5139	0.61789	0.4526	0.78606
15	2	0.5348	0.5442	110.7940	-38.4714	-40.0653	0.66083	0.4840	0.81292
16	3	0.5322	0.5464	111.8032	-36.9564	-39.5499	0.66449	0.4914	0.81516
17	3	0.5097	0.5246	121.5921	-32.2651	-35.0853	0.69640	0.5150	0.83451
18	2	0.4917	0.5020	129.7586	-29.6151	-31.5454	0.72203	0.5288	0.84972
19	3	0.4732	0.4892	137.5011	-25.0811	-28.2321	0.74827	0.5534	0.86503
20	3	0.4725	0.4885	137.8003	-24.9508	-28.1076	0.74925	0.5541	0.86559
21	2	0.4177	0.4295	162.3315	-16.0247	-18.4279	0.82713	0.6058	0.90947
22	2	0.3917	0.4040	173.7808	-11.6550	-14.1995	0.86408	0.6329	0.92956
23	2	0.3882	0.4006	175.3208	-11.0816	-13.6442	0.86905	0.6365	0.93223
24	1	0.3574	0.3639	189.7804	-7.1495	-8.5950	0.91275	0.6620	0.95538

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Adjusted R-Square Selection Method

SBC	SSE	Variables in Model
-94.71137	29.42211	x6 x7 x9 x11 x12
-90.97076	31.98299	x6 x7 x9 x12
-89.20899	32.55145	x6 x9 x11 x12
-87.15056	34.79445	x6 x9 x12
-73.54768	38.07032	x6 x7 x11 x12
-67.79061	42.22689	x6 x11 x12
-49.20644	48.56229	x7 x9 x11 x12
-46.14661	52.43096	x9 x11 x12
-44.80973	53.13660	x7 x11 x12
-40.13399	53.17412	x6 x7 x9 x11
-43.33251	53.92738	x6 x7 x9
-39.73023	55.90540	x6 x7 x12
-41.07739	57.75680	x11 x12
-37.37524	59.93512	x6 x12
-30.65591	64.10074	x6 x9
-26.53571	63.79063	x6 x9 x11
-21.84439	66.85456	x7 x9 x12
-21.79958	70.03669	x9 x12
-14.66039	71.83411	x7 x9 x11
-14.53014	71.92774	x6 x7 x11
-8.20919	80.23206	x9 x11
-3.83949	83.81569	x7 x9
-3.26605	84.29770	x7 x11
-1.93915	89.44959	x9

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Adjusted R-Square Selection Method

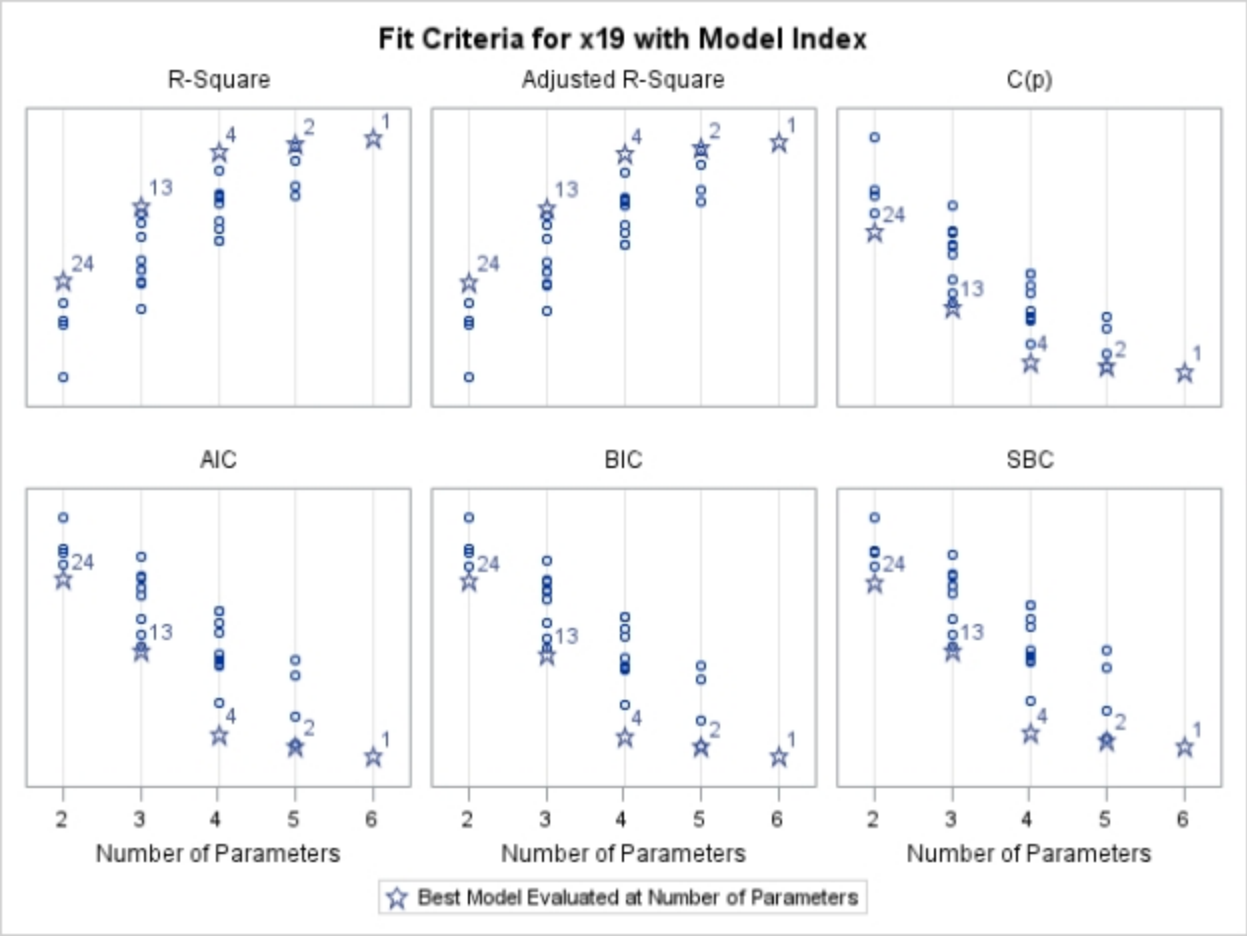
Model Index	Number in Model	Adjusted R-Square	R-Square	C(p)	AIC	BIC	MSE	Prediction Criterion	Root MSE
25	2	0.3547	0.3678	190.0520	-5.7561	-8.4835	0.91658	0.6713	0.95738
26	2	0.3478	0.3610	193.1087	-4.6858	-7.4454	0.92645	0.6786	0.96252
27	1	0.2960	0.3031	217.1083	1.9831	0.3341	1.00003	0.7253	1.00002
28	2	0.2698	0.2845	227.4604	6.6156	3.5328	1.03729	0.7597	1.01848
29	1	0.2426	0.2502	240.8736	9.2989	7.4975	1.07594	0.7804	1.03727
30	1	0.2287	0.2365	247.0259	11.1087	9.2709	1.09559	0.7947	1.04670
31	1	0.0706	0.0799	317.3696	29.7624	27.5806	1.32026	0.9576	1.14902

SBC	SSE	Variables in Model
2.05938	88.90860	x6 x11
3.12972	89.86533	x6 x7
7.19339	98.00326	x11
14.43108	100.61747	x7 x12
14.50926	105.44182	x12
16.31906	107.36748	x6
34.97269	129.38516	x7

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

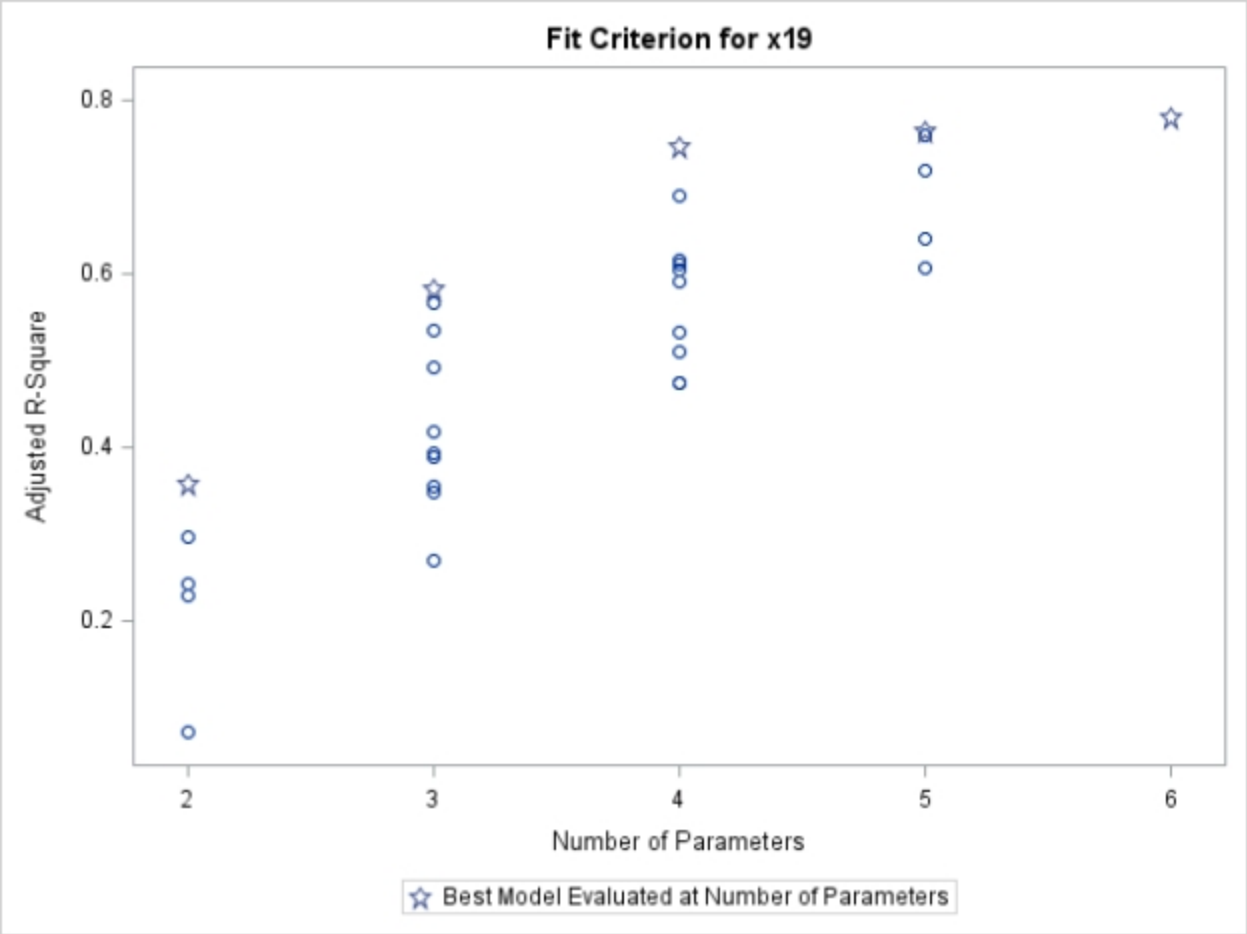
Adjusted R-Square Selection Method



Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Adjusted R-Square Selection Method



Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Number of Observations Read	100
Number of Observations Used	100

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	111.20549	22.24110	71.06	<.0001
Error	94	29.42211	0.31300		
Corrected Total	99	140.62760			

Root MSE	0.55947	R-Square	0.7908
Dependent Mean	6.91800	Adj R-Sq	0.7797
Coeff Var	8.08709		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Heteroscedasticity Consistent			Type II SS	Standardized Estimate
						Standard Error	t Value	Pr > |t|		
Intercept	1	-1.15106	0.49984	-2.30	0.0235	0.45082	-2.55	0.0123	1.65991	0
x6	1	0.36900	0.04719	7.82	<.0001	0.04566	8.08	<.0001	19.14018	0.43230
x7	1	-0.41714	0.13192	-3.16	0.0021	0.11992	-3.48	0.0008	3.12934	-0.24518
x9	1	0.31896	0.06068	5.26	<.0001	0.05675	5.62	<.0001	8.64821	0.32340
x11	1	0.17435	0.06095	2.86	0.0052	0.05265	3.31	0.0013	2.56088	0.19241
x12	1	0.77513	0.08898	8.71	<.0001	0.09886	7.84	<.0001	23.75201	0.69740

Parameter Estimates

Squared Semi-partial Corr Type II	Type II F Value	Type II Pr > F	Tolerance	Variance Inflation	95% Confidence Limits		Heteroscedasticity Consistent 95% Confidence Limits	
.	.	.	.	0	-2.14350	-0.15862	-2.04618	-0.25594
0.13611	61.15	<.0001	0.72831	1.37305	0.27531	0.46269	0.27833	0.45967
0.02225	10.00	0.0021	0.37019	2.70133	-0.67908	-0.15520	-0.65524	-0.17903
0.06150	27.63	<.0001	0.58801	1.70065	0.19848	0.43945	0.20629	0.43164
0.01821	8.18	0.0052	0.49188	2.03302	0.05333	0.29538	0.06982	0.27889
0.16890	75.88	<.0001	0.34727	2.87960	0.59846	0.95180	0.57883	0.97143

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Collinearity Diagnostics							
Number	Eigenvalue	Condition Index	Proportion of Variation				
			Intercept	x6	x7	x9	x11
1	5.85807	1.00000	0.00036132	0.00063382	0.00036632	0.00077700	0.00067314
2	0.07338	8.93513	0.00005601	0.03512	0.04461	0.01663	0.09016
3	0.03655	12.66077	0.02175	0.24368	0.00101	0.37979	0.01393
4	0.01514	19.66772	0.11788	0.07787	0.05855	0.40891	0.77753
5	0.00973	24.54299	0.65272	0.53229	0.05373	0.05360	0.04144
6	0.00714	28.64651	0.20723	0.11041	0.84174	0.14029	0.07628

Collinearity Diagnostics
Proportion of Variation
x12
0.00040928
0.06048
0.00256
0.01393
0.27463
0.64799

Collinearity Diagnostics (intercept adjusted)							
Number	Eigenvalue	Condition Index	Proportion of Variation				
			x6	x7	x9	x11	x12
1	1.90376	1.00000	0.02306	0.08551	0.01039	0.00260	0.08323
2	1.79113	1.03096	0.08701	0.00042182	0.10634	0.12501	0.00093458
3	0.79654	1.54597	0.52013	0.03272	0.24418	0.00270	0.01115
4	0.31546	2.45658	0.35017	0.08485	0.48914	0.75946	0.02920
5	0.19310	3.13991	0.01963	0.79649	0.14995	0.11023	0.87549

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Heteroscedasticity Consistent Covariance of Estimates						
Variable	**Intercept**	**x6**	**x7**	**x9**	**x11**	**x12**
Intercept	0.2032418141	-0.013834069	-0.012886076	-0.003635958	0.0064727456	-0.012748465
x6	-0.013834069	0.0020852868	-0.000330969	0.0004239434	-0.001675237	0.0011776543
x7	-0.012886076	-0.000330969	0.0143809102	0.001281978	-0.000535206	-0.008158737
x9	-0.003635958	0.0004239434	0.001281978	0.0032201802	-0.001201056	-0.002821187
x11	0.0064727456	-0.001675237	-0.000535206	-0.001201056	0.0027719549	-0.00014443
x12	-0.012748465	0.0011776543	-0.008158737	-0.002821187	-0.00014443	0.0097741402

Test of First and Second Moment Specification		
DF	**Chi-Square**	**Pr > ChiSq**
20	25.66	0.1772

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics										
Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
1	1	8.2	7.7456	0.1156	7.5162	7.9750	6.6113	8.8799	0.4544	0.547
2	2	5.7	6.8253	0.1675	6.4927	7.1579	5.6657	7.9848	-1.1253	0.534
3	3	8.9	8.3976	0.1410	8.1176	8.6776	7.2520	9.5432	0.5024	0.541
4	4	4.8	5.3217	0.1154	5.0926	5.5507	4.1875	6.4559	-0.5217	0.547
5	5	7.1	6.7531	0.0880	6.5784	6.9278	5.6286	7.8776	0.3469	0.553
6	6	4.7	5.0049	0.1242	4.7583	5.2515	3.8670	6.1428	-0.3049	0.546
7	7	5.7	5.2676	0.1757	4.9188	5.6165	4.1033	6.4320	0.4324	0.531
8	8	6.3	5.8720	0.1247	5.6245	6.1196	4.7339	7.0101	0.4280	0.545
9	9	7.0	7.1489	0.1319	6.8870	7.4108	6.0076	8.2902	-0.1489	0.544
10	10	5.5	6.6911	0.1134	6.4660	6.9163	5.5577	7.8246	-1.1911	0.548
11	11	7.4	7.0066	0.1008	6.8065	7.2067	5.8779	8.1353	0.3934	0.550
12	12	6.0	5.9406	0.1502	5.6425	6.2388	4.7905	7.0908	0.0594	0.539
13	13	8.4	8.5382	0.2067	8.1278	8.9486	7.3540	9.7224	-0.1382	0.520
14	14	7.6	7.5564	0.1520	7.2546	7.8581	6.4053	8.7075	0.0436	0.538
15	15	8.0	7.2562	0.1350	6.9881	7.5243	6.1135	8.3989	0.7438	0.543
16	16	6.6	7.1988	0.1315	6.9378	7.4598	6.0577	8.3399	-0.5988	0.544
17	17	6.4	6.1096	0.1193	5.8727	6.3464	4.9738	7.2454	0.2904	0.547
18	18	7.4	6.9914	0.1378	6.7179	7.2649	5.8474	8.1354	0.4086	0.542
19	19	6.8	6.8730	0.1373	6.6004	7.1456	5.7292	8.0168	-0.0730	0.542
20	20	7.6	8.7986	0.1577	8.4854	9.1117	7.6444	9.9527	-1.1986	0.537
21	21	5.4	5.4666	0.1260	5.2163	5.7168	4.3279	6.6053	-0.0666	0.545
22	22	9.9	9.3887	0.2299	8.9321	9.8452	8.1877	10.5897	0.5113	0.510
23	23	7.0	7.0632	0.1072	6.8503	7.2762	5.9322	8.1943	-0.0632	0.549
24	24	8.6	8.3195	0.1687	7.9844	8.6545	7.1592	9.4797	0.2805	0.533
25	25	4.8	5.8841	0.1105	5.6647	6.1034	4.7518	7.0163	-1.0841	0.548
26	26	6.6	6.4427	0.1385	6.1676	6.7177	5.2983	7.5871	0.1573	0.542
27	27	6.3	6.7771	0.1207	6.5374	7.0168	5.6407	7.9135	-0.4771	0.546
28	28	5.4	5.9021	0.1033	5.6970	6.1072	4.7725	7.0317	-0.5021	0.550
29	29	6.3	6.8409	0.1200	6.6026	7.0791	5.7048	7.9770	-0.5409	0.546
30	30	5.4	5.7254	0.1023	5.5223	5.9284	4.5961	6.8546	-0.3254	0.550
31	31	6.1	6.1073	0.1281	5.8530	6.3616	4.9677	7.2468	-0.007275	0.545
32	32	6.4	6.0650	0.1172	5.8322	6.2978	4.9301	7.2000	0.3350	0.547
33	33	5.4	6.1557	0.0777	6.0013	6.3100	5.0342	7.2772	-0.7557	0.554
34	34	7.3	6.6876	0.1114	6.4665	6.9087	5.5550	7.8202	0.6124	0.548
35	35	6.3	7.1090	0.1794	6.7528	7.4652	5.9425	8.2756	-0.8090	0.530
36	36	5.4	5.4074	0.1607	5.0883	5.7264	4.2516	6.5631	-0.007362	0.536
37	37	7.1	6.7531	0.0880	6.5784	6.9278	5.6286	7.8776	0.3469	0.553
38	38	8.7	8.6152	0.1274	8.3623	8.8682	7.4760	9.7545	0.0848	0.545

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics									
							DFBETAS		
Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	Intercept	x6	x7
0.830	| * |	0.005	0.8287	0.0427	1.0657	0.1749	-0.0519	0.1015	-0.0358
-2.108	| **** |	0.073	-2.1482	0.0896	0.8759	-0.6741	-0.1007	0.1253	-0.0605
0.928	| * |	0.010	0.9272	0.0635	1.0775	0.2415	-0.0544	0.0327	-0.1454
-0.953	| * |	0.007	-0.9525	0.0425	1.0506	-0.2007	-0.1592	0.0989	0.0247
0.628	| * |	0.002	0.6258	0.0247	1.0661	0.0997	0.0024	0.0434	0.0053
-0.559	| * |	0.003	-0.5569	0.0493	1.0994	-0.1268	-0.1139	0.0402	0.0212
0.814	| * |	0.012	0.8125	0.0986	1.1338	0.2688	0.1125	0.0436	-0.0308
0.785	| * |	0.005	0.7831	0.0497	1.0786	0.1790	0.1124	-0.0289	-0.0665
-0.274	| |	0.001	-0.2726	0.0556	1.1236	-0.0661	-0.0199	0.0415	0.0272
-2.174	| **** |	0.034	-2.2191	0.0411	0.8159	-0.4593	0.0136	0.2035	-0.2840
0.715	| * |	0.003	0.7130	0.0324	1.0666	0.1306	0.0170	0.0021	-0.0403
0.110	| |	0.000	0.1096	0.0720	1.1482	0.0305	0.0033	-0.0068	0.0139
-0.266	| |	0.002	-0.2645	0.1365	1.2293	-0.1052	0.0780	-0.0392	-0.0810
0.081	| |	0.000	0.0806	0.0738	1.1507	0.0227	-0.0065	-0.0015	0.0069
1.370	| **	0.019	1.3764	0.0582	1.0032	0.3423	-0.0399	-0.1981	0.1428
-1.101	| ** |	0.012	-1.1024	0.0552	1.0440	-0.2665	0.0190	0.0113	-0.0641
0.531	| * |	0.002	0.5293	0.0455	1.0971	0.1155	0.0417	-0.0795	0.0431
0.754	| * |	0.006	0.7518	0.0606	1.0946	0.1910	0.0160	-0.1170	0.0465
-0.135	| |	0.000	-0.1338	0.0602	1.1333	-0.0339	-0.0147	0.0225	0.0168
-2.233	| **** |	0.072	-2.2823	0.0795	0.8352	-0.6706	0.3935	-0.3995	0.0781
-0.122	| |	0.000	-0.1215	0.0508	1.1222	-0.0281	-0.0176	0.0180	-0.0054
1.003	| **	0.034	1.0026	0.1689	1.2029	0.4520	-0.3143	0.0596	0.1549
-0.115	| |	0.000	-0.1146	0.0367	1.1060	-0.0224	0.0013	0.0025	-0.0030
0.526	| * |	0.005	0.5239	0.0910	1.1524	0.1657	-0.0039	0.0405	-0.1149
-1.977	| *** |	0.026	-2.0082	0.0390	0.8600	-0.4044	-0.1742	0.2796	-0.1398
0.290	| |	0.001	0.2888	0.0613	1.1298	0.0738	0.0214	-0.0013	-0.0076
-0.873	| * |	0.006	-0.8722	0.0466	1.0650	-0.1928	-0.0309	0.0352	-0.0113
-0.913	| * |	0.005	-0.9124	0.0341	1.0464	-0.1714	-0.0876	0.0179	-0.0287
-0.990	| * |	0.008	-0.9897	0.0460	1.0496	-0.2173	-0.0300	0.0357	-0.0148
-0.592	| * |	0.002	-0.5895	0.0334	1.0787	-0.1096	-0.0459	-0.0214	-0.0262
-0.013	| |	0.000	-0.0133	0.0524	1.1252	-0.0031	-0.0015	0.0019	0.0004
0.612	| * |	0.003	0.6103	0.0439	1.0888	0.1308	0.0808	0.0172	-0.0721
-1.364	| ** |	0.006	-1.3703	0.0193	0.9644	-0.1922	-0.1002	0.0820	-0.0461
1.117	| **	0.009	1.1185	0.0396	1.0247	0.2272	0.0383	0.0922	-0.0276
-1.527	| *** |	0.045	-1.5377	0.1028	1.0223	-0.5205	-0.0868	0.1588	0.2392
-0.014	| |	0.000	-0.0137	0.0825	1.1621	-0.0041	-0.0009	-0.0004	-0.0022
0.628	| * |	0.002	0.6258	0.0247	1.0661	0.0997	0.0024	0.0434	0.0053
0.156	| |	0.000	0.1548	0.0519	1.1229	0.0362	-0.0263	0.0150	0.0106

