Response LapTimeSeconds

Singularity Details

Term	Details
Driver[ALB]	=Driver[COL] + Driver[GAS] - Driver[SAI] - Team[Alpine]= - 0,05556*Inter...

Whole Model

Effect Summary

Source	Logworth		PValue
SpeedST	119,152		0,00000
SpeedI1	13,858		0,00000
SpeedI2	2,556		0,00278
Driver	1,673		0,02122
LapsOnStint	1,065		0,08615
Compound	0,580		0,26324
SpeedFL	0,487		0,32592
Team	.		.

Actual by Predicted Plot

LapTimeSeconds Predicted RMSE=2,3329
RSq=0,72 PValue=<,0001
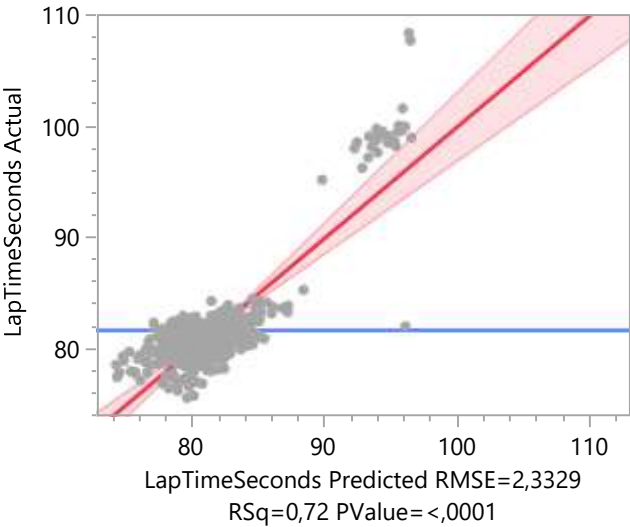
Summary of Fit

RSquare	0,716814
RSquare Adj	0,703431
Root Mean Square Error	2,332948
Mean of Response	81,80187
Observations (or Sum Wgts)	555

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	25	7287,869	291,515	53,5612
Error	529	2879,159	5,443	Prob > F
C. Total	554	10167,028		<,0001*

Parameter Estimates

Term		Estimate	Std Error	t Ratio	Prob>|t|
Intercept	Biased	176,13887	8,644885	20,37	<,0001*
Driver[ALB]	Biased	0,6166387	0,693065	0,89	0,3740
Driver[ALO]	Biased	-0,646029	0,40385	-1,60	0,1103
Driver[ANT]	Biased	-0,606608	0,525444	-1,15	0,2488
Driver[BEA]	Biased	1,2296608	0,433552	2,84	0,0047*
Driver[BOR]	Biased	1,0393605	0,402713	2,58	0,0101*
Driver[COL]	Biased	0,8186889	0,447869	1,83	0,0681
Driver[GAS]	Biased	-0,350507	0,391553	-0,90	0,3711
Driver[HAD]	Biased	0,3141104	0,47422	0,66	0,5080
Driver[HAM]	Biased	-0,051105	0,489742	-0,10	0,9169

