

The GLM Procedure

Class Level Information		
Class	Levels	Values
cylinders	5	3 4 5 6 8
origin	3	1 2 3
year	13	70 71 72 73 74 75 76 77 78 79 80 81 82

Number of Observations Read	392
Number of Observations Used	392

The GLM Procedure

Dependent Variable: mpg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	20	21418.48460	1070.92423	165.51	<.0001
Error	371	2400.50887	6.47037		
Corrected Total	391	23818.99347			

R-Square	Coeff Var	Root MSE	mpg Mean
0.899219	10.84919	2.543693	23.44592

Source	DF	Type I SS	Mean Square	F Value	Pr > F
cylinders	4	15274.50677	3818.62669	590.17	<.0001
acceleration	1	28.69505	28.69505	4.43	0.0359
year	12	3408.61669	284.05139	43.90	<.0001
inv_weight	1	2456.59223	2456.59223	379.67	<.0001
inv_horsepower	1	151.41040	151.41040	23.40	<.0001
inv_displacement	1	98.66345	98.66345	15.25	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
cylinders	4	264.321684	66.080421	10.21	<.0001
acceleration	1	72.939902	72.939902	11.27	0.0009
year	12	3168.671378	264.055948	40.81	<.0001
inv_weight	1	92.785252	92.785252	14.34	0.0002
inv_horsepower	1	160.966151	160.966151	24.88	<.0001
inv_displacement	1	98.663448	98.663448	15.25	0.0001

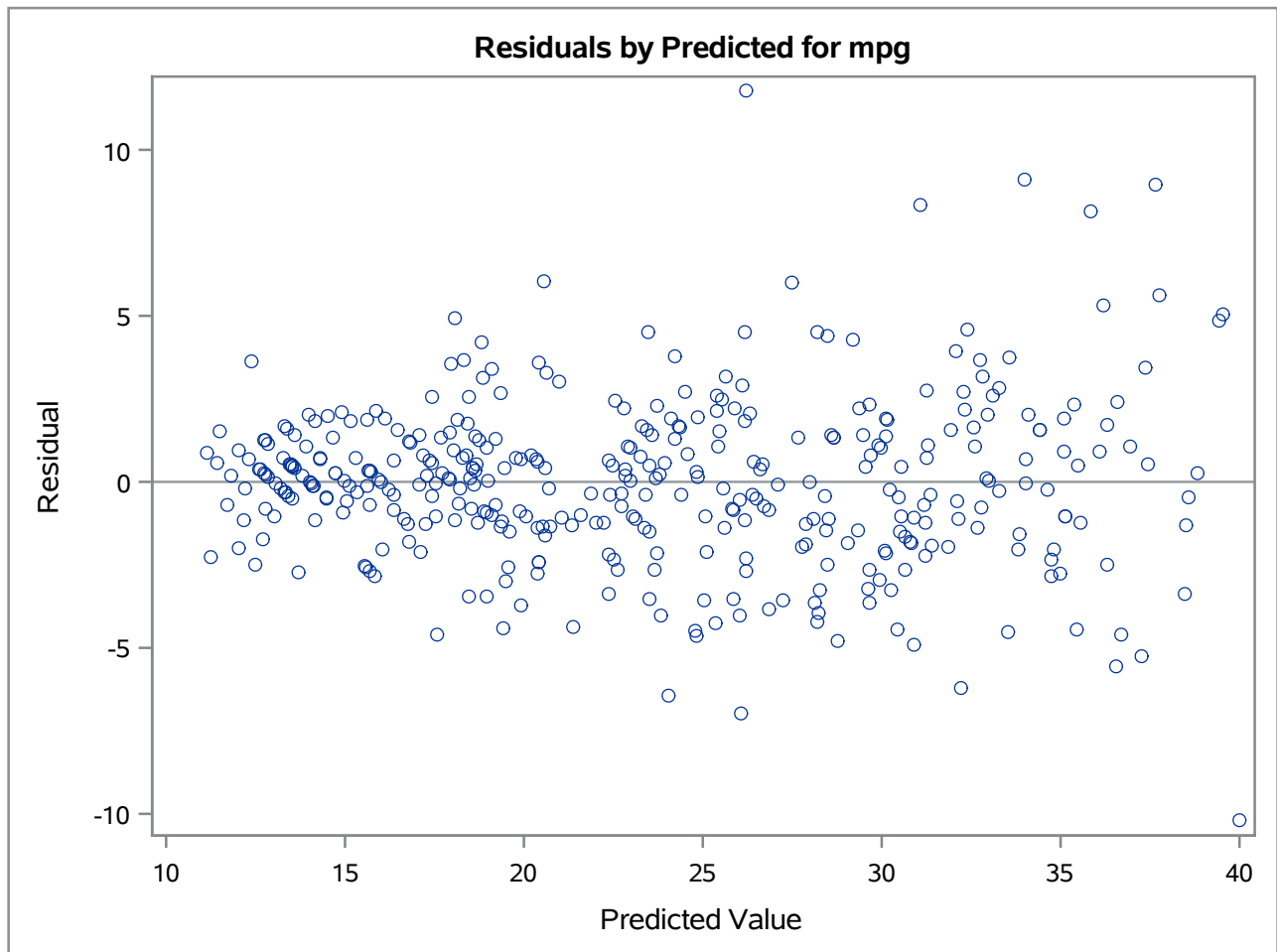
Parameter		Estimate		Standard Error	t Value	Pr > t
Intercept		14.82599996	B	1.57309909	9.42	<.0001
cylinders	3	-9.02392338	B	1.83361665	-4.92	<.0001
cylinders	4	0.32431800	B	0.73069714	0.44	0.6574
cylinders	5	1.37339889	B	1.59373788	0.86	0.3894
cylinders	6	0.00104071	B	0.47993457	0.00	0.9983
cylinders	8	0.00000000	B	.	.	.
acceleration		-0.28882797		0.08602434	-3.36	0.0009
year	70	-7.86691656	B	0.70933907	-11.09	<.0001
year	71	-7.65805034	B	0.69406021	-11.03	<.0001
year	72	-8.36564390	B	0.69523599	-12.03	<.0001
year	73	-8.80148031	B	0.64880690	-13.57	<.0001
year	74	-7.53064835	B	0.70532363	-10.68	<.0001
year	75	-7.09650403	B	0.67681056	-10.49	<.0001
year	76	-6.74755707	B	0.65680875	-10.27	<.0001

