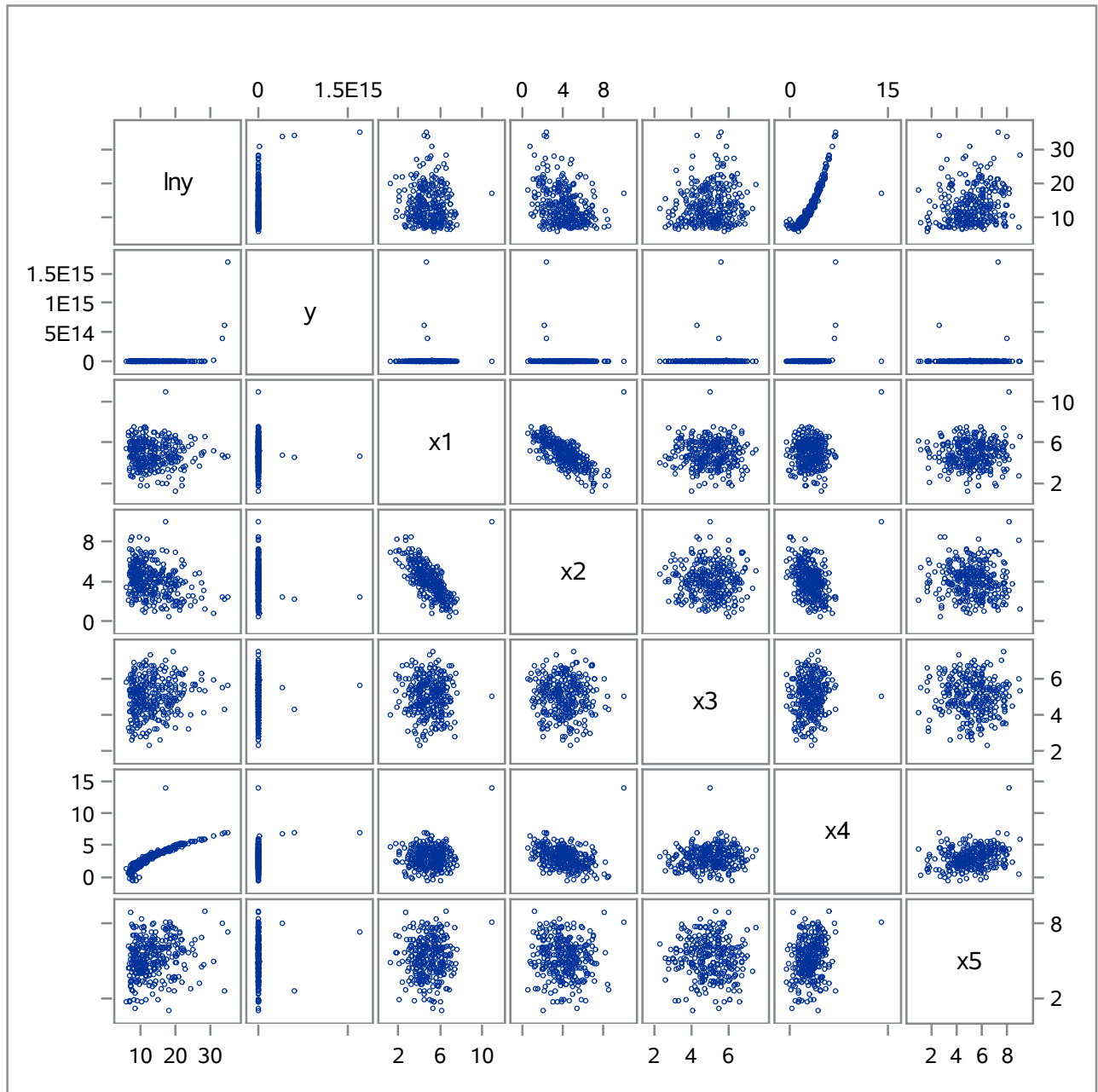


<b>Obs</b>	<b>id</b>	<b>x1</b>	<b>x2</b>	<b>x3</b>	<b>x4</b>	<b>x5</b>	<b>y</b>	<b>lny</b>
1	118	4.0	4.7	2.3	3.2	6.4	260000	12.4684
2	9	3.8	4.0	2.6	3.8	5.2	5830000	15.5785
3	286	4.6	5.4	2.6	0.9	3.5	1469	7.2923
4	162	4.4	4.0	2.8	2.3	4.9	21400	9.9711
5	185	4.4	4.2	2.8	2.0	5.1	2201	7.6967
6	276	7.4	2.0	2.8	3.2	4.3	95813	11.4702
7	218	4.4	6.0	2.9	1.6	5.9	5005	8.5182
8	216	5.1	4.7	3.0	2.8	5.1	44724	10.7083
9	251	3.6	6.7	3.0	2.8	5.2	141000	11.8565
10	240	2.9	5.4	3.1	3.2	5.0	251000	12.4332



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

**R-Square Selection Method**

Number of Observations Read	301
Number of Observations Used	301

Number in Model	R-Square	C(p)	Root MSE	SBC	Variables in Model
1	0.7664	88.4596	2.63905	593.60064	x4
1	0.1022	1184.326	5.17350	998.82374	x2
1	0.0384	1289.526	5.35405	1019.47524	x5
2	0.7829	63.2748	2.54856	577.29379	x1 x4
2	0.7696	85.1772	2.62530	595.15424	x2 x4
2	0.7676	88.4680	2.63664	597.74846	x3 x4
3	0.8204	3.4002	2.32196	525.93437	x1 x2 x4
3	0.7838	63.6551	2.54707	581.63701	x1 x3 x4
3	0.7830	65.1193	2.55229	582.87023	x1 x4 x5
4	0.8212	4.0009	2.32039	530.21704	x1 x2 x3 x4
4	0.8204	5.3862	2.32583	531.62725	x1 x2 x4 x5
4	0.7839	65.5659	2.55105	587.26879	x1 x3 x4 x5
5	0.8212	6.0000	2.32431	535.92328	x1 x2 x3 x4 x5

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

Number of Observations Read	301
Number of Observations Used	301

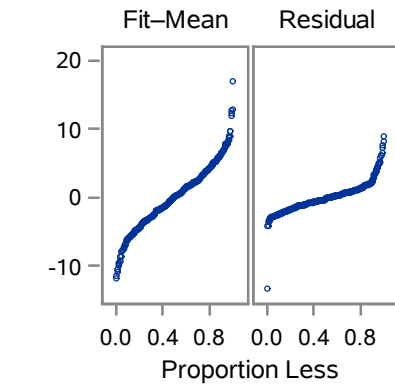
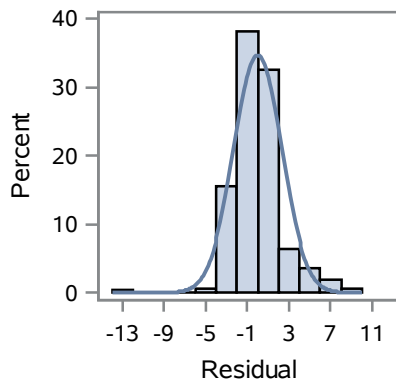
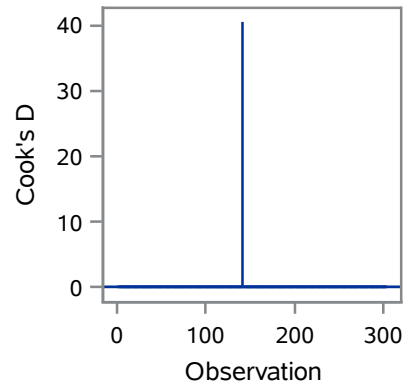
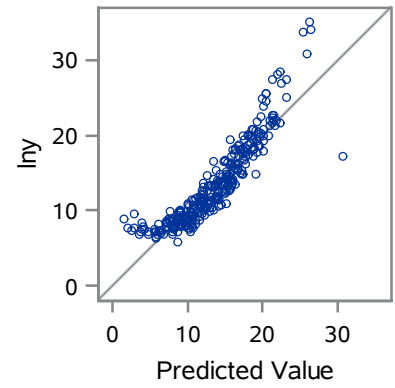
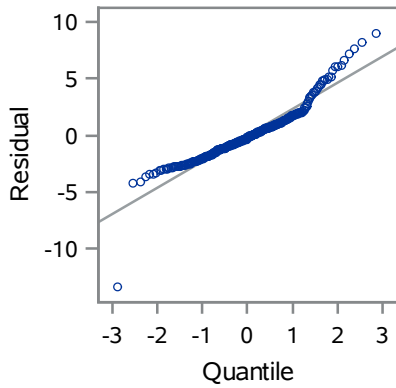
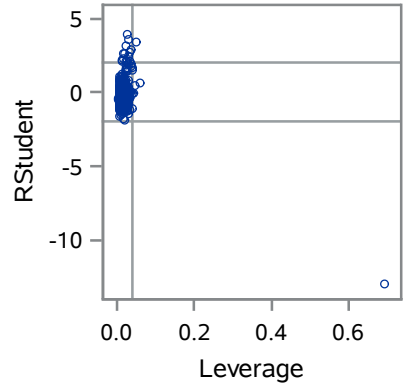
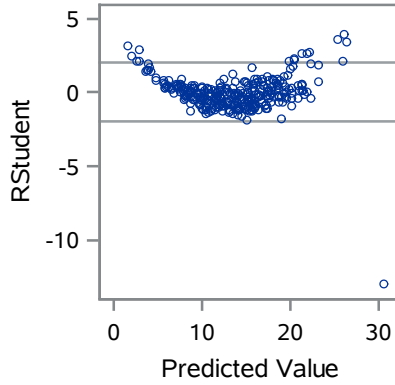
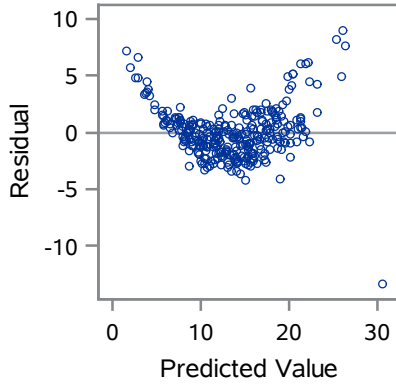
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7320.10021	1464.02004	270.99	<.0001
Error	295	1593.71537	5.40242		
Corrected Total	300	8913.81558			

Root MSE	2.32431	R-Square	0.8212
Dependent Mean	13.53361	Adj R-Sq	0.8182
Coeff Var	17.17437		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	14.37170	1.43156	10.04	<.0001	0
x1	1	-1.29655	0.14237	-9.11	<.0001	1.85158
x2	1	-0.92868	0.11836	-7.85	<.0001	2.02047
x3	1	0.15956	0.13552	1.18	0.2400	1.01770
x4	1	2.78542	0.09242	30.14	<.0001	1.21093
x5	1	-0.00266	0.09107	-0.03	0.9767	1.06902

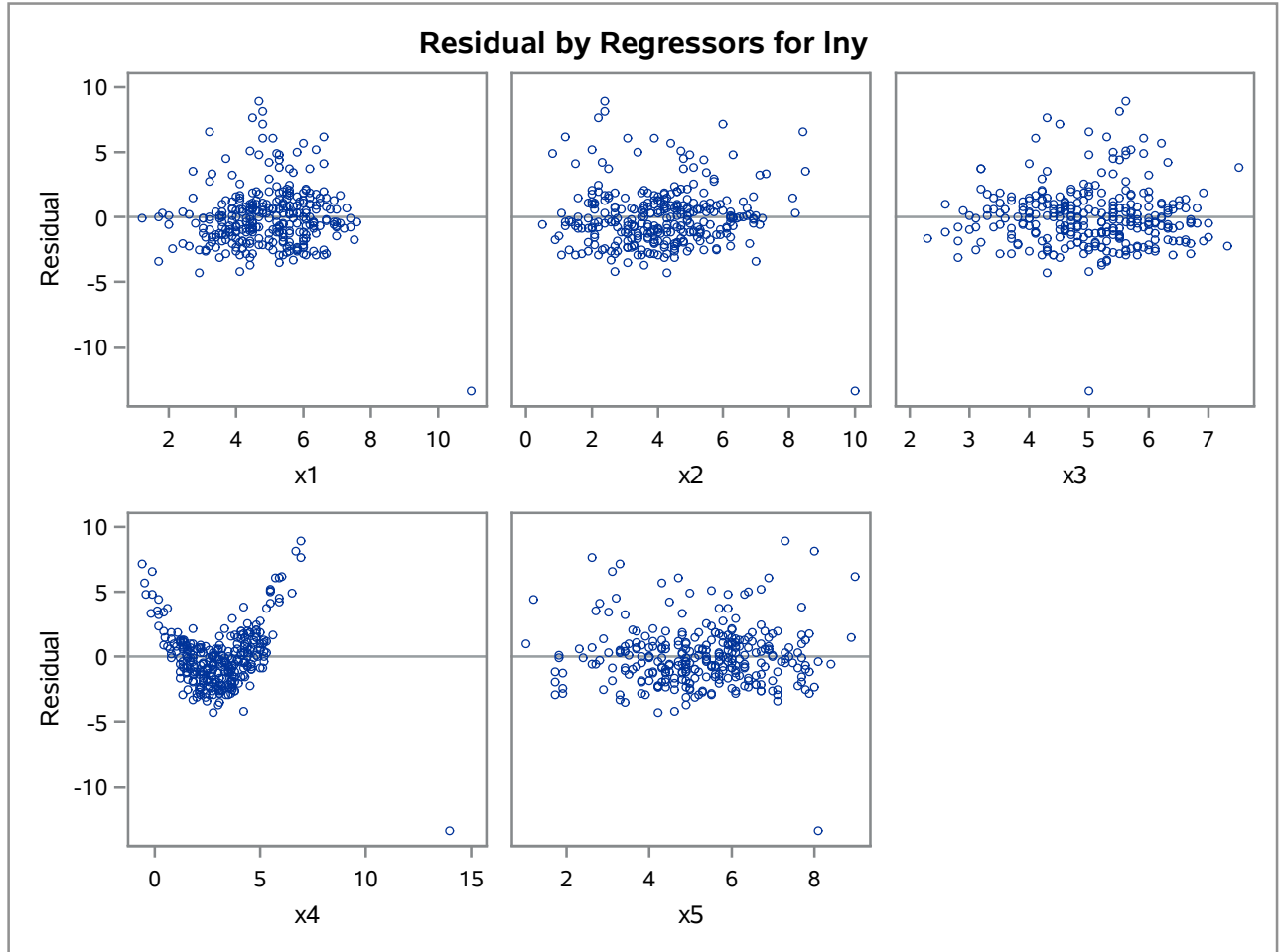
The REG Procedure  
 Model: MODEL1  
 Dependent Variable: lny