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics		
DFBETAS		
x9	x11	x12
0.0757	-0.1176	0.0597
-0.2733	-0.1396	0.3521
-0.0941	0.1212	0.1736
0.1186	-0.0404	0.0019
-0.0413	0.0102	-0.0135
0.0163	0.0255	0.0313
-0.0888	-0.1305	0.0502
0.0338	-0.1023	0.0357
-0.0192	-0.0079	-0.0240
-0.1117	-0.0135	0.1858
-0.0791	0.0781	0.0282
-0.0109	-0.0026	-0.0015
-0.0268	0.0105	0.0400
-0.0103	0.0176	-0.0042
0.0768	0.1170	-0.0769
-0.0847	-0.0755	0.1443
0.0293	0.0065	-0.0469
0.0887	0.0246	-0.0462
-0.0069	-0.0045	-0.0132
-0.2259	0.3197	-0.3052
-0.0047	0.0057	0.0080
-0.1664	0.2251	0.0911
0.0125	-0.0167	0.0022
0.0670	-0.0118	0.0610
0.1535	-0.1356	0.0823
0.0491	-0.0558	-0.0029
0.0214	-0.1061	0.0733
-0.0824	0.0902	0.0904
0.0023	-0.1071	0.0888
0.0208	0.0502	0.0340
0.0023	-0.0023	-0.0003
-0.0137	-0.0267	0.0125
-0.0311	0.0383	0.0684
0.1364	-0.1837	-0.0294
0.3571	-0.2245	-0.3917
0.0007	-0.0003	0.0033
-0.0413	0.0102	-0.0135
0.0159	0.0023	-0.0059

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics										
Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
39	39	7.6	7.0806	0.1154	6.8514	7.3098	5.9464	8.2148	0.5194	0.547
40	40	6.0	6.2277	0.1402	5.9493	6.5061	5.0825	7.3729	-0.2277	0.542
41	41	7.0	7.0804	0.1105	6.8609	7.2998	5.9481	8.2127	-0.0804	0.548
42	42	7.6	7.3862	0.0918	7.2040	7.5685	6.2606	8.5119	0.2138	0.552
43	43	8.9	8.3562	0.1647	8.0292	8.6832	7.1983	9.5142	0.5438	0.535
44	44	7.6	7.7918	0.1827	7.4290	8.1545	6.6232	8.9604	-0.1918	0.529
45	45	5.5	6.6906	0.1681	6.3568	7.0244	5.5307	7.8505	-1.1906	0.534
46	46	7.4	6.5767	0.1229	6.3326	6.8208	5.4394	7.7141	0.8233	0.546
47	47	7.1	7.1843	0.2095	6.7684	7.6002	5.9981	8.3704	-0.0843	0.519
48	48	7.6	7.4039	0.1532	7.0997	7.7082	6.2522	8.5557	0.1961	0.538
49	49	8.7	9.3181	0.1739	8.9728	9.6635	8.1549	10.4814	-0.6181	0.532
50	50	8.6	7.6860	0.0908	7.5057	7.8662	6.5606	8.8113	0.9140	0.552
51	51	5.4	5.6993	0.0903	5.5199	5.8786	4.5741	6.8245	-0.2993	0.552
52	52	5.7	6.8891	0.1728	6.5460	7.2321	5.7265	8.0517	-1.1891	0.532
53	53	8.7	8.0587	0.1507	7.7595	8.3580	6.9083	9.2092	0.6413	0.539
54	54	6.1	6.1392	0.1237	5.8935	6.3848	5.0015	7.2768	-0.0392	0.546
55	55	7.3	6.7195	0.1151	6.4909	6.9481	5.5854	7.8536	0.5805	0.547
56	56	7.7	7.8927	0.0875	7.7190	8.0663	6.7683	9.0170	-0.1927	0.553
57	57	9.0	8.5119	0.1592	8.1958	8.8280	7.3569	9.6668	0.4881	0.536
58	58	8.2	7.3381	0.0796	7.1800	7.4962	6.2160	8.4601	0.8619	0.554
59	59	7.1	6.3550	0.1860	5.9858	6.7242	5.1844	7.5256	0.7450	0.528
60	60	7.9	7.2591	0.1888	6.8842	7.6339	6.0867	8.4315	0.6409	0.527
61	61	6.6	6.9755	0.1246	6.7280	7.2230	5.8375	8.1136	-0.3755	0.545
62	62	8.0	7.3510	0.1070	7.1386	7.5633	6.2200	8.4819	0.6490	0.549
63	63	6.3	6.6361	0.1220	6.3939	6.8783	5.4992	7.7730	-0.3361	0.546
64	64	6.0	5.6628	0.1415	5.3818	5.9437	4.5170	6.8086	0.3372	0.541
65	65	5.4	5.6305	0.0950	5.4419	5.8191	4.5037	6.7572	-0.2305	0.551
66	66	7.6	7.1488	0.1303	6.8900	7.4075	6.0082	8.2893	0.4512	0.544
67	67	6.4	6.2372	0.1276	5.9838	6.4905	5.0978	7.3765	0.1628	0.545
68	68	6.1	5.7796	0.1158	5.5497	6.0096	4.6453	6.9140	0.3204	0.547
69	69	5.2	5.4758	0.1129	5.2516	5.6999	4.3425	6.6090	-0.2758	0.548
70	70	6.6	6.1875	0.1122	5.9647	6.4103	5.0545	7.3205	0.4125	0.548
71	71	7.6	8.6391	0.1502	8.3408	8.9374	7.4889	9.7893	-1.0391	0.539
72	72	5.8	5.7531	0.1590	5.4374	6.0688	4.5982	6.9079	0.0469	0.536
73	73	7.9	7.3081	0.1065	7.0967	7.5195	6.1773	8.4389	0.5919	0.549
74	74	8.6	8.8716	0.2024	8.4698	9.2734	7.6903	10.0529	-0.2716	0.522
75	75	8.2	7.6180	0.1073	7.4049	7.8311	6.4869	8.7491	0.5820	0.549
76	76	7.1	7.5947	0.1270	7.3427	7.8468	6.4557	8.7338	-0.4947	0.545

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics									
							DFBETAS		
Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	Intercept	x6	x7
0.949	| |* |	0.007	0.9483	0.0426	1.0512	0.2000	-0.0157	0.0929	0.0126
-0.420	| | |	0.002	-0.4185	0.0628	1.1249	-0.1083	-0.0029	0.0178	-0.0565
-0.147	| | |	0.000	-0.1458	0.0390	1.1081	-0.0294	-0.0013	-0.0154	0.0094
0.387	| | |	0.001	0.3856	0.0269	1.0853	0.0641	-0.0284	0.0380	0.0230
1.017	| |** |	0.016	1.0172	0.0867	1.0925	0.3133	-0.2340	0.1373	0.2173
-0.363	| | |	0.003	-0.3610	0.1066	1.1836	-0.1247	0.0152	0.0598	-0.0041
-2.231	| **** | |	0.082	-2.2806	0.0903	0.8456	-0.7185	-0.1762	0.1585	0.0199
1.508	| |*** |	0.019	1.5189	0.0483	0.9672	0.3421	0.0824	-0.2770	0.0739
-0.162	| | |	0.001	-0.1617	0.1402	1.2381	-0.0653	0.0261	-0.0400	-0.0426
0.364	| | |	0.002	0.3627	0.0750	1.1430	0.1033	0.0146	-0.0477	-0.0249
-1.162	| ** | |	0.024	-1.1647	0.0966	1.0821	-0.3809	0.1692	-0.1589	0.2239
1.656	| |*** |	0.012	1.6714	0.0263	0.9169	0.2749	-0.0566	-0.0669	-0.0569
-0.542	| * | |	0.001	-0.5400	0.0261	1.0744	-0.0883	-0.0602	0.0340	-0.0077
-2.235	| **** | |	0.088	-2.2842	0.0954	0.8495	-0.7417	-0.0955	0.1236	-0.0691
1.190	| |** |	0.018	1.1929	0.0726	1.0496	0.3337	0.0076	0.0682	-0.2586
-0.072	| | |	0.000	-0.0714	0.0489	1.1207	-0.0162	-0.0077	0.0098	0.0021
1.060	| |** |	0.008	1.0610	0.0423	1.0359	0.2231	0.0337	0.0898	-0.0252
-0.349	| | |	0.001	-0.3470	0.0244	1.0845	-0.0549	0.0298	-0.0357	0.0043
0.910	| |* |	0.012	0.9093	0.0810	1.1002	0.2699	-0.1540	-0.0410	0.1207
1.557	| |*** |	0.008	1.5686	0.0203	0.9305	0.2255	0.0164	-0.0836	-0.0854
1.412	| |** |	0.041	1.4195	0.1105	1.0540	0.5003	-0.1282	0.2640	0.3304
1.217	| |** |	0.032	1.2201	0.1139	1.0939	0.4374	-0.0473	0.2525	0.0232
-0.689	| * | |	0.004	-0.6866	0.0496	1.0884	-0.1569	-0.0005	0.0173	-0.0350
1.182	| |** |	0.009	1.1845	0.0365	1.0116	0.2307	-0.0295	0.1231	-0.0738
-0.616	| * | |	0.003	-0.6135	0.0475	1.0927	-0.1371	0.0223	-0.0861	-0.0638
0.623	| |* |	0.004	0.6210	0.0640	1.1112	0.1623	0.1145	0.0071	-0.0870
-0.418	| | |	0.001	-0.4162	0.0288	1.0857	-0.0717	-0.0496	0.0307	-0.0054
0.829	| |* |	0.007	0.8280	0.0543	1.0789	0.1983	0.0499	-0.1219	-0.0629
0.299	| | |	0.001	0.2975	0.0520	1.1184	0.0697	0.0205	-0.0423	0.0255
0.585	| |* |	0.003	0.5833	0.0429	1.0899	0.1234	0.0759	-0.1007	0.0170
-0.503	| * | |	0.002	-0.5012	0.0407	1.0937	-0.1033	-0.0527	-0.0107	-0.0143
0.753	| |* |	0.004	0.7508	0.0402	1.0714	0.1537	0.0703	-0.0162	-0.0255
-1.928	| *** | |	0.048	-1.9569	0.0721	0.9020	-0.5455	0.3108	-0.3200	0.0765
0.088	| | |	0.000	0.0870	0.0808	1.1594	0.0258	0.0137	-0.0147	-0.0053
1.078	| |** |	0.007	1.0786	0.0362	1.0268	0.2091	-0.0173	-0.1147	0.0464
-0.521	| * | |	0.007	-0.5187	0.1308	1.2057	-0.2012	0.0575	-0.0559	0.1092
1.060	| |** |	0.007	1.0607	0.0368	1.0299	0.2073	-0.0554	0.1205	-0.0498
-0.908	| * | |	0.007	-0.9071	0.0515	1.0663	-0.2114	0.0235	-0.1437	0.1074

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics		
DFBETAS		
x9	x11	x12
0.1468	-0.1610	-0.0407
-0.0006	0.0353	0.0166
-0.0126	0.0222	-0.0061
-0.0049	0.0023	-0.0175
0.1080	-0.0584	-0.1051
-0.0236	-0.0065	-0.0432
-0.2876	-0.1323	0.3257
-0.0416	0.1815	-0.0366
-0.0338	0.0373	0.0424
0.0614	-0.0149	0.0208
0.0449	-0.0479	-0.3054
-0.0920	0.1786	0.1254
0.0375	0.0002	0.0126
-0.3436	-0.1175	0.3889
-0.0053	0.0722	0.1743
0.0114	-0.0120	-0.0015
0.1414	-0.1816	-0.0309
-0.0002	0.0021	-0.0142
0.0991	0.0421	-0.0191
-0.0468	0.1261	0.0957
-0.1329	-0.0667	-0.2574
0.3112	-0.2707	-0.1764
0.0008	-0.0791	0.0759
0.0063	-0.1192	0.1140
-0.0436	0.0942	0.0637
0.0050	-0.0484	0.0030
0.0342	-0.0043	0.0086
0.0648	0.0108	0.0658
0.0298	-0.0043	-0.0299
0.0004	0.0220	-0.0298
0.0420	0.0301	0.0216
0.0598	-0.1035	0.0095
-0.0828	0.2066	-0.2888
-0.0203	0.0186	0.0039
0.0542	0.0490	-0.0014
0.1049	-0.0726	-0.1603
0.0497	-0.1218	0.0881
0.0198	0.0420	-0.0821

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics										
Obs	id	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual	Std Error Residual
77	77	6.4	6.2965	0.0789	6.1400	6.4531	5.1747	7.4184	0.1035	0.554
78	78	7.6	7.6414	0.1005	7.4419	7.8409	6.5128	8.7700	-0.0414	0.550
79	79	8.9	9.1257	0.1451	8.8375	9.4139	7.9781	10.2733	-0.2257	0.540
80	80	5.7	6.8033	0.1417	6.5220	7.0847	5.6574	7.9492	-1.1033	0.541
81	81	7.1	7.5309	0.1287	7.2755	7.7864	6.3911	8.6708	-0.4309	0.544
82	82	7.4	7.0385	0.0972	6.8455	7.2315	5.9110	8.1660	0.3615	0.551
83	83	6.6	6.1335	0.1110	5.9131	6.3539	5.0010	7.2660	0.4665	0.548
84	84	5.0	5.4052	0.1488	5.1097	5.7007	4.2558	6.5547	-0.4052	0.539
85	85	8.2	7.2992	0.1345	7.0323	7.5662	6.1568	8.4417	0.9008	0.543
86	86	5.2	5.7947	0.1042	5.5879	6.0016	4.6648	6.9246	-0.5947	0.550
87	87	5.2	4.6795	0.1711	4.3398	5.0193	3.5179	5.8412	0.5205	0.533
88	88	8.2	7.3311	0.1357	7.0617	7.6005	6.1881	8.4742	0.8689	0.543
89	89	7.3	7.0741	0.0842	6.9070	7.2413	5.9508	8.1975	0.2259	0.553
90	90	8.2	8.1668	0.1937	7.7821	8.5515	6.9913	9.3423	0.0332	0.525
91	91	7.4	7.2553	0.1239	7.0092	7.5013	6.1175	8.3930	0.1447	0.546
92	92	4.8	4.6096	0.1828	4.2466	4.9726	3.4410	5.7783	0.1904	0.529
93	93	7.6	7.4926	0.1579	7.1791	7.8060	6.3384	8.6468	0.1074	0.537
94	94	8.9	9.1895	0.1508	8.8901	9.4889	8.0390	10.3399	-0.2895	0.539
95	95	7.7	7.5418	0.1099	7.3237	7.7599	6.4098	8.6739	0.1582	0.549
96	96	7.3	7.1749	0.1329	6.9110	7.4388	6.0332	8.3167	0.1251	0.543
97	97	6.3	6.2439	0.0901	6.0650	6.4227	5.1187	7.3690	0.0561	0.552
98	98	5.4	5.0565	0.1841	4.6910	5.4220	3.8871	6.2259	0.3435	0.528
99	99	6.4	7.8012	0.1264	7.5502	8.0521	6.6623	8.9400	-1.4012	0.545
100	100	6.4	6.5922	0.1249	6.3443	6.8402	5.4541	7.7304	-0.1922	0.545

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics									
							DFBETAS		
Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H	Cov Ratio	DFFITS	Intercept	x6	x7
0.187	| | |	0.000	0.1858	0.0199	1.0855	0.0265	0.0101	0.0052	-0.0005
-0.075	| | |	0.000	-0.0748	0.0323	1.1014	-0.0137	0.0070	-0.0087	-0.0051
-0.418	| | |	0.002	-0.4159	0.0673	1.1306	-0.1117	0.0519	-0.0346	0.0523
-2.039	| **** | |	0.047	-2.0741	0.0641	0.8686	-0.5430	-0.1901	0.0999	0.3667
-0.792	| * | |	0.006	-0.7899	0.0529	1.0815	-0.1867	0.0165	-0.1219	0.0952
0.656	| | * |	0.002	0.6541	0.0302	1.0696	0.1154	0.0139	0.0033	-0.0363
0.851	| | * |	0.005	0.8495	0.0394	1.0597	0.1720	0.0748	0.0305	-0.0461
-0.751	| * | |	0.007	-0.7496	0.0708	1.1067	-0.2069	-0.1333	0.0064	0.0780
1.659	| | *** |	0.028	1.6745	0.0578	0.9469	0.4146	0.1275	-0.1243	-0.2568
-1.082	| ** | |	0.007	-1.0829	0.0347	1.0246	-0.2052	-0.0861	-0.0461	-0.0414
0.977	| | * |	0.016	0.9769	0.0935	1.1064	0.3138	0.2279	-0.2092	-0.0134
1.601	| | *** |	0.027	1.6145	0.0588	0.9598	0.4036	0.1188	-0.1164	-0.2461
0.408	| | |	0.001	0.4066	0.0226	1.0794	0.0619	-0.0155	0.0351	0.0205
0.063	| | |	0.000	0.0629	0.1199	1.2112	0.0232	-0.0066	-0.0088	0.0038
0.265	| | |	0.001	0.2639	0.0491	1.1163	0.0599	-0.0070	0.0150	-0.0106
0.360	| | |	0.003	0.3584	0.1068	1.1839	0.1239	0.0367	0.0070	0.0713
0.200	| | |	0.001	0.1991	0.0796	1.1556	0.0586	-0.0151	-0.0045	0.0168
-0.537	| * | |	0.004	-0.5353	0.0726	1.1288	-0.1498	0.0698	-0.0469	0.0665
0.288	| | |	0.001	0.2870	0.0386	1.1032	0.0575	-0.0168	0.0230	-0.0067
0.230	| | |	0.001	0.2290	0.0564	1.1262	0.0560	-0.0271	0.0156	0.0459
0.102	| | |	0.000	0.1011	0.0259	1.0939	0.0165	0.0074	0.0028	-0.0021
0.650	| | * |	0.009	0.6482	0.1083	1.1638	0.2258	0.0641	0.0025	0.0992
-2.571	| ***** | |	0.059	-2.6521	0.0510	0.7255	-0.6150	0.2836	-0.1077	-0.1251
-0.353	| | |	0.001	-0.3509	0.0498	1.1133	-0.0803	-0.0269	-0.0281	0.0399

Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

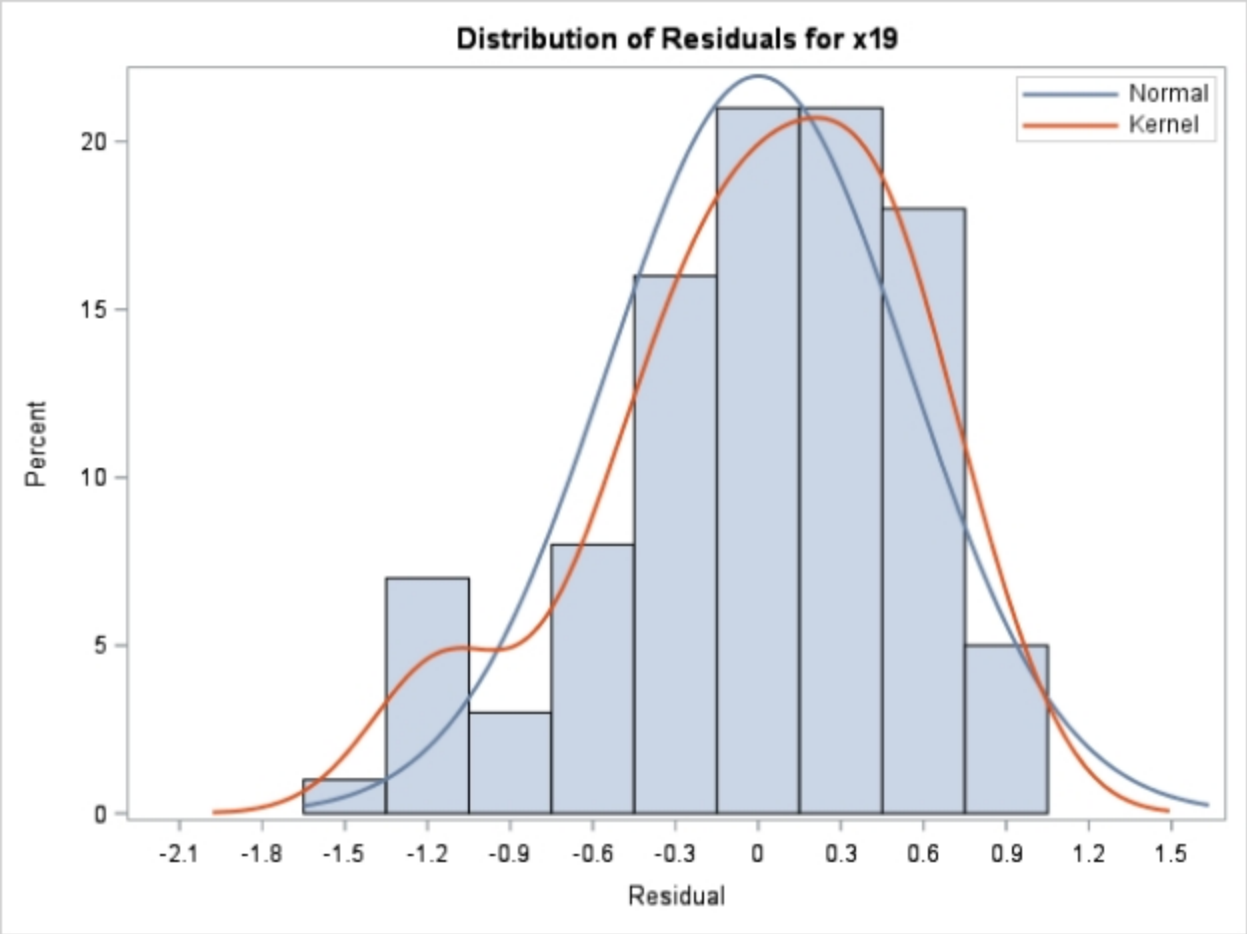
The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

Output Statistics		
DFBETAS		
x9	x11	x12
-0.0023	-0.0131	-0.0006
-0.0056	0.0035	0.0051
-0.0482	-0.0016	-0.0538
0.3035	-0.1111	-0.4220
0.0348	0.0260	-0.0761
-0.0653	0.0672	0.0240
-0.0967	0.0256	0.0031
0.0287	0.1046	-0.0535
0.0746	0.1311	0.0990
-0.0291	0.1369	0.0770
-0.2028	0.0983	0.0166
0.0900	0.1156	0.0909
0.0042	-0.0078	-0.0251
0.0035	0.0021	0.0071
-0.0454	0.0257	0.0232
-0.0451	-0.0306	-0.0606
-0.0301	0.0464	-0.0093
-0.0742	0.0052	-0.0664
-0.0348	0.0193	0.0208
-0.0036	-0.0009	-0.0254
0.0046	-0.0114	-0.0013
-0.1150	0.0650	-0.1364
0.1008	0.0399	-0.2284
-0.0247	0.0557	-0.0199