The GLM Procedure

Dependent Variable: mpg

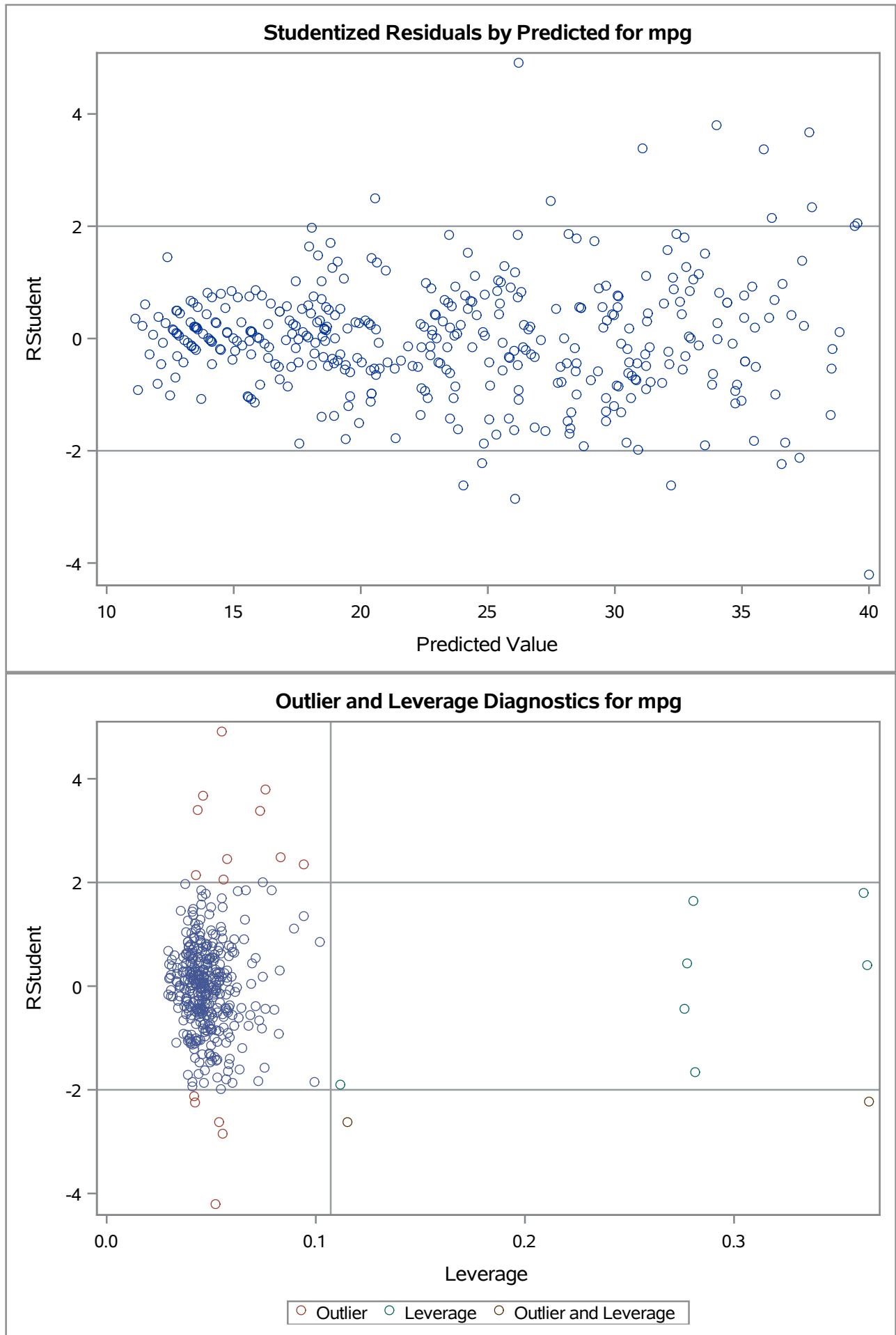
Parameter		Estimate		Standard Error	t Value	Pr > t
year	77	-5.25170690	B	0.68507420	-7.67	<.0001
year	78	-4.93828471	B	0.64529197	-7.65	<.0001
year	79	-2.90154689	B	0.68143094	-4.26	<.0001
year	80	1.07361594	B	0.68983337	1.56	0.1205
year	81	-1.80613875	B	0.68014040	-2.66	0.0083
year	82	0.00000000	B	.	.	.
inv_weight		2.11790267		0.55928249	3.79	0.0002
inv_horsepower		0.57208554		0.11469867	4.99	<.0001
inv_displacement		0.66603488		0.17056249	3.90	0.0001

Note: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.