Response LapTimeSeconds

Whole Model

Parameter Estimates

Term		Estimate	Std Error	t Ratio	Prob>|t|
Driver[HUL]	Biased	0,9393498	0,419109	2,24	0,0254*
Driver[LAW]	Biased	0,8058445	0,396473	2,03	0,0426*
Driver[LEC]	Biased	-0,294592	0,432534	-0,68	0,4961
Driver[NOR]	Biased	-0,870098	0,387557	-2,25	0,0252*
Driver[OCO]	Biased	0,6780732	0,439147	1,54	0,1232
Driver[PIA]	Biased	-1,889282	0,454308	-4,16	<,0001*
Driver[RUS]	Biased	-1,535455	0,422771	-3,63	0,0003*
Driver[SAI]	Biased	0,6278552	0,396932	1,58	0,1143
Driver[TSU]	Biased	0,5293874	0,412976	1,28	0,2004
Compound[HARD]		1,3822888	0,846675	1,63	0,1031
Compound[MEDIUM]		-0,683798	0,440404	-1,55	0,1211
Team[Alpine]	Zeroed	0	0	.	.
Team[Aston Martin]	Zeroed	0	0	.	.
Team[Ferrari]	Zeroed	0	0	.	.
Team[Haas F1 Team]	Zeroed	0	0	.	.
Team[Kick Sauber]	Zeroed	0	0	.	.
Team[McLaren]	Zeroed	0	0	.	.
Team[Mercedes]	Zeroed	0	0	.	.
Team[Racing Bulls]	Zeroed	0	0	.	.
Team[Red Bull Racing]	Zeroed	0	0	.	.
LapsOnStint		-0,030246	0,017592	-1,72	0,0861
SpeedI1		-0,10266	0,012959	-7,92	<,0001*
SpeedI2		-0,047593	0,015835	-3,01	0,0028*
SpeedFL		0,0351412	0,035739	0,98	0,3259
SpeedST		-0,202015	0,006568	-30,76	<,0001*

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F	
Driver	18	9	107,4277	2,1931	0,0212*	LostDFs
Compound	2	2	14,5652	1,3381	0,2632	
Team	9	0	0,0000	.	.	LostDFs
LapsOnStint	1	1	16,0882	2,9560	0,0861	
SpeedI1	1	1	341,5739	62,7588	<,0001*	
SpeedI2	1	1	49,1627	9,0329	0,0028*	
SpeedFL	1	1	5,2621	0,9668	0,3259	
SpeedST	1	1	5148,5227	945,9596	<,0001*	

Residual by Predicted Plot
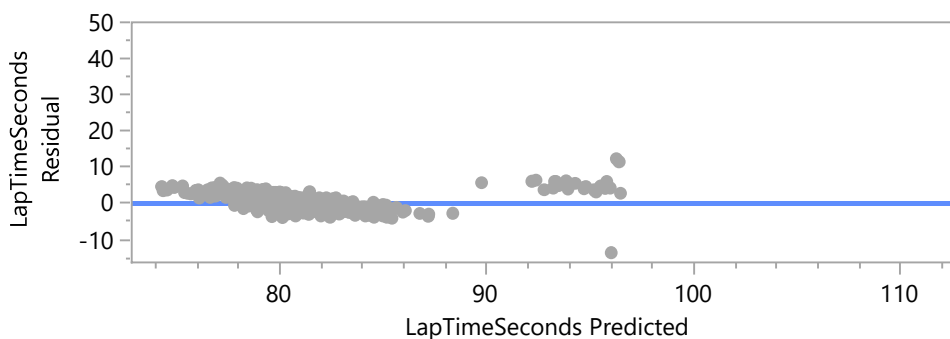
Response LapTimeSeconds