Sum of Residuals	0
Sum of Squared Residuals	29.42211
Predicted Residual SS (PRESS)	33.53338

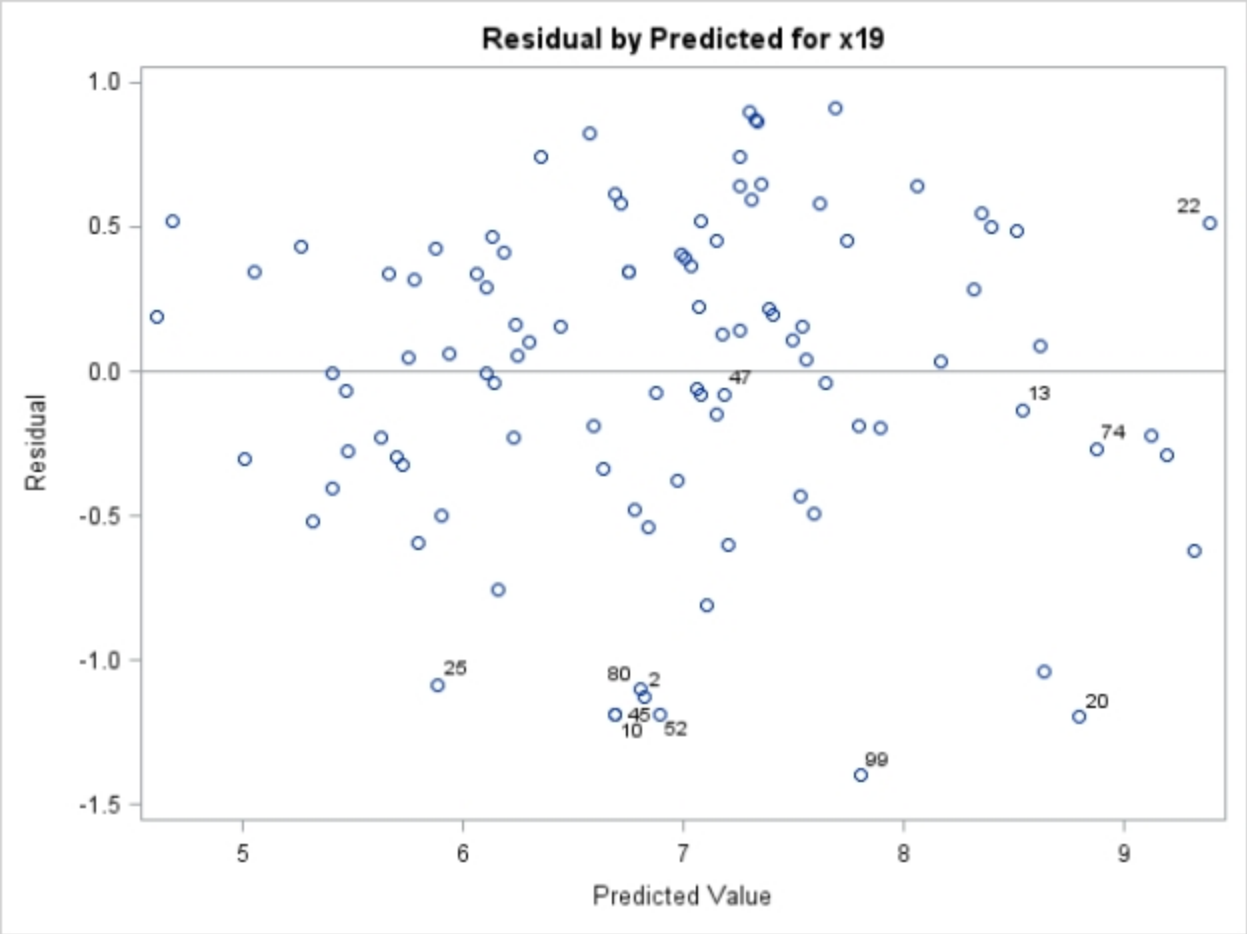
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



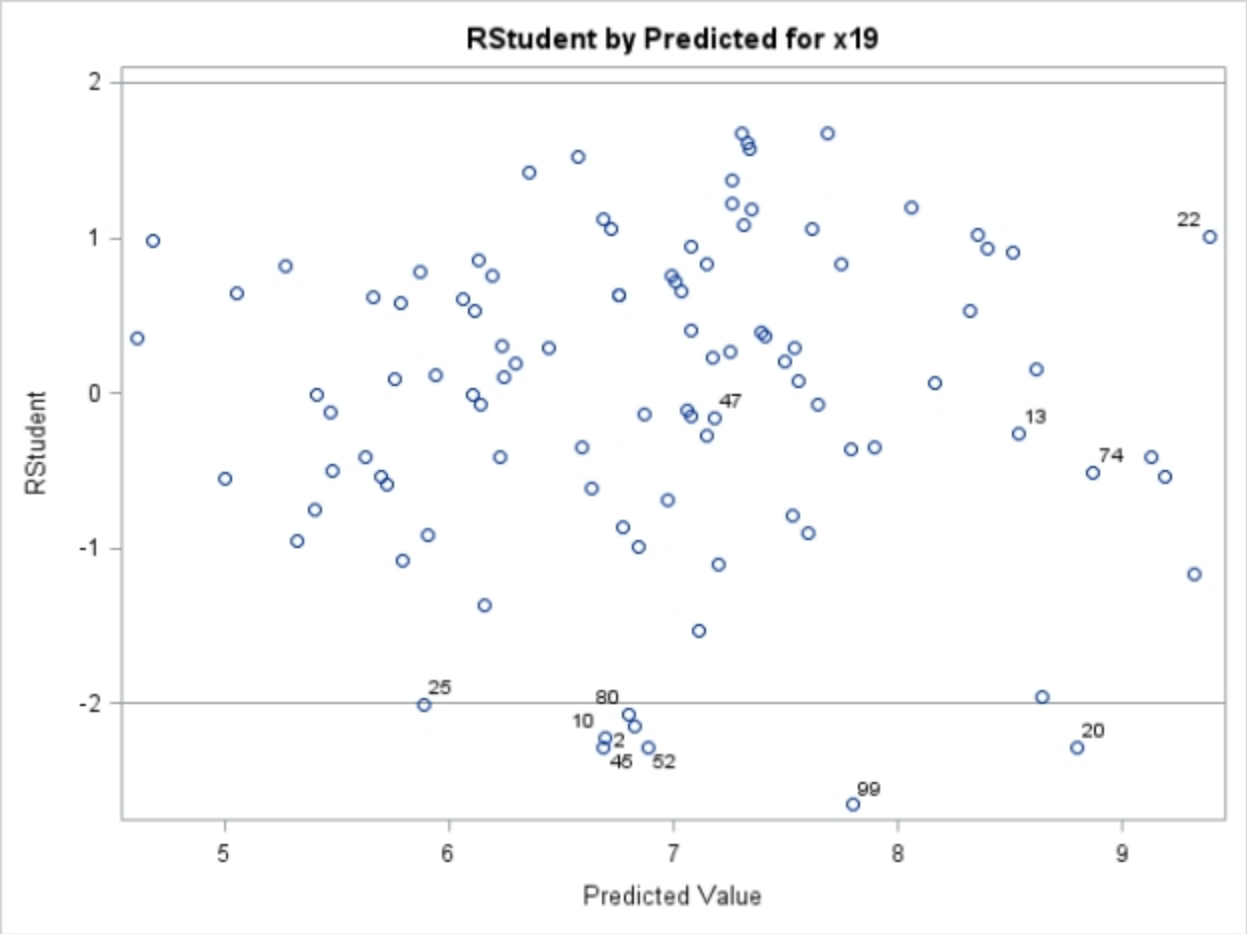
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



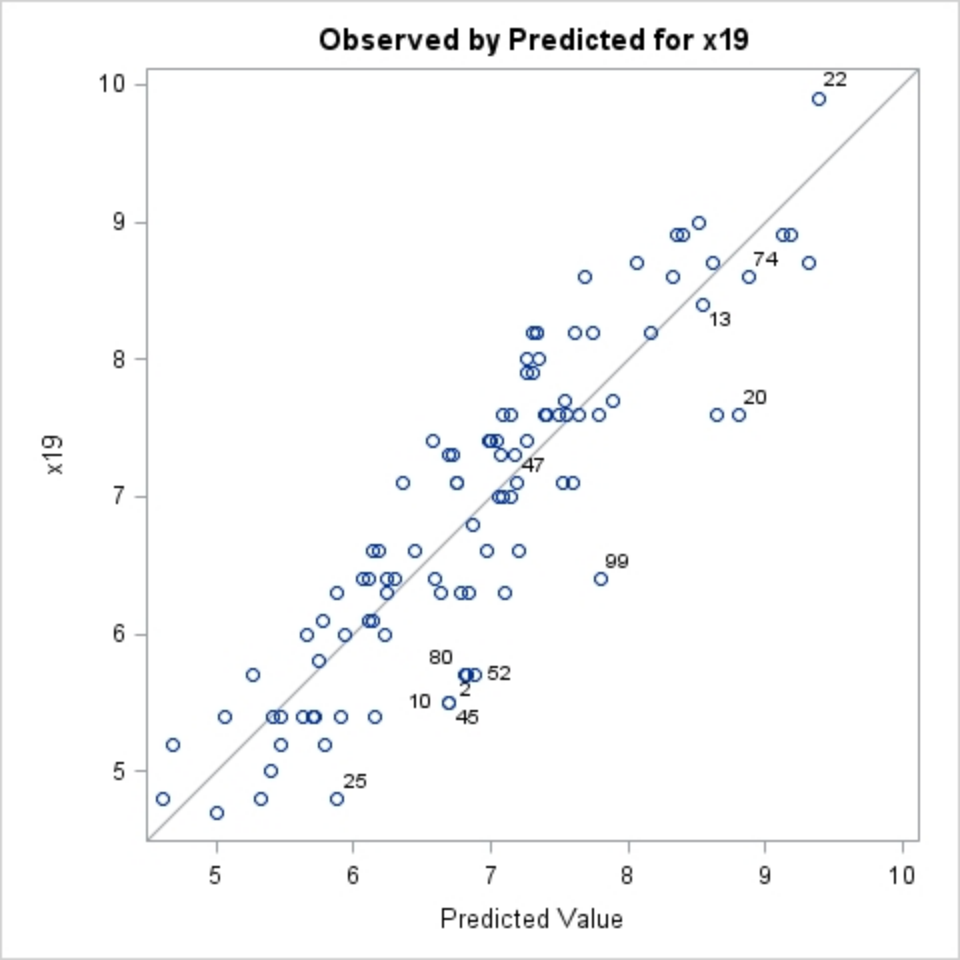
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



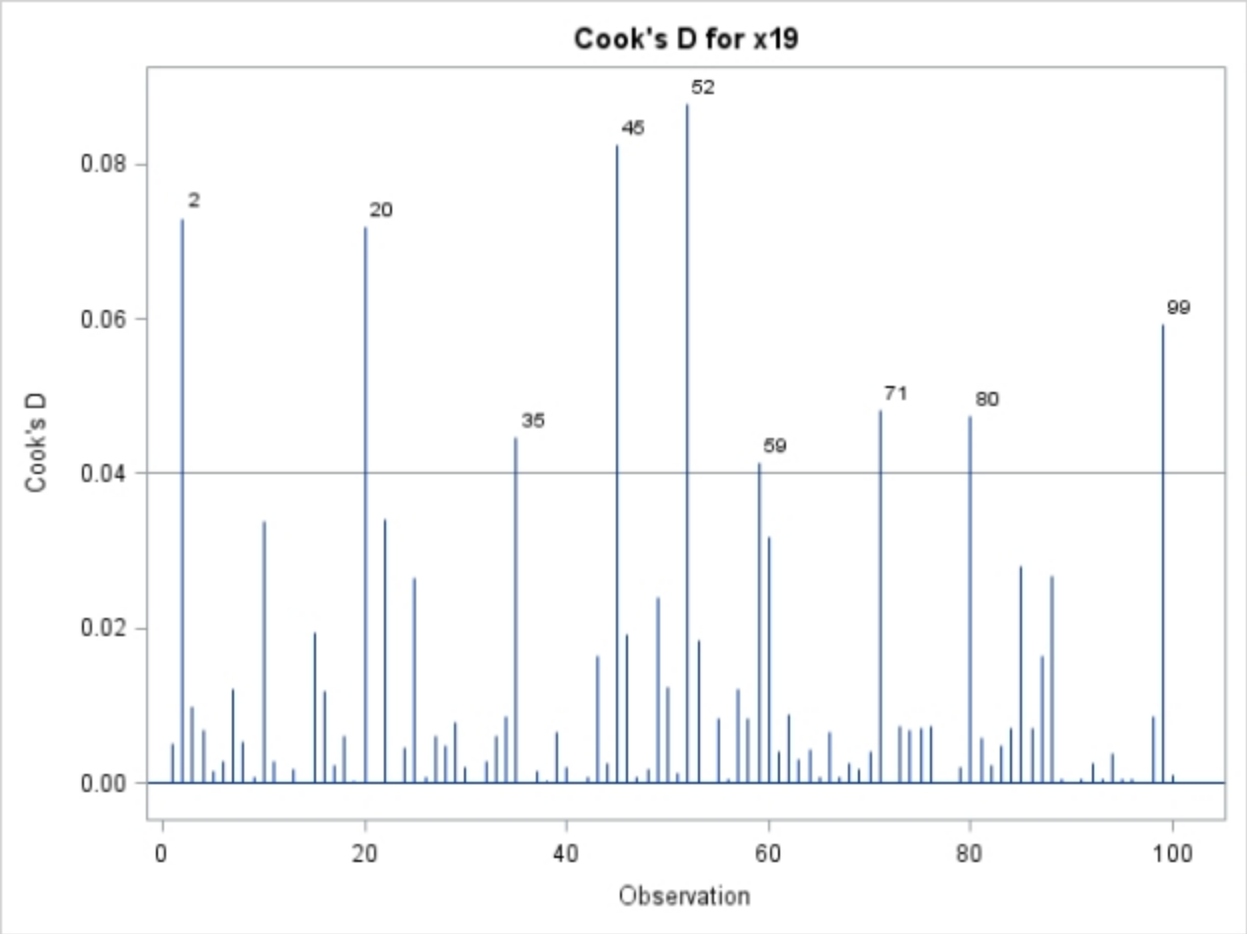
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



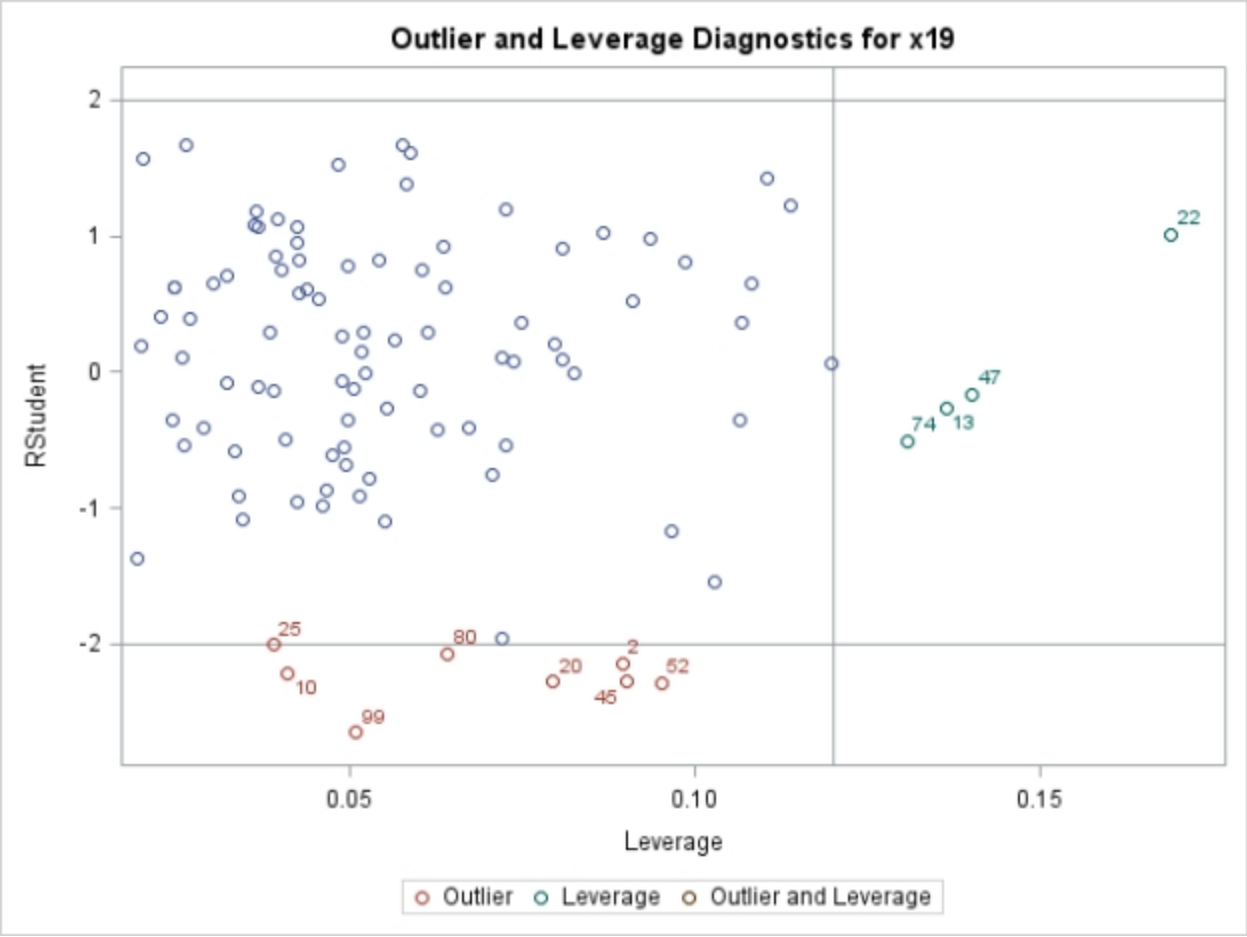
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



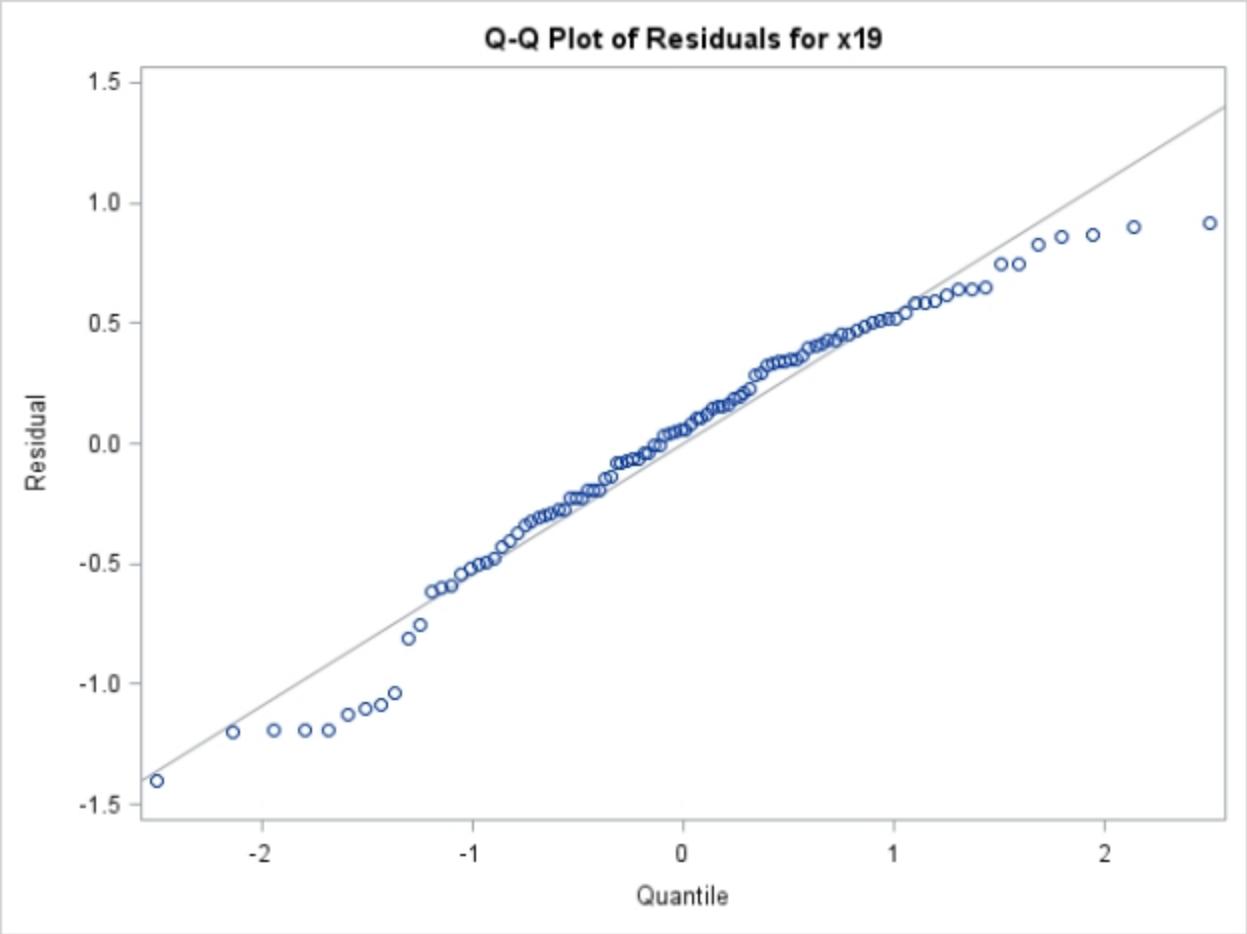
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