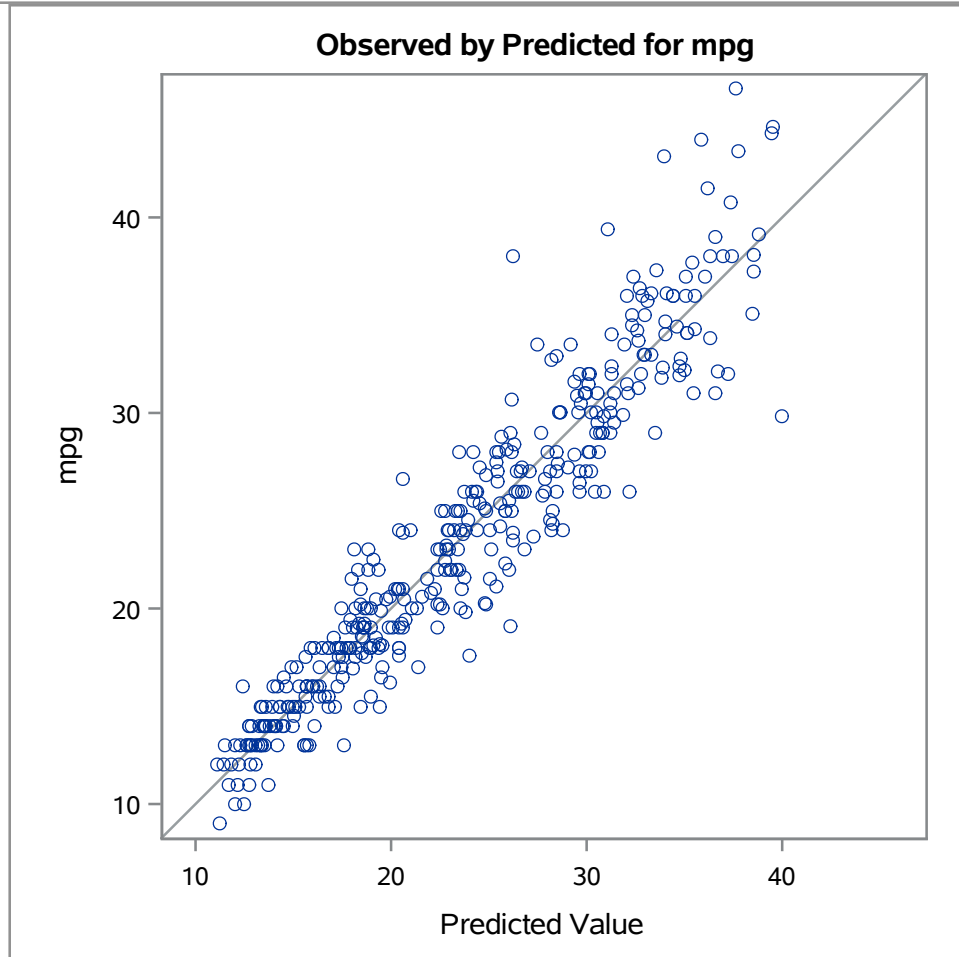
