Obs	id	y	x1	x2	x3	x4	x5	x6
1	Phoenix	10	70.3	213	582	6.0	7.05	36
2	Little_R	13	61.0	91	132	8.2	48.52	100
3	San_Fran	12	56.7	453	716	8.7	20.66	67
4	Denver	17	51.9	454	515	9.0	12.95	86
5	Hartford	56	49.1	412	158	9.0	43.37	127
6	Wilmingt	36	54.0	80	80	9.0	40.25	114
7	Washingt	29	57.3	434	757	9.3	38.89	111
8	Jacksonv	14	68.4	136	529	8.8	54.47	116
9	Miami	10	75.5	207	335	9.0	59.80	128
10	Atlanta	24	61.5	368	497	9.1	48.34	115

The CORR Procedure

7 Variables:	y	x1	x2	x3	x4	x5	x6

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
y	41	30.04878	23.47227	1232	8.00000	110.00000
x1	41	55.76341	7.22772	2286	43.50000	75.50000
x2	41	463.09756	563.47395	18987	35.00000	3344
x3	41	608.60976	579.11302	24953	71.00000	3369
x4	41	9.44390	1.42864	387.20000	6.00000	12.70000
x5	41	36.76902	11.77155	1508	7.05000	59.80000
x6	41	113.90244	26.50642	4670	36.00000	166.00000

Pearson Correlation Coefficients, N = 41 Prob > |r| under H0: Rho=0							
	y	x1	x2	x3	x4	x5	x6
y	1.00000	−0.43360 0.0046	0.64477 <.0001	0.49378 0.0010	0.09469 0.5559	0.05429 0.7360	0.36956 0.0174
x1	−0.43360 0.0046	1.00000	−0.19004 0.2340	−0.06268 0.6970	−0.34974 0.0250	0.38625 0.0126	−0.43024 0.0050
x2	0.64477 <.0001	−0.19004 0.2340	1.00000	0.95527 <.0001	0.23795 0.1341	−0.03242 0.8405	0.13183 0.4113
x3	0.49378 0.0010	−0.06268 0.6970	0.95527 <.0001	1.00000	0.21264 0.1819	−0.02612 0.8712	0.04208 0.7939
x4	0.09469 0.5559	−0.34974 0.0250	0.23795 0.1341	0.21264 0.1819	1.00000	−0.01299 0.9357	0.16411 0.3052
x5	0.05429 0.7360	0.38625 0.0126	−0.03242 0.8405	−0.02612 0.8712	−0.01299 0.9357	1.00000	0.49610 0.0010
x6	0.36956 0.0174	−0.43024 0.0050	0.13183 0.4113	0.04208 0.7939	0.16411 0.3052	0.49610 0.0010	1.00000

The REG Procedure
Model: MODEL1
Dependent Variable: y

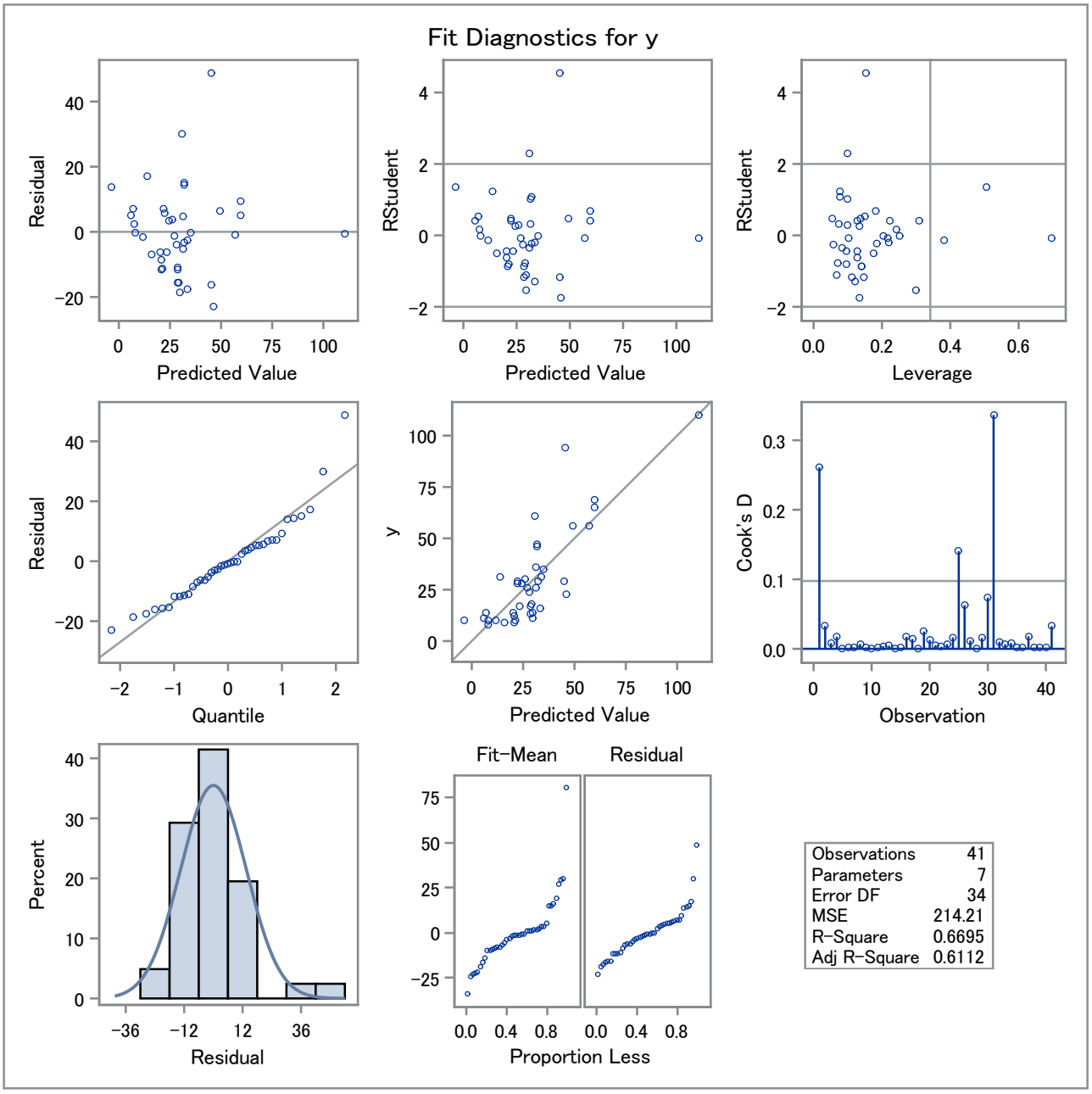
Number of Observations Read	41
Number of Observations Used	41