Fit Diagnostics for lny



Observations	301
Parameters	6
Error DF	295
MSE	5.4024
R-Square	0.8212
Adj R-Square	0.8182

The REG Procedure  
Model: MODEL1  
Dependent Variable: lny



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

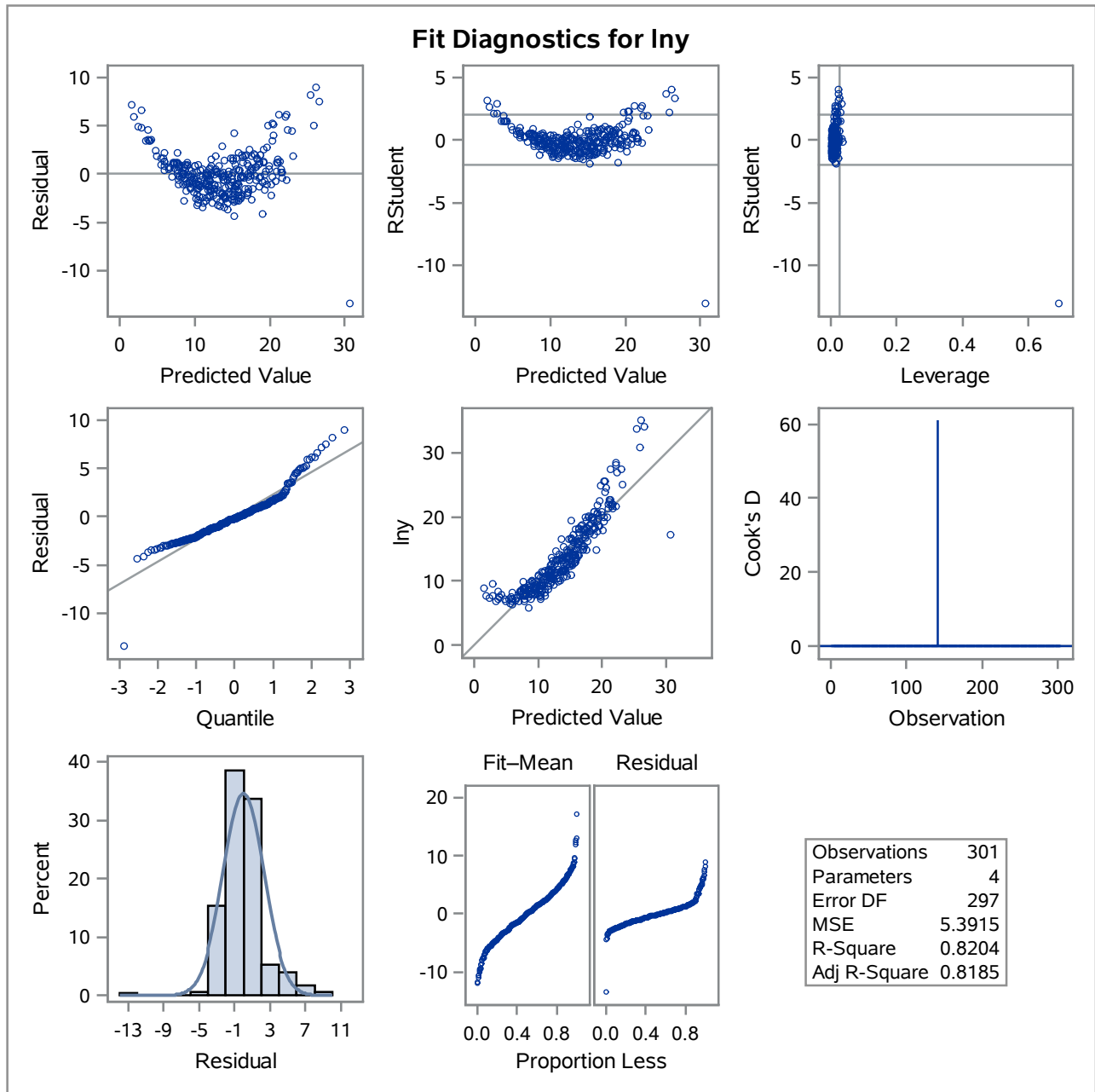
Number of Observations Read	301
Number of Observations Used	301

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	7312.53566	2437.51189	452.10	<.0001
Error	297	1601.27992	5.39151		
Corrected Total	300	8913.81558			

Root MSE	2.32196	R-Square	0.8204
Dependent Mean	13.53361	Adj R-Sq	0.8185
Coeff Var	17.15702		

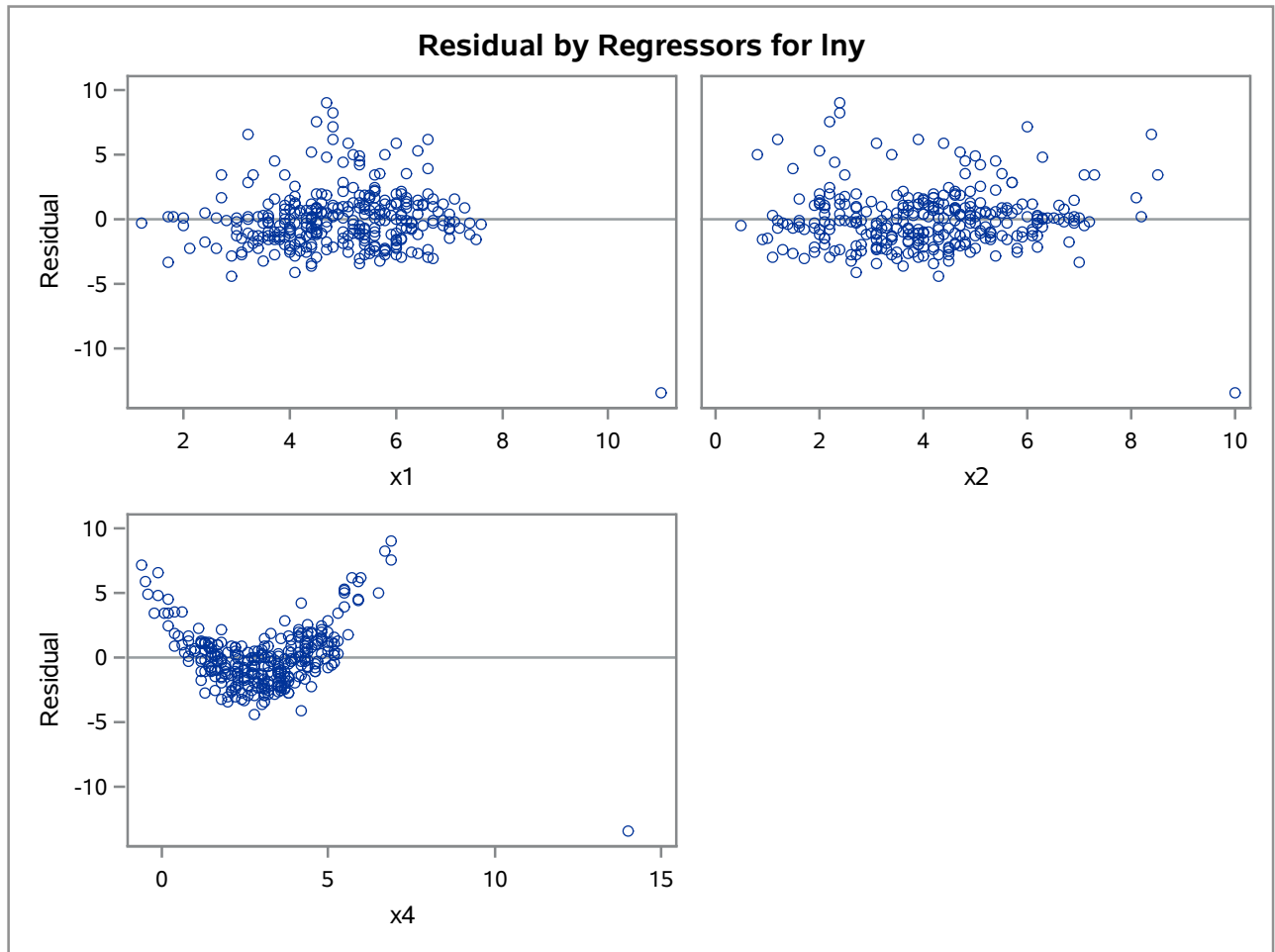
Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	15.15912	1.19108	12.73	<.0001	0
x1	1	-1.30134	0.14203	-9.16	<.0001	1.84657
x2	1	-0.93040	0.11816	-7.87	<.0001	2.01783
x4	1	2.79506	0.08920	31.33	<.0001	1.13018

The REG Procedure  
Model: MODEL1  
Dependent Variable: lny

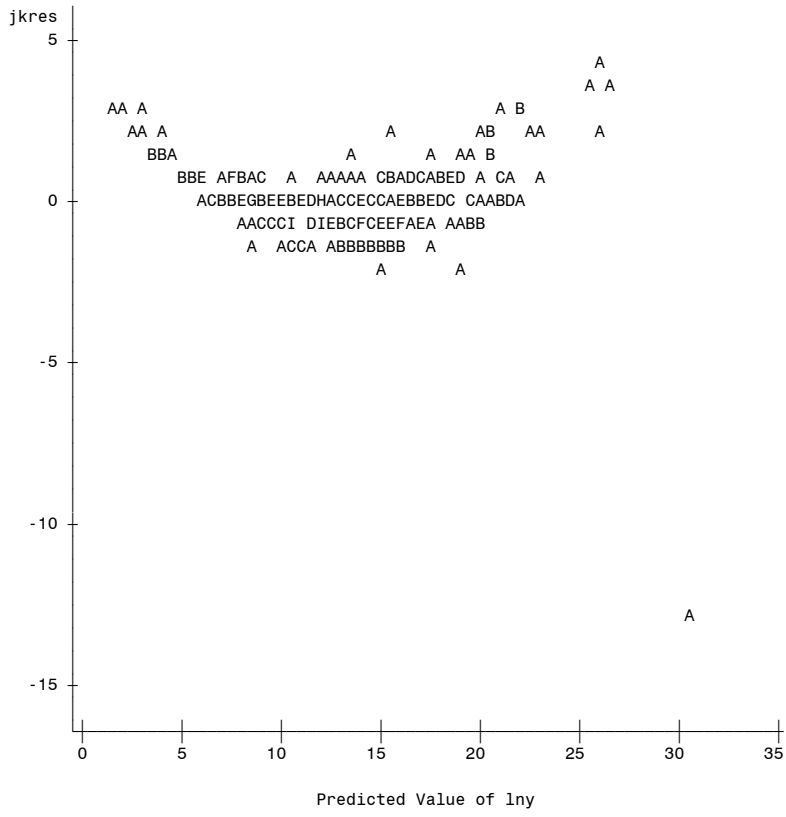




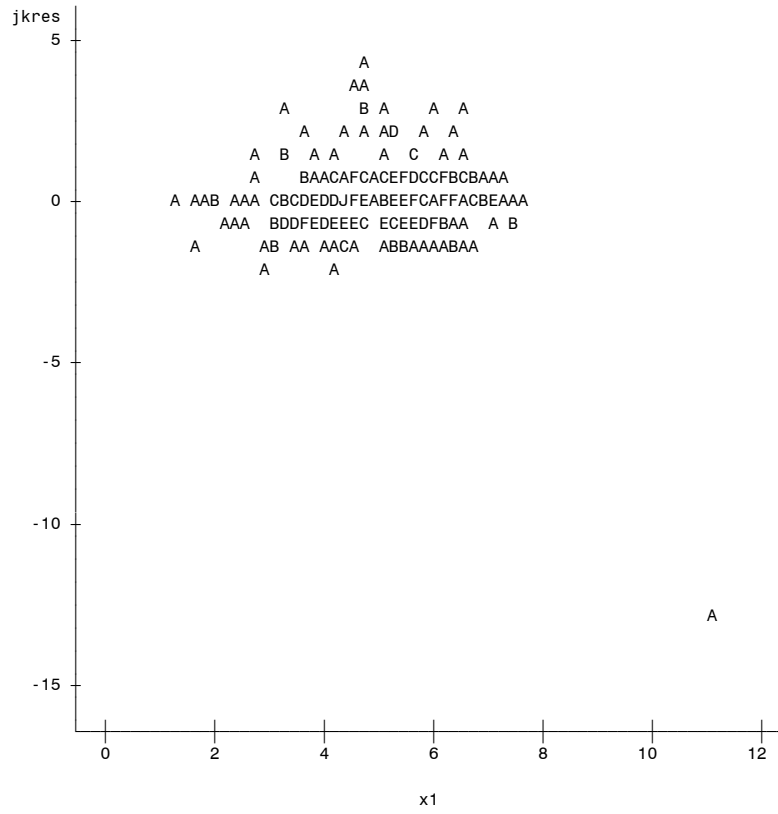
The REG Procedure  
Model: MODEL1  
Dependent Variable: lny



