Class Level Information					
Class Levels Values					
cylinders	5	3 4 5 6 8			
origin	3	123			
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

Matrix Element Representation				
Dependent Variable: logmpg				
Effect		Representation		
Intercept		Intercept		
cylinders 3	3	cylinders 3		
cylinders 4	ı	cylinders 4		
cylinders 5	5	cylinders 5		
cylinders 6	5	cylinders 6		
cylinders 8	3	cylinders 8		
weight		weight		
acceleration		acceleration		
year 70)	year 70		
year 71		year 71		
year 72		year 72		
year 73		year 73		
year 74		year 74		
year 75		year 75		
year 76	,	year 76		
year 77		year 77		
year 78		year 78		
year 79)	year 79		
year 80)	year 80		
year 81		year 81		
year 82	:	year 82		
inv_horsepowe	r	Dummy001		

Dependent Variable: logmpg							
Tolerances							
Variable	Type I Tolerance	Type II Tolerance					
Intercept	392	1.4333923673					
cylinders 3	1	0.7528994117					
cylinders 4	0.9893702259	0.1049817664					
cylinders 5	0.9917166524	0.8544348741					
cylinders 6	0.7025089606	0.2968599833					
cylinders 8	6.549969E-16	0					
weight	0.1891118904	0.1013223566					
acceleration	0.6549779389	0.3463364408					
year 70	0.9043496026	0.479853677					
year 71	0.9824706488	0.5429539968					
year 72	0.9461171379	0.5229797412					
year 73	0.9023607596	0.4341084396					
year 74	0.9650340773	0.561545365					
year 75	0.9171119031	0.5138932064					
year 76	0.9009130111	0.490761158					
year 77	0.8882556073	0.5383790614					
year 78	0.8156830095	0.4797336499					
year 79	0.7584953685	0.5192898688					
year 80	0.7172788569	0.5513817719					
year 81	0.5512399442	0.5458916444					
year 82	1.346498E-15	0					
Dummy001	0.1375513745	0.1375513745					

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	19	41.23330445	2.17017392	203.01	<.0001
Error	372	3.97665657	0.01068994		
Corrected Total	391	45.20996102			

R-Square	Coeff Var	Root MSE	logmpg Mean	
0.912040	3.337047	0.103392	3.098313	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
cylinders	4	32.04929962	8.01232490	749.52	<.0001
weight	1	3.75049524	3.75049524	350.84	<.0001
acceleration	1	0.14118134	0.14118134	13.21	0.0003
year	12	4.90560737	0.40880061	38.24	<.0001
inv_horsepower	1	0.38672088	0.38672088	36.18	<.0001

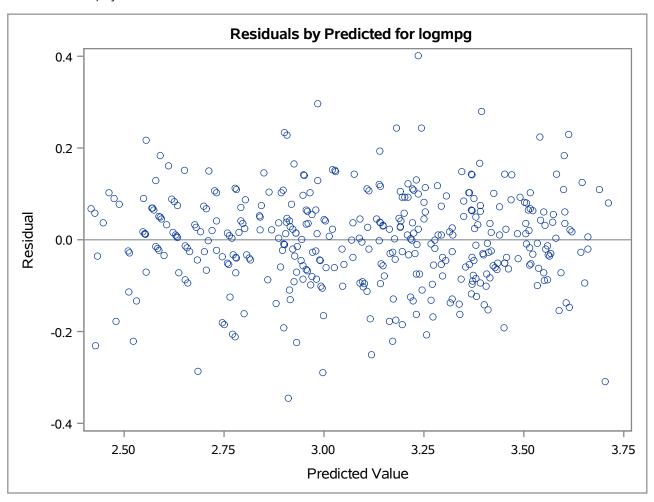
Source	DF	Type III SS	Mean Square	F Value	Pr > F
cylinders	4	0.43456791	0.10864198	10.16	<.0001
weight	1	1.00140081	1.00140081	93.68	<.0001
acceleration	1	0.09497271	0.09497271	8.88	0.0031
year	12	4.51247875	0.37603990	35.18	<.0001
inv_horsepower	1	0.38672088	0.38672088	36.18	<.0001