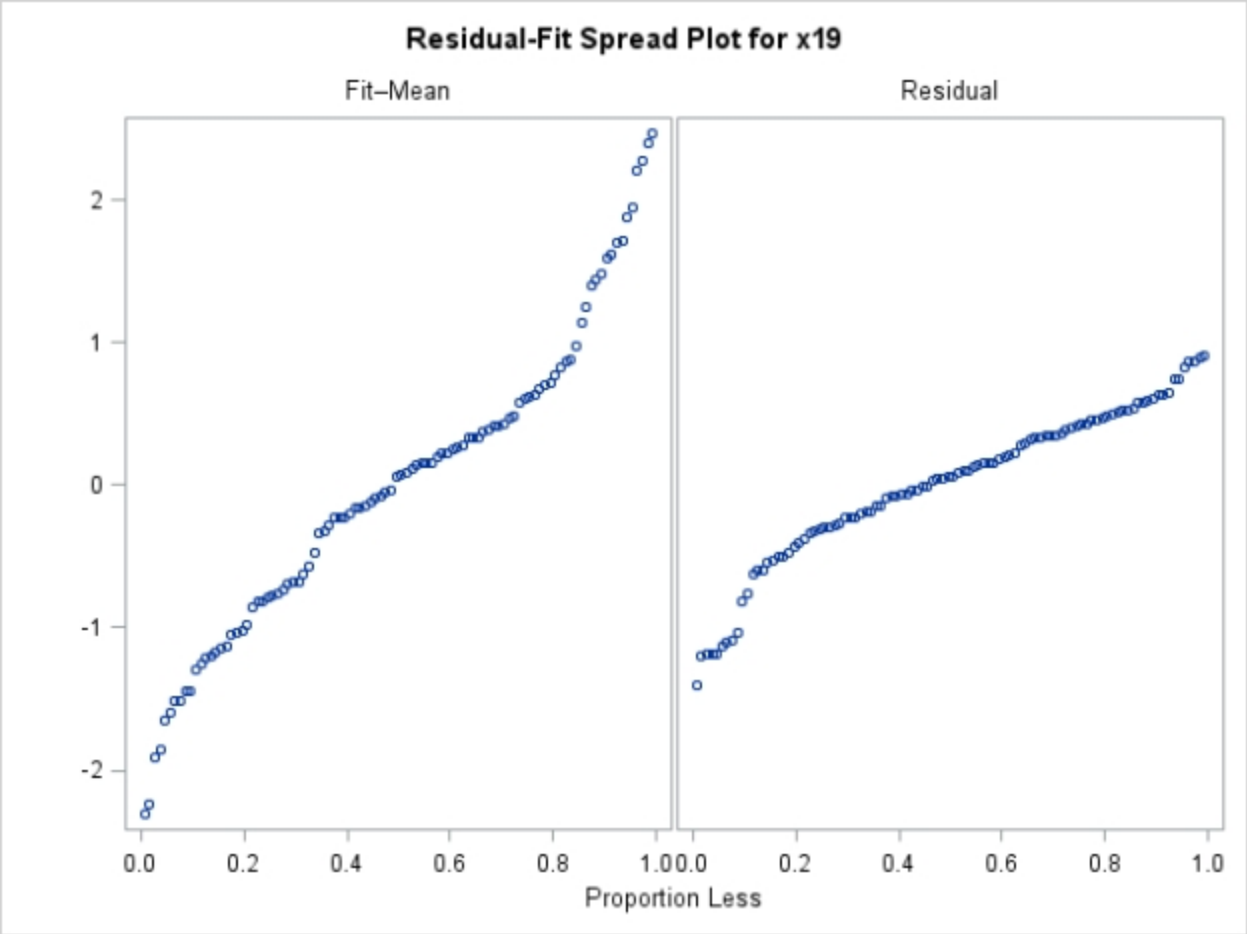
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

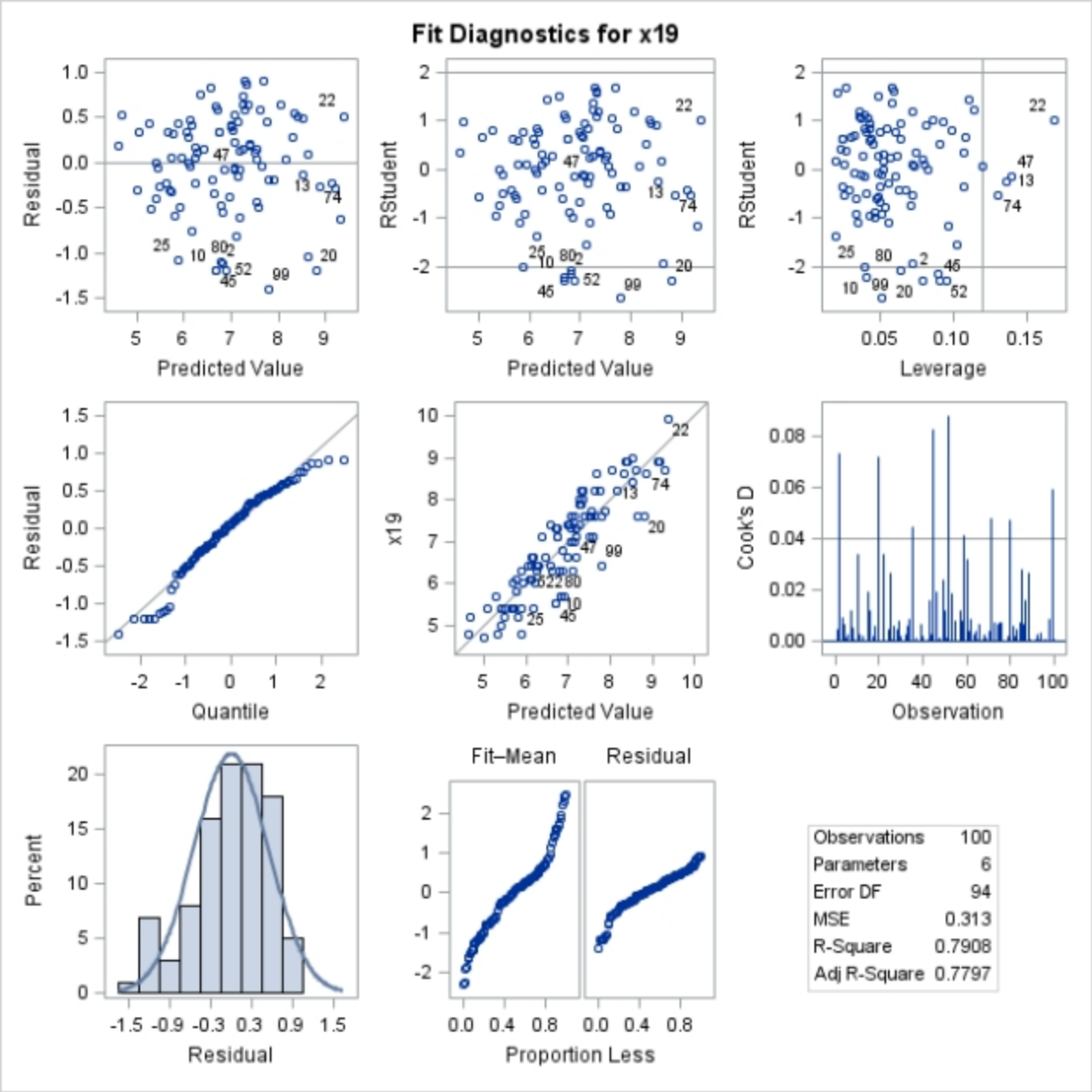


Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19

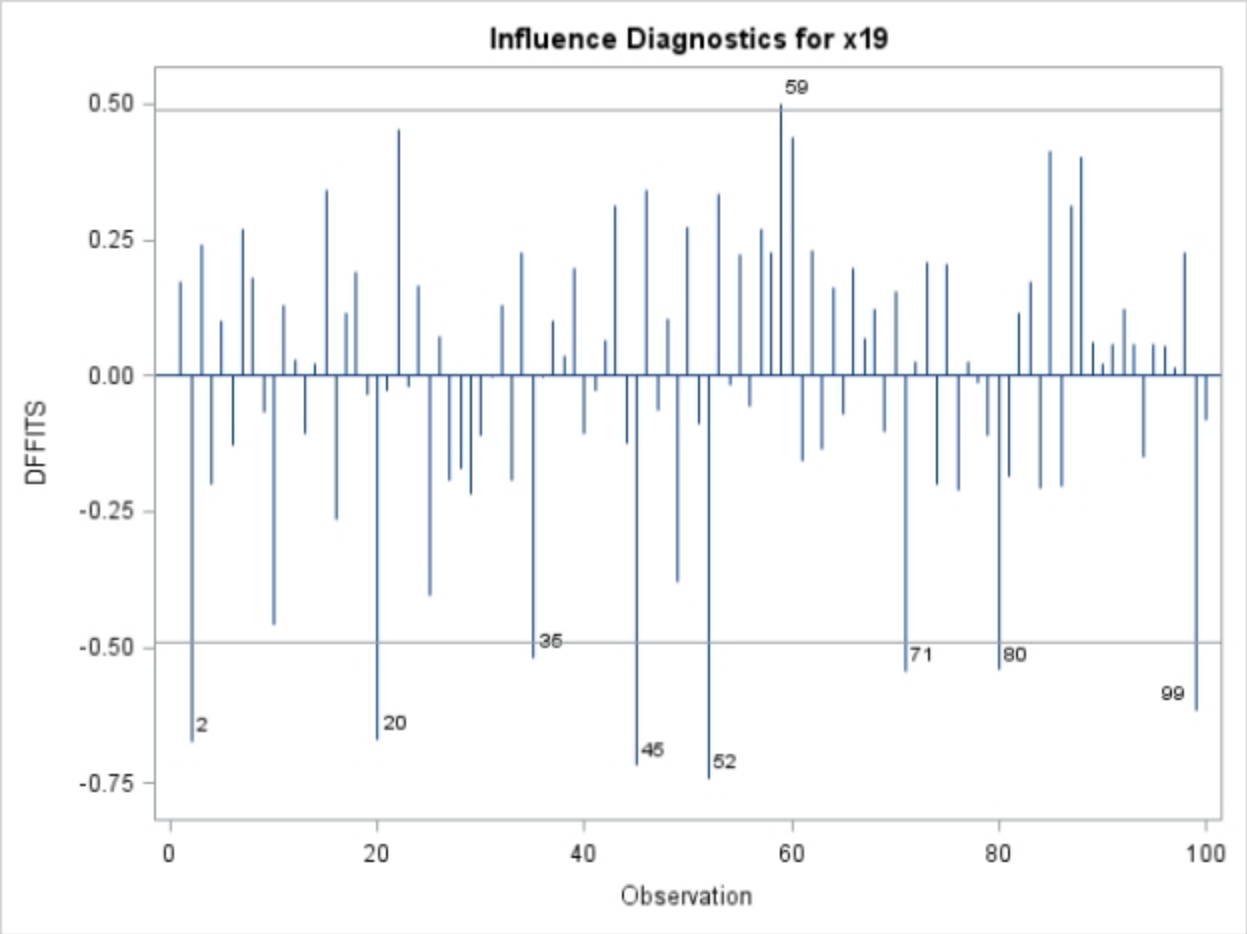
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



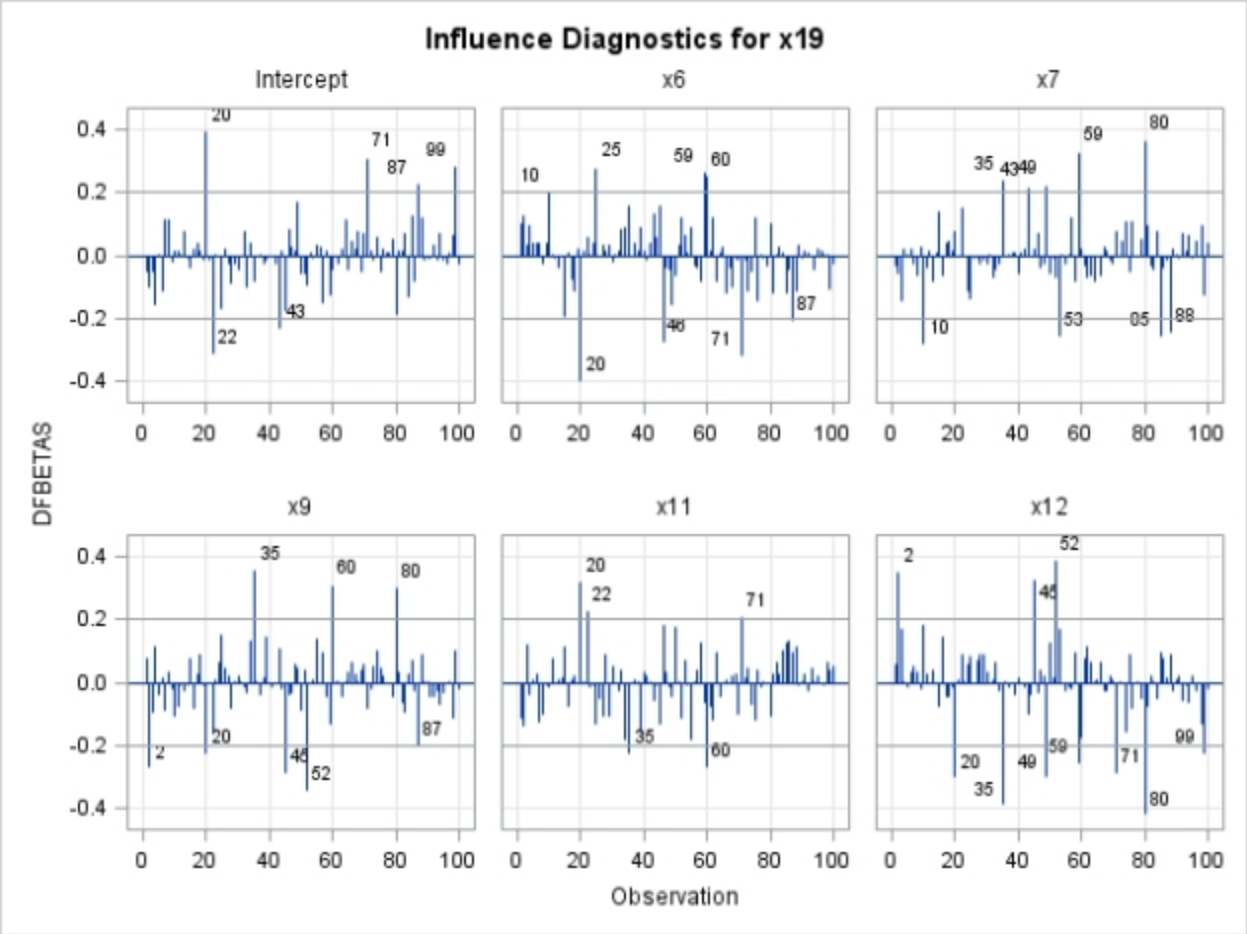
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



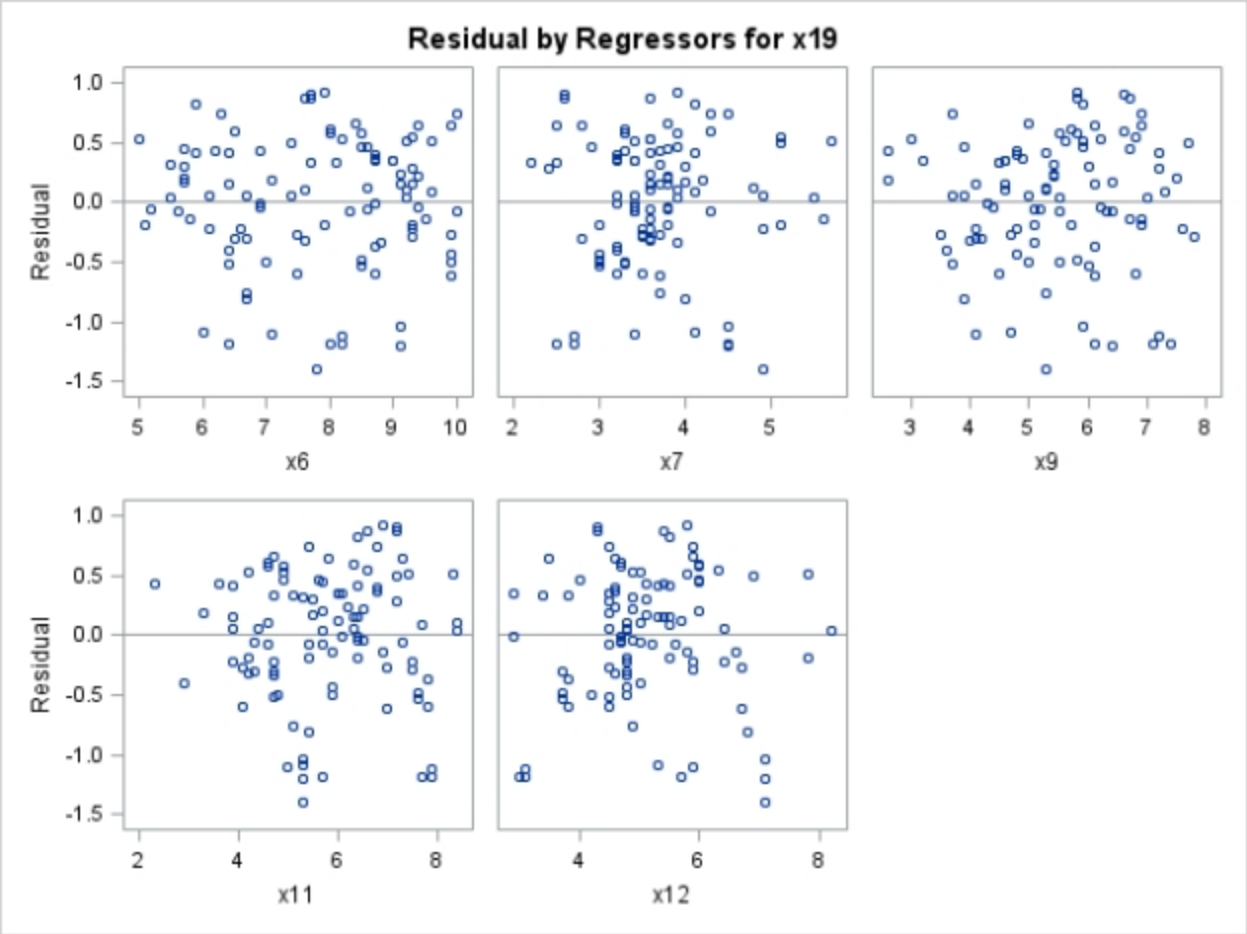
Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Linear Regression Model 3: X6 X7 X9 X11 X12 -- All Possible Subsets (Adj RSquare)

The REG Procedure
Model: Linear_Regression_Model
Dependent Variable: x19



Input data set (check to make sure it is correct)

Obs	id	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18	x19	x20	x21
1	1	2	0	1	1	1	8.5	3.9	2.5	5.9	4.8	4.9	6.0	6.8	4.7	4.3	5.0	5.1	3.7	8.2	8.0	8.4
2	2	3	1	0	0	0	8.2	2.7	5.1	7.2	3.4	7.9	3.1	5.3	5.5	4.0	3.9	4.3	4.9	5.7	6.5	7.5
3	3	3	0	1	1	1	9.2	3.4	5.6	5.6	5.4	7.4	5.8	4.5	6.2	4.6	5.4	4.0	4.5	8.9	8.4	9.0
4	4	1	1	1	1	0	6.4	3.3	7.0	3.7	4.7	4.7	4.5	8.8	7.0	3.6	4.3	4.1	3.0	4.8	6.0	7.2
5	5	2	0	1	0	1	9.0	3.4	5.2	4.6	2.2	6.0	4.5	6.8	6.1	4.5	4.5	3.5	3.5	7.1	6.6	9.0
6	6	1	1	0	1	0	6.5	2.8	3.1	4.1	4.0	4.3	3.7	8.5	5.1	9.5	3.6	4.7	3.3	4.7	6.3	6.1
7	7	1	1	1	1	0	6.9	3.7	5.0	2.6	2.1	2.3	5.4	8.9	4.8	2.5	2.1	4.2	2.0	5.7	7.8	7.2
8	8	2	0	1	1	0	6.2	3.3	3.9	4.8	4.6	3.6	5.1	6.9	5.4	4.8	4.3	6.3	3.7	6.3	5.8	7.7
9	9	2	1	1	1	0	5.8	3.6	5.1	6.7	3.7	5.9	5.8	9.3	5.9	4.4	4.4	6.1	4.6	7.0	7.5	8.2
10	10	1	0	1	1	0	6.4	4.5	5.1	6.1	4.7	5.7	5.7	8.4	5.4	5.3	4.1	5.8	4.4	5.5	5.9	6.7
11	11	3	0	1	0	1	8.7	3.2	4.6	4.8	2.7	6.8	4.6	6.8	5.8	7.5	3.8	3.7	4.0	7.4	7.0	8.4
12	12	1	0	1	1	0	6.1	4.9	6.3	3.9	4.4	3.9	6.4	8.2	5.8	5.9	3.0	4.9	3.2	6.0	6.3	6.6
13	13	1	1	0	0	1	9.5	5.6	4.6	6.9	5.0	6.9	6.6	7.6	6.5	5.3	5.1	4.5	4.4	8.4	8.4	7.9
14	14	3	1	0	0	1	9.2	3.9	5.7	5.5	2.4	8.4	4.8	7.1	6.7	3.0	4.5	2.6	4.2	7.6	6.9	8.2
15	15	2	0	1	1	1	6.3	4.5	4.7	6.9	4.5	6.8	5.9	8.8	6.0	5.4	4.8	6.2	5.2	8.0	7.0	7.6
16	16	3	0	0	0	0	8.7	3.2	4.0	6.8	3.2	7.8	3.8	4.9	6.1	5.0	4.3	3.9	4.5	6.6	6.4	7.1
17	17	2	1	0	1	1	5.7	4.0	6.7	6.0	3.3	5.5	5.1	6.2	6.7	5.4	4.2	6.2	4.5	6.4	7.5	7.2
18	18	2	0	1	1	0	5.9	4.1	5.5	7.2	3.5	6.4	5.5	8.4	6.2	6.3	5.7	5.8	4.8	7.4	6.9	8.2
19	19	2	1	1	1	0	5.6	3.4	5.1	6.4	3.7	5.7	5.6	9.1	5.4	6.1	5.0	6.0	4.5	6.8	7.5	7.9
20	20	3	0	1	1	0	9.1	4.5	3.6	6.4	5.3	5.3	7.1	8.4	5.8	6.7	4.5	6.1	4.4	7.6	8.5	8.8
21	21	1	0	0	1	0	5.2	3.8	7.1	5.2	3.9	4.3	5.0	8.4	7.1	4.6	3.3	4.9	3.3	5.4	5.5	7.0
22	22	3	1	1	1	1	9.6	5.7	6.8	5.9	5.4	8.3	7.8	4.5	6.4	6.5	4.3	3.0	4.3	9.9	9.6	9.9
23	23	2	0	0	0	1	8.6	3.6	7.4	5.1	3.5	7.3	4.7	3.7	6.7	6.0	4.8	3.4	4.0	7.0	7.1	8.1
24	24	3	0	1	1	1	9.3	2.4	2.6	7.2	2.2	7.2	4.5	6.2	6.4	4.2	6.7	4.4	4.5	8.6	8.1	8.0
25	25	1	0	0	1	0	6.0	4.1	5.3	4.7	3.5	5.3	5.3	8.0	6.5	3.9	4.7	5.3	4.0	4.8	4.9	5.5
26	26	2	0	1	1	0	6.4	3.6	6.6	6.1	4.0	3.9	5.3	7.1	6.1	3.7	5.6	6.6	3.9	6.6	6.8	7.0
27	27	3	0	0	0	0	8.5	3.0	7.2	5.8	4.1	7.6	3.7	4.8	6.9	6.7	5.3	3.8	4.4	6.3	7.1	7.0
28	28	1	1	0	1	0	7.0	3.3	5.4	5.5	2.6	4.8	4.2	9.0	6.5	5.9	4.3	5.2	3.7	5.4	5.5	5.6
29	29	3	0	0	0	0	8.5	3.0	5.7	6.0	2.3	7.6	3.7	4.8	5.8	6.0	5.7	3.8	4.4	6.3	6.9	7.2
30	30	1	1	1	1	0	7.6	3.6	3.0	4.0	5.1	4.2	4.6	7.7	4.9	7.2	4.7	5.5	3.5	5.4	5.5	6.2
31	31	1	1	0	0	1	6.9	3.4	8.5	4.3	4.5	6.4	4.7	5.2	7.7	3.3	3.7	2.7	3.3	6.1	6.8	7.1
32	32	1	0	1	1	0	8.1	2.5	7.2	4.5	2.3	5.1	3.8	6.6	6.8	6.1	3.0	3.5	3.0	6.4	5.8	6.2
33	33	1	1	1	1	0	6.7	3.7	6.5	5.3	5.3	5.1	4.9	9.2	5.7	4.2	3.5	4.5	3.4	5.4	6.5	7.6
34	34	2	1	1	1	0	8.0	3.3	6.1	5.7	5.5	4.6	4.7	8.7	5.9	3.8	4.7	6.6	4.2	7.3	7.5	9.0
35	35	1	0	1	1	0	6.7	4.0	5.2	3.9	3.0	5.4	6.8	8.4	6.2	6.0	2.5	4.3	3.5	6.3	6.6	6.7
36	36	1	0	0	0	0	8.7	3.2	6.1	4.3	3.5	6.1	2.9	5.6	6.1	6.5	3.1	2.9	2.5	5.4	4.6	7.1
37	37	2	0	0	0	1	9.0	3.4	5.9	4.6	3.9	6.0	4.5	6.8	6.4	4.3	3.9	3.5	3.5	7.1	8.0	7.2
38	38	3	0	1	1	1	9.6	4.1	6.2	7.3	2.9	7.7	5.5	7.7	6.1	4.4	5.2	4.6	4.9	8.7	9.9	9.9
39	39	2	1	1	1	0	8.2	3.6	3.9	6.2	5.8	4.9	5.0	9.0	5.2	7.1	4.7	6.9	4.5	7.6	6.9	7.6
40	40	1	0	0	1	0	6.1	4.9	3.0	4.8	5.1	3.9	6.4	8.2	5.1	6.8	4.5	4.9	3.2	6.0	5.5	5.8
41	41	2	1	1	1	0	8.3	3.4	3.3	5.5	3.1	4.6	5.2	9.1	4.1	1.7	4.6	5.8	3.9	7.0	7.5	8.4
42	42	2	1	0	0	1	9.4	3.8	4.7	5.4	3.8	6.5	4.9	8.5	4.9	6.2	4.1	4.5	4.1	7.6	8.0	7.9
43	43	3	0	1	0	1	9.3	5.1	4.6	6.8	5.8	6.6	6.3	7.4	5.1	4.1	4.6	4.6	4.3	8.9	7.8	7.6
44	44	2	1	1	1	1	5.1	5.1	6.6	6.9	4.4	5.4	7.8	5.9	7.2	5.2	4.9	6.3	4.5	7.6	7.9	8.4
45	45	3	1	0	0	0	8.0	2.5	4.7	7.1	3.6	7.7	3.0	5.2	5.1	3.9	4.3	4.2	4.7	5.5	5.6	6.5
46	46	2	0	1	1	0	5.9	4.1	5.7	5.9	5.8	6.4	5.5	8.4	6.4	5.1	5.2	5.8	4.8	7.4	8.6	7.7
47	47	3	1	0	0	1	10.0	4.3	7.1	6.3	2.9	5.4	4.5	3.8	6.7	3.7	5.0	4.0	3.5	7.1	8.8	8.0