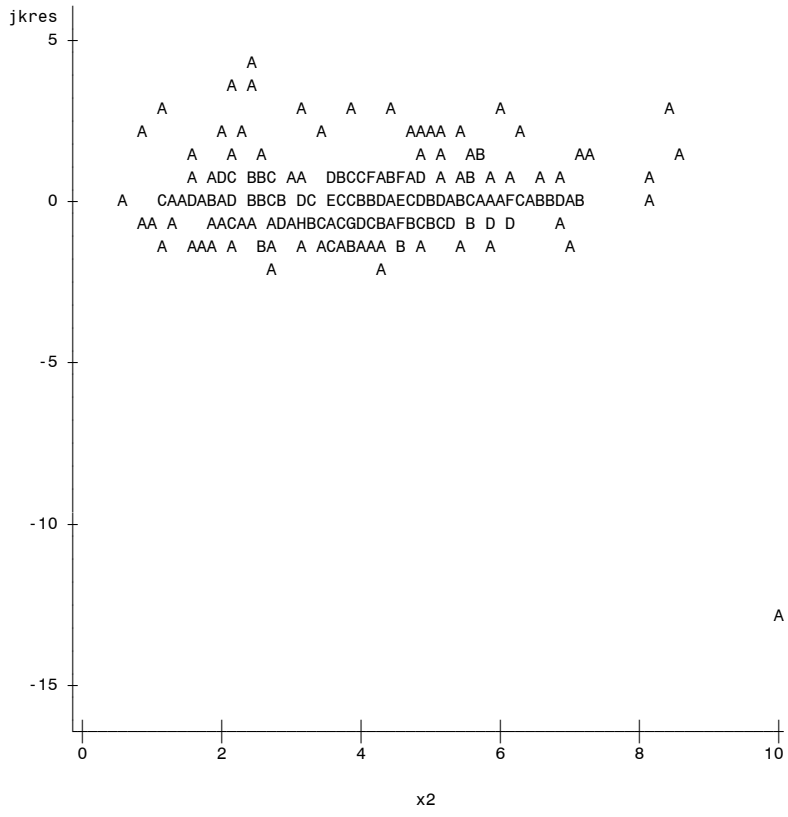
Plot of jkres\*pred. Legend: A = 1 obs, B = 2 obs, etc.



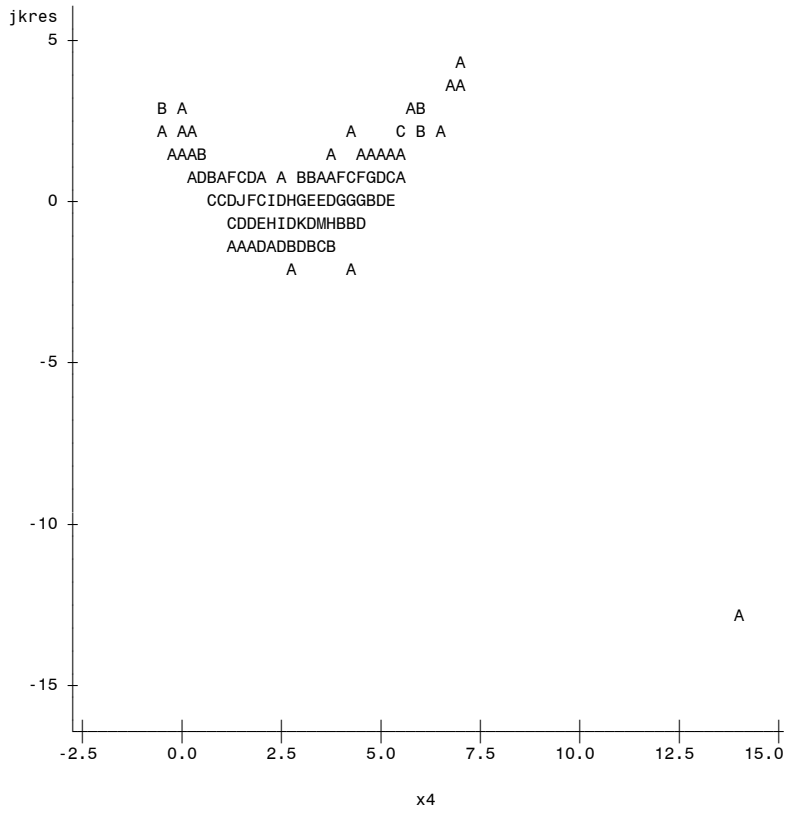
Plot of jkres\*x1. Legend: A = 1 obs, B = 2 obs, etc.



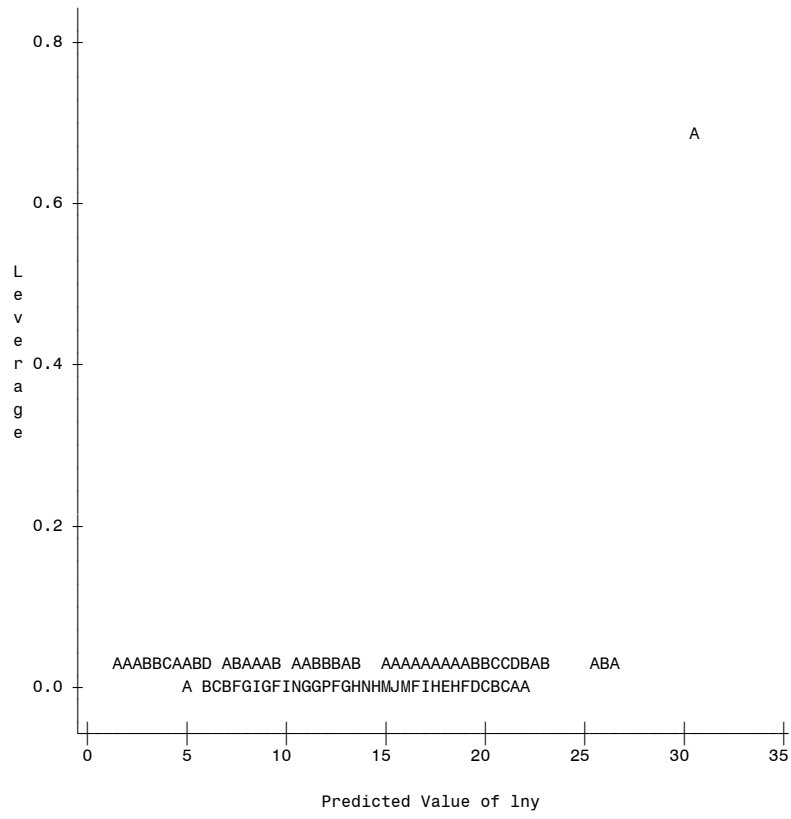
Plot of jkres\*x2. Legend: A = 1 obs, B = 2 obs, etc.

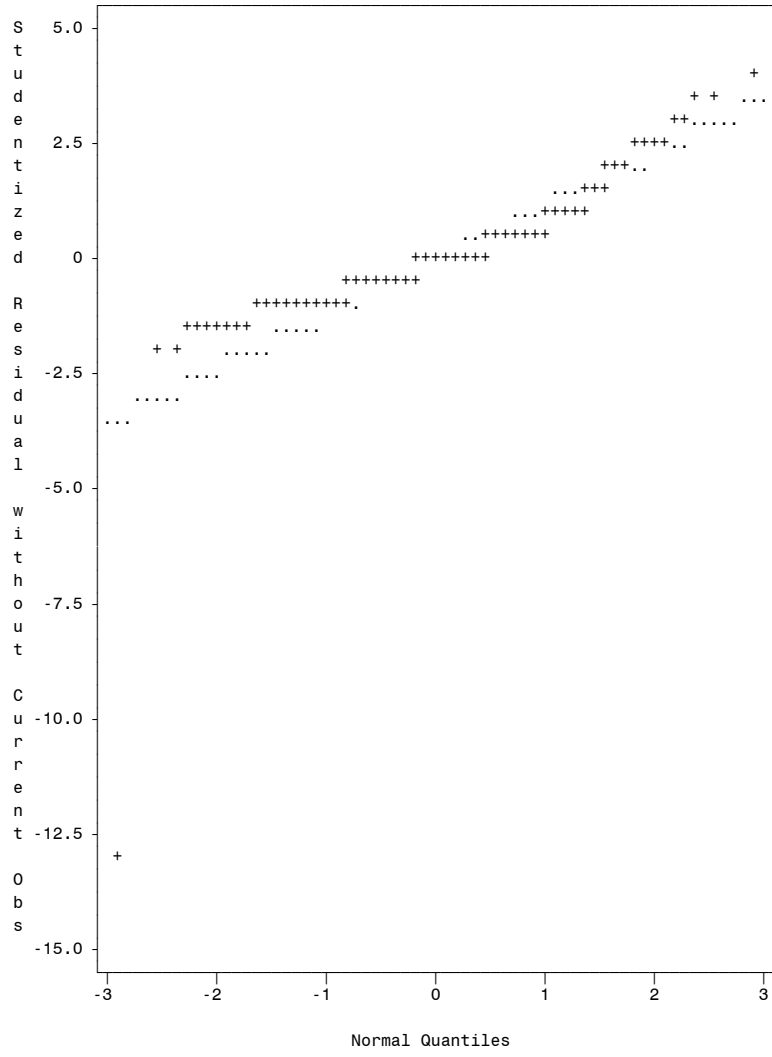


Plot of jkres\*x4. Legend: A = 1 obs, B = 2 obs, etc.



Plot of  $\hat{y}$ \*pred. Legend: A = 1 obs, B = 2 obs, etc.





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

**R-Square Selection Method**

Number of Observations Read	300
Number of Observations Used	300

Number in Model	R-Square	C(p)	Root MSE	SBC	Variables in Model
1	0.8781	19.5657	1.90824	397.10938	x4
1	0.1128	2000.228	5.14749	992.50632	x2
1	0.0373	2195.713	5.36212	1017.01703	x5
2	0.8839	6.5271	1.86535	388.16449	x2 x4
2	0.8799	16.8569	1.89713	398.30294	x1 x4
2	0.8784	20.6032	1.90853	401.89680	x3 x4
3	0.8861	2.9214	1.85099	388.21961	x1 x2 x4
3	0.8842	7.7744	1.86615	393.11598	x2 x3 x4
3	0.8840	8.3395	1.86791	393.68093	x2 x4 x5
4	0.8863	4.2505	1.85201	393.24011	x1 x2 x3 x4
4	0.8862	4.6054	1.85313	393.60169	x1 x2 x4 x5
4	0.8842	9.6388	1.86889	398.68397	x2 x3 x4 x5
5	0.8864	6.0000	1.85437	398.68840	x1 x2 x3 x4 x5



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

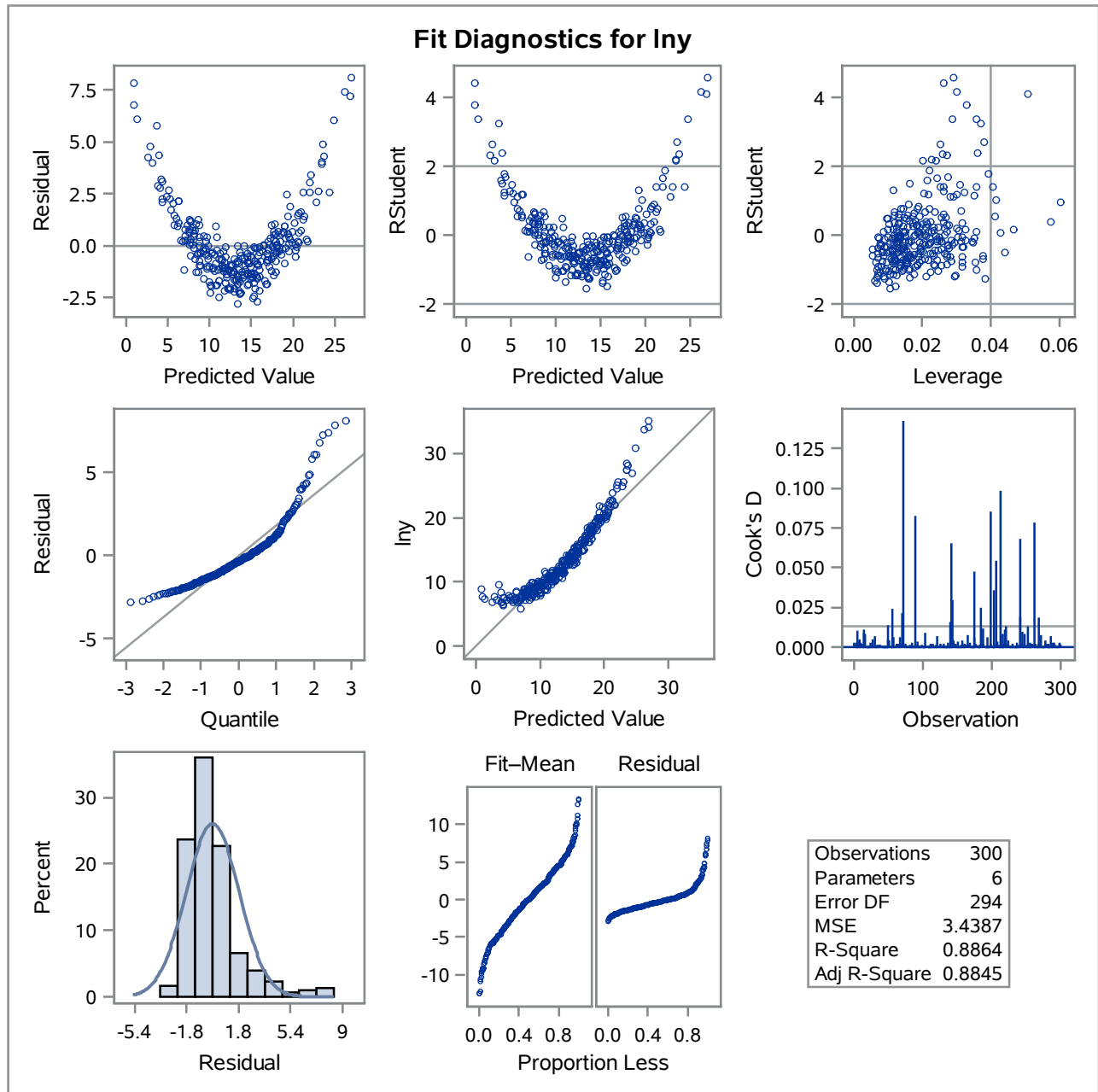
Number of Observations Read	300
Number of Observations Used	300