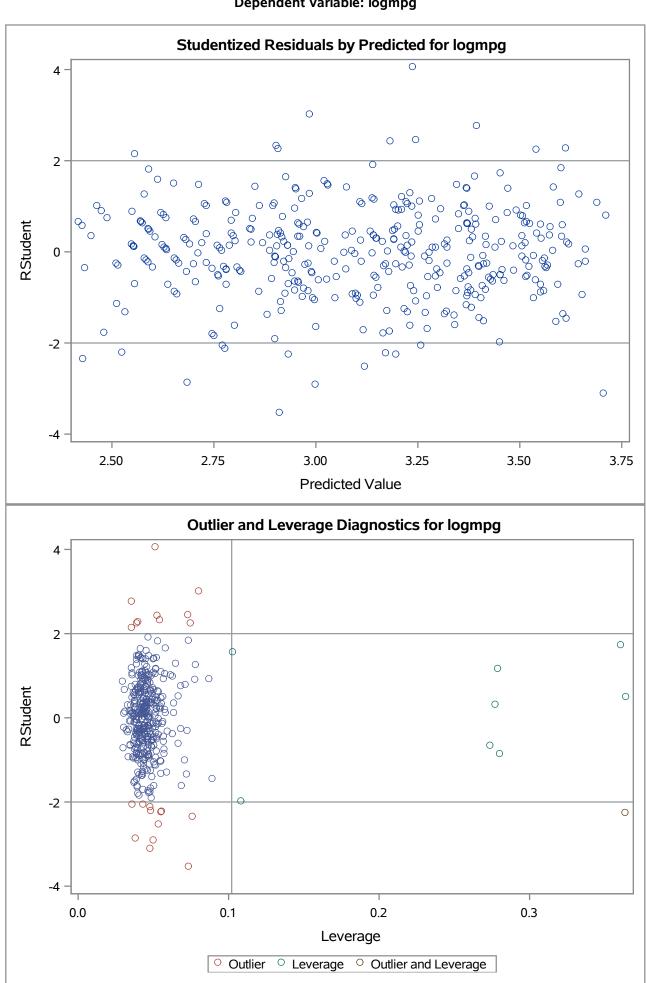
Parameter	Estimate		Standard Error	t Value	Pr > t
Intercept	3.671389079	В	0.08635849	42.51	<.0001
cylinders 3	-0.135482888	В	0.05988475	-2.26	0.0242
cylinders 4	0.100305334	В	0.03223803	3.11	0.0020
cylinders 5	0.127878778	В	0.06482697	1.97	0.0493
cylinders 6	0.008798696	В	0.02346046	0.38	0.7078
cylinders 8	0.000000000	В			
weight	-0.000187176		0.00001934	-9.68	<.0001
acceleration	-0.009599125		0.00322047	-2.98	0.0031
year 70	-0.305224191	В	0.02880208	-10.60	<.0001
year 71	-0.257446230	В	0.02798471	-9.20	<.0001
year 72	-0.303155550	В	0.02803874	-10.81	<.0001
year 73	-0.329221163	В	0.02618365	-12.57	<.0001
year 74	-0.234318457	В	0.02800341	-8.37	<.0001
year 75	-0.239453342	В	0.02740181	-8.74	<.0001
year 76	-0.217850922	В	0.02648589	-8.23	<.0001
year 77	-0.150929291	В	0.02763483	-5.46	<.0001