Input data set (check to make sure it is correct)

x22	x23	RC_X13	FAC_1	FAC_2	FAC_3	FAC_4	PCA1	PCA2	PCA3	PCA4	PCA5
65.1	1	3.2	4.9	4.9	3.6	5.9	0.23850	-0.87067	-1.06940	1.42034	-0.76188
67.1	0	4.7	5.3	3.1	5.3	6.5	0.16884	1.35608	-1.73271	-0.36564	-0.96084
72.1	1	5.5	5.2	4.9	5.9	7.4	0.83739	0.99422	0.03332	1.07749	-0.28930
40.1	0	1.2	3.7	4.2	7.0	3.8	-0.82671	-0.31740	1.29718	-1.21985	-0.53615
57.1	0	3.2	4.2	3.4	5.7	6.1	-0.73014	0.72515	-0.24505	0.02622	-0.48070
50.1	0	1.5	3.7	3.5	4.1	4.0	-1.18557	-0.92944	-1.45946	-0.39106	2.96643
41.1	0	1.1	2.2	3.7	4.9	4.0	-2.52696	-1.53781	0.61443	-0.06042	-1.62941
56.1	0	3.1	4.3	4.3	4.7	4.7	-0.30750	-1.24035	-0.61977	-0.64356	-0.15697
56.1	1	0.7	5.2	4.4	5.5	3.3	0.71832	-0.90610	-0.44213	-1.19356	-0.69951
59.1	0	1.6	4.9	5.0	5.3	4.0	0.65414	-1.10315	-0.08714	0.01773	-0.12778
68.1	0	3.2	4.2	3.5	5.2	6.0	-0.51646	0.63027	-0.78174	0.35999	1.46745
53.1	0	1.8	3.4	5.2	6.1	4.0	-0.54968	-1.51448	1.58362	0.23199	0.54225
58.1	1	2.4	5.5	5.7	5.6	6.0	1.48263	-0.18664	0.74710	1.80262	-0.15147
72.1	1	2.9	4.7	3.7	6.2	6.1	0.01154	1.40575	0.20722	0.51121	-1.56065
62.1	1	1.2	5.6	5.0	5.4	3.8	1.46881	-0.85009	-0.35919	-0.35280	-0.15645
71.1	0	5.1	5.2	3.4	5.1	6.9	0.20818	1.33458	-1.31115	0.28420	-0.29400
50.1	1	3.8	4.9	4.1	6.7	4.8	0.52776	-0.19947	0.41794	-1.64911	0.02605
58.1	1	1.6	5.9	4.4	5.9	3.8	1.32744	-0.42802	-0.47535	-1.25717	0.34466
55.1	0	0.9	5.3	4.2	5.3	3.3	0.67078	-0.93849	-0.88910	-1.23742	0.33683
67.1	1	1.6	5.1	5.6	4.7	5.4	1.12012	-1.14014	-0.08821	1.28848	0.94256
50.1	0	1.6	3.9	4.2	7.1	3.4	-0.51145	-0.67783	1.40943	-1.71652	-0.12707
70.1	1	5.5	4.8	6.3	6.6	7.6	1.33050	0.70542	1.94055	2.90515	0.67751
60.1	0	6.3	4.6	3.9	7.1	7.5	0.10241	1.62409	0.58115	0.07368	0.54802
65.1	1	3.8	6.1	3.0	4.5	6.6	0.68144	1.27964	-2.16401	-0.48148	-0.89939
55.1	0	2.0	4.5	4.3	5.9	4.0	0.06919	-0.64204	0.42693	-0.95012	-0.86485
58.1	0	2.9	5.2	4.3	6.4	4.7	0.51735	-0.68328	0.12830	-1.73047	-1.02010
70.1	0	5.2	5.2	3.6	7.1	6.9	0.42495	1.73516	-0.12796	-0.64230	1.10340
55.1	0	1.0	4.5	3.4	6.0	4.0	-0.39962	-0.29379	-0.31613	-1.60612	0.50162
70.1	0	5.2	5.4	3.0	5.8	6.9	0.20390	1.60609	-1.31843	-0.48261	0.22326
52.1	0	2.3	4.1	4.4	4.0	5.0	-0.43682	-1.18116	-1.07158	0.53448	1.41202
44.1	0	4.8	3.8	4.2	8.1	5.9	-0.62674	1.17970	2.08796	-0.66458	-0.75917
51.1	0	3.4	3.5	2.9	7.0	5.8	-1.49620	0.94229	0.43028	-1.26568	0.94090
44.1	0	0.8	4.1	4.6	6.1	3.8	-0.37768	-0.77700	0.58733	-0.27103	-0.42536
62.1	1	1.3	4.9	4.5	6.0	4.7	0.40370	-0.73467	-0.17409	-0.88356	-0.64387
54.1	0	1.6	3.3	4.6	5.7	4.2	-0.75577	-0.84057	1.01713	0.24869	0.62122
51.1	0	4.4	3.3	3.2	6.1	6.6	-1.58251	1.05885	0.08930	0.21554	1.13514
57.1	0	3.2	4.0	3.9	6.2	6.1	-0.63656	0.63448	0.38374	0.29202	-0.33099
77.1	1	2.3	5.8	4.2	6.2	6.0	1.15070	0.80257	-0.34378	0.16573	-0.86773
65.1	1	1.0	5.1	4.8	4.6	4.6	0.77503	-1.22029	-1.19821	0.06356	1.30841
53.1	0	1.8	4.2	5.5	4.1	4.0	-0.03337	-1.91954	0.10959	1.07603	0.90685
61.1	1	0.9	4.7	3.9	3.7	4.6	-0.32511	-1.10248	-1.63087	0.17788	-2.55892
61.1	1	1.5	4.5	4.2	4.8	5.5	-0.04014	-0.12280	-0.90958	0.96725	0.51953
72.1	1	2.6	5.2	5.7	4.9	6.0	1.10345	-0.49499	0.07453	2.17120	-0.94773
55.1	1	4.1	5.4	5.8	6.9	4.6	1.63817	-0.84490	1.69594	-0.75075	-0.21788
65.1	0	4.8	5.4	3.0	4.9	6.4	0.07265	1.25062	-2.07447	-0.28640	-1.05330
58.1	1	1.6	5.3	5.1	6.1	3.8	1.21357	-0.71927	0.24696	-0.62446	-0.02133
67.1	1	6.2	4.9	3.9	6.9	8.1	0.07159	1.33648	0.71572	0.12631	-1.07412

Input data set (check to make sure it is correct)

CLUSTER	DUMX1_1	DUMX1_2
3	0	1
3	0	0
1	0	0
2	1	0
3	0	1
2	1	0
3	1	0
3	0	1
3	0	1
3	1	0
2	0	0
2	1	0
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2	0	1
3	0	0
3	0	1
1	1	0
3	0	1
1	0	1
1	0	0
1	0	1
3	0	0
3	0	1
3	0	0

Input data set (check to make sure it is correct)

Obs	id	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18	x19	x20	x21
48	48	2	1	1	1	0	5.7	3.8	6.8	7.5	5.7	5.7	6.0	8.2	6.6	4.8	6.5	7.3	5.2	7.6	7.6	7.1
49	49	3	0	0	1	1	9.9	3.7	3.7	6.1	4.2	7.0	6.7	6.8	5.9	7.2	4.5	3.4	3.9	8.7	8.1	8.5
50	50	3	1	1	0	1	7.9	3.9	4.3	5.8	4.4	6.9	5.8	4.7	5.2	3.6	4.1	4.2	4.3	8.6	7.8	7.6
51	51	1	0	1	1	0	6.7	3.6	5.9	4.2	3.4	4.7	4.8	7.2	5.7	5.3	4.0	3.6	2.8	5.4	7.5	7.2
52	52	3	1	0	0	0	8.2	2.7	3.7	7.4	2.7	7.9	3.1	5.3	5.3	5.0	4.5	4.3	4.9	5.7	7.1	8.2
53	53	3	0	1	1	1	9.4	2.5	4.8	6.1	3.2	7.3	4.6	6.3	6.3	9.2	4.7	4.6	4.6	8.7	9.0	9.0
54	54	1	1	0	0	1	6.9	3.4	5.7	4.4	3.3	6.4	4.7	5.2	6.4	4.4	3.2	2.7	3.3	6.1	7.0	7.2
55	55	2	1	1	1	0	8.0	3.3	3.8	5.8	3.2	4.6	4.7	8.7	5.3	4.2	4.9	6.6	4.2	7.3	8.1	8.1
56	56	3	1	0	0	0	9.3	3.8	7.3	5.7	3.7	6.4	5.5	7.4	6.6	5.9	4.1	3.2	3.4	7.7	7.6	8.9
57	57	2	0	1	1	1	7.4	5.1	4.8	7.7	4.5	7.2	6.9	9.6	6.4	7.4	5.7	6.5	5.5	9.0	7.9	8.8
58	58	3	1	0	0	0	7.6	3.6	5.2	5.8	5.6	6.6	5.4	4.4	6.7	6.4	4.6	3.9	4.0	8.2	7.5	7.5
59	59	3	1	0	0	0	10.0	4.3	5.3	3.7	4.2	5.4	4.5	3.8	6.7	4.5	3.7	4.0	3.5	7.1	6.5	7.0
60	60	3	1	1	1	0	9.9	2.8	7.2	6.9	2.6	5.8	3.5	5.4	6.2	7.0	5.6	4.9	4.0	7.9	8.5	8.5
61	61	3	0	0	0	0	8.7	3.2	8.4	6.1	2.8	7.8	3.8	4.9	7.2	4.5	5.4	3.9	4.5	6.6	6.9	7.2
62	62	2	0	1	1	1	8.4	3.8	6.7	5.0	4.5	4.7	5.9	6.7	5.1	4.2	2.7	5.0	3.6	8.0	7.6	8.8
63	63	1	0	0	0	1	8.8	3.9	3.8	5.1	4.3	4.7	4.8	5.8	5.0	7.2	4.4	3.7	2.9	6.3	5.5	8.0
64	64	1	0	1	1	0	7.7	2.2	6.3	4.5	2.4	4.7	3.4	6.2	6.0	4.7	3.3	3.1	2.6	6.0	6.0	8.1
65	65	1	0	1	1	0	6.6	3.6	5.8	4.1	4.9	4.7	4.8	7.2	6.5	3.9	3.5	3.6	2.8	5.4	6.9	7.1
66	66	2	1	1	1	0	5.7	3.8	3.5	6.7	5.4	5.7	6.0	8.2	5.4	5.0	4.7	7.3	5.2	7.6	6.9	9.0
67	67	2	1	0	1	0	5.7	4.0	7.9	6.4	2.7	5.5	5.1	6.2	7.5	6.4	5.0	6.2	4.5	6.4	5.6	6.2
68	68	2	1	0	1	1	5.5	3.7	4.7	5.4	4.3	5.3	4.9	6.0	5.6	2.5	4.5	5.9	4.3	6.1	6.3	8.2
69	69	1	1	1	1	0	7.5	3.5	3.8	3.5	2.9	4.1	4.5	7.6	5.1	5.2	4.0	5.4	3.4	5.2	5.8	5.8
70	70	2	0	1	1	0	6.4	3.6	2.7	5.3	3.9	3.9	5.3	7.1	5.2	5.5	4.7	6.6	3.9	6.6	6.6	8.0
71	71	3	0	0	1	0	9.1	4.5	6.1	5.9	6.3	5.3	7.1	8.4	7.1	5.7	5.4	6.1	4.4	7.6	7.5	7.7
72	72	1	1	0	0	1	6.7	3.2	3.0	3.7	4.8	6.3	4.5	5.0	5.2	2.5	2.9	2.6	3.1	5.8	6.0	7.0
73	73	2	0	1	1	0	6.5	4.3	2.7	6.6	6.5	6.3	6.0	8.7	4.7	6.3	4.6	5.6	4.6	7.9	6.6	7.9
74	74	3	0	1	1	1	9.9	3.7	7.5	4.7	5.6	7.0	6.7	6.8	7.2	4.6	4.1	3.4	3.9	8.6	8.8	9.8
75	75	2	0	1	1	1	8.5	3.9	5.3	5.5	5.0	4.9	6.0	6.8	5.7	3.6	4.4	5.1	3.7	8.2	7.0	8.4
76	76	3	0	0	0	0	9.9	3.0	6.8	5.0	5.4	5.9	4.8	4.9	7.3	7.6	3.1	4.3	3.8	7.1	6.6	8.9
77	77	1	0	0	1	1	7.6	3.6	7.6	4.6	4.7	4.6	5.0	7.4	8.1	6.6	4.5	5.8	3.9	6.4	6.9	7.5
78	78	2	1	0	0	1	9.4	3.8	7.0	6.2	4.7	6.5	4.9	8.5	7.3	2.4	4.3	4.5	4.1	7.6	7.3	8.0
79	79	3	0	0	0	1	9.3	3.5	6.3	7.6	5.5	7.5	5.9	4.6	6.6	3.1	5.2	4.1	4.6	8.9	7.3	8.1
80	80	1	1	1	1	0	7.1	3.4	4.9	4.1	4.0	5.0	5.9	7.8	6.1	3.5	2.6	3.1	2.7	5.7	5.8	7.6
81	81	3	0	1	0	0	9.9	3.0	7.4	4.8	4.0	5.9	4.8	4.9	5.9	6.9	3.2	4.3	3.8	7.1	7.9	8.8
82	82	3	0	0	0	0	8.7	3.2	6.4	4.9	2.4	6.8	4.6	6.8	6.3	5.1	4.3	3.7	4.0	7.4	7.3	8.0
83	83	2	0	0	0	1	8.6	2.9	5.8	3.9	2.9	5.6	4.0	6.3	6.1	4.0	2.7	3.0	3.0	6.6	6.1	8.5
84	84	1	1	0	1	0	6.4	3.2	6.7	3.6	2.2	2.9	5.0	8.4	7.3	6.5	2.0	3.7	1.6	5.0	5.1	6.5
85	85	2	0	0	0	1	7.7	2.6	6.7	6.6	1.9	7.2	4.3	5.9	6.5	4.1	4.7	3.9	4.3	8.2	7.5	7.7
86	86	1	1	1	1	0	7.5	3.5	4.1	4.5	3.5	4.1	4.5	7.6	4.9	2.8	3.4	5.4	3.4	5.2	6.0	7.2
87	87	1	0	0	1	0	5.0	3.6	1.3	3.0	3.5	4.2	4.9	8.2	4.3	7.6	2.4	4.8	3.1	5.2	5.5	6.0
88	88	2	0	0	0	1	7.7	2.6	8.0	6.7	3.5	7.2	4.3	5.9	6.9	7.7	5.1	3.9	4.3	8.2	7.6	8.2
89	89	2	1	0	0	1	9.1	3.6	5.5	5.4	4.2	6.2	4.6	8.3	6.5	4.1	4.6	4.3	3.9	7.3	6.5	7.4
90	90	2	1	0	1	1	5.5	5.5	7.7	7.0	5.6	5.7	8.2	6.3	7.4	4.9	5.5	6.7	4.9	8.2	7.6	9.3
91	91	3	1	0	0	0	9.1	3.7	7.0	4.1	4.4	6.3	5.4	7.3	7.5	4.6	4.4	3.0	3.3	7.4	7.9	7.9
92	92	1	1	0	1	0	7.1	4.2	4.1	2.6	2.1	3.3	4.5	9.9	5.5	3.5	2.0	4.0	2.4	4.8	5.0	6.5
93	93	3	1	1	0	1	9.2	3.9	4.6	5.3	4.2	8.4	4.8	7.1	6.2	6.6	4.4	2.6	4.2	7.6	7.5	8.6
94	94	3	0	1	1	1	9.3	3.5	5.4	7.8	4.6	7.5	5.9	4.6	6.4	4.9	4.8	4.1	4.6	8.9	7.6	8.9

Input data set (check to make sure it is correct)

x22	x23	RC_X13	FAC_1	FAC_2	FAC_3	FAC_4	PCA1	PCA2	PCA3	PCA4	PCA5
60.1	0	1.8	6.4	5.2	6.7	3.8	2.14370	-0.76262	0.07982	-1.82737	-0.33866
67.1	1	3.2	4.8	4.9	4.8	6.6	0.42239	0.36667	-0.29282	1.89540	1.25705
61.1	1	5.3	4.7	4.7	4.8	6.6	0.29338	0.23883	-0.42821	1.31082	-1.24236
48.1	0	2.8	3.7	3.9	5.8	4.8	-1.07682	-0.26065	0.40624	-0.27101	0.13386
67.1	1	4.7	5.6	2.8	4.5	6.5	0.24544	1.29382	-2.43591	-0.27147	-0.48586
66.1	1	3.7	5.1	3.4	5.6	6.6	0.35298	1.11748	-1.33098	-0.20162	2.64089
44.1	0	4.8	3.6	3.8	6.1	5.9	-1.02248	0.74276	0.58575	0.14180	-0.38804
62.1	1	1.3	5.0	3.7	4.6	4.7	0.10157	-0.82198	-1.40549	-0.81132	-0.77574
59.1	1	2.6	4.4	4.3	7.0	6.0	-0.11756	0.74641	1.00114	0.37714	0.58208
74.1	1	0.4	6.3	5.5	5.6	3.9	2.36866	-0.87165	-0.12645	0.02839	1.02645
58.1	1	5.6	4.8	4.9	6.0	6.6	0.48749	0.61225	0.38033	0.63516	0.97151
67.1	0	6.2	3.6	4.3	6.0	8.1	-0.63671	0.77172	0.87469	1.22161	-0.16444
61.1	1	4.6	5.5	3.0	6.7	7.3	0.23862	1.47723	-0.92026	-1.17595	1.09003
71.1	1	5.1	5.3	3.3	7.8	6.9	0.47474	2.07105	0.27764	-1.23205	-0.46477
63.1	1	3.3	3.8	4.7	5.9	5.9	-0.51085	-0.51408	0.59707	0.63163	-0.53517
44.1	0	4.2	4.1	4.3	4.4	6.5	-0.64167	-0.17283	-0.58684	1.37645	1.25509
47.1	0	3.8	3.5	2.7	6.2	5.8	-1.87171	0.81527	-0.20634	-1.05533	-0.05648
48.1	0	2.8	3.5	4.4	6.2	4.7	-1.00862	-0.32713	1.10341	-0.10890	-0.44718
60.1	1	1.8	5.5	5.1	4.5	3.8	1.33198	-1.46010	-1.05785	-0.47801	-0.29672
50.1	0	3.8	5.3	3.9	7.7	4.8	0.85061	0.20965	0.83469	-2.46608	0.66816
48.1	0	4.0	4.7	4.3	5.2	4.8	0.18426	-0.62315	-0.41310	-0.76824	-1.86479
51.1	0	2.4	3.6	3.6	4.5	5.0	-1.07321	-0.85770	-0.80514	-0.21400	0.00503
58.1	1	2.9	4.6	4.3	4.0	4.7	-0.00170	-1.35817	-1.19674	-0.42088	0.06816
67.1	0	1.6	5.2	6.0	6.6	5.4	1.50507	-0.71143	1.30182	0.46833	0.61529
43.1	0	5.0	3.2	4.2	4.1	5.9	-1.42195	0.08684	-0.35341	1.44052	-1.56810
66.1	0	1.3	5.3	5.6	3.7	3.9	1.11187	-1.49691	-1.07653	1.23360	0.52655
66.1	1	3.2	4.2	5.3	7.4	6.6	0.34981	0.75912	1.85397	1.14073	0.09227
65.1	1	3.2	4.5	5.0	5.5	5.9	0.16871	-0.47199	0.33419	0.64427	-0.94422
63.1	1	5.1	4.0	4.4	7.1	7.5	-0.23113	1.03190	0.91272	0.37396	2.19700
49.1	0	2.6	4.3	4.4	7.9	5.1	0.22149	0.00002	1.56699	-1.60127	1.46120
61.1	1	1.5	4.9	4.5	7.2	5.5	0.44269	0.54887	1.01605	-0.24164	-1.51089
72.1	1	5.4	5.8	5.0	6.5	7.4	1.30565	1.21244	0.29280	0.74995	-1.32670
44.1	0	2.2	3.1	4.4	5.5	4.7	-1.34557	-0.45540	0.94395	0.56996	-0.78981
63.1	0	5.1	3.9	3.9	6.7	7.5	-0.53265	0.97790	0.26442	0.37090	1.37994
68.1	1	3.2	4.4	3.4	6.4	6.0	-0.38110	0.99174	-0.07387	-0.36818	-0.06290
53.1	0	3.7	3.2	3.3	6.0	6.2	-1.66381	0.74742	0.23223	0.08776	-0.47880
37.1	0	1.6	2.4	3.5	7.0	4.0	-2.28617	-0.51731	1.79422	-1.44737	1.36976
52.1	1	4.1	5.2	2.9	6.6	5.9	0.01219	1.46738	-0.56882	-1.39240	-0.86202
51.1	0	2.4	3.8	3.8	4.5	5.0	-1.01353	-0.89688	-0.67738	-0.06596	-1.54699
48.1	0	1.8	2.8	4.0	2.8	3.4	-1.66479	-1.91594	-1.28437	0.56923	1.51698
52.1	0	4.1	5.4	3.5	7.5	5.9	0.47036	1.51986	-0.08139	-1.42747	1.69274
59.1	0	1.7	4.6	4.1	6.0	5.4	0.02909	0.30347	0.09115	0.05271	-0.53372
59.1	1	3.7	5.8	6.4	7.6	4.6	2.33416	-0.91934	2.24510	-0.58447	-0.34413
58.1	1	2.7	3.9	4.5	7.3	5.9	-0.34558	0.77489	1.65622	0.29996	0.06407
51.1	0	0.1	2.3	3.6	4.8	3.6	-2.31561	-1.37166	0.50796	0.03318	-0.95628
72.1	0	2.9	4.6	4.3	5.4	6.1	0.17886	0.96932	-0.23411	1.43701	0.90330
72.1	1	5.4	5.7	4.7	5.9	7.4	1.14345	1.15642	-0.20607	0.83654	-0.29007