Driver

Leverage Plot
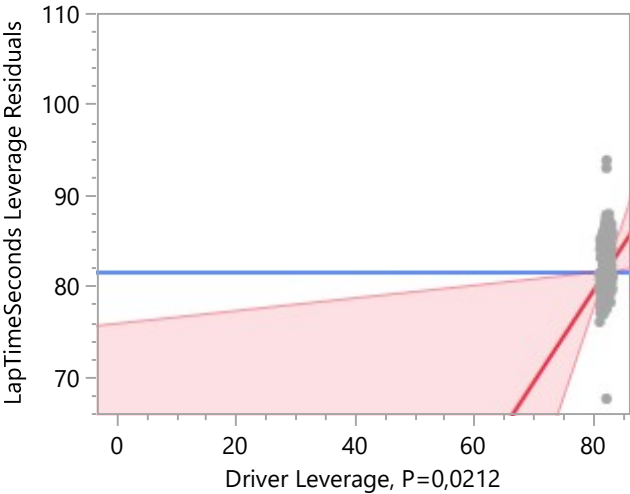
Driver Leverage, P=0,0212

Compound

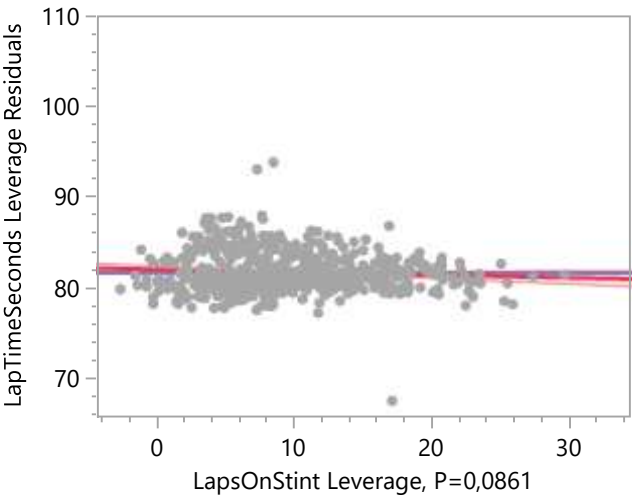#### Leverage Plot

Compound Leverage, P=0,2632
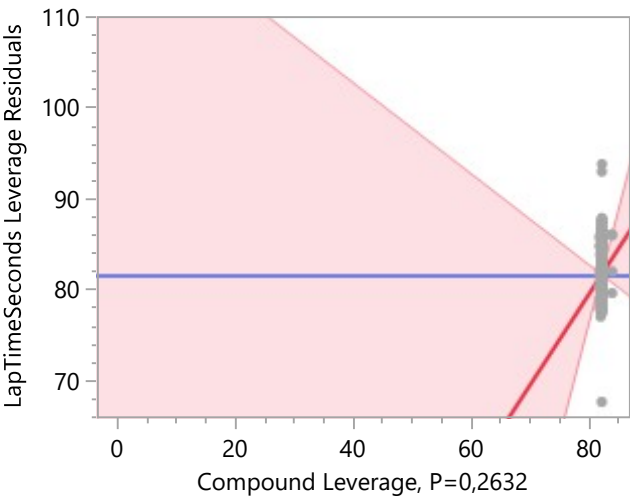
Least Squares Means Table

Level	Least Sq Mean		Std Error	80 90 100 110	Mean
HARD	0	NonEstimable	.		78,321
MEDIUM	0	NonEstimable	.		82,065
SOFT	0	NonEstimable	.		81,632

Team

Response LapTimeSeconds

Team

Leverage Plot

Team Leverage, P=.
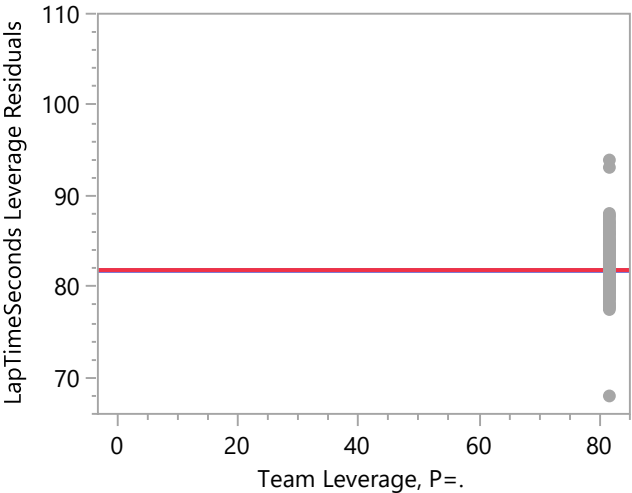
Least Squares Means Table

Level	Least Sq Mean		Std Error	80	90	100	110	Mean
Alpine	0	NonEstimable	.					82,427
Aston Martin	0	NonEstimable	.					81,825
Ferrari	0	NonEstimable	.					81,179
Haas F1 Team	0	NonEstimable	.					82,653
Kick Sauber	0	NonEstimable	.					82,361
McLaren	0	NonEstimable	.					79,890
Mercedes	0	NonEstimable	.					80,772
Racing Bulls	0	NonEstimable	.					82,329
Red Bull Racing	0	NonEstimable	.					81,606
Williams	0	NonEstimable	.					83,151

