

Highway MPG for Various Types of Drive Multiple Regression Analysis

Response: Highway MPG

Explanatory: All Wheel indicator variable

Rear Wheel indicator variable

Summary of Fit

RSquare	0.254103
RSquare Adj	0.238723
Root Mean Square Error	5.311626
Mean of Response	27.7
Observations (or Sum Wgts)	100

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	932.3031	466.152	16.5224
Error	97	2736.6969	28.213	Prob > F
C. Total	99	3669.0000		<.0001

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	29.983333	0.685728	43.72	<.0001
All Wheel	-7.374638	1.302648	-5.66	<.0001
Rear Wheel	-3.453922	1.459395	-2.37	0.0199

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
All Wheel	1	1	904.23720	32.0500	<.0001
Rear Wheel	1	1	158.02813	5.6012	0.0199

Analysis of Residuals