Input data set (check to make sure it is correct)

CLUSTER	DUMX1_1	DUMX1_2
3	0	1
1	0	0
3	0	0
2	1	0
3	0	0
2	0	0
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1	0	1
1	0	0
1	0	0
2	0	0
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3	0	1
3	1	0
2	1	0
2	0	1
3	0	1
1	0	1
2	0	0
2	1	0
1	0	0
1	0	0

Input data set (check to make sure it is correct)

Obs	id	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18	x19	x20	x21
95	95	3	1	1	0	0	9.3	3.8	4.0	4.6	4.7	6.4	5.5	7.4	5.3	4.8	3.6	3.2	3.4	7.7	7.3	8.4
96	96	1	1	0	0	1	8.6	4.8	5.6	5.3	2.3	6.0	5.7	6.7	5.8	3.6	4.9	3.6	3.6	7.3	8.1	8.1
97	97	1	0	0	1	1	7.4	3.4	2.6	5.0	4.1	4.4	4.8	7.2	4.5	6.4	4.2	5.6	3.7	6.3	5.5	7.2
98	98	1	0	0	0	1	8.7	3.2	3.3	3.2	3.1	6.1	2.9	5.6	5.0	4.3	3.1	2.9	2.5	5.4	7.0	7.7
99	99	2	1	0	1	1	7.8	4.9	5.8	5.3	5.2	5.3	7.1	7.9	6.0	5.7	4.3	4.9	3.9	6.4	7.1	7.4
100	100	2	1	1	1	0	7.9	3.0	4.4	5.1	5.9	4.2	4.8	9.7	5.7	5.8	3.4	5.4	3.5	6.4	7.3	7.0

x22	x23	RC_X13	FAC_1	FAC_2	FAC_3	FAC_4	PCA1	PCA2	PCA3	PCA4	PCA5
59.1	1	2.6	3.9	4.7	4.7	6.0	-0.55304	-0.03904	-0.10300	1.92007	-0.14758
50.1	1	3.3	4.6	4.3	5.7	6.0	-0.03944	0.23865	0.45437	0.70399	-1.39976
48.1	0	2.8	4.3	4.1	3.6	5.1	-0.44636	-1.06499	-1.59535	0.42155	0.67164
51.1	0	4.4	2.9	3.1	4.2	6.6	-2.06025	0.55007	-0.97603	1.14595	-0.45705
61.1	0	2.1	4.5	5.7	5.9	5.0	0.63640	-0.94914	1.19978	1.01640	0.32810
57.1	0	0.3	4.0	4.6	5.1	4.1	-0.47132	-1.14389	-0.30837	-0.01509	0.85489

CLUSTER	DUMX1_1	DUMX1_2
1	0	0
3	1	0
3	1	0
3	1	0
1	0	1
2	0	1

regression results for original data set

The REG Procedure

Number of Observations Read	100
Number of Observations Used	100

Correlation						
Variable	x6	x9	x7	x12	x11	x19
x6	1.0000	0.1064	-0.1372	-0.1518	0.4775	0.4863
x9	0.1064	1.0000	0.1402	0.2298	0.5614	0.6033
x7	-0.1372	0.1402	1.0000	0.7915	-0.0527	0.2827
x12	-0.1518	0.2298	0.7915	1.0000	-0.0613	0.5002
x11	0.4775	0.5614	-0.0527	-0.0613	1.0000	0.5505
x19	0.4863	0.6033	0.2827	0.5002	0.5505	1.0000

regression results for original data set

The REG Procedure
Model: MODEL1
Dependent Variable: x19

Number of Observations Read	100
Number of Observations Used	100

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	111.20549	22.24110	71.06	<.0001
Error	94	29.42211	0.31300		
Corrected Total	99	140.62760			

Root MSE	0.55947	R-Square	0.7908
Dependent Mean	6.91800	Adj R-Sq	0.7797
Coeff Var	8.08709		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate	Squared Semi-partial Corr Type II	Squared Partial Corr Type II
Intercept	1	-1.15106	0.49984	-2.30	0.0235	0	.	.
x6	1	0.36900	0.04719	7.82	<.0001	0.43230	0.13611	0.39414
x9	1	0.31896	0.06068	5.26	<.0001	0.32340	0.06150	0.22716
x7	1	-0.41714	0.13192	-3.16	0.0021	-0.24518	0.02225	0.09614
x12	1	0.77513	0.08898	8.71	<.0001	0.69740	0.16890	0.44668
x11	1	0.17435	0.06095	2.86	0.0052	0.19241	0.01821	0.08007

regression results for original data set

The REG Procedure
Model: MODEL2
Dependent Variable: x19

Adjusted R-Square Selection Method

Number of Observations Read	100
Number of Observations Used	100

Number in Model	Adjusted R-Square	R-Square	Variables in Model
5	0.7797	0.7908	x6 x9 x7 x12 x11
4	0.7630	0.7726	x6 x9 x7 x12
4	0.7588	0.7685	x6 x9 x12 x11
3	0.7448	0.7526	x6 x9 x12
4	0.7179	0.7293	x6 x7 x12 x11
3	0.6903	0.6997	x6 x12 x11
4	0.6401	0.6547	x9 x7 x12 x11
3	0.6155	0.6272	x9 x12 x11
3	0.6103	0.6221	x7 x12 x11
4	0.6060	0.6219	x6 x9 x7 x11
3	0.6045	0.6165	x6 x9 x7
3	0.5900	0.6025	x6 x7 x12
2	0.5808	0.5893	x12 x11
2	0.5650	0.5738	x6 x12
2	0.5348	0.5442	x6 x9
3	0.5322	0.5464	x6 x9 x11
3	0.5097	0.5246	x9 x7 x12
2	0.4917	0.5020	x9 x12
3	0.4732	0.4892	x9 x7 x11
3	0.4725	0.4885	x6 x7 x11
2	0.4177	0.4295	x9 x11
2	0.3917	0.4040	x9 x7
2	0.3882	0.4006	x7 x11
1	0.3574	0.3639	x9
2	0.3547	0.3678	x6 x11
2	0.3478	0.3610	x6 x7
1	0.2960	0.3031	x11
2	0.2698	0.2845	x7 x12
1	0.2426	0.2502	x12
1	0.2287	0.2365	x6
1	0.0706	0.0799	x7

R-squared values for all subset models

Obs	x6	x9	x7	x12	x11	_IN_	_RSQ_
1	1	0	0	0	0	1	0.23651
2	0	1	0	0	0	1	0.36393
3	0	0	1	0	0	1	0.07994
4	0	0	0	1	0	1	0.25021
5	0	0	0	0	1	1	0.30310
6	1	1	0	0	0	2	0.54418
7	1	0	1	0	0	2	0.36097
8	1	0	0	1	0	2	0.57380
9	1	0	0	0	1	2	0.36777
10	0	1	1	0	0	2	0.40399
11	0	1	0	1	0	2	0.50197
12	0	1	0	0	1	2	0.42947
13	0	0	1	1	0	2	0.28451
14	0	0	1	0	1	2	0.40056
15	0	0	0	1	1	2	0.58929
16	1	1	1	0	0	3	0.61652
17	1	1	0	1	0	3	0.75258
18	1	1	0	0	1	3	0.54639
19	1	0	1	1	0	3	0.60246
20	1	0	1	0	1	3	0.48852
21	1	0	0	1	1	3	0.69973
22	0	1	1	1	0	3	0.52460
23	0	1	1	0	1	3	0.48919
24	0	1	0	1	1	3	0.62716
25	0	0	1	1	1	3	0.62215
26	1	1	1	1	0	4	0.77257
27	1	1	1	0	1	4	0.62188
28	1	1	0	1	1	4	0.76853
29	1	0	1	1	1	4	0.72928
30	0	1	1	1	1	4	0.65467
31	1	1	1	1	1	5	0.79078

Dominance Table: Additional Contributions of Predictors Across All Subset Regression Models

CPi indicates the additional contribution of predictor i to the model r-square

IN	RSQ	X6	X9	X7	X12	X11	CP1	CP2	CP3	CP4	CP5
0	.0000	0	0	0	0	0	.2365	.3639	.0799	.2502	.3031
1	.2365	1	0	0	0	0	.	.3077	.1245	.3373	.1313
1	.3639	0	1	0	0	0	.1803	.	.0401	.1380	.0655
1	.0799	0	0	1	0	0	.2810	.3240	.	.2046	.3206
1	.2502	0	0	0	1	0	.3236	.2518	.0343	.	.3391
1	.3031	0	0	0	0	1	.0647	.1264	.0975	.2862	.
2	.5442	1	1	0	0	0	.	.	.0723	.2084	.0022
2	.3610	1	0	1	0	0	.	.2556	.	.2415	.1276
2	.5738	1	0	0	1	0	.	.1788	.0287	.	.1259
2	.3678	1	0	0	0	1	.	.1786	.1208	.3320	.
2	.4040	0	1	1	0	0	.2125	.	.	.1206	.0852
2	.5020	0	1	0	1	0	.2506	.	.0226	.	.1252
2	.4295	0	1	0	0	1	.1169	.	.0597	.1977	.
2	.2845	0	0	1	1	0	.3179	.2401	.	.	.3376
2	.4006	0	0	1	0	1	.0880	.0886	.	.2216	.
2	.5893	0	0	0	1	1	.1104	.0379	.0329	.	.
3	.6165	1	1	1	0	0	.	.	.	.1560	.0054
3	.7526	1	1	0	1	0	.	.	.0200	.	.0159
3	.5464	1	1	0	0	1	.	.	.0755	.2221	.
3	.6025	1	0	1	1	0	.	.1701	.	.	.1268
3	.4885	1	0	1	0	1	.	.1334	.	.2408	.
3	.6997	1	0	0	1	1	.	.0688	.0296	.	.
3	.5246	0	1	1	1	0	.2480	.	.	.	.1301
3	.4892	0	1	1	0	1	.1327	.	.	.1655	.
3	.6272	0	1	0	1	1	.1414	.	.0275	.	.
3	.6221	0	0	1	1	1	.1071	.0325	.	.	.
4	.7726	1	1	1	1	0	.	.	.	.	.0182
4	.6219	1	1	1	0	1	.	.	.	.1689	.
4	.7685	1	1	0	1	1	.	.	.0223	.	.
4	.7293	1	0	1	1	1	.	.0615	.	.	.
4	.6547	0	1	1	1	1	.1361	.	.	.	.

Dominance Analysis: Overall Average Contributions of Predictors (First Row) And Average Contributions to Models of Each Size (Remaining Rows)

IN	x6	x9	x7	x12	x11
*	.1850	.1885	.0541	.2154	.1478
0	.2365	.3639	.0799	.2502	.3031
1	.2124	.2525	.0741	.2415	.2141
2	.1827	.1633	.0562	.2203	.1340
3	.1573	.1012	.0381	.1961	.0696
4	.1361	.0615	.0223	.1689	.0182

Dominance Analysis: Average Predictor Contributions Overall and to Models of Each Size

VAR	OVERALL	size0	size1	size2	size3	size4
x12	.2154	.2502	.2415	.2203	.1961	.1689
x9	.1885	.3639	.2525	.1633	.1012	.0615
x6	.1850	.2365	.2124	.1827	.1573	.1361
x11	.1478	.3031	.2141	.1340	.0696	.0182
x7	.0541	.0799	.0741	.0562	.0381	.0223

Check that the data were read properly!!!

	n
The number of observations used is:	100

	r
The total number of variables used is:	6

	first5Y
The dependent values for the first five cases are:	8.2
	5.7
	8.9
	4.8
	7.1

The predictor values for the first five cases are:

first5X				
8.5	3.9	5.9	4.9	6
8.2	2.7	7.2	7.9	3.1
9.2	3.4	5.6	7.4	5.8
6.4	3.3	3.7	4.7	4.5
9	3.4	4.6	6	4.5

You requested 1000 bootstrap samples

The bootstrap procedure is now running... PLEASE WAIT...

summary of results: all pairs

Pij, Pji, Pijno are dominance probabilities and

reprod are reproducibility values

Obs	dominance	I	J	Dij	Dij_mean	Dij_se	PIJ	PJI	Pijno	reprod
1	complete	1	2	0.5	0.6455	0.227	0.291	0.000	0.709	0.709
2	complete	1	3	0.5	0.5520	0.171	0.116	0.012	0.872	0.872
3	complete	1	4	0.5	0.5895	0.192	0.179	0.000	0.821	0.821
4	complete	1	5	0.5	0.4880	0.077	0.000	0.024	0.976	0.976
5	complete	2	1	0.5	0.3545	0.227	0.000	0.291	0.709	0.709
6	complete	2	3	1.0	0.2980	0.245	0.000	0.404	0.596	0.000
7	complete	2	4	0.5	0.4900	0.070	0.000	0.020	0.980	0.980
8	complete	2	5	0.5	0.0000	0.000	0.000	1.000	0.000	0.000
9	complete	3	1	0.5	0.4480	0.171	0.012	0.116	0.872	0.872
10	complete	3	2	0.0	0.7020	0.245	0.404	0.000	0.596	0.000
11	complete	3	4	0.0	0.5190	0.096	0.038	0.000	0.962	0.000
12	complete	3	5	0.5	0.4640	0.146	0.009	0.081	0.910	0.910
13	complete	4	1	0.5	0.4105	0.192	0.000	0.179	0.821	0.821
14	complete	4	2	0.5	0.5100	0.070	0.020	0.000	0.980	0.980
15	complete	4	3	1.0	0.4810	0.096	0.000	0.038	0.962	0.000
16	complete	4	5	0.5	0.4580	0.139	0.000	0.084	0.916	0.916
17	complete	5	1	0.5	0.5120	0.077	0.024	0.000	0.976	0.976
18	complete	5	2	0.5	1.0000	0.000	1.000	0.000	0.000	0.000
19	complete	5	3	0.5	0.5360	0.146	0.081	0.009	0.910	0.910
20	complete	5	4	0.5	0.5420	0.139	0.084	0.000	0.916	0.916
21	conditio	1	2	0.5	0.9665	0.125	0.933	0.000	0.067	0.067
22	conditio	1	3	1.0	0.5555	0.182	0.128	0.017	0.855	0.128
23	conditio	1	4	0.0	0.6175	0.216	0.238	0.003	0.759	0.003
24	conditio	1	5	0.5	0.3470	0.345	0.131	0.437	0.432	0.432
25	conditio	2	1	0.5	0.0335	0.125	0.000	0.933	0.067	0.067
26	conditio	2	3	1.0	0.0525	0.157	0.002	0.897	0.101	0.002
27	conditio	2	4	0.5	0.3460	0.239	0.008	0.316	0.676	0.676
28	conditio	2	5	1.0	0.0000	0.000	0.000	1.000	0.000	0.000
29	conditio	3	1	0.0	0.4445	0.182	0.017	0.128	0.855	0.128
30	conditio	3	2	0.0	0.9475	0.157	0.897	0.002	0.101	0.002
31	conditio	3	4	0.0	0.8240	0.265	0.674	0.026	0.300	0.026
32	conditio	3	5	0.5	0.4260	0.211	0.026	0.174	0.800	0.800
33	conditio	4	1	1.0	0.3825	0.216	0.003	0.238	0.759	0.003
34	conditio	4	2	0.5	0.6540	0.239	0.316	0.008	0.676	0.676
35	conditio	4	3	1.0	0.1760	0.265	0.026	0.674	0.300	0.026
36	conditio	4	5	0.5	0.3365	0.236	0.001	0.328	0.671	0.671
37	conditio	5	1	0.5	0.6530	0.345	0.437	0.131	0.432	0.432
38	conditio	5	2	0.0	1.0000	0.000	1.000	0.000	0.000	0.000
39	conditio	5	3	0.5	0.5740	0.211	0.174	0.026	0.800	0.800
40	conditio	5	4	0.5	0.6635	0.236	0.328	0.001	0.671	0.671
41	general	1	2	0.0	0.9980	0.045	0.998	0.002	0.000	0.002
42	general	1	3	1.0	0.5050	0.500	0.505	0.495	0.000	0.505
43	general	1	4	0.0	0.7510	0.433	0.751	0.249	0.000	0.249
44	general	1	5	1.0	0.3010	0.459	0.301	0.699	0.000	0.301

summary of results: all pairs

Pij, Pji, Pijno are dominance probabilities and

reprod are reproducibility values

Obs	dominance	I	J	Dij	Dij_mean	Dij_se	PIJ	PJI	Pijno	reprod
45	general	2	1	1.0	0.0020	0.045	0.002	0.998	0.000	0.002
46	general	2	3	1.0	0.0100	0.100	0.010	0.990	0.000	0.010
47	general	2	4	0.0	0.0290	0.168	0.029	0.971	0.000	0.971
48	general	2	5	1.0	0.0000	0.000	0.000	1.000	0.000	0.000
49	general	3	1	0.0	0.4950	0.500	0.495	0.505	0.000	0.505
50	general	3	2	0.0	0.9900	0.100	0.990	0.010	0.000	0.010
51	general	3	4	0.0	0.8290	0.377	0.829	0.171	0.000	0.171
52	general	3	5	0.0	0.3420	0.475	0.342	0.658	0.000	0.658
53	general	4	1	1.0	0.2490	0.433	0.249	0.751	0.000	0.249
54	general	4	2	1.0	0.9710	0.168	0.971	0.029	0.000	0.971
55	general	4	3	1.0	0.1710	0.377	0.171	0.829	0.000	0.171
56	general	4	5	1.0	0.1580	0.365	0.158	0.842	0.000	0.158
57	general	5	1	0.0	0.6990	0.459	0.699	0.301	0.000	0.301
58	general	5	2	0.0	1.0000	0.000	1.000	0.000	0.000	0.000
59	general	5	3	1.0	0.6580	0.475	0.658	0.342	0.000	0.658
60	general	5	4	0.0	0.8420	0.365	0.842	0.158	0.000	0.158

summary of results: pair arranged by dominant predictor

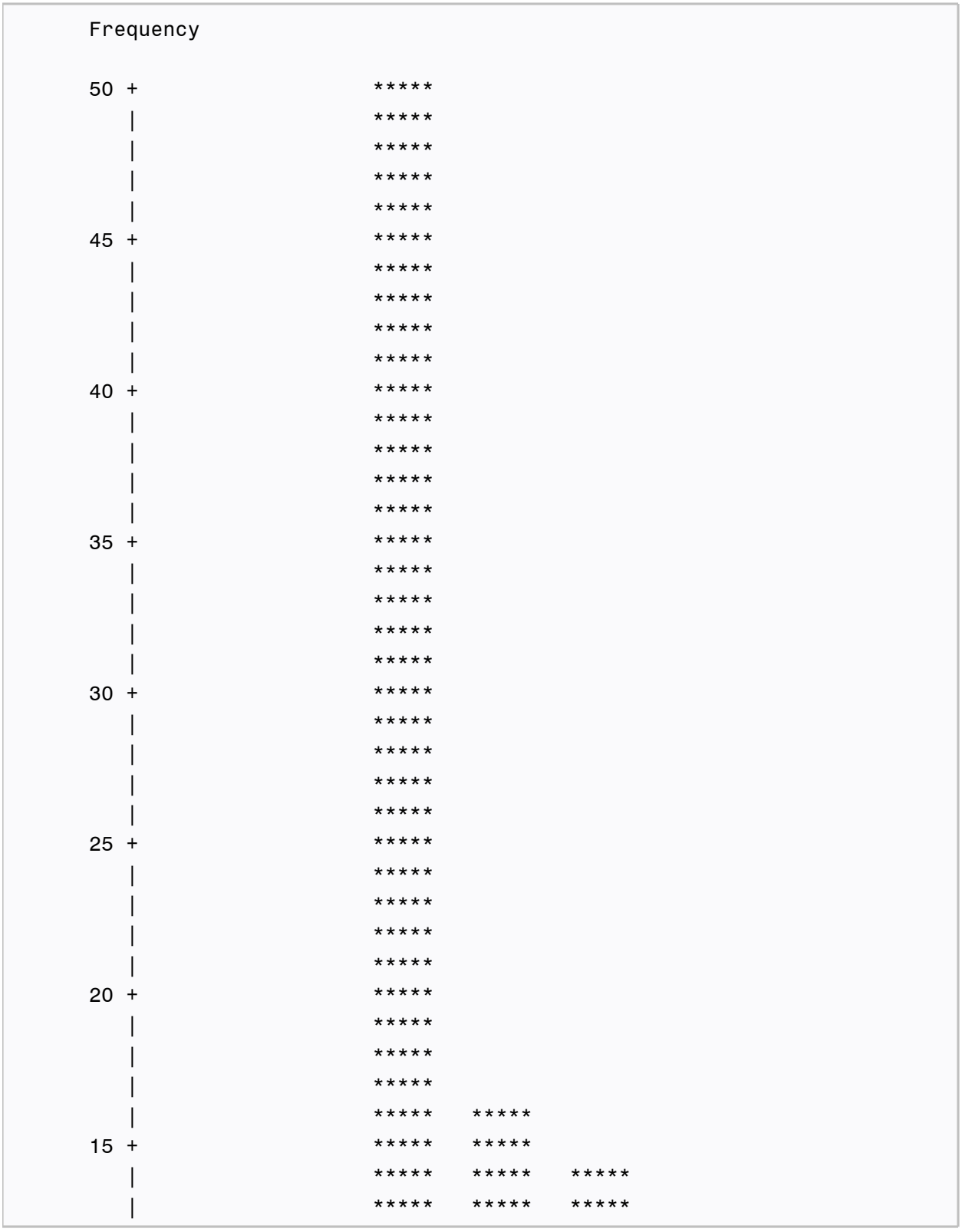
Pij, Pji, Pijno are dominance probabilities and

reprod are reproducibility values

Obs	dominance	I	J	Dij	Dij_mean	Dij_se	PIJ	PJI	Pijno	reprod
1	complete	1	2	0.5	0.6455	0.227	0.291	0.000	0.709	0.709
2	complete	1	3	0.5	0.5520	0.171	0.116	0.012	0.872	0.872
3	complete	1	4	0.5	0.5895	0.192	0.179	0.000	0.821	0.821
4	complete	3	2	0.0	0.7020	0.245	0.404	0.000	0.596	0.000
5	complete	3	4	0.0	0.5190	0.096	0.038	0.000	0.962	0.000
6	complete	4	2	0.5	0.5100	0.070	0.020	0.000	0.980	0.980
7	complete	5	1	0.5	0.5120	0.077	0.024	0.000	0.976	0.976
8	complete	5	2	0.5	1.0000	0.000	1.000	0.000	0.000	0.000
9	complete	5	3	0.5	0.5360	0.146	0.081	0.009	0.910	0.910
10	complete	5	4	0.5	0.5420	0.139	0.084	0.000	0.916	0.916
11	conditio	1	2	0.5	0.9665	0.125	0.933	0.000	0.067	0.067
12	conditio	1	3	1.0	0.5555	0.182	0.128	0.017	0.855	0.128
13	conditio	1	4	0.0	0.6175	0.216	0.238	0.003	0.759	0.003
14	conditio	3	2	0.0	0.9475	0.157	0.897	0.002	0.101	0.002
15	conditio	3	4	0.0	0.8240	0.265	0.674	0.026	0.300	0.026
16	conditio	4	2	0.5	0.6540	0.239	0.316	0.008	0.676	0.676
17	conditio	5	1	0.5	0.6530	0.345	0.437	0.131	0.432	0.432
18	conditio	5	2	0.0	1.0000	0.000	1.000	0.000	0.000	0.000
19	conditio	5	3	0.5	0.5740	0.211	0.174	0.026	0.800	0.800
20	conditio	5	4	0.5	0.6635	0.236	0.328	0.001	0.671	0.671
21	general	1	2	0.0	0.9980	0.045	0.998	0.002	0.000	0.002
22	general	1	3	1.0	0.5050	0.500	0.505	0.495	0.000	0.505
23	general	1	4	0.0	0.7510	0.433	0.751	0.249	0.000	0.249
24	general	3	2	0.0	0.9900	0.100	0.990	0.010	0.000	0.010
25	general	3	4	0.0	0.8290	0.377	0.829	0.171	0.000	0.171
26	general	4	2	1.0	0.9710	0.168	0.971	0.029	0.000	0.971
27	general	5	1	0.0	0.6990	0.459	0.699	0.301	0.000	0.301
28	general	5	2	0.0	1.0000	0.000	1.000	0.000	0.000	0.000
29	general	5	3	1.0	0.6580	0.475	0.658	0.342	0.000	0.658
30	general	5	4	0.0	0.8420	0.365	0.842	0.158	0.000	0.158