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	14755	2459.10601	11.48	<.0001
Error	34	7283.26641	214.21372		
Corrected Total	40	22038			

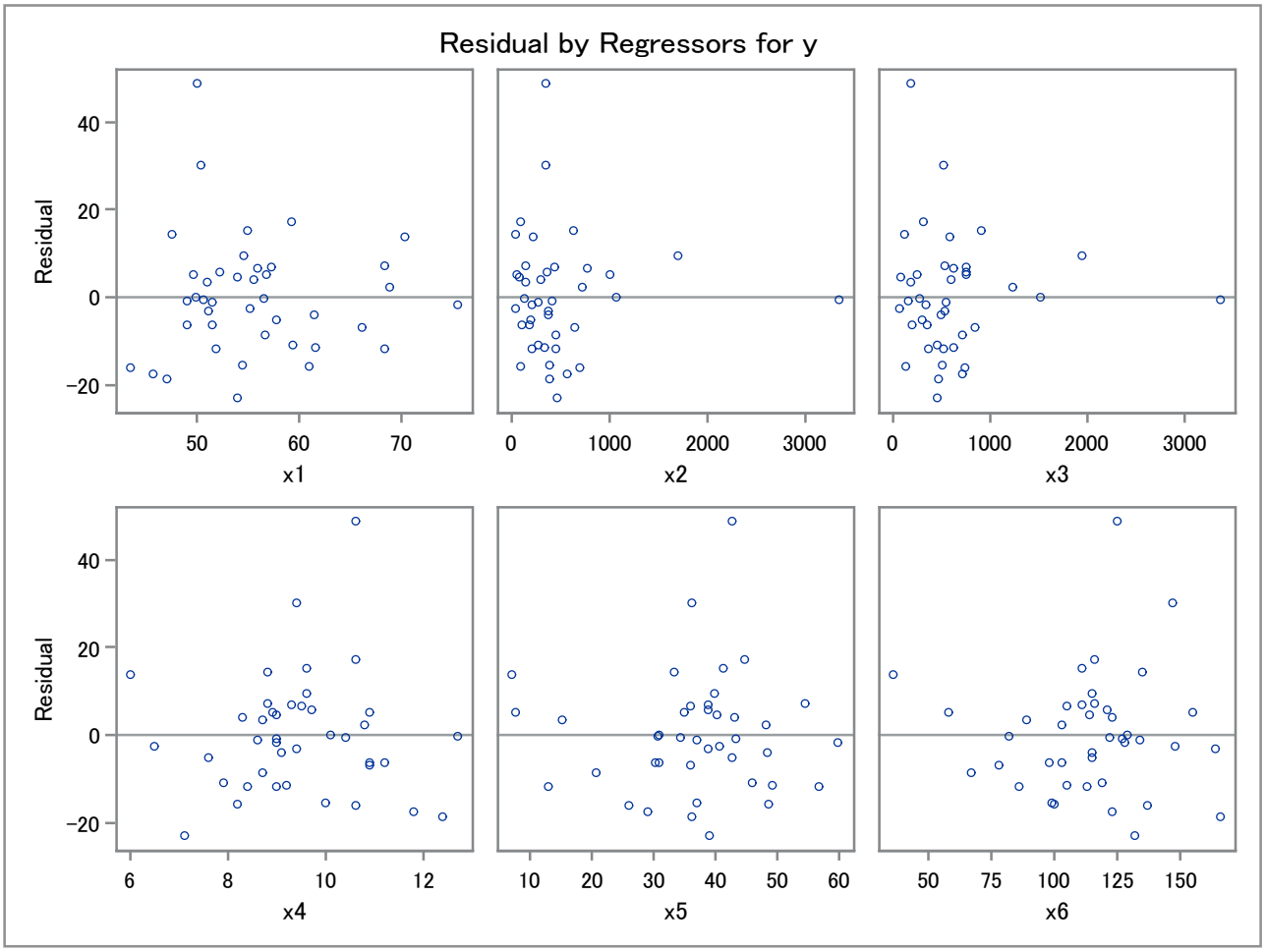
Root MSE	14.63604	R-Square	0.6695
Dependent Mean	30.04878	Adj R-Sq	0.6112
Coeff Var	48.70761		

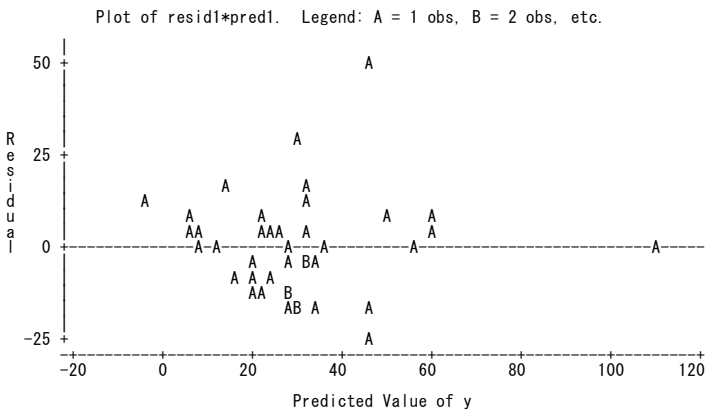
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	111.72848	47.31810	2.36	0.0241
x1	1	-1.26794	0.62118	-2.04	0.0491
x2	1	0.06492	0.01575	4.12	0.0002
x3	1	-0.03928	0.01513	-2.60	0.0138
x4	1	-3.18137	1.81502	-1.75	0.0887
x5	1	0.51236	0.36276	1.41	0.1669
x6	1	-0.05205	0.16201	-0.32	0.7500

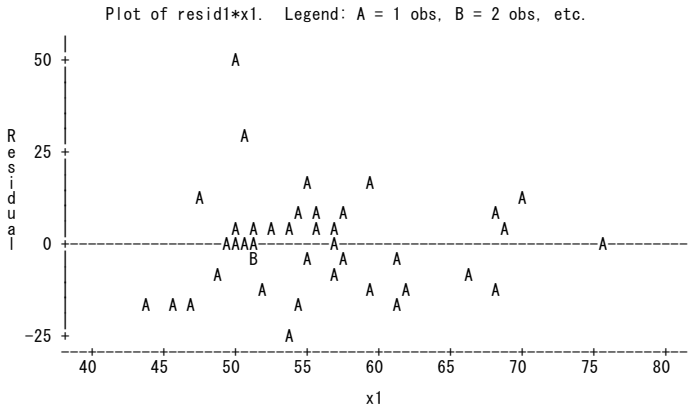
The REG Procedure
Model: MODEL1
Dependent Variable: y