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7889.23248	1577.84650	458.85	<.0001
Error	294	1010.97265	3.43868		
Corrected Total	299	8900.20513			

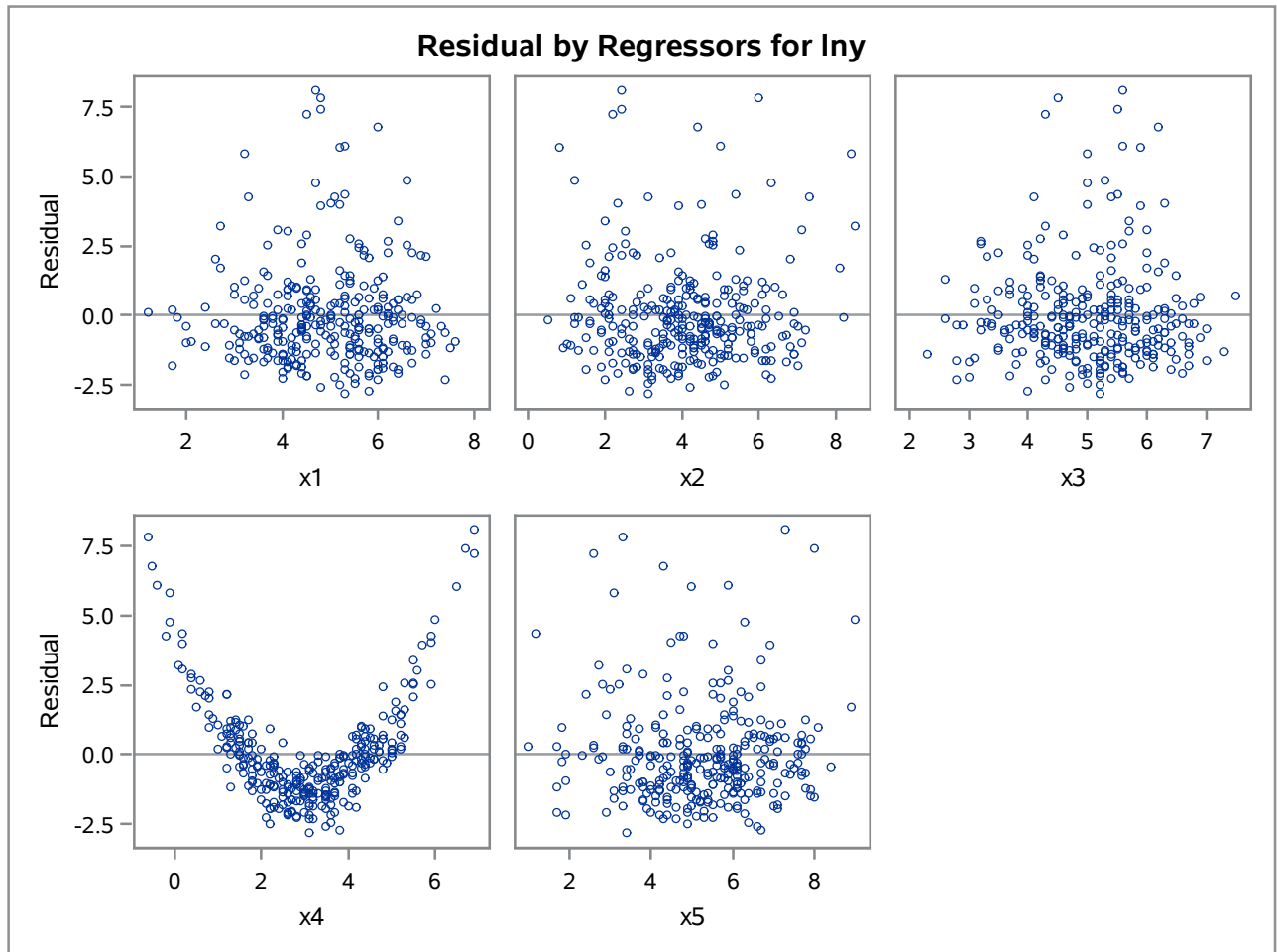
Root MSE	1.85437	R-Square	0.8864
Dependent Mean	13.52133	Adj R-Sq	0.8845
Coeff Var	13.71439		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	-2.60169	1.73333	-1.50	0.1344	0
x1	1	0.41219	0.17358	2.37	0.0182	3.99998
x2	1	0.60025	0.15070	3.98	<.0001	4.91428
x3	1	0.08424	0.10828	0.78	0.4372	1.02062
x4	1	3.76531	0.10537	35.73	<.0001	2.08590
x5	1	-0.03638	0.07270	-0.50	0.6171	1.05787

The REG Procedure  
 Model: MODEL1  
 Dependent Variable: lny



The REG Procedure  
Model: MODEL1  
Dependent Variable: lny



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

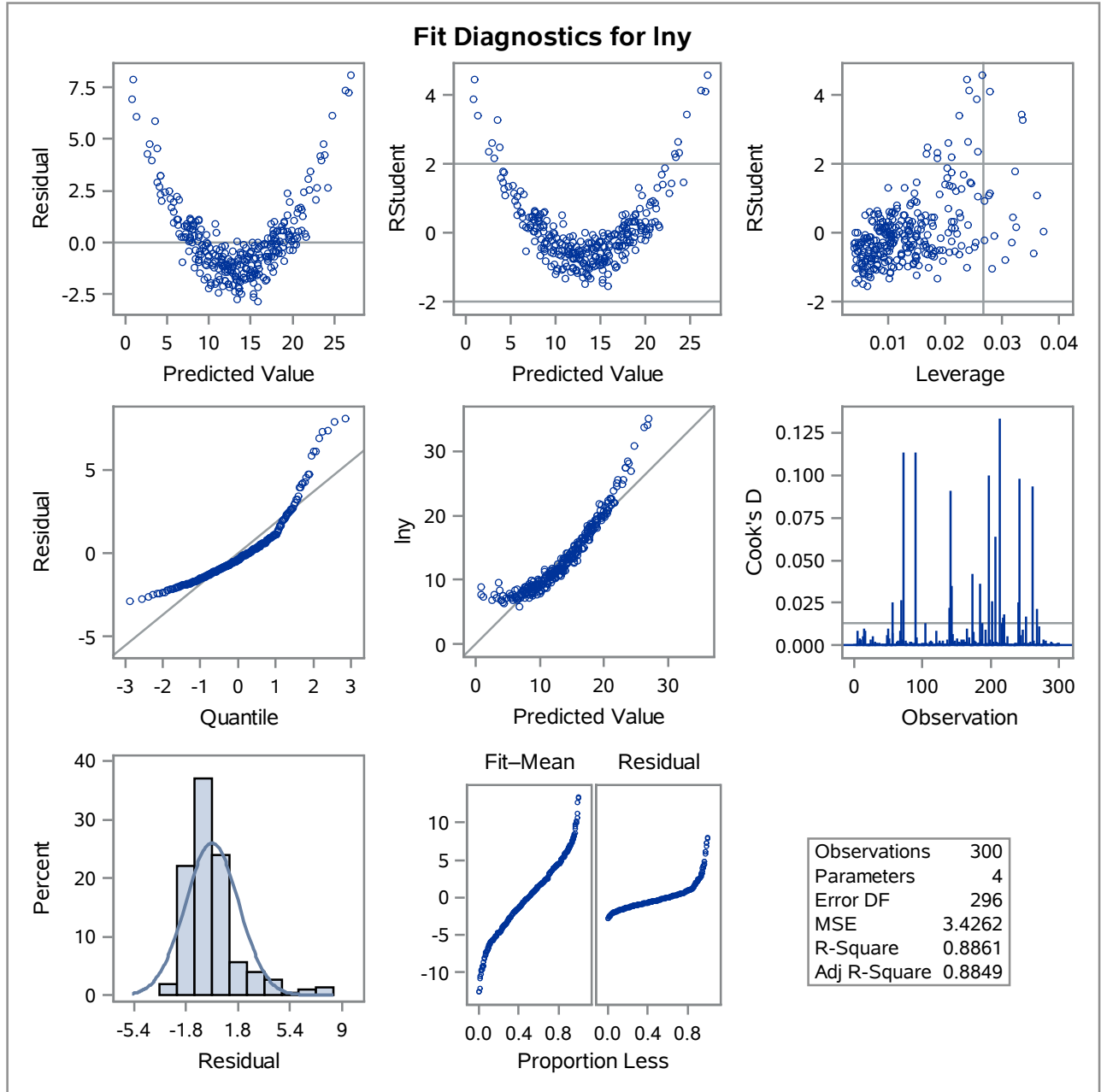
Number of Observations Read	300
Number of Observations Used	300

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	7886.06395	2628.68798	767.24	<.0001
Error	296	1014.14119	3.42615		
Corrected Total	299	8900.20513			

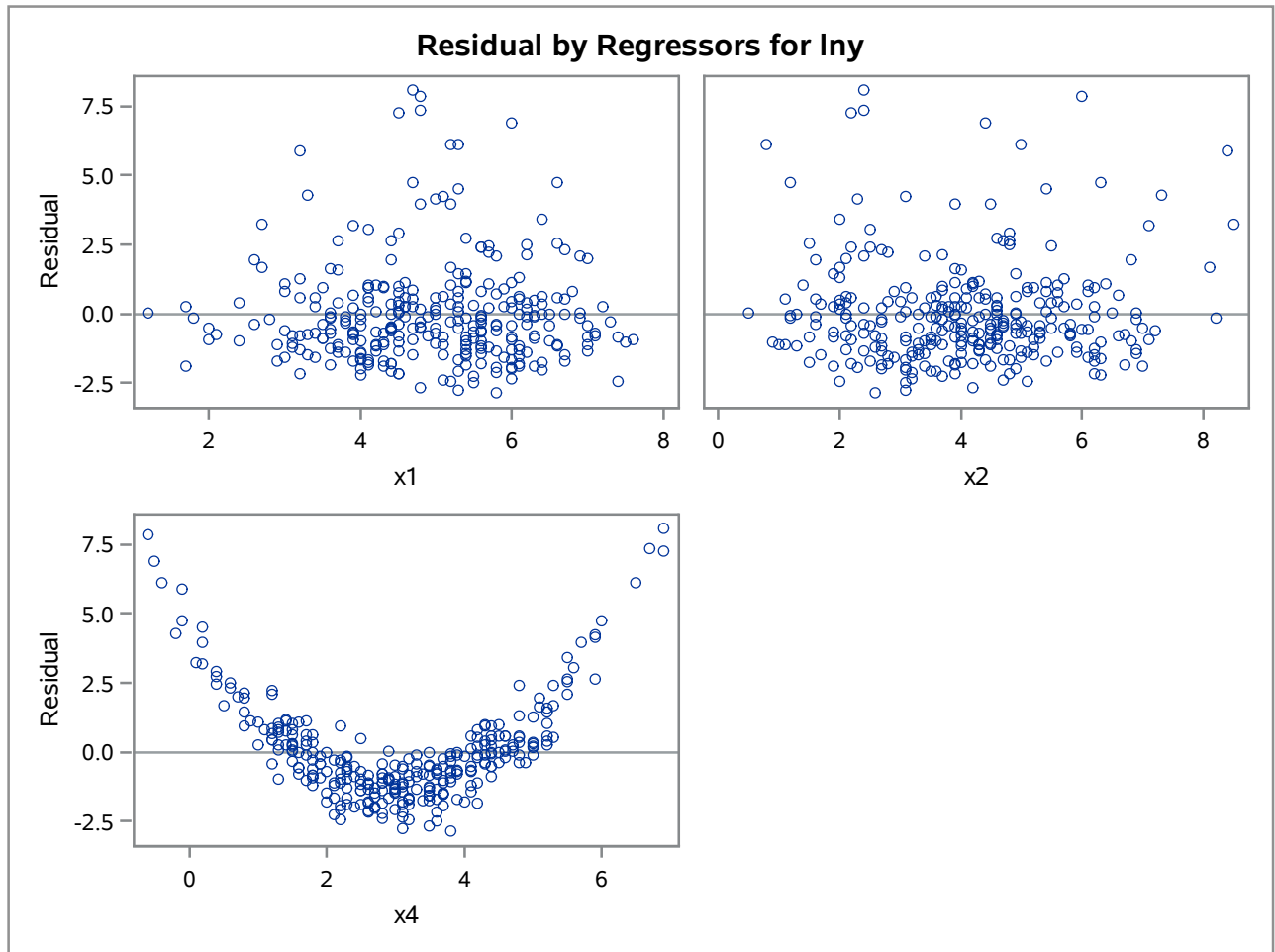
Root MSE	1.85099	R-Square	0.8861
Dependent Mean	13.52133	Adj R-Sq	0.8849
Coeff Var	13.68938		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	-2.35713	1.64071	-1.44	0.1519	0
x1	1	0.41025	0.17296	2.37	0.0183	3.98580
x2	1	0.60054	0.15016	4.00	<.0001	4.89718
x4	1	3.76389	0.10263	36.67	<.0001	1.98608