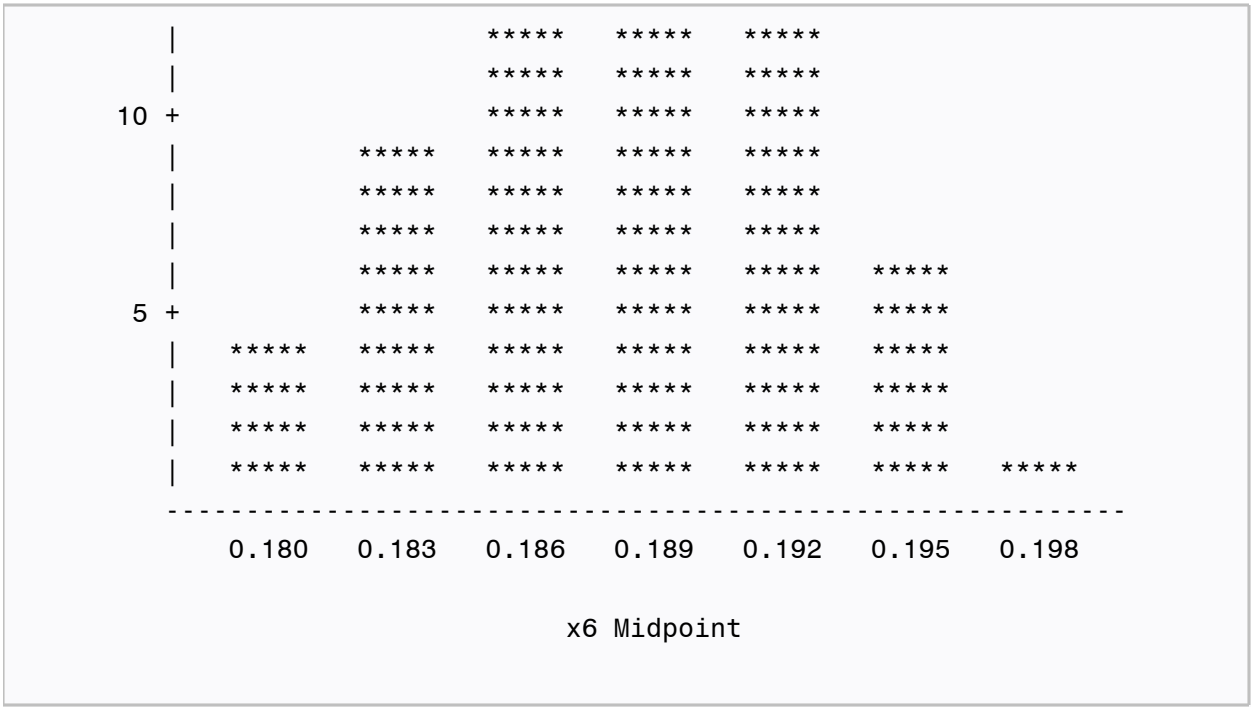
summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



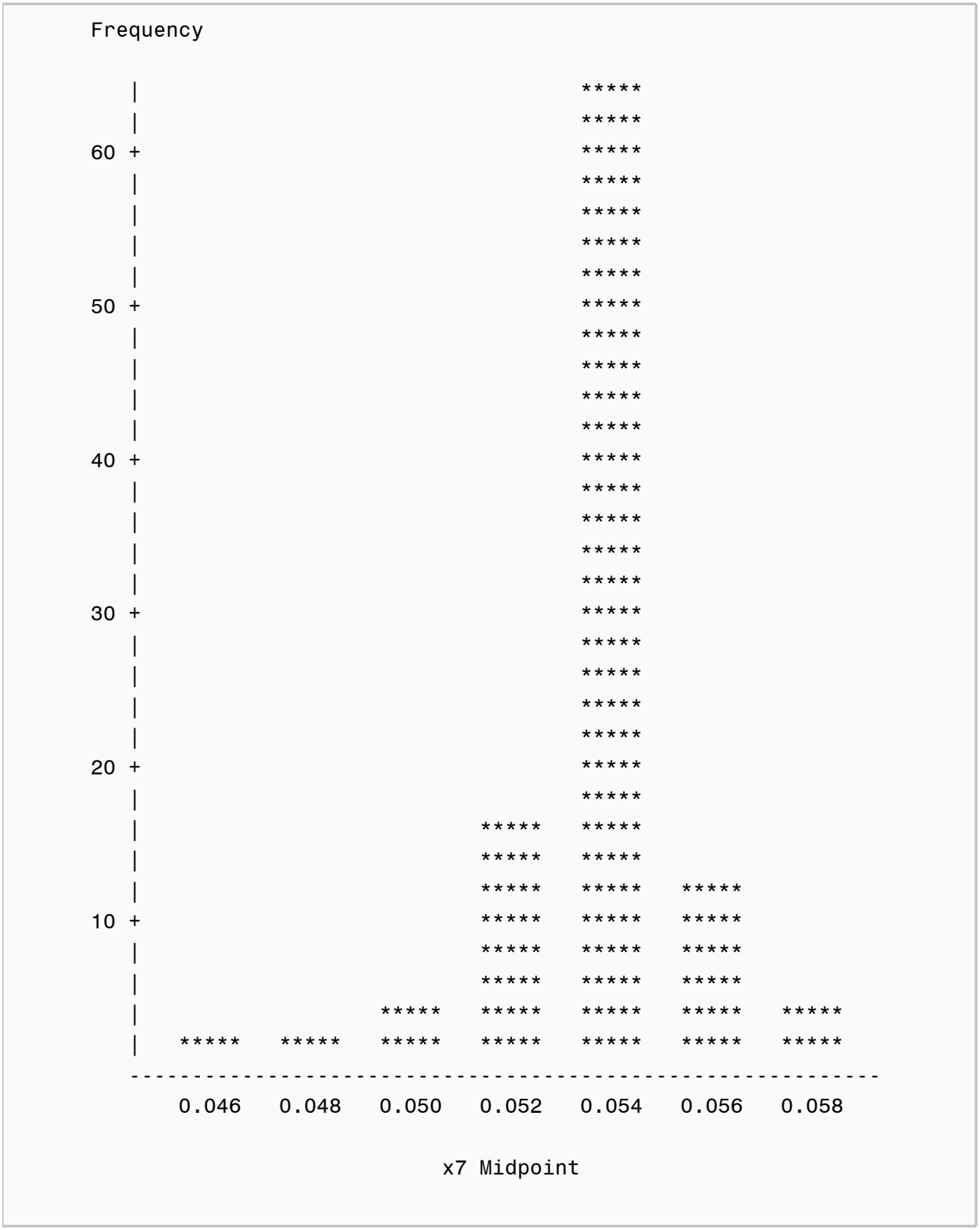
summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



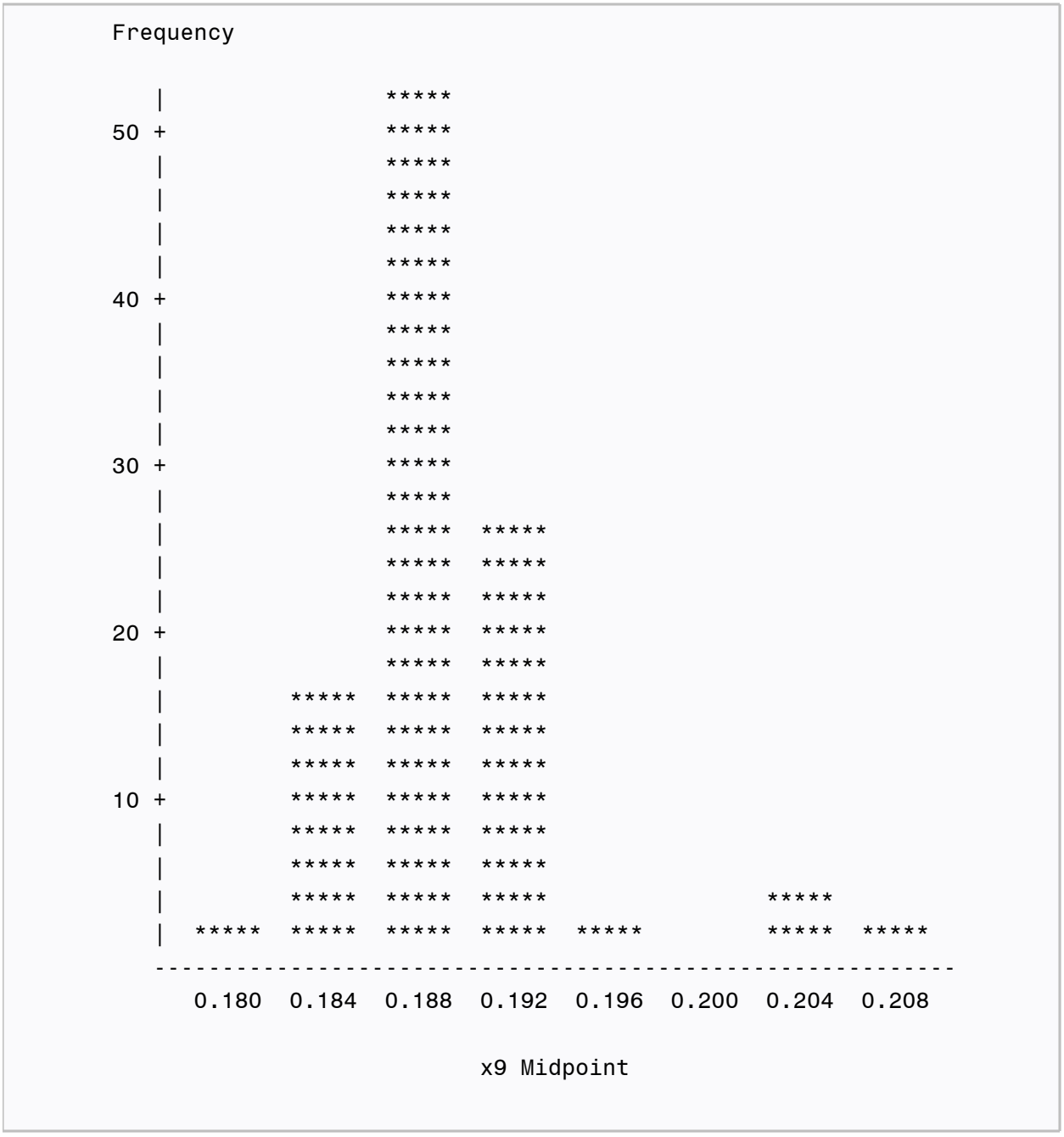
summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



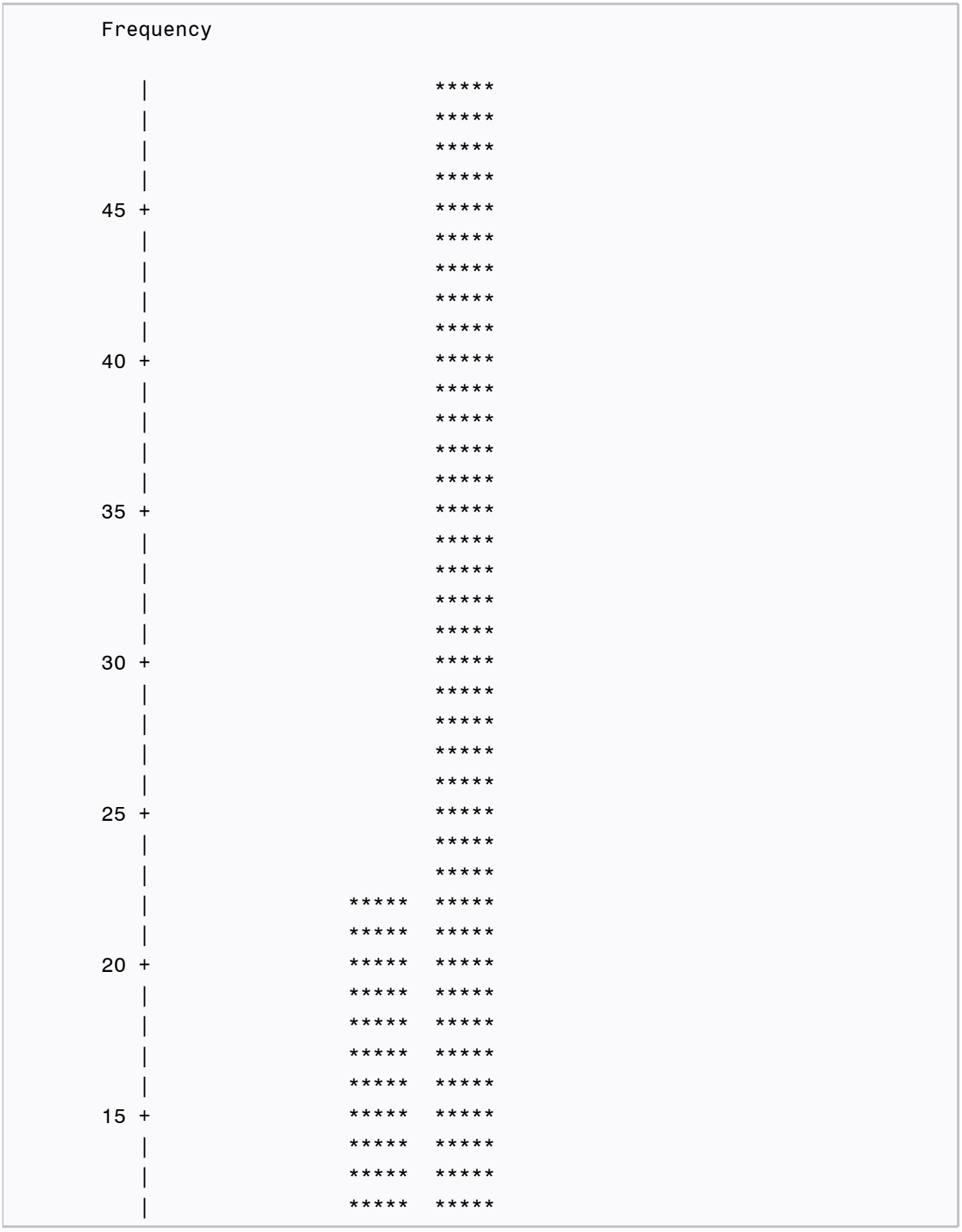
summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



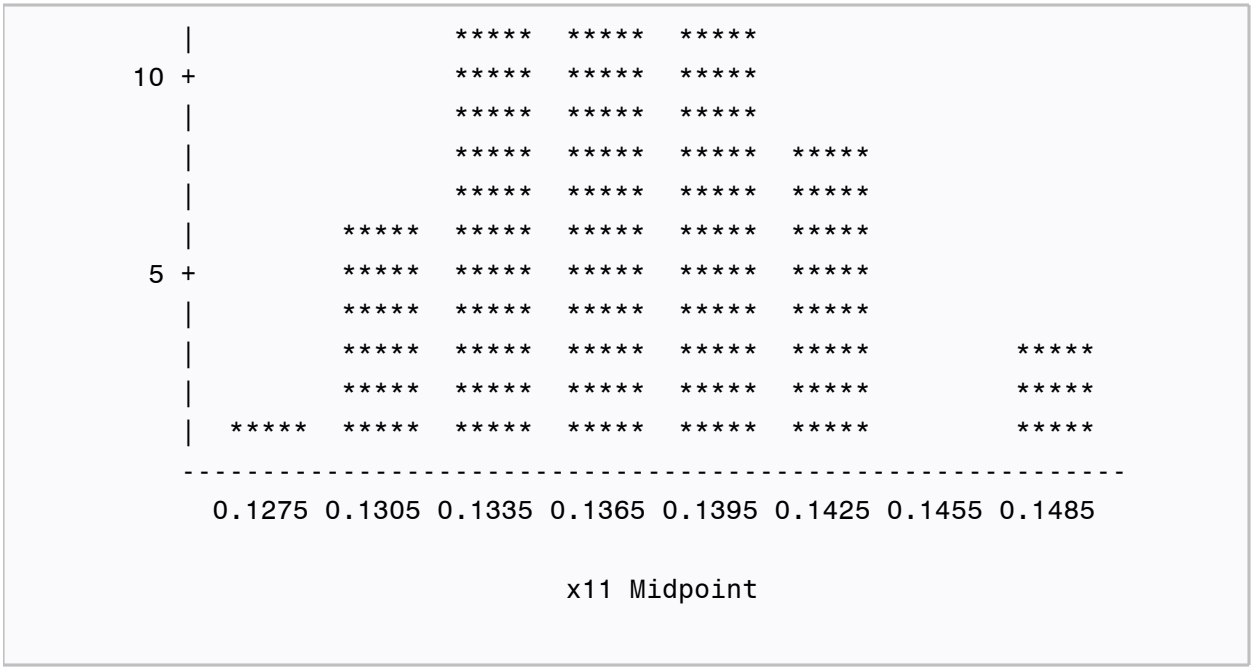
summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



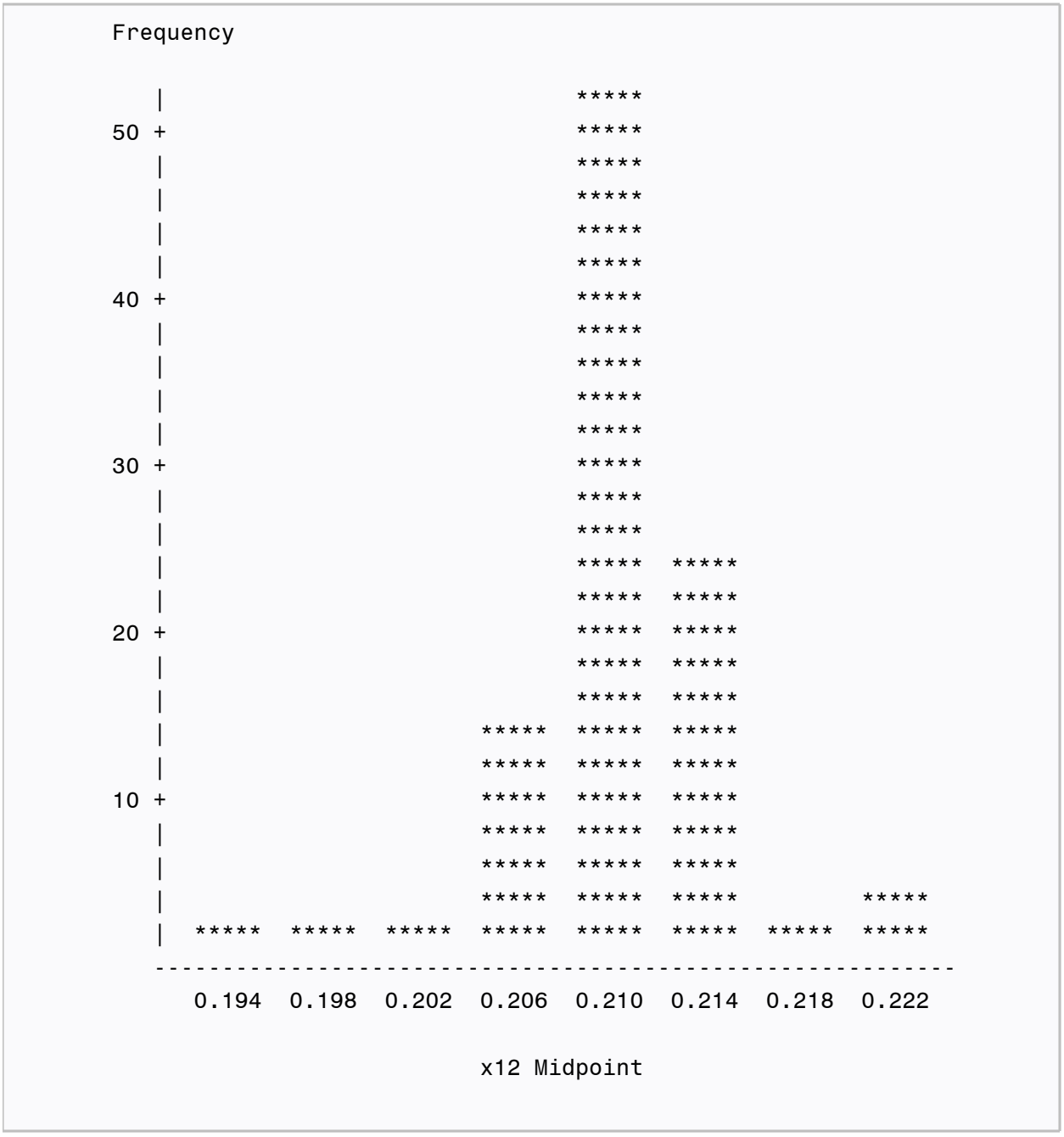
summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



summary of results: pair arranged by dominant predictor

Jackknife Interval with Bias Correction



summary of results: pair arranged by dominant predictor

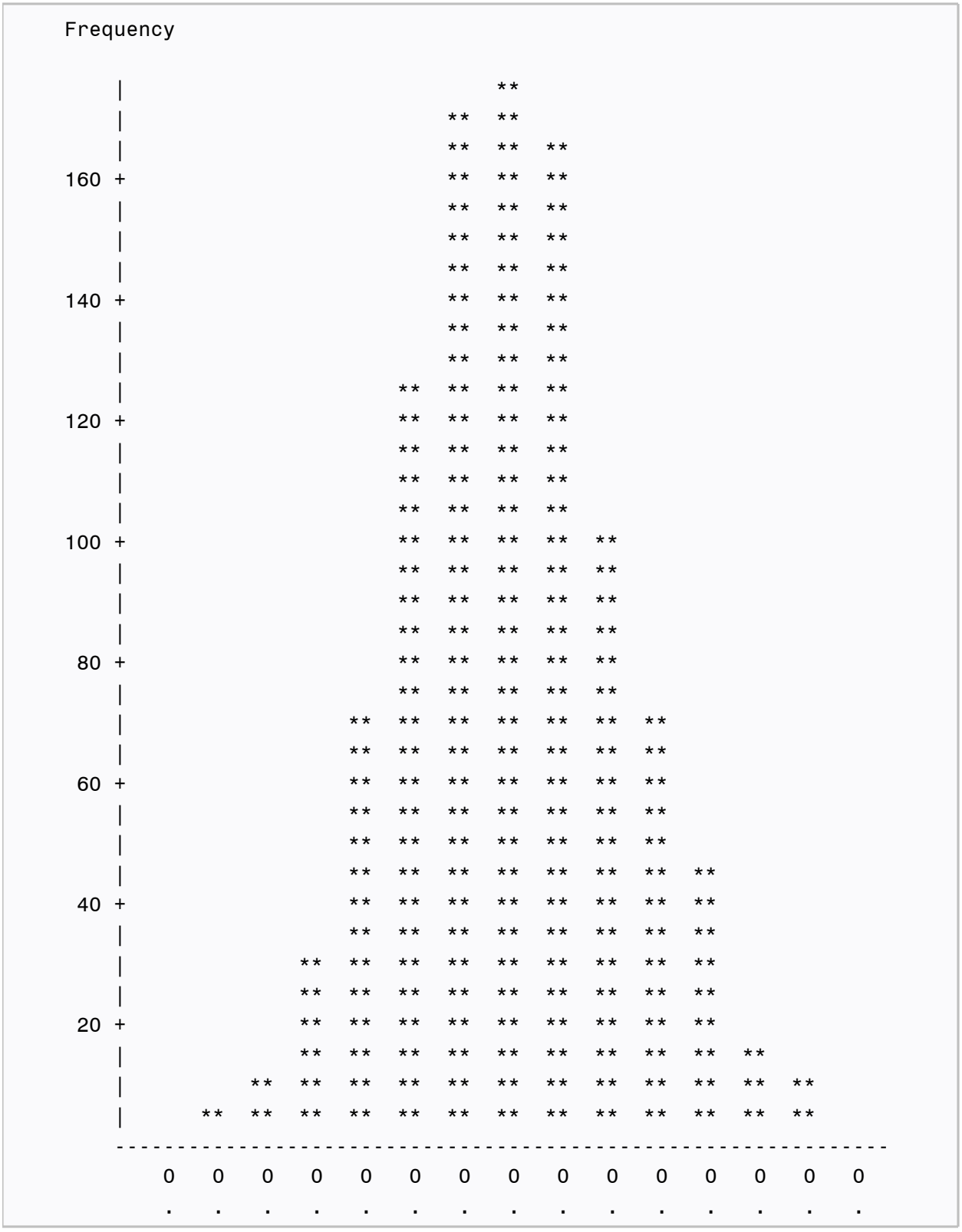
Jackknife Interval with Bias Correction

Name	Observed Statistic	Jackknife Mean	Estimated Bias	Estimated Standard Error	Estimated Lower Confidence Limit	Bias-Corrected Statistic	Estimated Upper Confidence Limit
x11	0.13654	0.13650	-.003697749	0.034518	0.07258	0.14023	0.20789
x12	0.21074	0.21067	-.007014447	0.043771	0.13196	0.21775	0.30354
x6	0.18752	0.18745	-.006414507	0.034651	0.12602	0.19393	0.26184
x7	0.05364	0.05363	-.000367488	0.018977	0.01681	0.05400	0.09120
x9	0.18918	0.18914	-.004002966	0.045455	0.10409	0.19318	0.28227