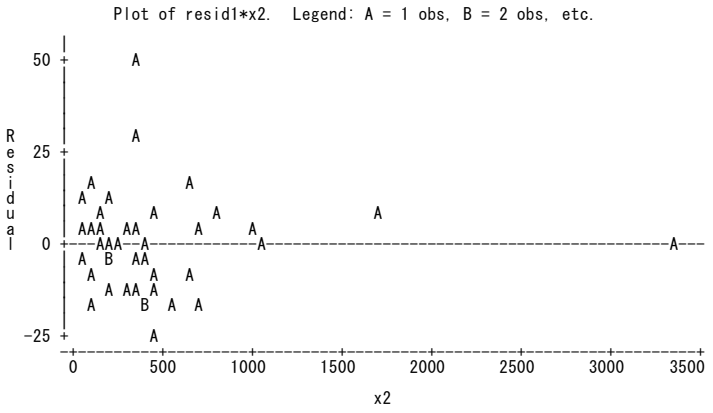


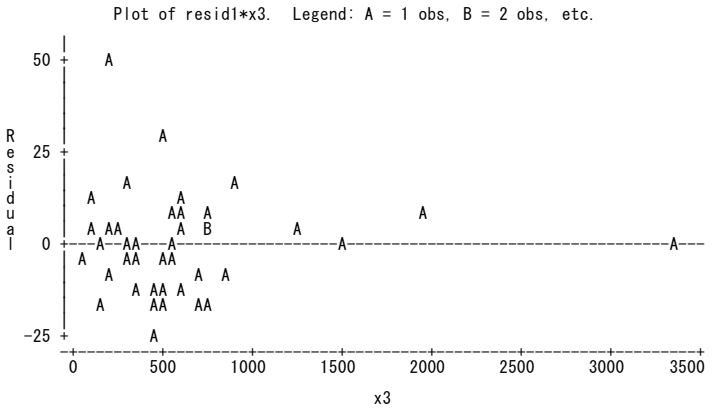
The REG Procedure
Model: MODEL1
Dependent Variable: y

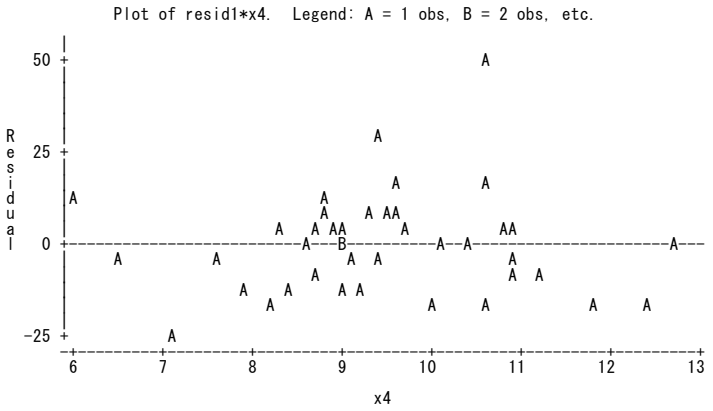


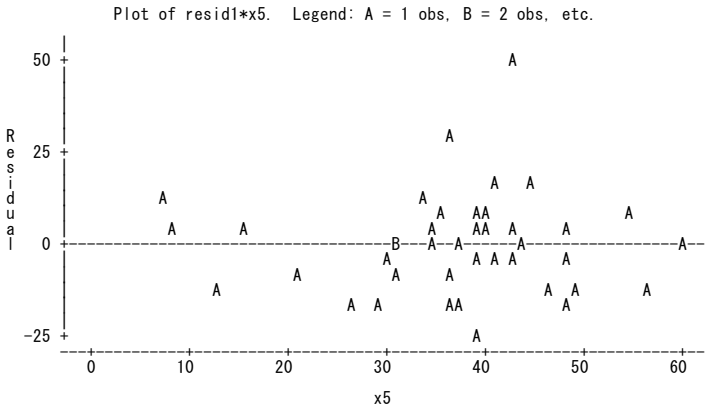

Plot of resid1*pred1. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-20
0
20
40
60
80
100
120
Predicted Value of y

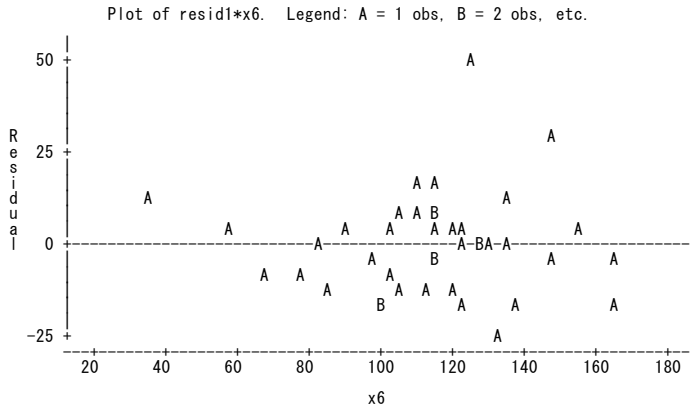

Plot of resid1*x1. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
40
45
50
55
60
65
70
75
80
x1

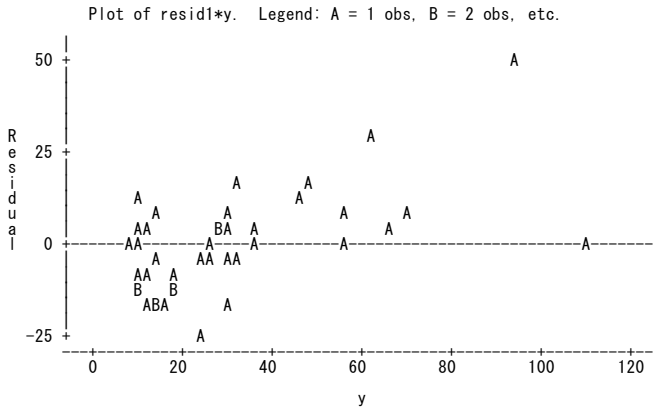

Plot of resid1*x2. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
0
500
1000
1500
2000
2500
3000
3500
x2


Plot of resid1*x3. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
0
500
1000
1500
2000
2500
3000
3500
x3


Plot of resid1*x4. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
6
7
8
9
10
11
12
13
x4


Plot of resid1*x5. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
0
10
20
30
40
50
60
x5


Plot of resid1*x6. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
20
40
60
80
100
120
140
160
180
x6


Plot of resid1*y. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
0
20
40
60
80
100
120
y