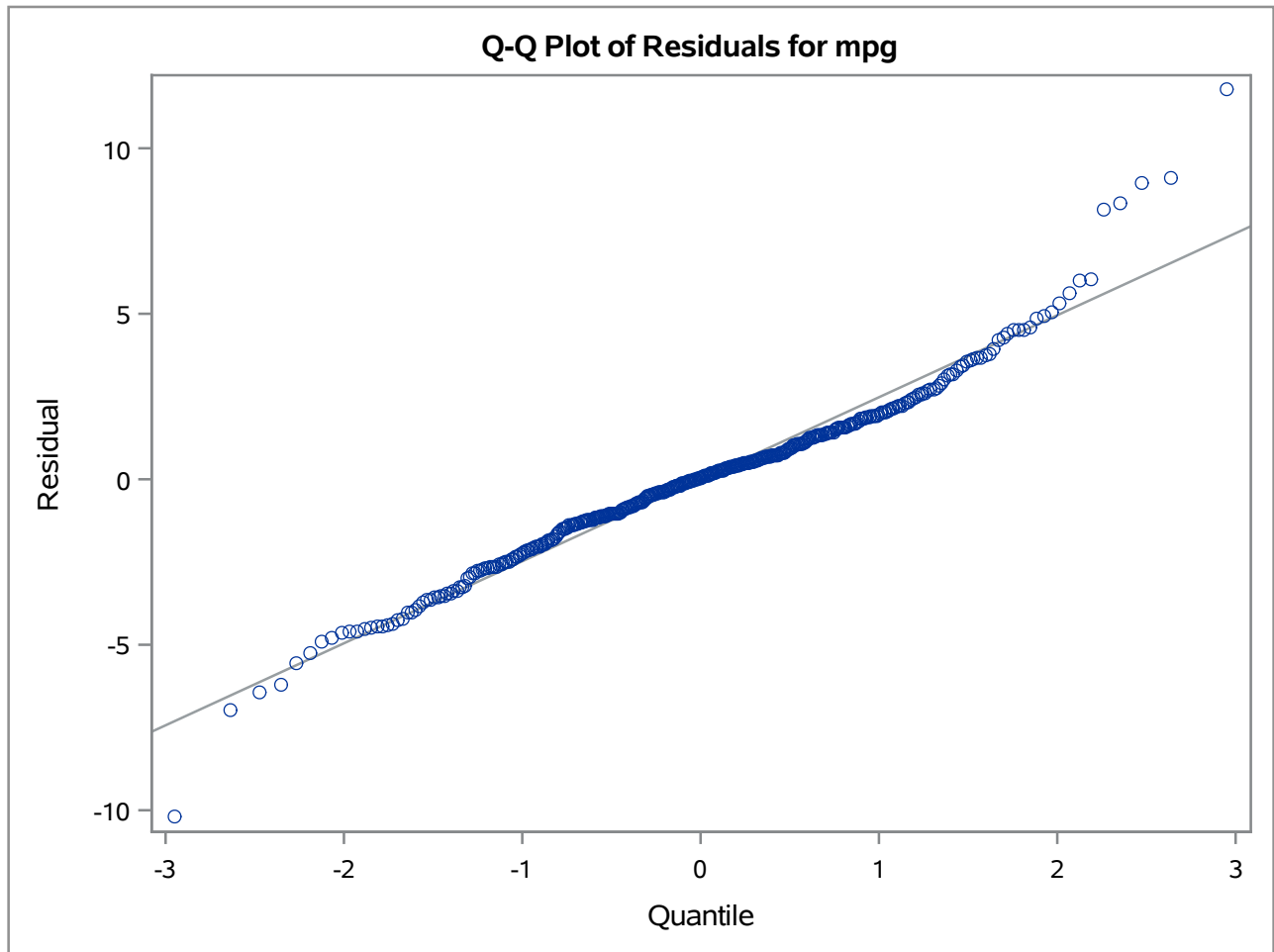
The GLM Procedure