Confidence Level (%)	Method for Confidence Interval	Minimum Resampled Estimate	Maximum Resampled Estimate	Number of Resamples
95	Jackknife	0.12791	0.14934	100
95	Jackknife	0.19462	0.22307	100
95	Jackknife	0.17919	0.19782	100
95	Jackknife	0.04623	0.05835	100
95	Jackknife	0.18031	0.20871	100

summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



summary of results: pair arranged by dominant predictor

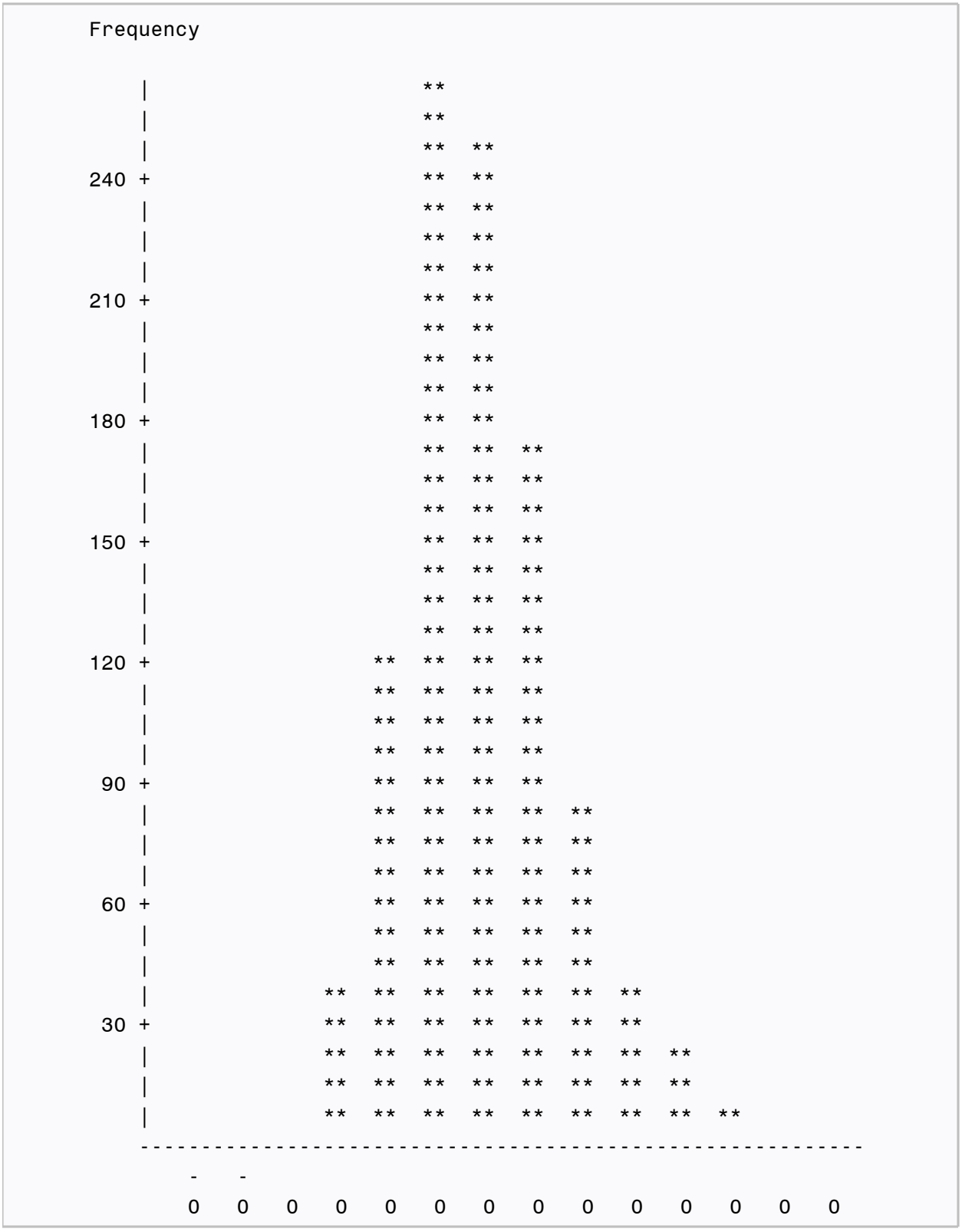
Normal ("Standard") Confidence Interval with Bias Correction

0	0	1	1	1	1	1	1	1	2	2	2	2	2	2
7	9	0	2	3	5	6	8	9	1	2	4	5	7	8
5	0	5	0	5	0	5	0	5	0	5	0	5	0	5

x6 Midpoint

summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



summary of results: pair arranged by dominant predictor

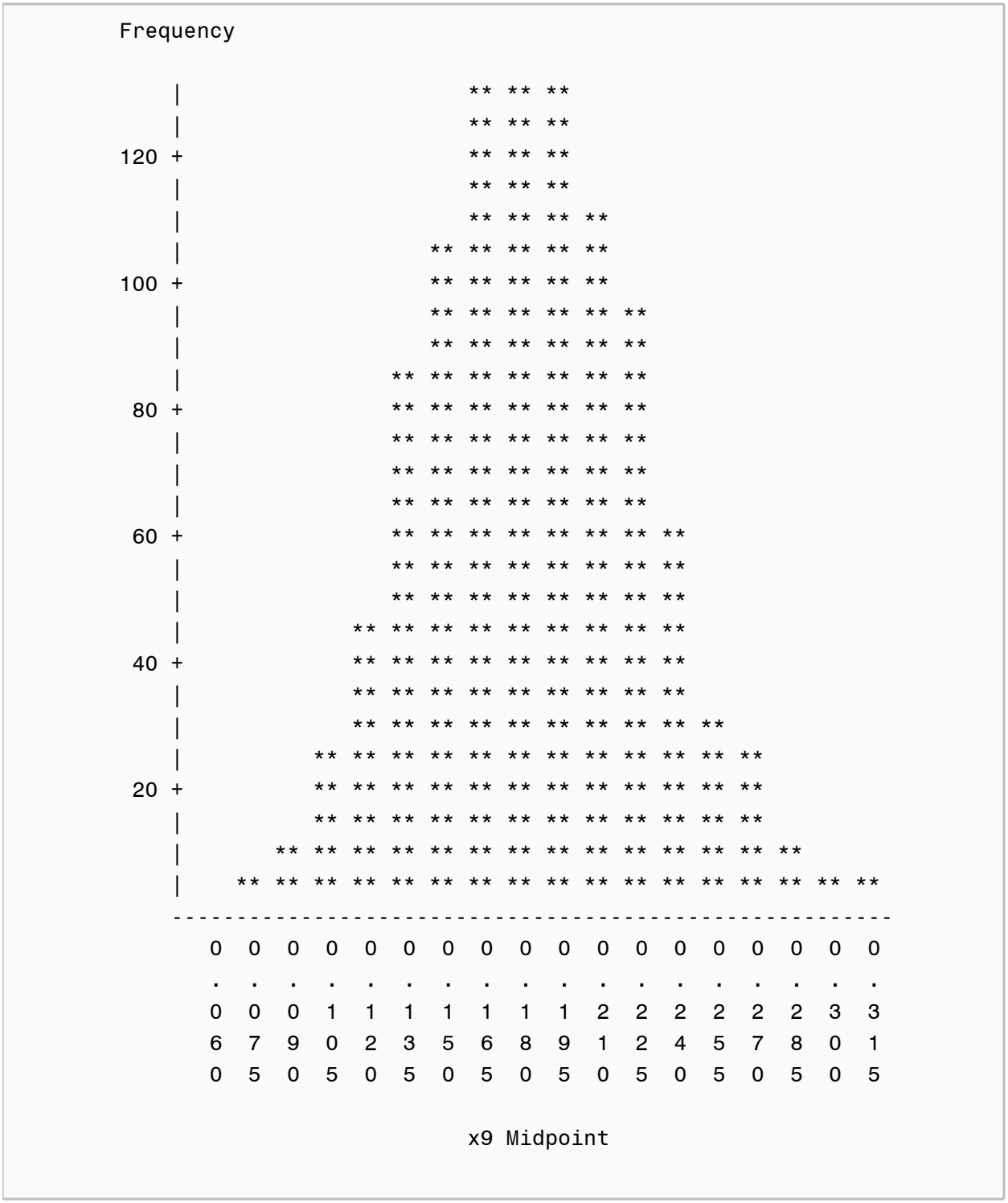
Normal ("Standard") Confidence Interval with Bias Correction

.	.	.	.	.	.	.	.	.	.	.	.	.	.
0	0	0	0	0	0	0	0	0	0	1	1	1	1
1	0	0	1	3	4	5	6	7	9	0	1	2	3
8	6	6	8	0	2	4	6	8	0	2	4	6	8

x7 Midpoint

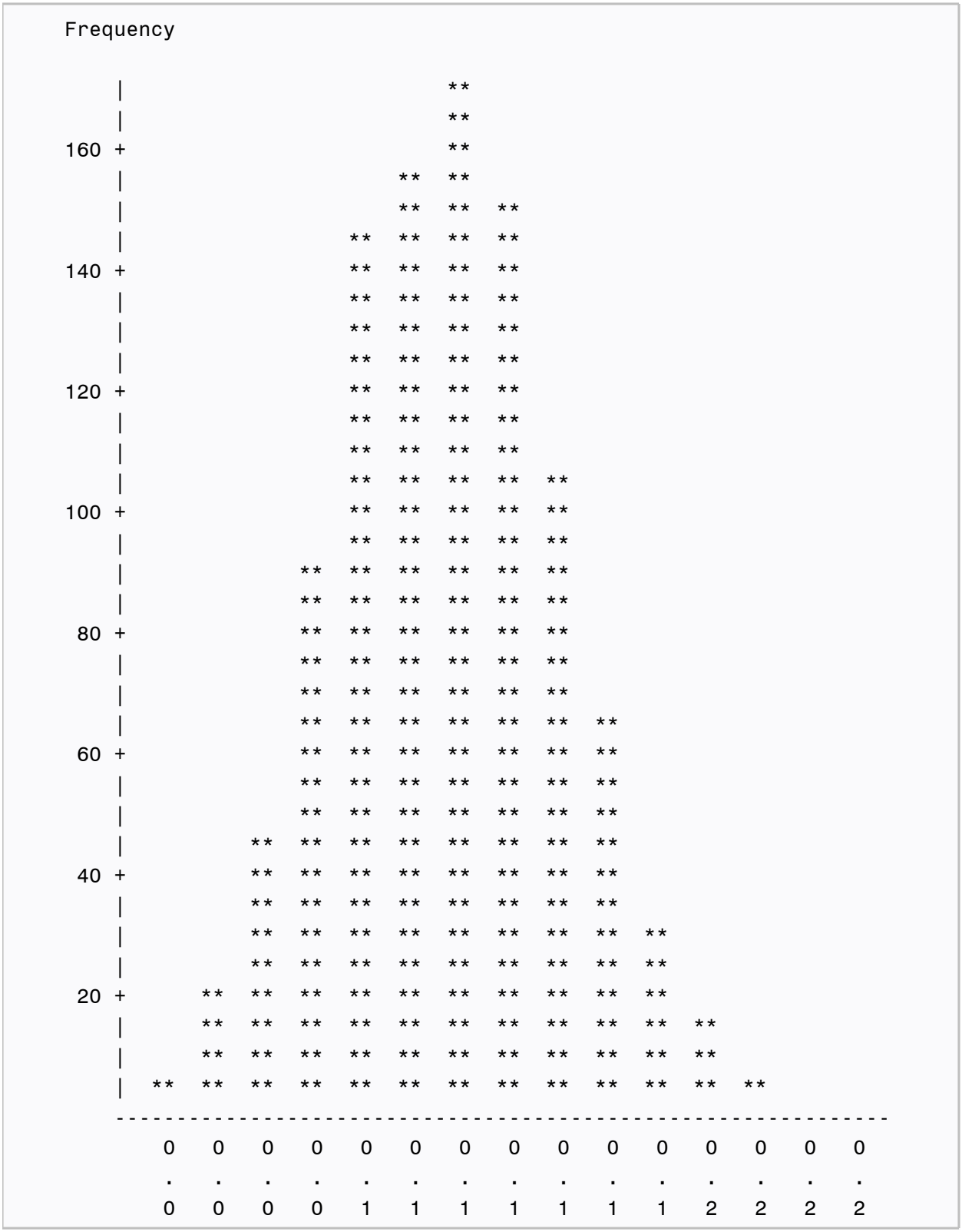
summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



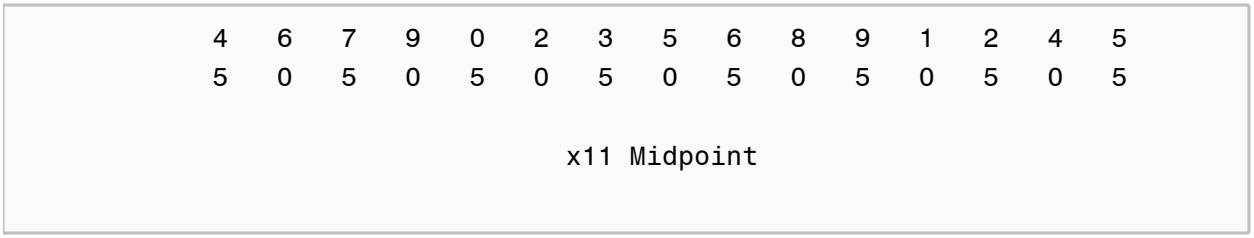
summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



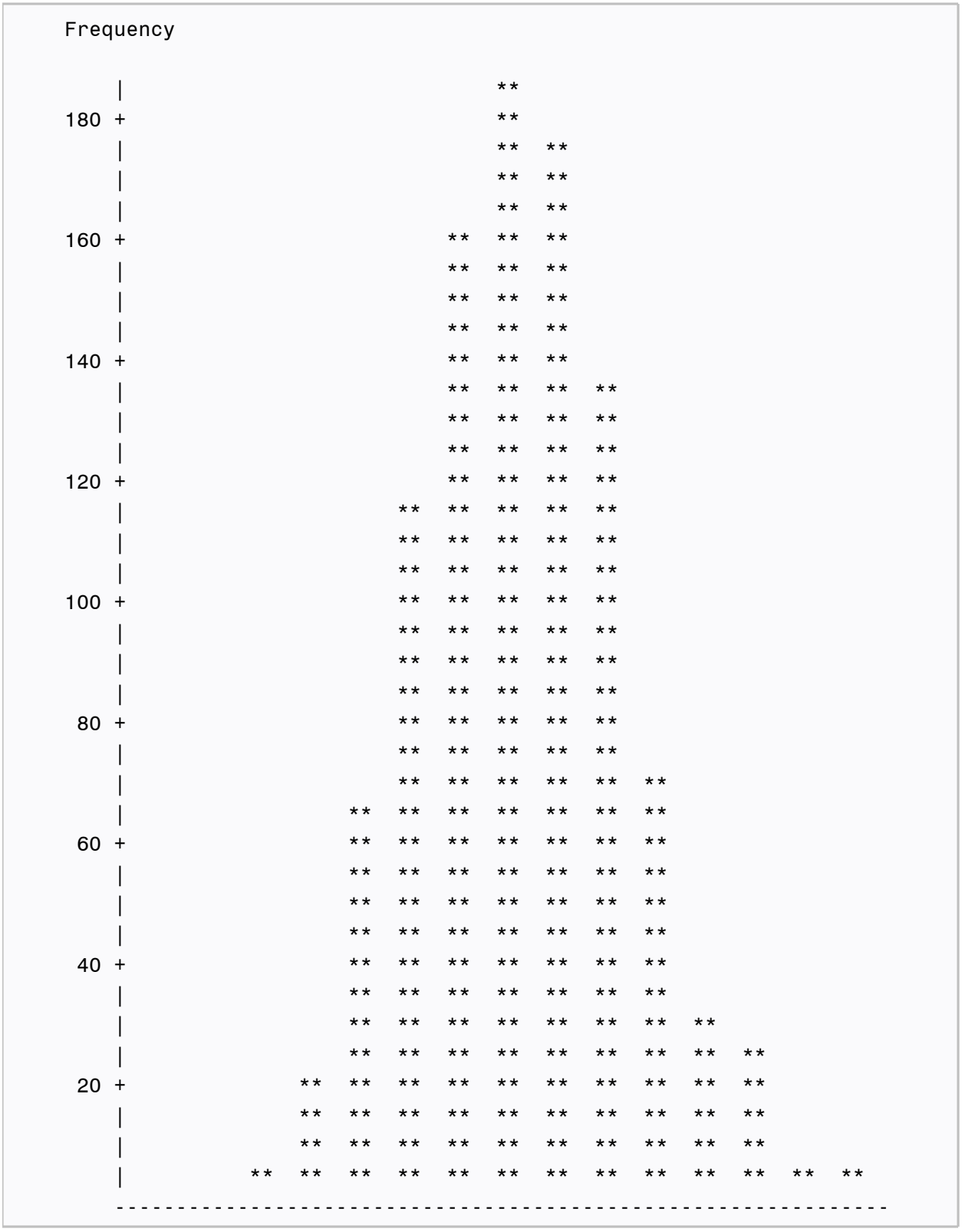
summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



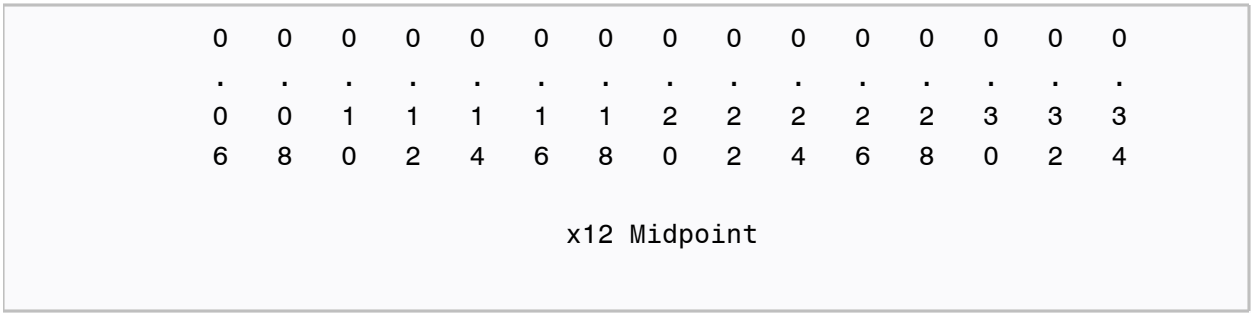
summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction



summary of results: pair arranged by dominant predictor

Normal ("Standard") Confidence Interval with Bias Correction

Name	Observed Statistic	Bootstrap Mean	Approximate Bias	Approximate Standard Error	Approximate Lower Confidence Limit	Bias-Corrected Statistic
x11	0.13654	0.13173	-.004805979	0.033922	0.07486	0.14134
x12	0.21074	0.20411	-.006625357	0.041675	0.13568	0.21736
x6	0.18752	0.18092	-.006594097	0.034045	0.12738	0.19411
x7	0.05364	0.05332	-.000314469	0.019905	0.01494	0.05395
x9	0.18918	0.18461	-.004573268	0.043183	0.10911	0.19375

Approximate Upper Confidence Limit	Confidence Level (%)	Method for Confidence Interval	Minimum Resampled Estimate	Maximum Resampled Estimate	Number of Resamples
0.20783	95	Bootstrap Normal	0.041167	0.25604	1000
0.29905	95	Bootstrap Normal	0.063740	0.34585	1000
0.26084	95	Bootstrap Normal	0.068830	0.28823	1000
0.09296	95	Bootstrap Normal	-0.021443	0.14373	1000
0.27839	95	Bootstrap Normal	0.061461	0.31806	1000

summary of results: pair arranged by dominant predictor

BCa Confidence Interval

Name	Observed Statistic	Approximate Lower Confidence Limit	Approximate Upper Confidence Limit	Confidence Level (%)	Method for C onfidence Interval	Number of Resamples	Lower Percentile Point
x11	0.13654	0.07605	0.21158	95	Bootstrap bca	1000	0.042953
x12	0.21074	0.13966	0.30412	95	Bootstrap bca	1000	0.057012
x6	0.18752	0.13176	0.26405	95	Bootstrap bca	1000	0.062518
x7	0.05364	0.02535	0.11481	95	Bootstrap bca	1000	0.051462
x9	0.18918	0.11074	0.28146	95	Bootstrap bca	1000	0.035445

Upper Percentile Point	Bias Correction (Z0)	Acceleration
0.98561	0.15097	-0.017567
0.99080	0.17128	0.011819
0.99111	0.22754	-0.009535
0.98958	0.13830	0.016295
0.98202	0.12819	-0.028954