The REG Procedure
Model: MODEL1
Dependent Variable: y

Number of Observations Read	41
Number of Observations Used	41

Stepwise Selection: Step 1

Variable x2 Entered: R-Square = 0.4157 and C(p) = 23.1089

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9161.74469	9161.74469	27.75	<.0001
Error	39	12876	330.15789		
Corrected Total	40	22038			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	17.61057	3.69159	7513.50474	22.76	<.0001
x2	0.02686	0.00510	9161.74469	27.75	<.0001

Bounds on condition number: 1, 1

Stepwise Selection: Step 2

Variable x3 Entered: R-Square = 0.5863 and C(p) = 7.5586

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	12921	6460.63359	26.93	<.0001
Error	38	9116.63526	239.91145		
Corrected Total	40	22038			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	26.32508	3.84044	11273	46.99	<.0001
x2	0.08243	0.01470	7548.02378	31.46	<.0001
x3	-0.05661	0.01430	3759.52248	15.67	0.0003

Bounds on condition number: 11.434, 45.735

Stepwise Selection: Step 3

Variable x6 Entered: R-Square = 0.6174 and C(p) = 6.3610

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	13606	4535.41173	19.90	<.0001
Error	37	8431.66725	227.88290		
Corrected Total	40	22038			

The REG Procedure
Model: MODEL1
Dependent Variable: y

Stepwise Selection: Step 3

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.96585	11.77691	79.72552	0.35	0.5578
x2	0.07433	0.01507	5547.32154	24.34	<.0001
x3	−0.04939	0.01454	2628.36952	11.53	0.0016
x6	0.16436	0.09480	684.96801	3.01	0.0913

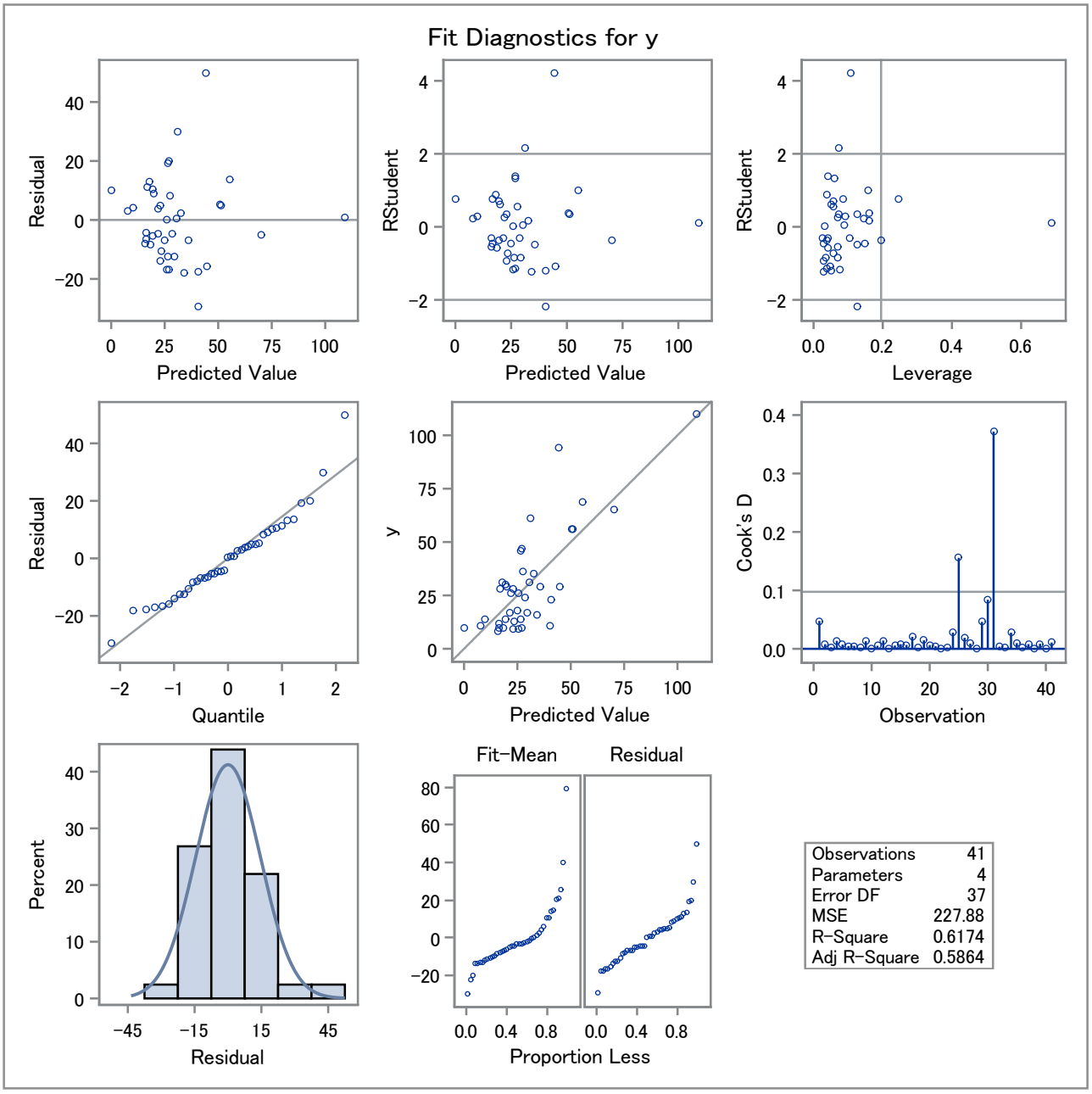
Bounds on condition number: 12.65, 78.633

All variables left in the model are significant at the 0.1500 level.