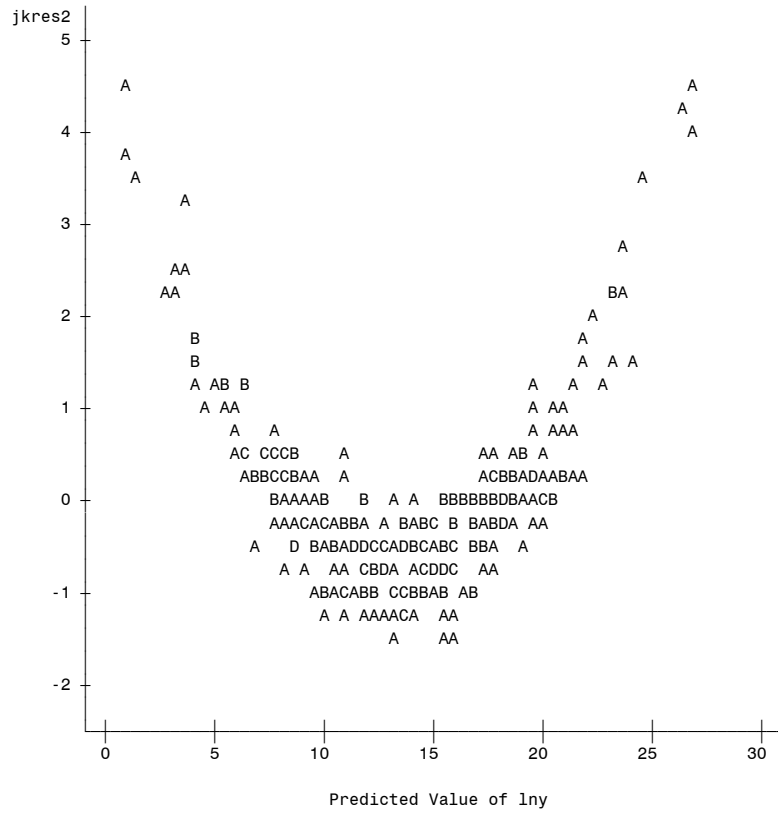
The REG Procedure  
Model: MODEL1  
Dependent Variable: lny



The REG Procedure  
Model: MODEL1  
Dependent Variable: lny



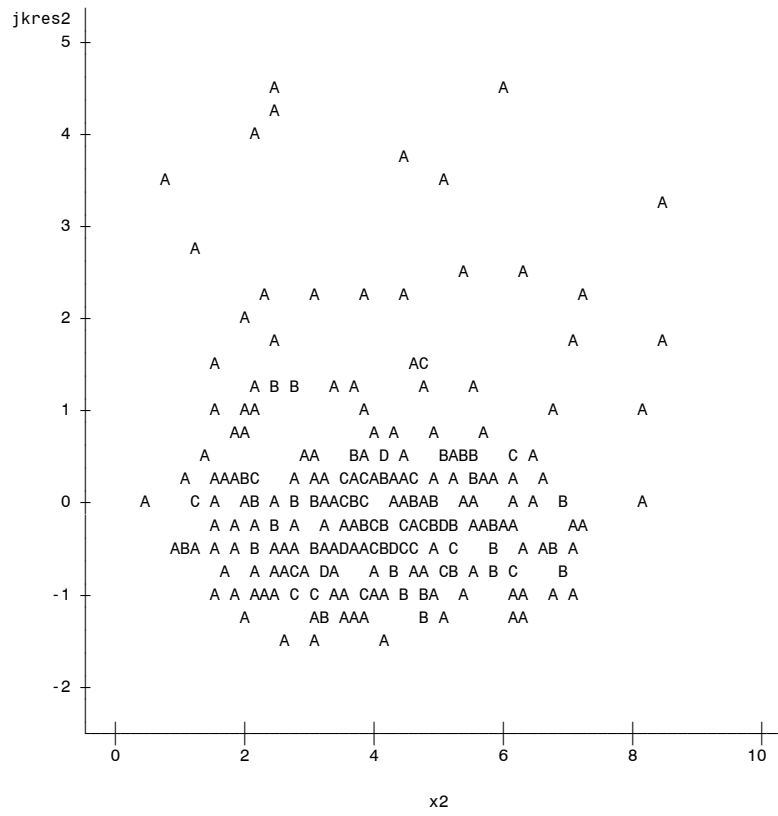
Plot of jkres2\*pred2. Legend: A = 1 obs, B = 2 obs, etc.



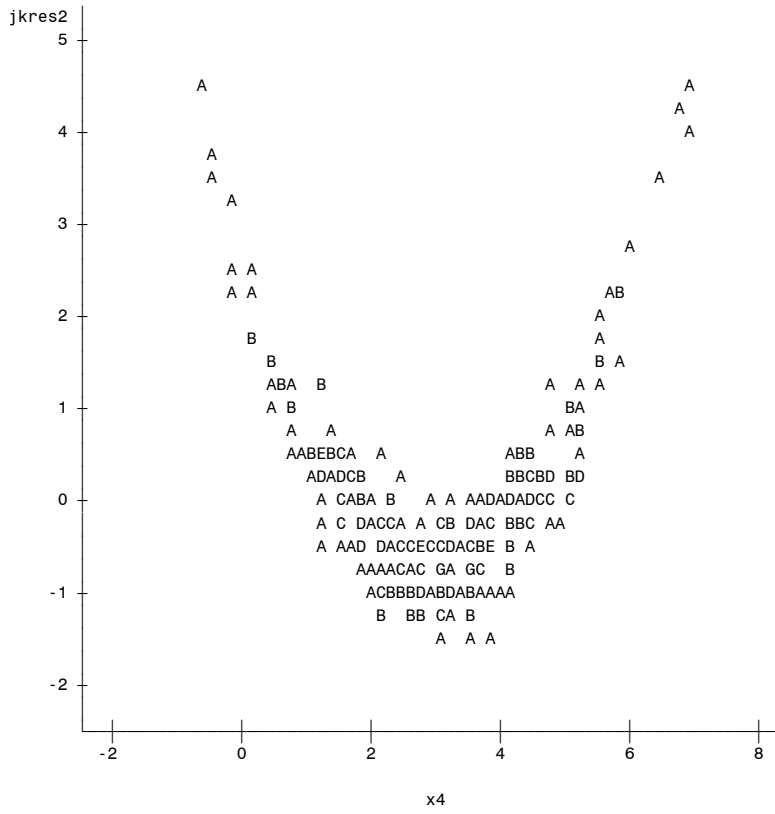




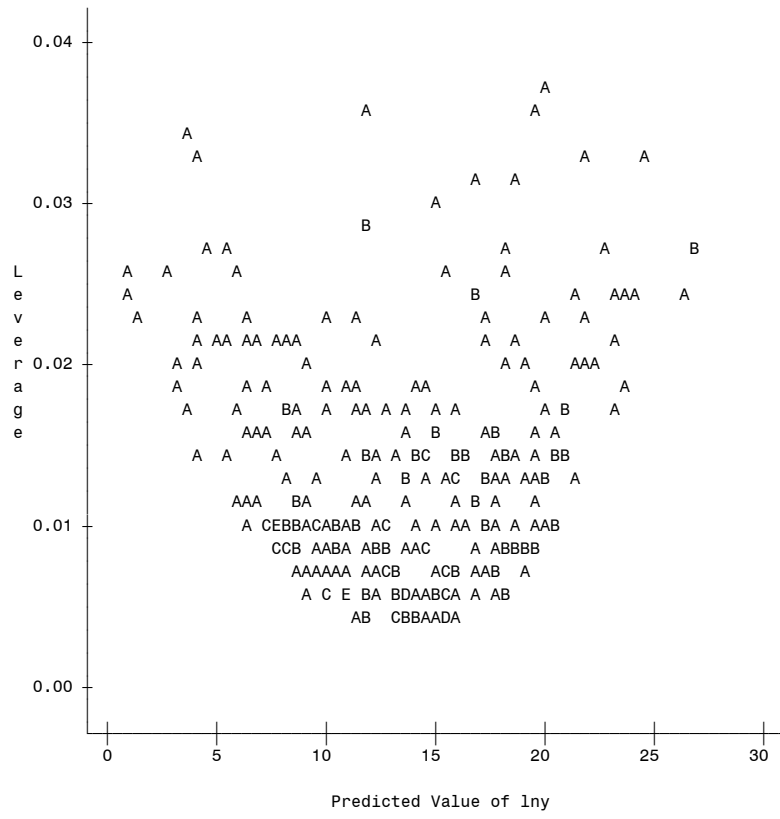
Plot of jkres2\*x2. Legend: A = 1 obs, B = 2 obs, etc.

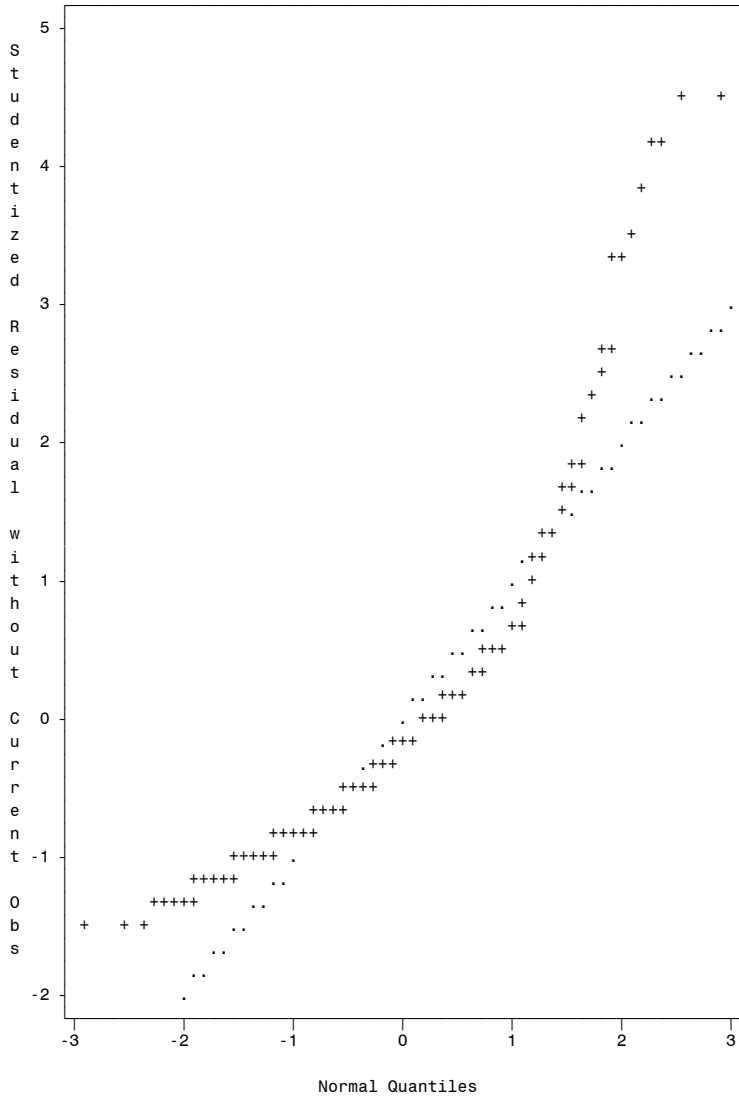


Plot of jkres2\*x4. Legend: A = 1 obs, B = 2 obs, etc.



Plot of  $\hat{y}^2 \cdot \text{pred}^2$ . Legend: A = 1 obs, B = 2 obs, etc.