LapsOnStint

Leverage Plot

LapsOnStint Leverage, P=0,0861

SpeedI1

Response LapTimeSeconds

SpeedI1

Leverage Plot

SpeedI1 Leverage, P<,0001
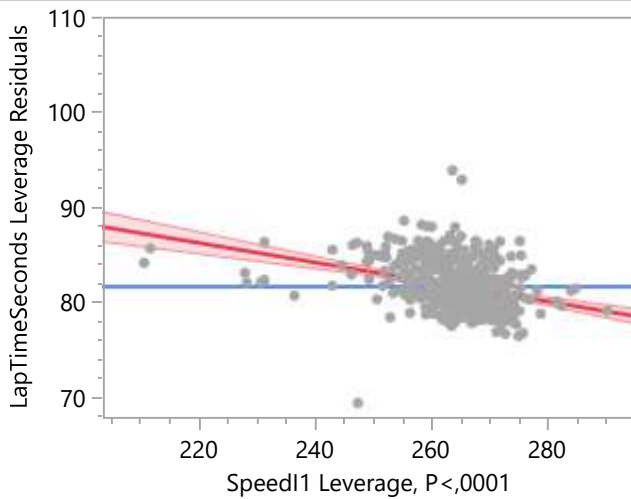
SpeedI2

Leverage Plot

SpeedI2 Leverage, P=0,0028
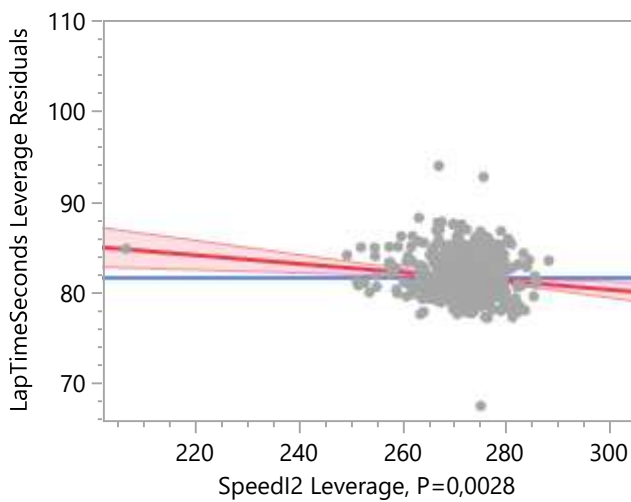
SpeedFL

Leverage Plot

SpeedFL Leverage, P=0,3259
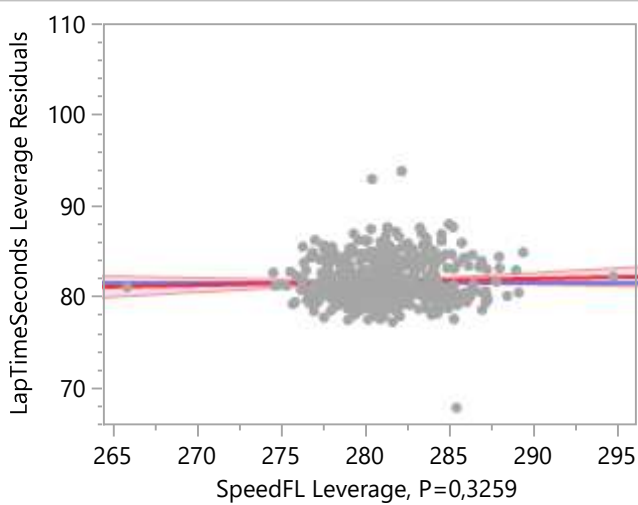
SpeedST

Response LapTimeSeconds

SpeedST

Leverage Plot

Prediction Profiler