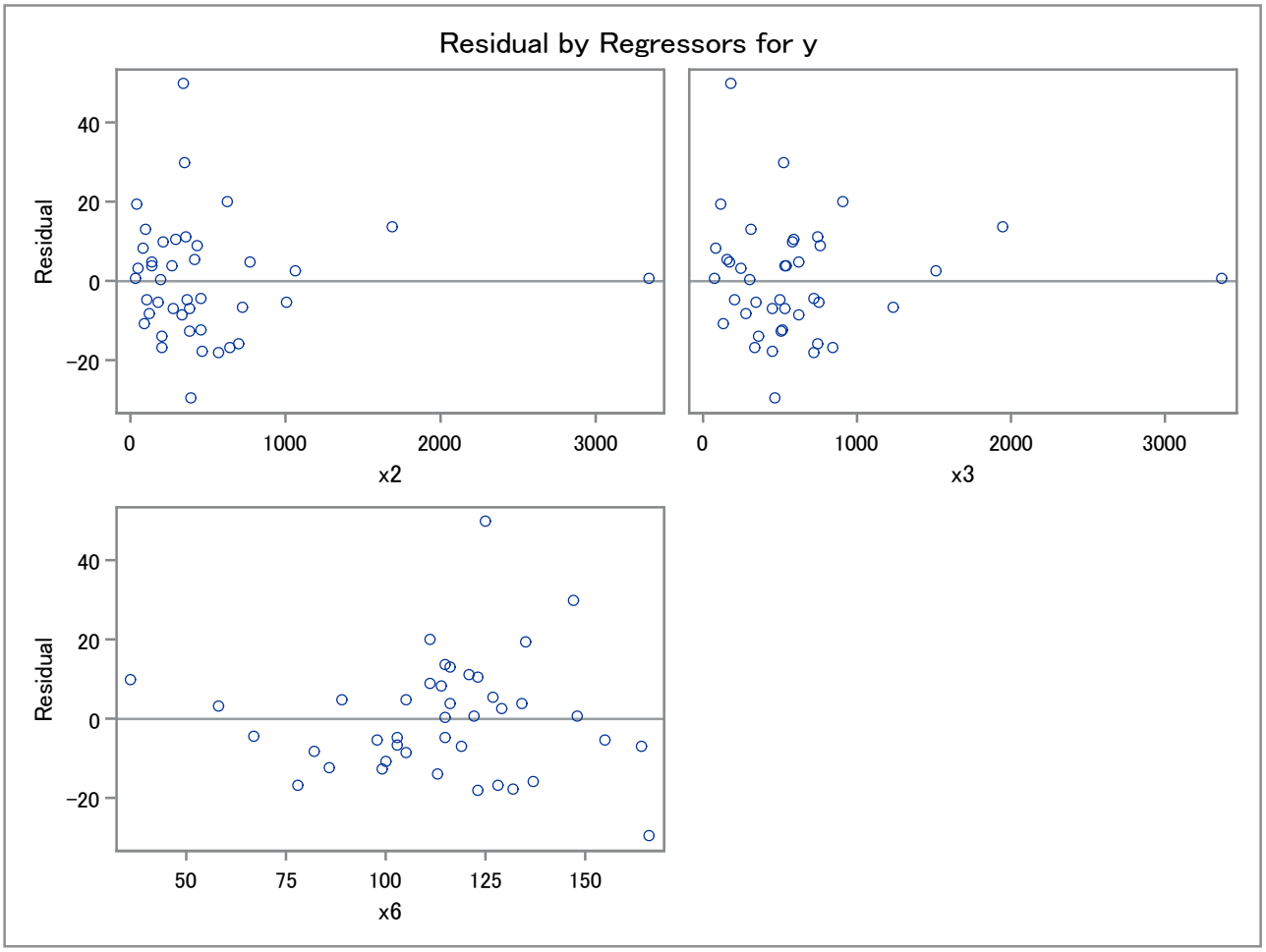
No other variable met the 0.1500 significance level for entry into the model.

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	x2		1	0.4157	0.4157	23.1089	27.75	<.0001
2	x3		2	0.1706	0.5863	7.5586	15.67	0.0003
3	x6		3	0.0311	0.6174	6.3610	3.01	0.0913

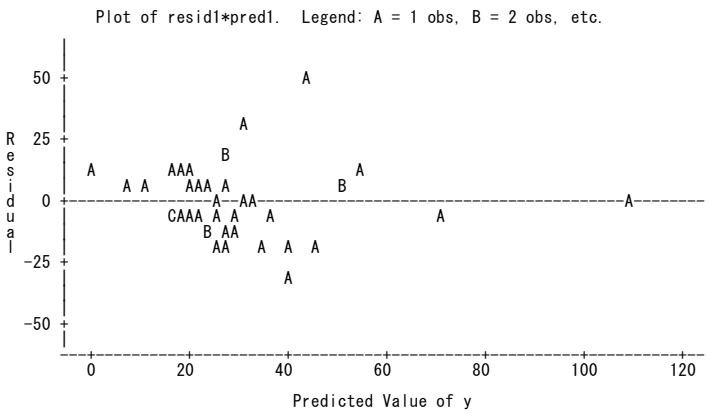
The REG Procedure
Model: MODEL1
Dependent Variable: y

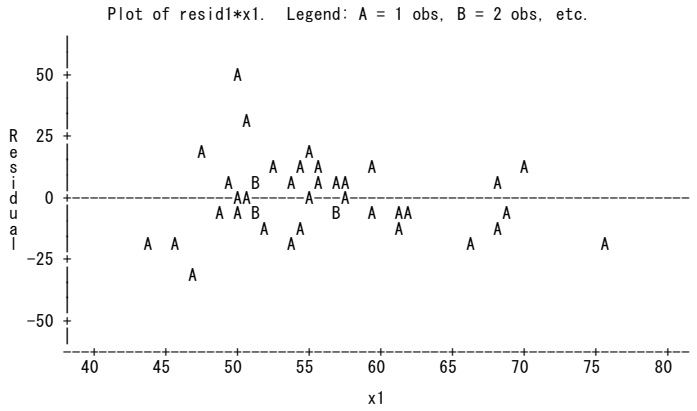


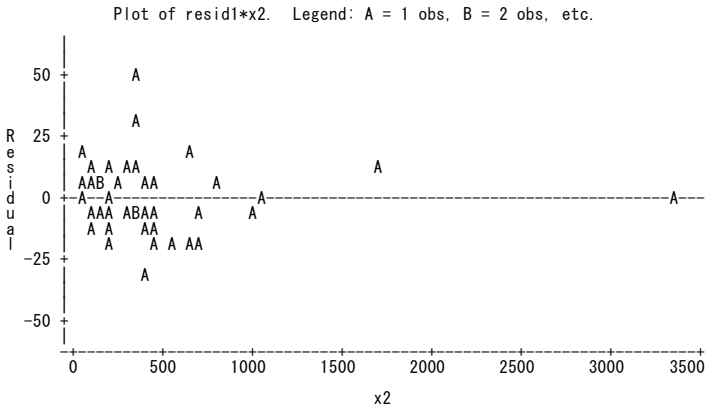
The REG Procedure
Model: MODEL1
Dependent Variable: y