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

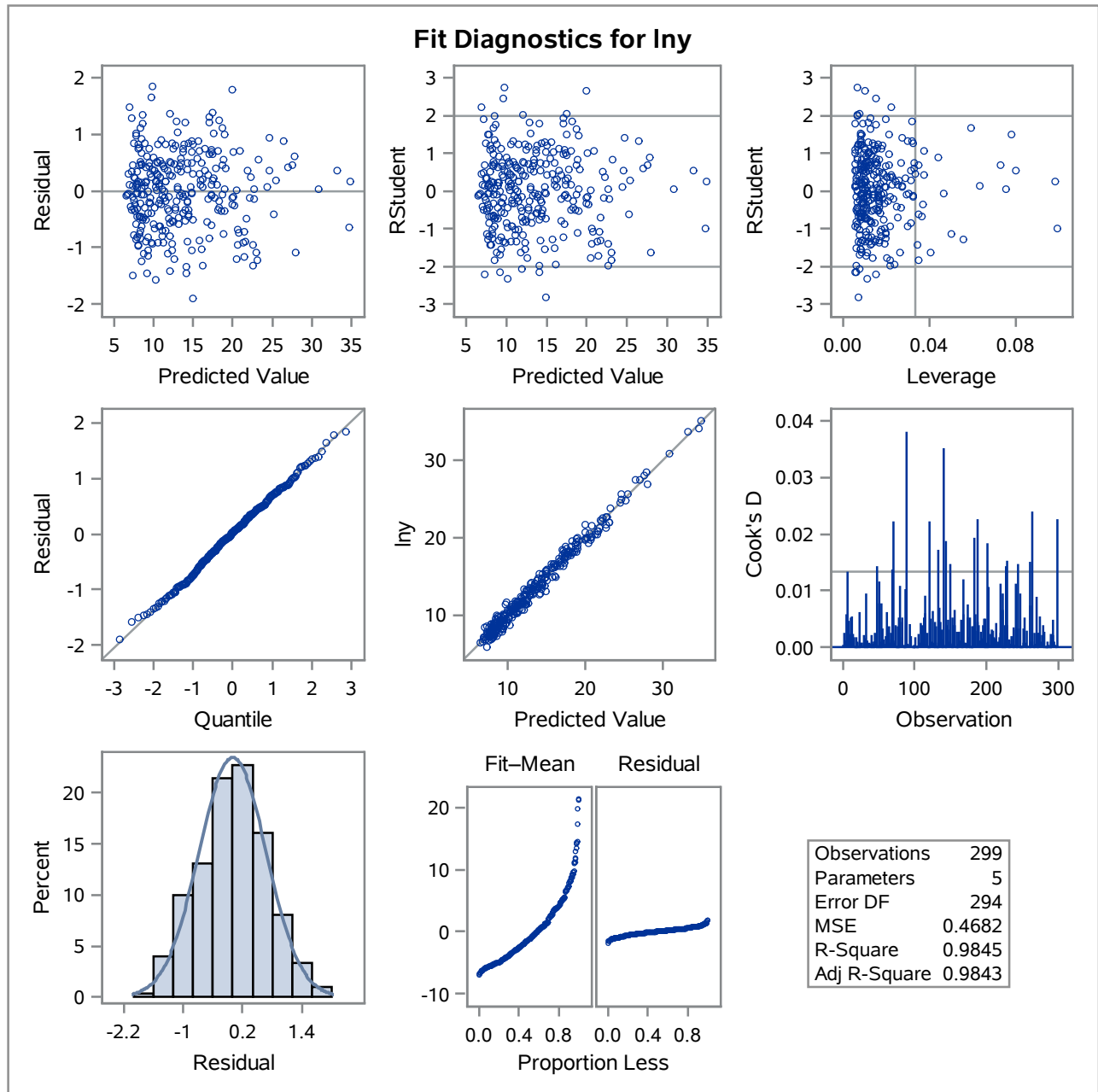
Number of Observations Read	299
Number of Observations Used	299

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8721.74411	2180.43603	4657.52	<.0001
Error	294	137.63739	0.46815		
Corrected Total	298	8859.38150			

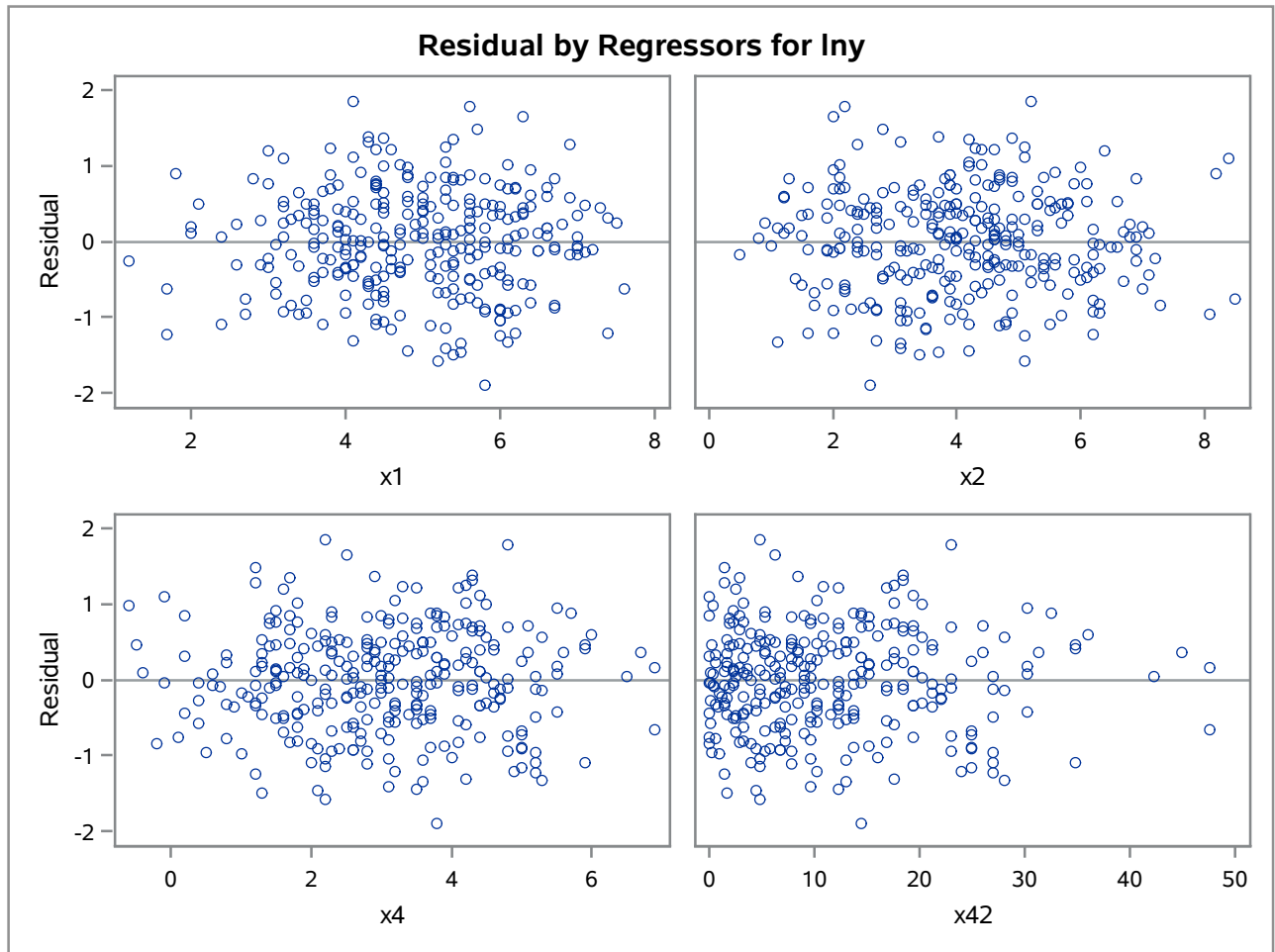
Root MSE	0.68422	R-Square	0.9845
Dependent Mean	13.50000	Adj R-Sq	0.9843
Coeff Var	5.06828		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	1.67222	0.61417	2.72	0.0069	0
x1	1	0.45760	0.06404	7.15	<.0001	3.97968
x2	1	0.62447	0.05552	11.25	<.0001	4.87198
x4	1	0.00149	0.09488	0.02	0.9875	12.36194
x42	1	0.62130	0.01436	43.27	<.0001	11.44578

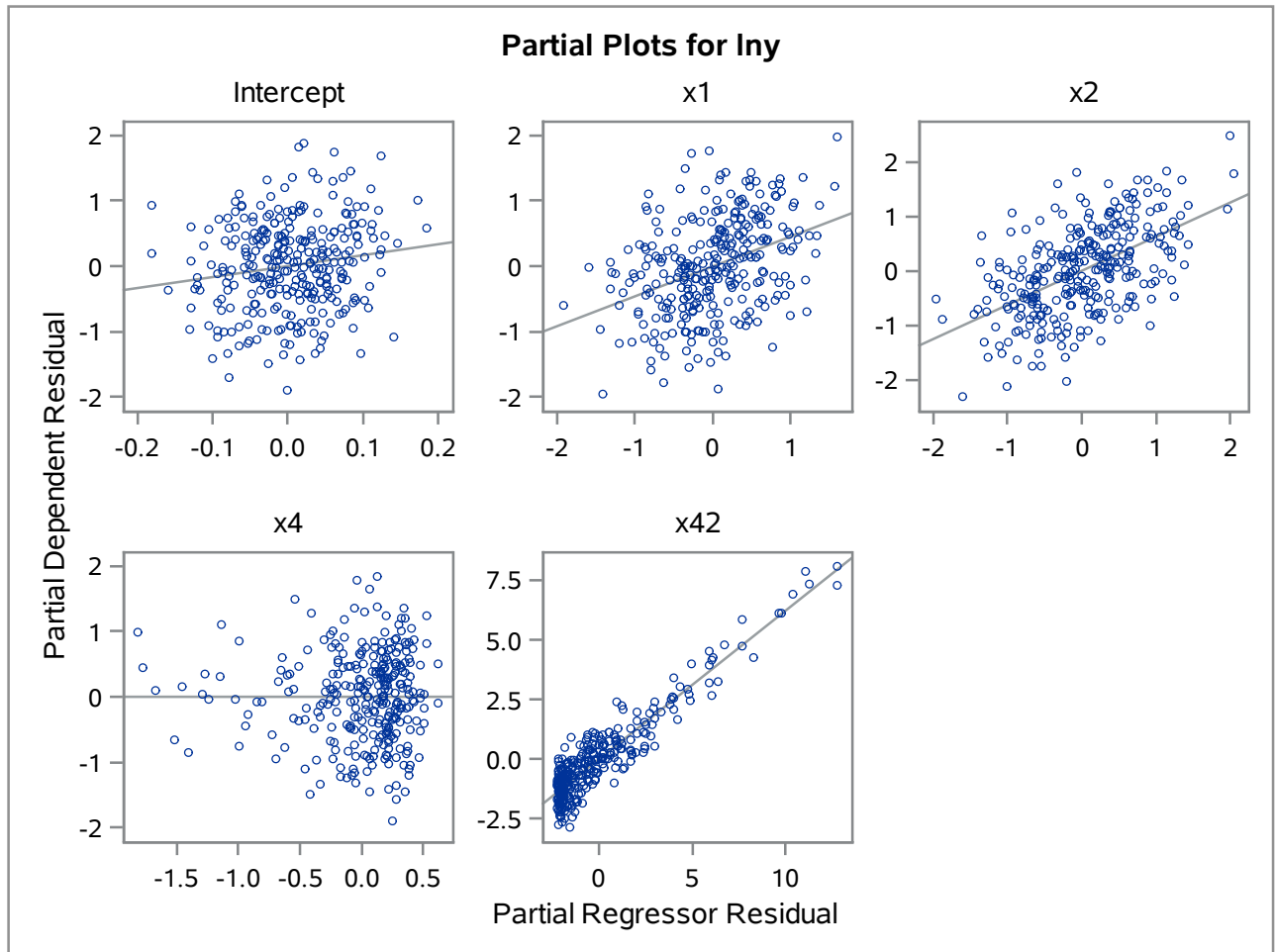
The REG Procedure  
 Model: MODEL1  
 Dependent Variable: lny



The REG Procedure  
Model: MODEL1  
Dependent Variable: lny

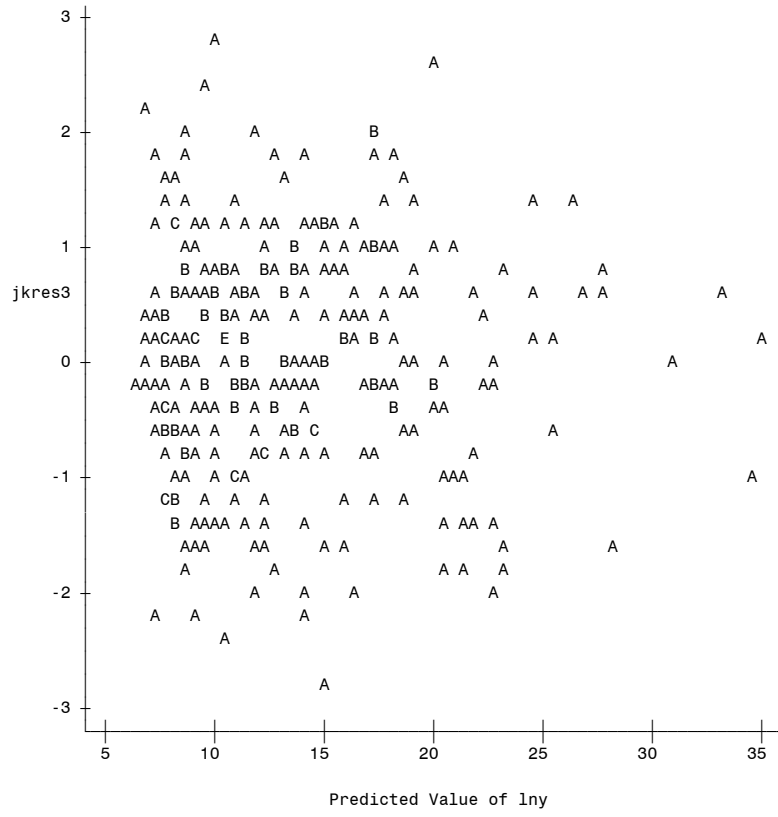


The REG Procedure  
Model: MODEL1  
Partial Regression Residual Plot





Plot of jkres3\*pred3. Legend: A = 1 obs, B = 2 obs, etc.