Dependent Variable: mpg

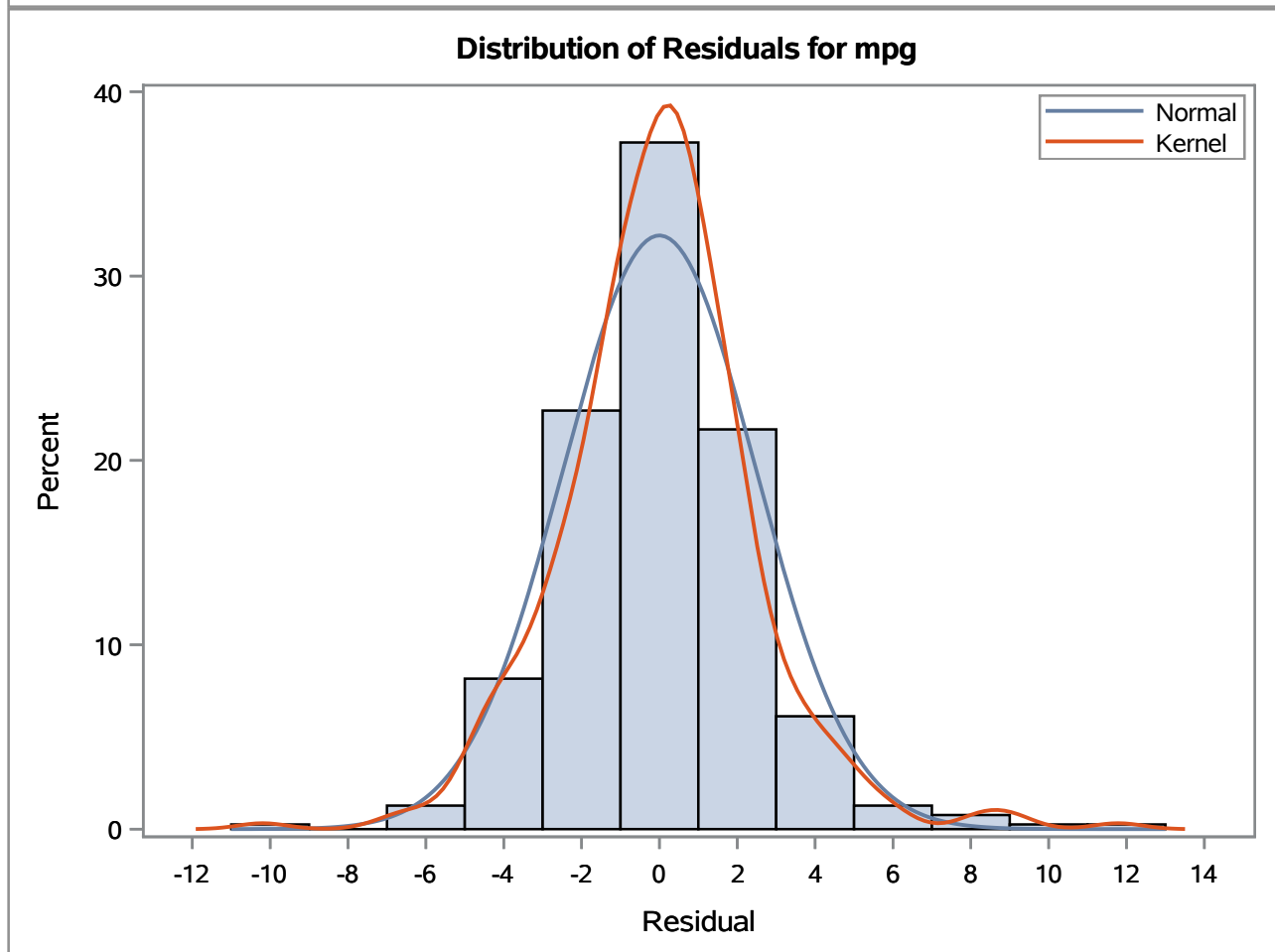
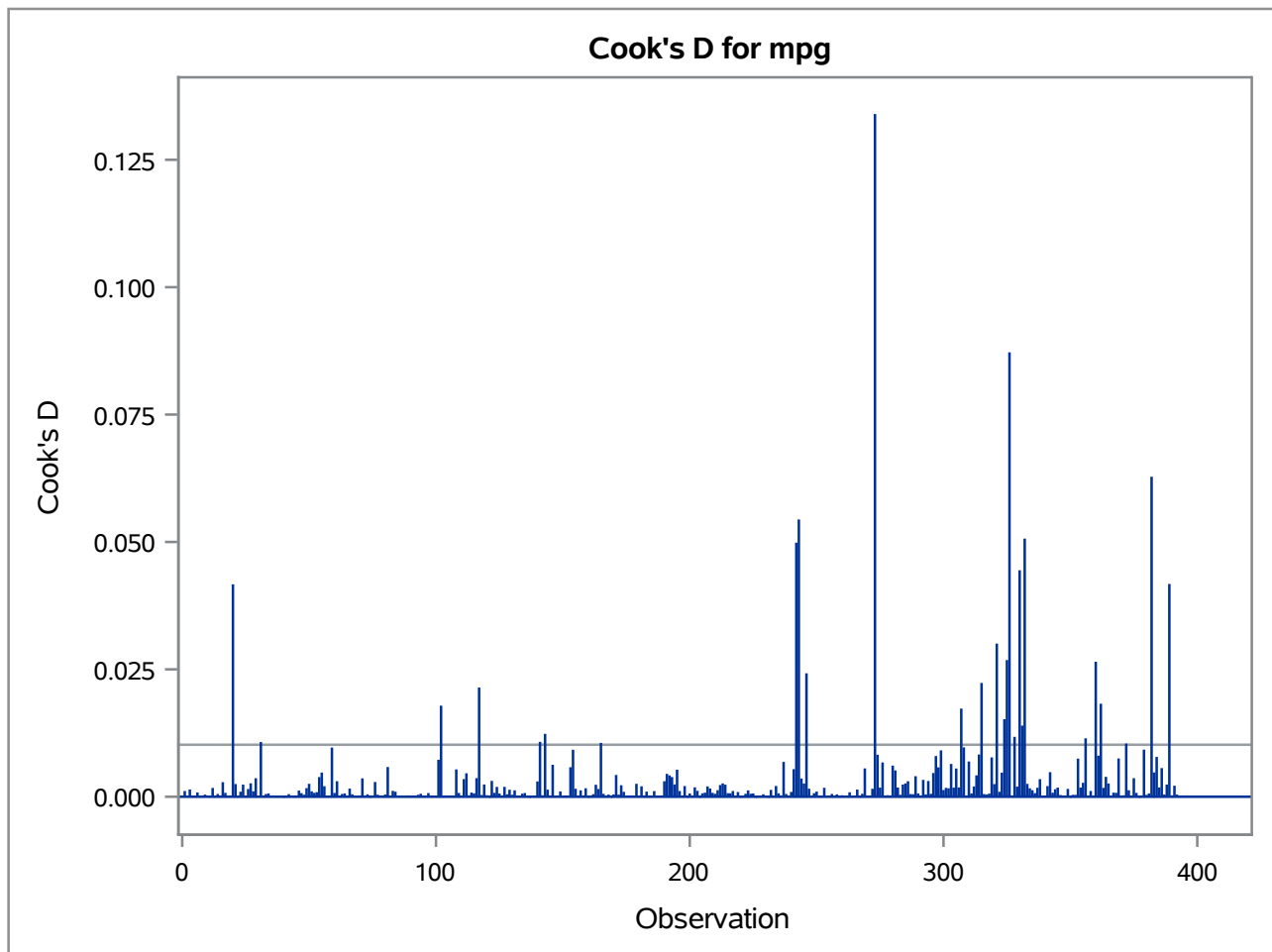


The GLM Procedure

Dependent Variable: mpg



The GLM Procedure
Dependent Variable: mpg



The GLM Procedure

Dependent Variable: mpg