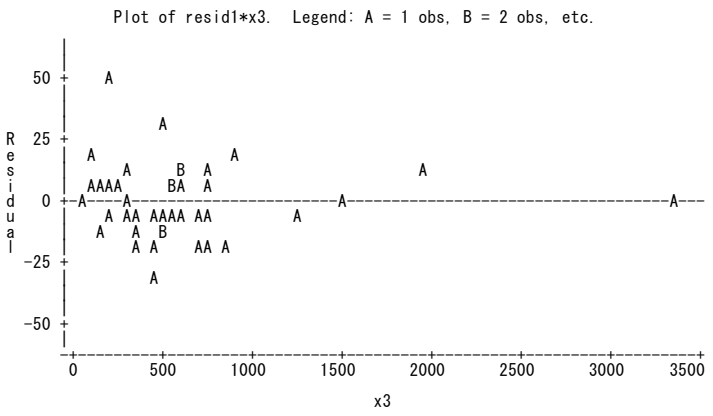


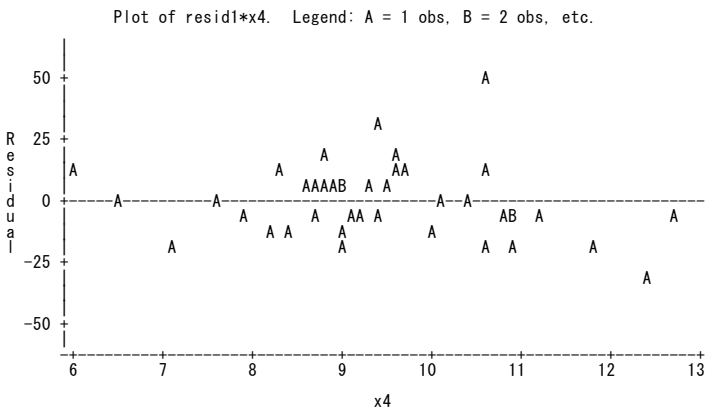
Obs	id	y	x1	x2	x3	x4	x5	x6	pred1	resid1
1	Phoenix	10	70.3	213	582	6.0	7.05	36	−0.032	10.0316
2	Little_R	13	61.0	91	132	8.2	48.52	100	23.646	−10.6461
3	San_Fran	12	56.7	453	716	8.7	20.66	67	16.285	−4.2849
4	Denver	17	51.9	454	515	9.0	12.95	86	29.410	−12.4103
5	Hartford	56	49.1	412	158	9.0	43.37	127	50.661	5.3392
6	Wilmingt	36	54.0	80	80	9.0	40.25	114	27.698	8.3020
7	Washingt	29	57.3	434	757	9.3	38.89	111	20.079	8.9208
8	Jacksonv	14	68.4	136	529	8.8	54.47	116	10.011	3.9887
9	Miami	10	75.5	207	335	9.0	59.80	128	26.844	−16.8439
10	Atlanta	24	61.5	368	497	9.1	48.34	115	28.673	−4.6731
11	Chicago	110	50.6	3344	3369	10.4	34.44	122	109.181	0.8191
12	Indianap	28	52.3	361	746	9.7	38.74	121	16.840	11.1603
13	Des_Moin	17	49.0	104	201	11.2	30.85	103	21.697	−4.6973
14	Wichita	8	56.6	125	277	12.7	30.58	82	16.053	−8.0528
15	Louisvil	30	55.6	291	593	8.3	43.11	123	19.522	10.4776

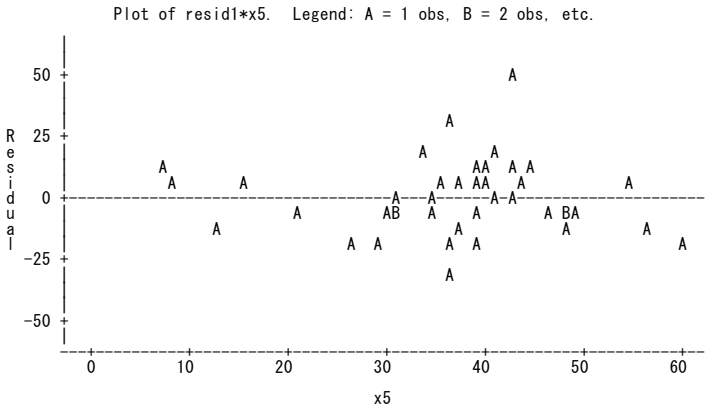

Plot of resid1*pred1. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
20
40
60
80
100
120
Predicted Value of y

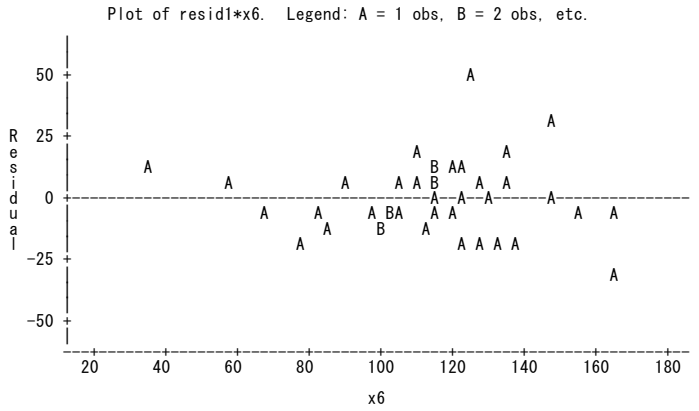

Plot of resid1*x1. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
40
45
50
55
60
65
70
75
80
x1

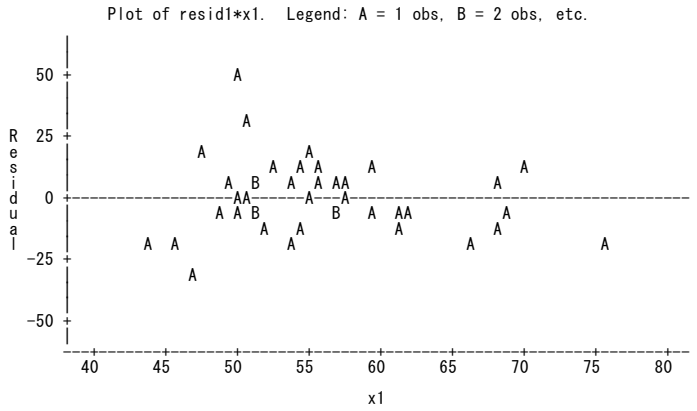

Plot of resid1*x2. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
500
1000
1500
2000
2500
3000
3500
x2