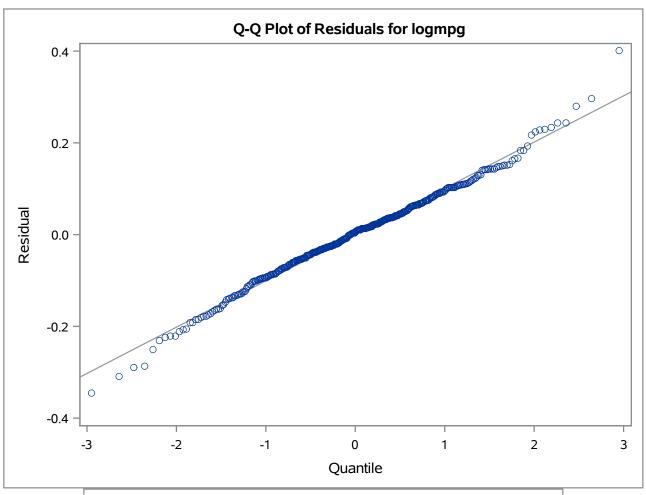
Dependent Variable: logmpg

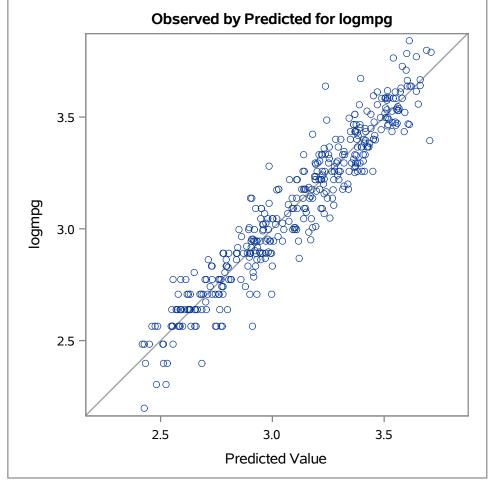
Parameter		Estimate		Standard Error	t Value	Pr > t
year	78	-0.155982245	В	0.02610684	-5.97	<.0001
year	79	-0.065523983	В	0.02768684	-2.37	0.0185
year	80	0.035574219	В	0.02777001	1.28	0.2010
year	81	-0.036913076	В	0.02744402	-1.35	0.1794
year	82	0.000000000	В			
inv_horsepower		0.024115808		0.00400950	6.01	<.0001

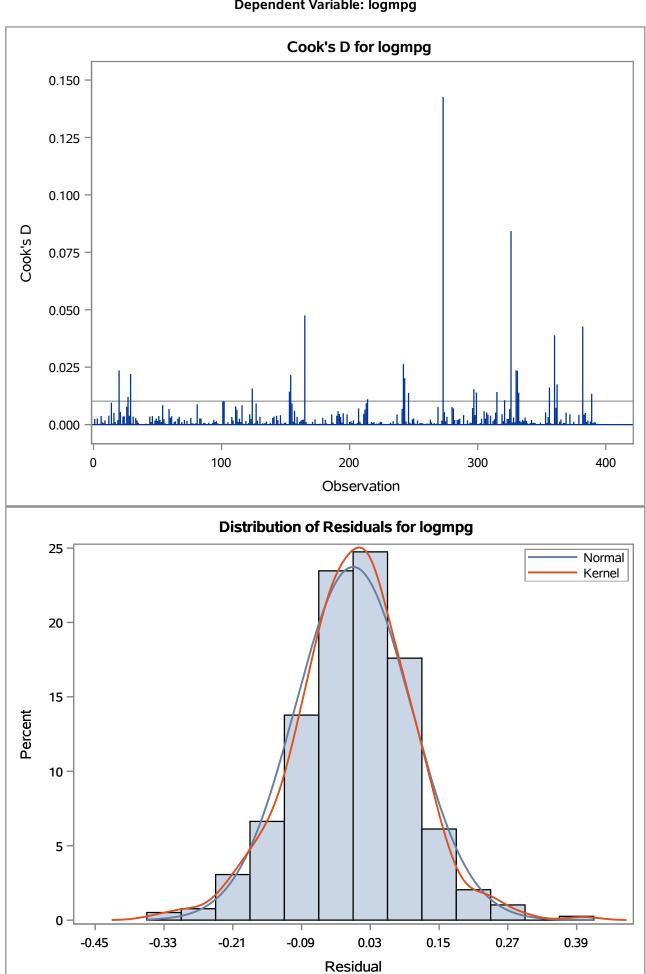
Note: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.











The GLM Procedure