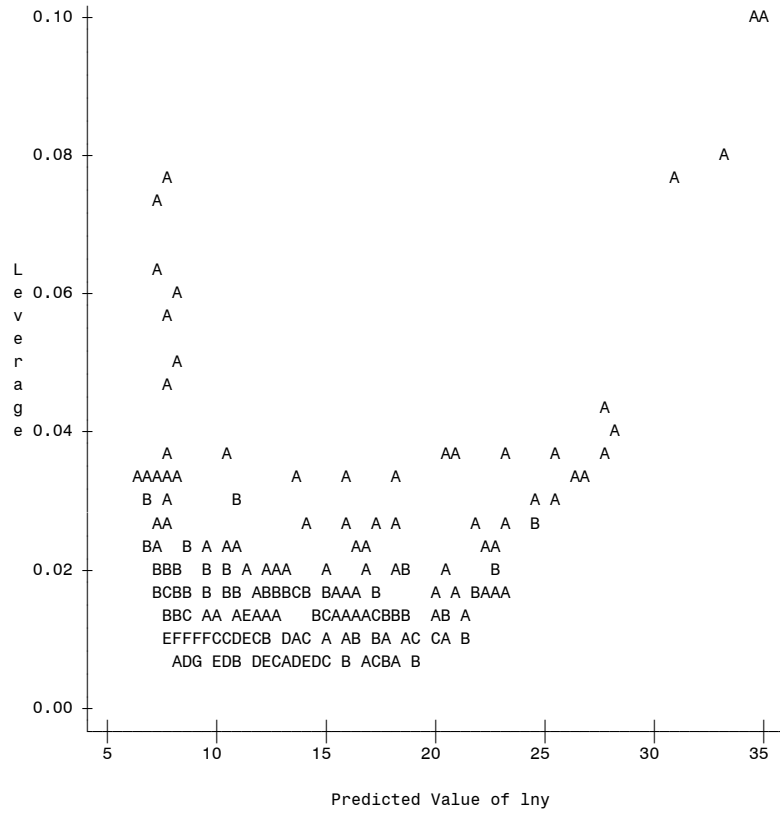


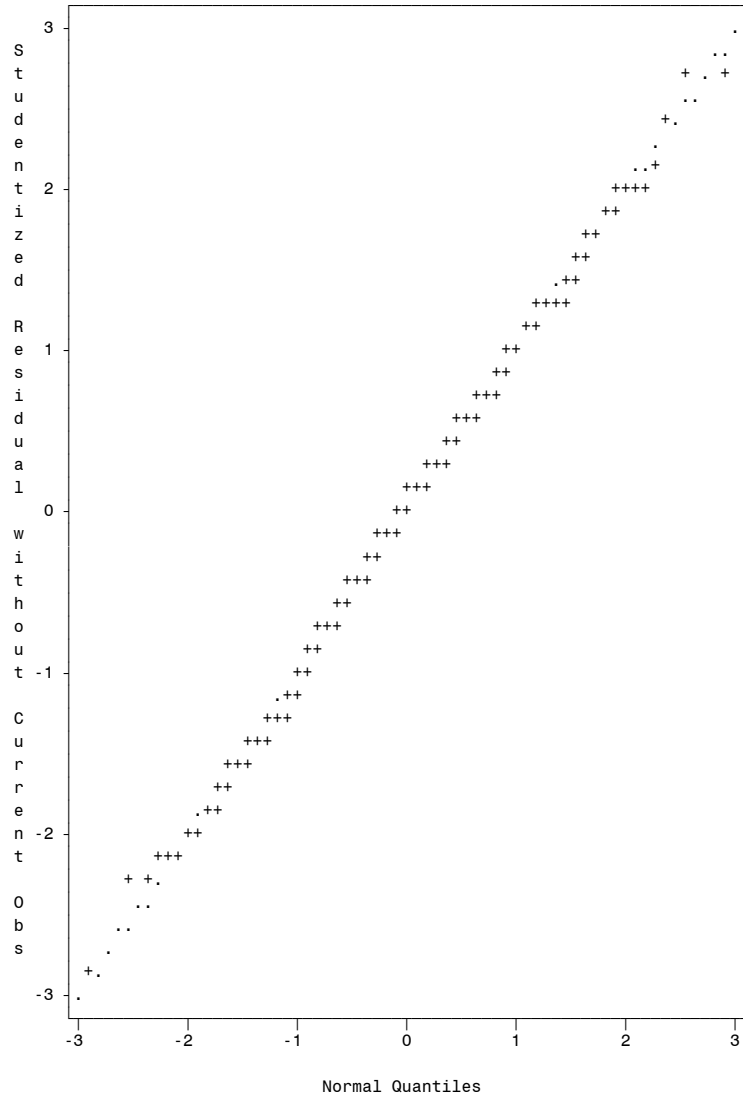






Plot of  $\hat{y}_3 \cdot \text{pred}_3$ . Legend: A = 1 obs, B = 2 obs, etc.





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

Number of Observations Read	299
Number of Observations Used	299

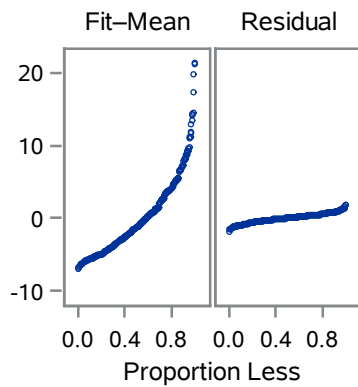
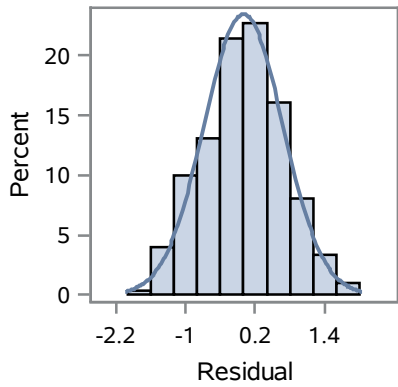
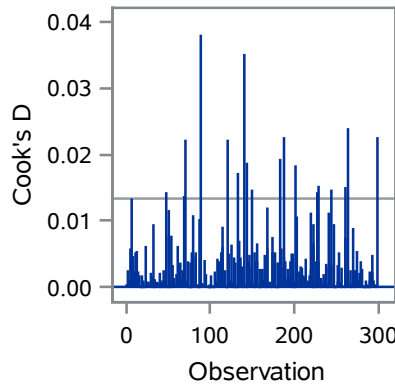
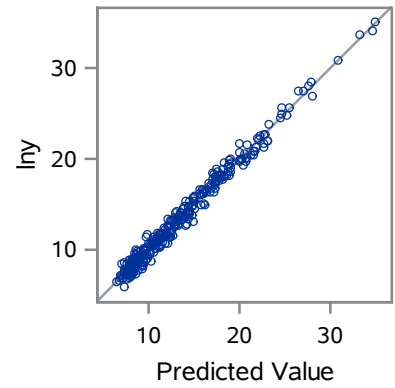
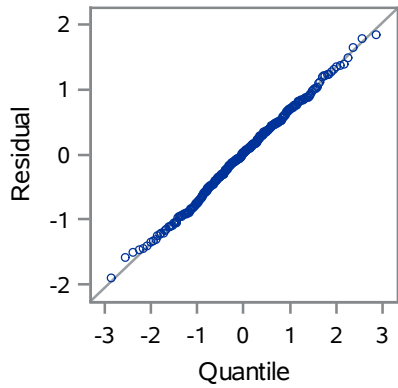
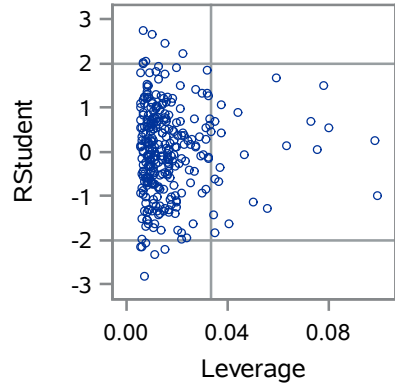
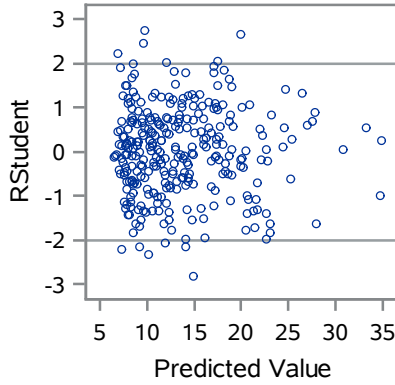
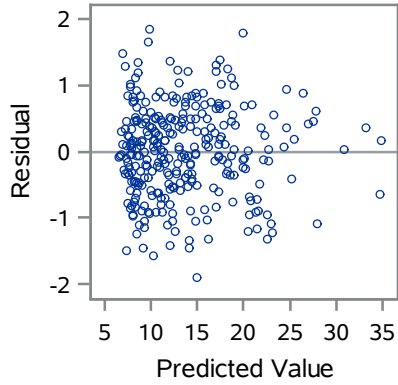
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8721.74411	2180.43603	4657.52	<.0001
Error	294	137.63739	0.46815		
Corrected Total	298	8859.38150			

Root MSE	0.68422	R-Square	0.9845
Dependent Mean	13.50000	Adj R-Sq	0.9843
Coeff Var	5.06828		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	7.38083	0.52480	14.06	<.0001	0
x1	1	0.45760	0.06404	7.15	<.0001	3.97968
x2	1	0.62447	0.05552	11.25	<.0001	4.87198
x4c	1	3.76656	0.03802	99.06	<.0001	1.98521
x4c2	1	0.62130	0.01436	43.27	<.0001	1.00047