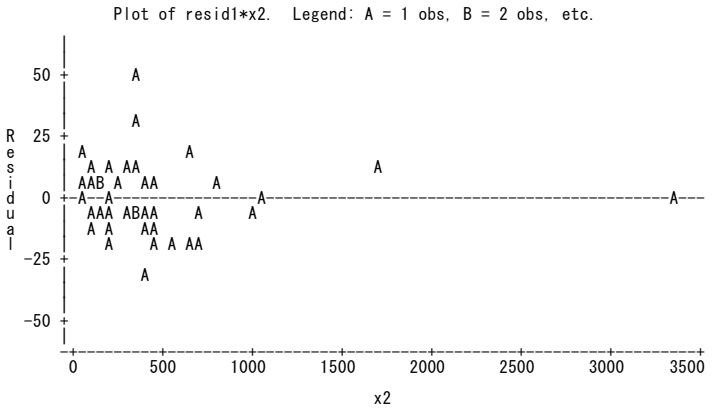

Plot of resid1*x3. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
500
1000
1500
2000
2500
3000
3500
x3

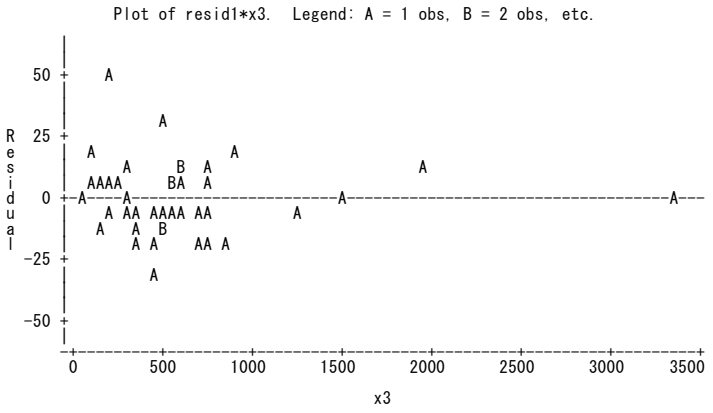

Plot of resid1*x4. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
6
7
8
9
10
11
12
13
x4

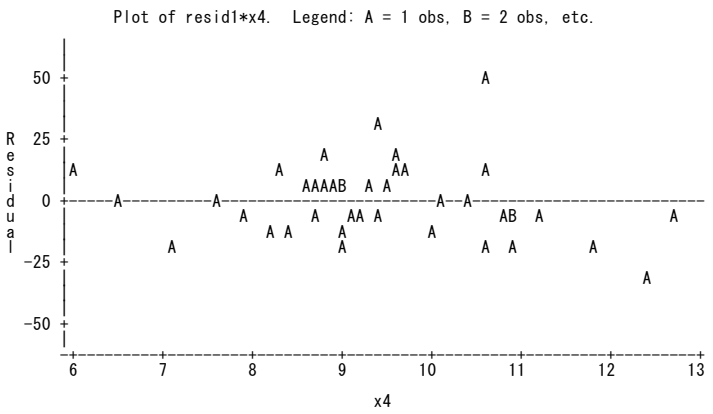

Plot of resid1*x5. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
10
20
30
40
50
60
x5

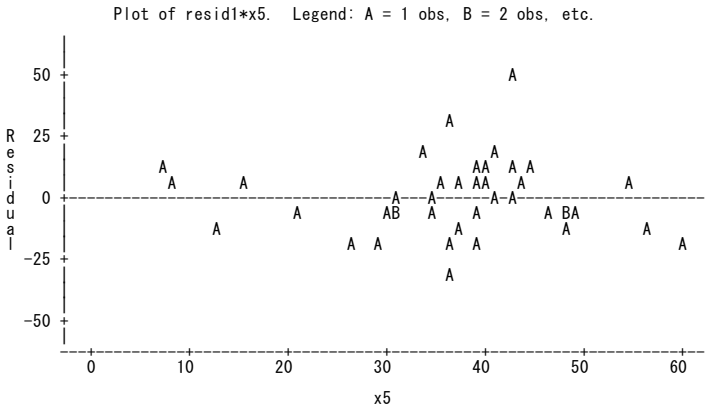

Plot of resid1*x6. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
20
40
60
80
100
120
140
160
180
x6

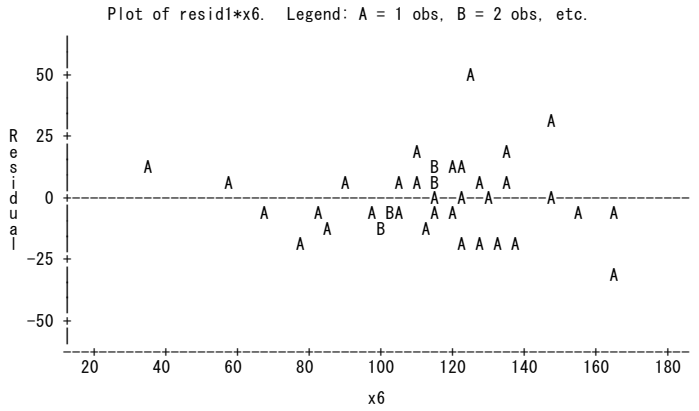

Plot of resid1*x1. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
40
45
50
55
60
65
70
75
80
x1

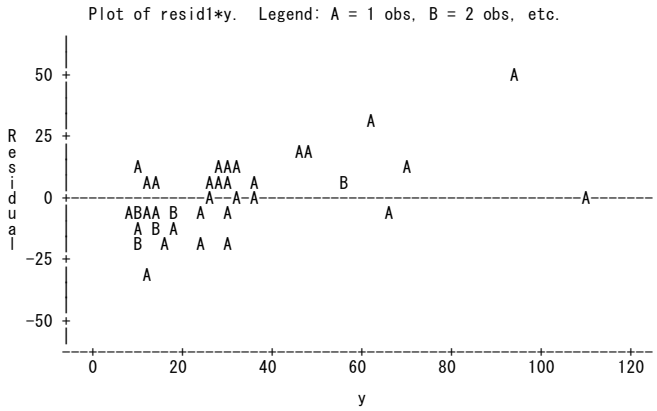

Plot of resid1*x2. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
500
1000
1500
2000
2500
3000
3500
x2


Plot of resid1*x3. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
500
1000
1500
2000
2500
3000
3500
x3


Plot of resid1*x4. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
6
7
8
9
10
11
12
13
x4


Plot of resid1*x5. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
10
20
30
40
50
60
x5


Plot of resid1*x6. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
20
40
60
80
100
120
140
160
180
x6


Plot of resid1*y. Legend: A = 1 obs, B = 2 obs, etc.
Residual
50
25
0
-25
-50
0
20
40
60
80
100
120
y

The REG Procedure
Model: MODEL1
Dependent Variable: y

R-Square Selection Method

Number of Observations Read	41
Number of Observations Used	41

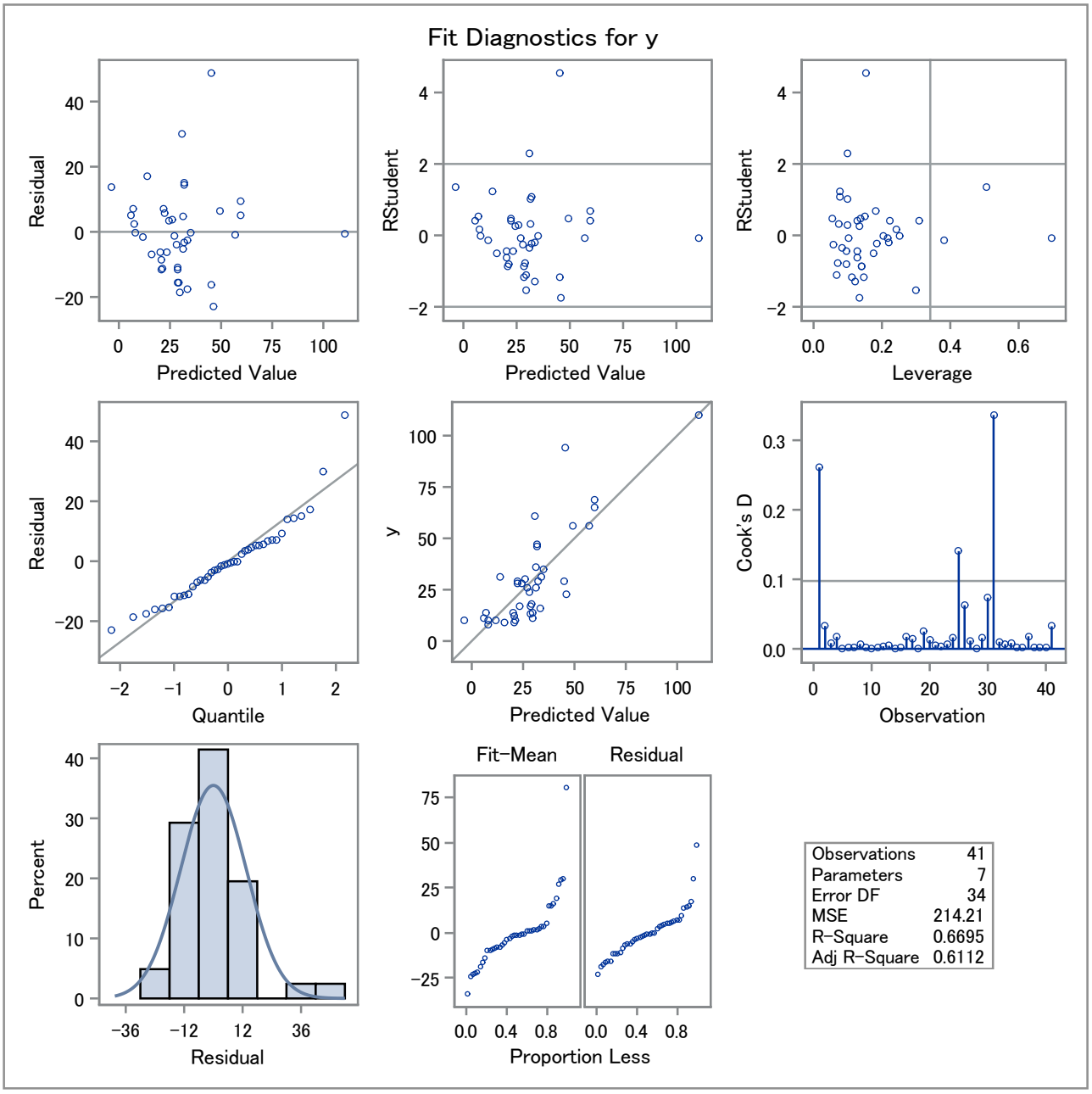
Number in Model	R-Square	Variables in Model
1	0.4157	x2
1	0.2438	x3
1	0.1880	x1
1	0.1366	x6
1	0.0090	x4
1	0.0029	x5
2	0.5863	x2 x3
2	0.5161	x1 x2
2	0.4981	x2 x6
2	0.4214	x2 x5
2	0.4194	x2 x4
2	0.4066	x1 x3
2	0.3657	x3 x6
2	0.2483	x3 x5
2	0.2458	x1 x5
2	0.2439	x3 x4
2	0.2291	x1 x6
2	0.1917	x1 x4
2	0.1587	x5 x6
2	0.1378	x4 x6
2	0.0120	x4 x5
3	0.6174	x2 x3 x6
3	0.6125	x1 x2 x3
3	0.5930	x2 x3 x5
3	0.5930	x2 x3 x4
3	0.5622	x1 x2 x5
3	0.5452	x1 x2 x6
3	0.5452	x1 x2 x4
3	0.5083	x2 x4 x6
3	0.5047	x2 x5 x6
3	0.4649	x1 x3 x5
3	0.4446	x1 x3 x6
3	0.4320	x1 x3 x4
3	0.4250	x2 x4 x5
3	0.3808	x3 x5 x6
3	0.3702	x3 x4 x6

The REG Procedure
Model: MODEL1
Dependent Variable: y

R-Square Selection Method

Number in Model	R-Square	Variables in Model
3	0.2550	x1 x4 x5
3	0.2484	x3 x4 x5
3	0.2462	x1 x5 x6
3	0.2332	x1 x4 x6
3	0.1590	x4 x5 x6
4	0.6396	x1 x2 x3 x5
4	0.6329	x1 x2 x3 x4
4	0.6291	x1 x2 x3 x6
4	0.6285	x2 x3 x4 x6
4	0.6176	x2 x3 x5 x6
4	0.6028	x1 x2 x4 x5
4	0.5997	x2 x3 x4 x5
4	0.5747	x1 x2 x4 x6
4	0.5622	x1 x2 x5 x6
4	0.5164	x2 x4 x5 x6
4	0.5035	x1 x3 x4 x5
4	0.4708	x1 x3 x4 x6
4	0.4649	x1 x3 x5 x6
4	0.3871	x3 x4 x5 x6
4	0.2550	x1 x4 x5 x6
5	0.6685	x1 x2 x3 x4 x5
5	0.6501	x1 x2 x3 x4 x6
5	0.6396	x1 x2 x3 x5 x6
5	0.6290	x2 x3 x4 x5 x6
5	0.6040	x1 x2 x4 x5 x6
5	0.5043	x1 x3 x4 x5 x6
6	0.6695	x1 x2 x3 x4 x5 x6

The REG Procedure
Model: MODEL1
Dependent Variable: y



The REG Procedure
Model: MODEL1
Dependent Variable: y