The REG Procedure  
 Model: MODEL1  
 Dependent Variable: lny

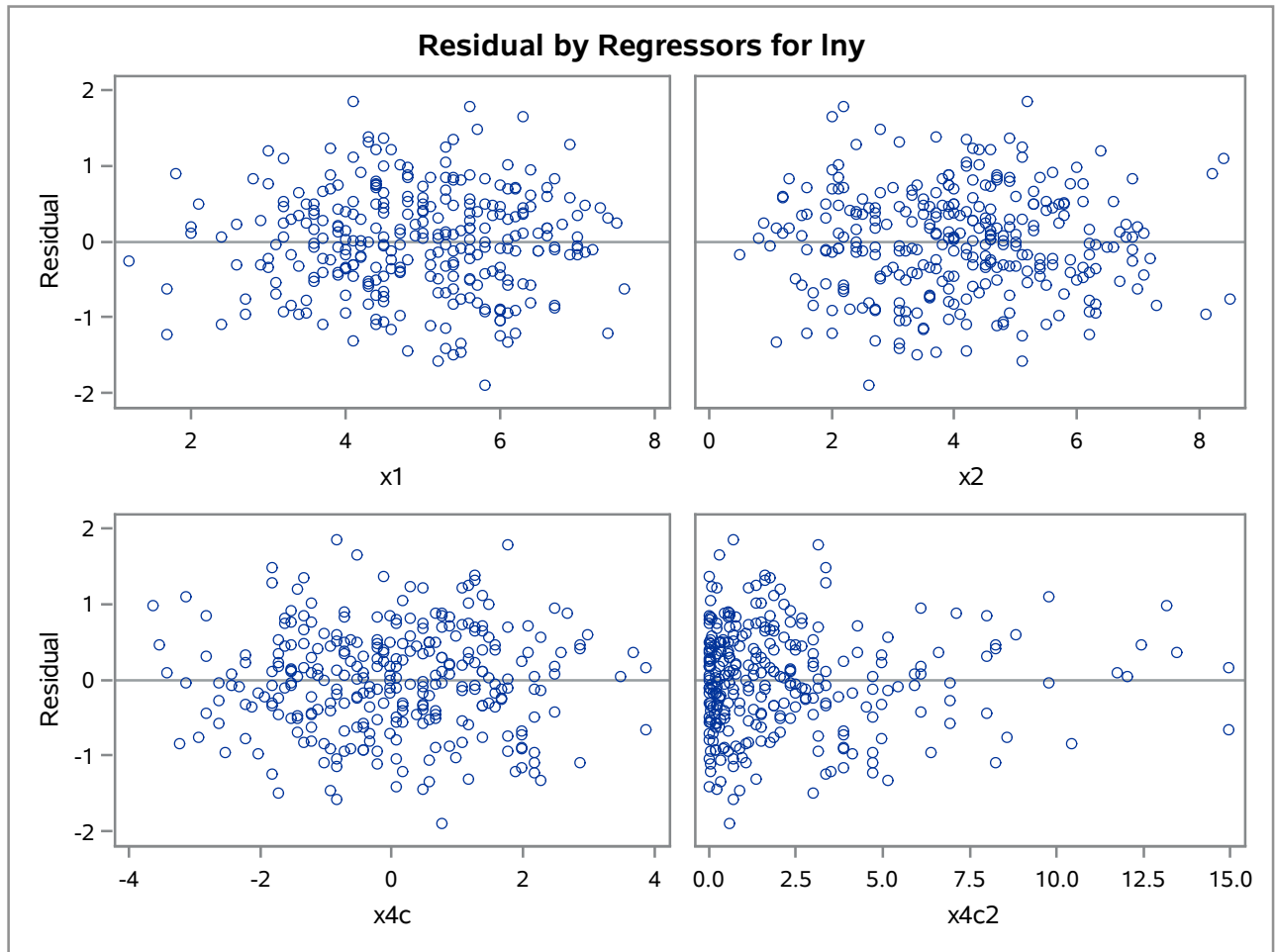
Fit Diagnostics for lny



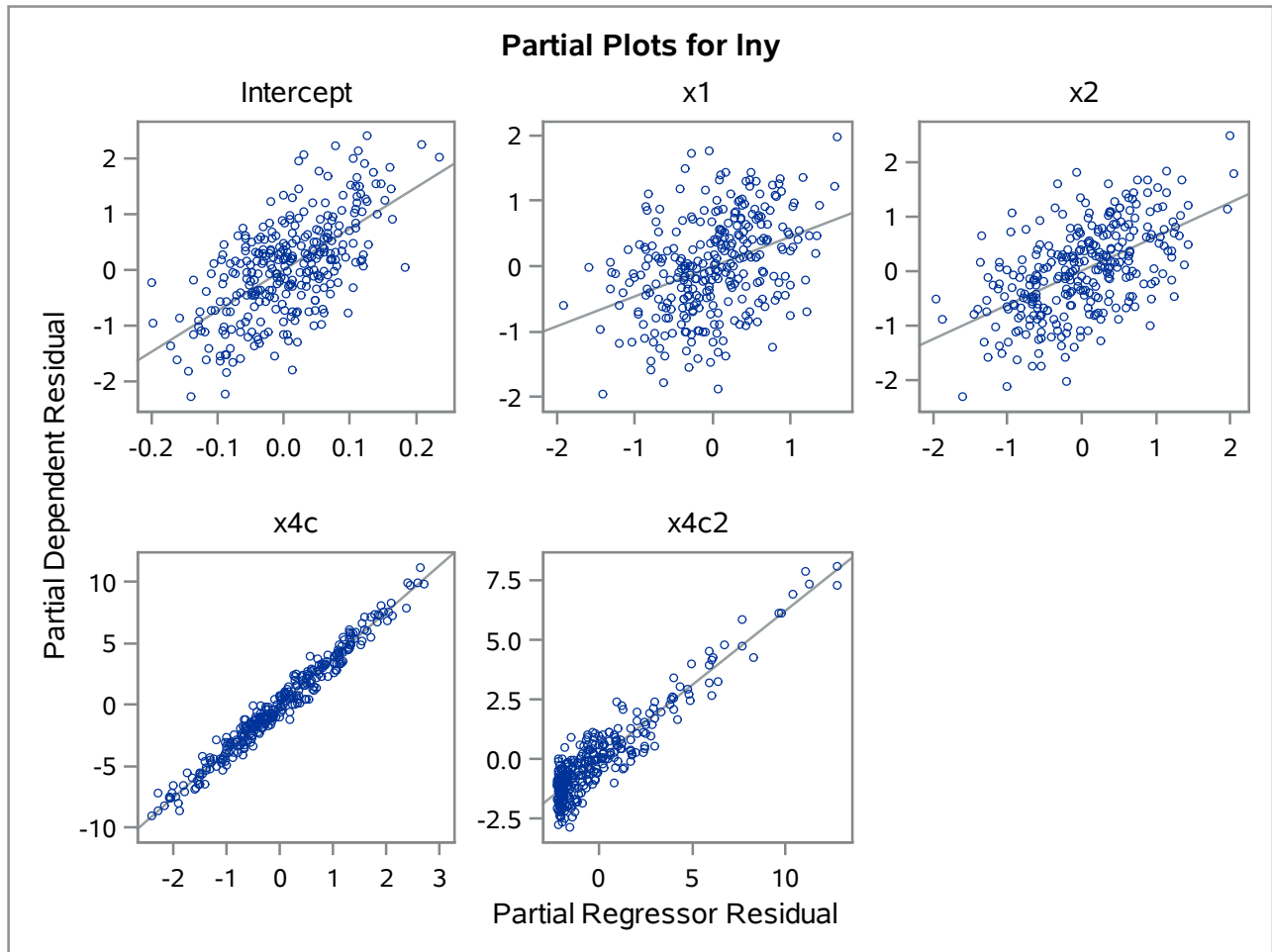
Observations	299
Parameters	5
Error DF	294
MSE	0.4682
R-Square	0.9845
Adj R-Square	0.9843



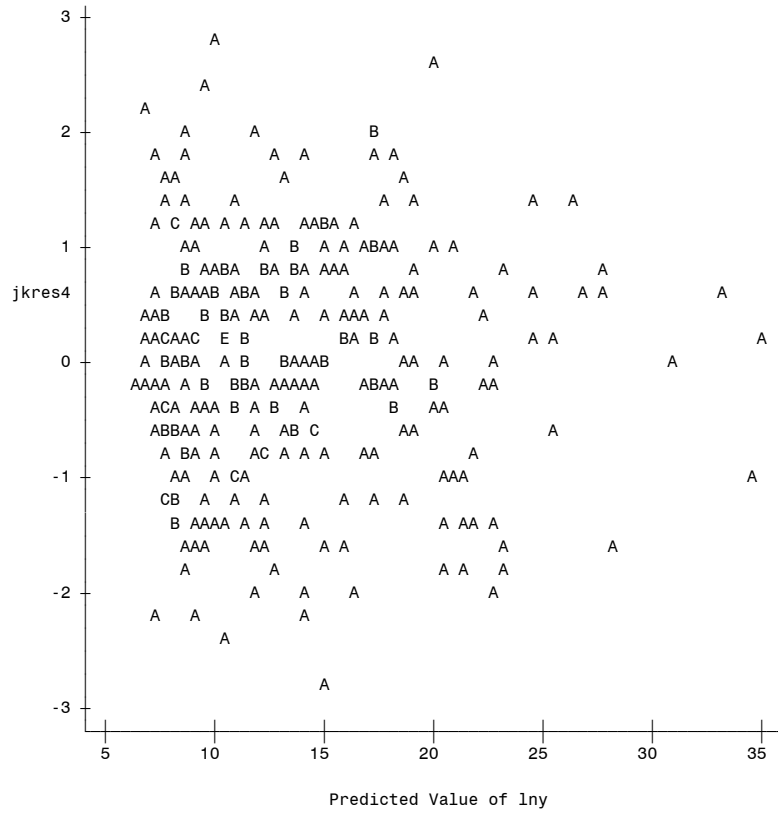
The REG Procedure  
Model: MODEL1  
Dependent Variable: lny



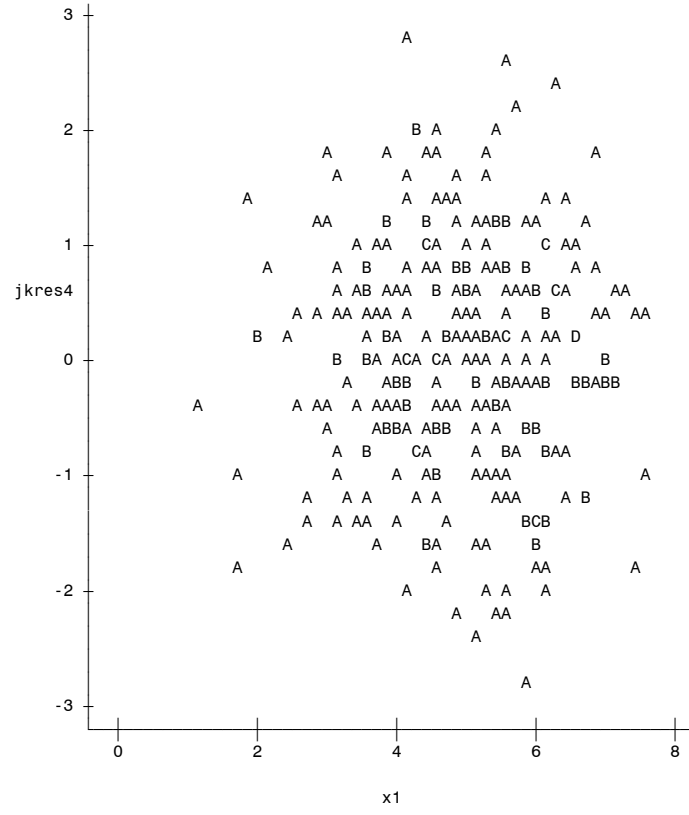
The REG Procedure  
Model: MODEL1  
Partial Regression Residual Plot



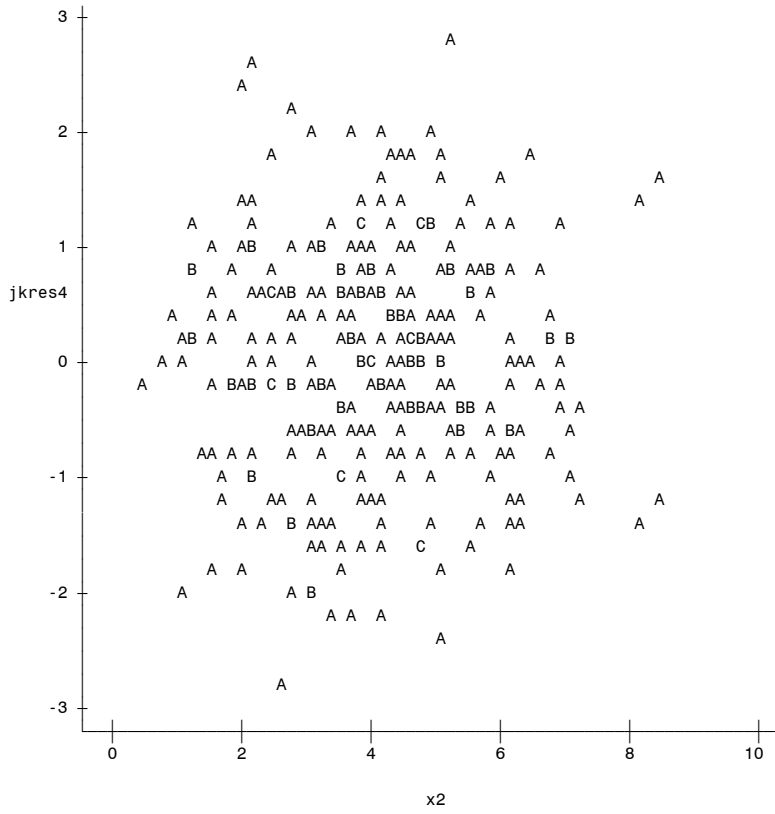
Plot of jkres4\*pred4. Legend: A = 1 obs, B = 2 obs, etc.



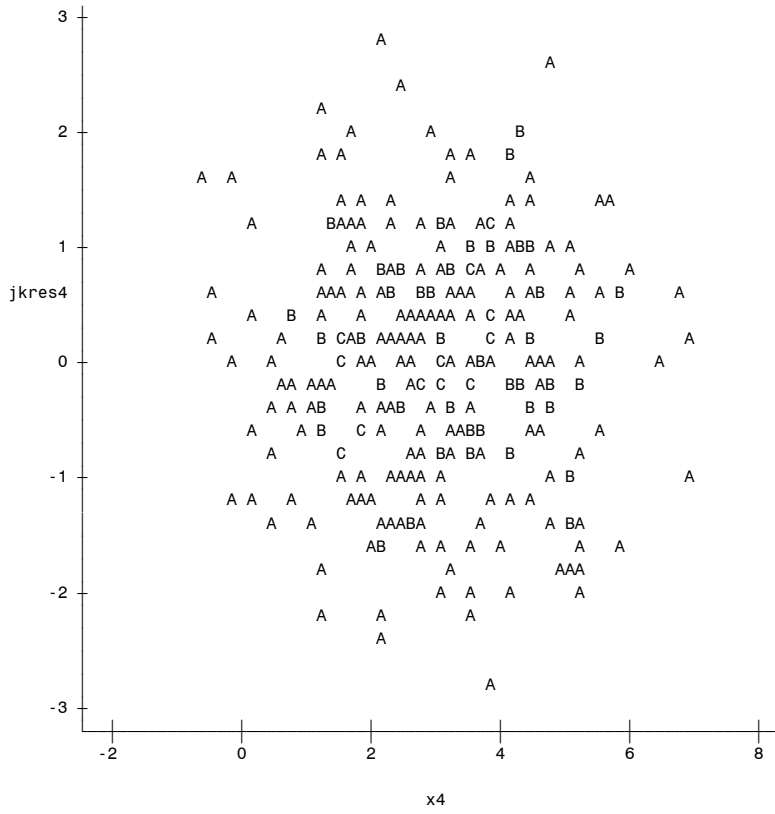
Plot of jkres4\*x1. Legend: A = 1 obs, B = 2 obs, etc.



Plot of jkres4\*x2. Legend: A = 1 obs, B = 2 obs, etc.



Plot of jkres4\*x4. Legend: A = 1 obs, B = 2 obs, etc.



Plot of  $\hat{y}_4 * \text{pred}_4$ . Legend: A = 1 obs, B = 2 obs, etc.

