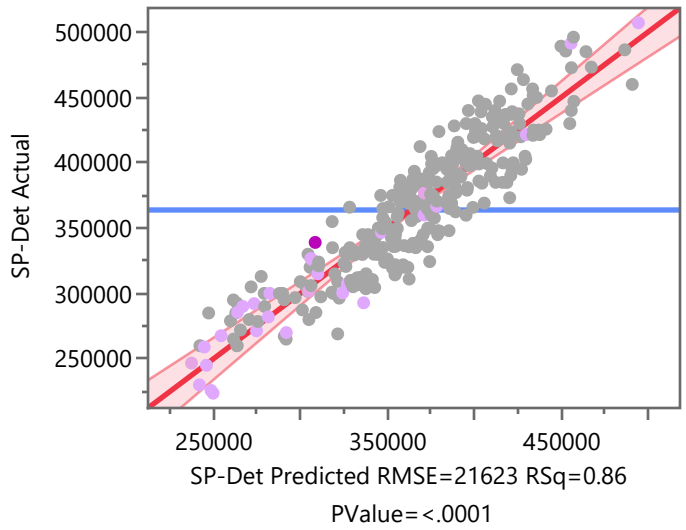
Response SP-Det

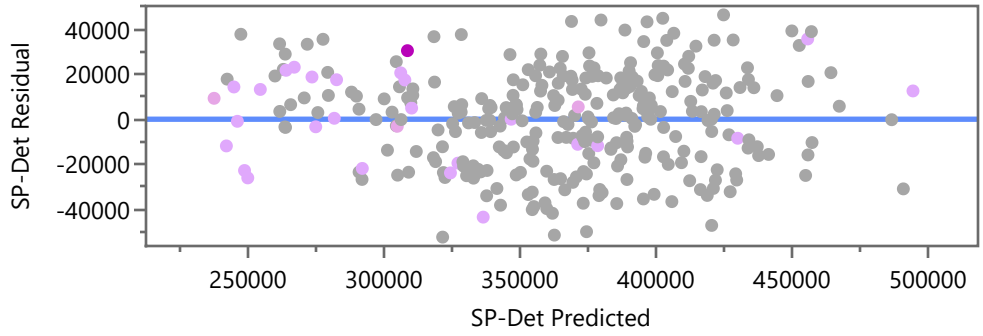
Actual by Predicted Plot



Effect Summary

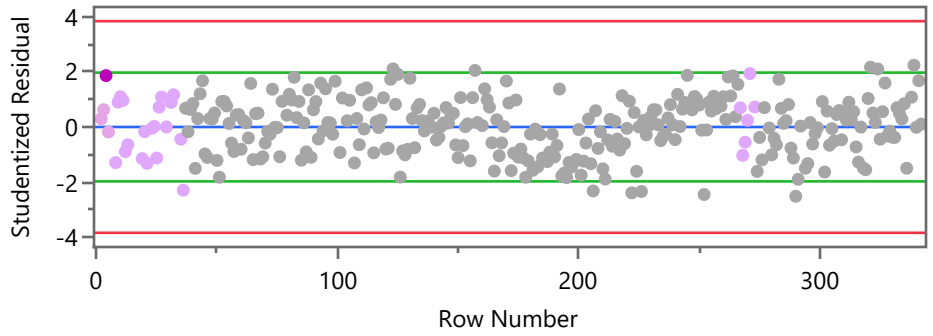
Source	Logworth	PValue
UpprFn	35.010	0.00000
DP3	32.193	0.00000
MainFn	24.069	0.00000
Cnd	5.392	0.00000
DP2	5.091	0.00001
BltinGar	4.985	0.00001
MsnryTrim	4.265	0.00005
AttGar	3.683	0.00021
PrefabFP	3.131	0.00074
LnAcres	3.085	0.00082
Bsmt	2.929	0.00118
Qlty	1.744	0.01801
DP1	0.162	0.68904
EffAge	0.133	0.73701

Residual by Predicted Plot



Response SP-Det

Studentized Residuals



Externally studentized residuals with 95% simultaneous limits (Bonferroni) in red, individual limits in green.

Summary of Fit

RSquare	0.857073
RSquare Adj	0.84645
Root Mean Square Error	21622.98
Mean of Response	363860.9
Observations (or Sum Wgts)	319

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	22	8.299e+11	3.772e+10	80.6810
Error	296	1.384e+11	467553358	Prob > F
C. Total	318	9.6829e+11		<.0001*

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	220892.48	31532.69	7.01	<.0001*
LnAcres	13124.321	3883.279	3.38	0.0008*
DP1	9.4974606	23.71134	0.40	0.6890
DP2	-67.44355	14.84833	-4.54	<.0001*
DP3	-228.9994	16.88463	-13.56	<.0001*
Qlty[F+-F]	-1240.808	12217.3	-0.10	0.9192
Qlty[A-F+]	25612.574	11859.98	2.16	0.0316*
Qlty[A+-A]	12782.486	11203.02	1.14	0.2548
Qlty[G-A+]	-4236.403	3565.318	-1.19	0.2357
Qlty[G+-G]	6448.6452	21981.98	0.29	0.7695
Cnd[AV-FR]	17761.122	25718.83	0.69	0.4904
Cnd[GD-AV]	12539.207	4598.361	2.73	0.0068*
Cnd[VG-GD]	20138.05	5317.92	3.79	0.0002*
Cnd[EX-VG]	-3067.1	5516.383	-0.56	0.5786
MainFn	62.41038	5.531466	11.28	<.0001*
UpprFn	59.580383	4.157889	14.33	<.0001*
MsnryTrim[B]	5299.8242	3714.338	1.43	0.1547
MsnryTrim[N]	-9412.703	2269.342	-4.15	<.0001*
PrefabFP	9807.1045	2875.842	3.41	0.0007*

Response SP-Det

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
AttGar	35.301031	9.396981	3.76	0.0002*
BltinGar	49.3968	11.00828	4.49	<.0001*
Bsmt	62.586496	19.10483	3.28	0.0012*
EffAge	-108.7411	323.5125	-0.34	0.7370

Prediction Expression

$$
\begin{aligned}
&220892.48369 \\
&+ 13124.320858 \bullet \text{LnAcres} \\
&+ 9.4974606337 \bullet \text{DP1} \\
&+ -67.44355321 \bullet \text{DP2} \\
&+ -228.9994086 \bullet \text{DP3} \\
&+ \text{Match}\left(\text{Qlty}, \begin{pmatrix} \text{"F"} \Rightarrow 0 \\ \text{"F+"} \Rightarrow -1240.808363 \\ \text{"A"} \Rightarrow 24371.765966 \\ \text{"A+"} \Rightarrow 37154.252388 \\ \text{"G"} \Rightarrow 32917.849192 \\ \text{"G+"} \Rightarrow 39366.494398 \\ \text{else} \Rightarrow . \end{pmatrix}\right) \\
&+ \text{Match}\left(\text{Cnd}, \begin{pmatrix} \text{"FR"} \Rightarrow 0 \\ \text{"AV"} \Rightarrow 17761.121909 \\ \text{"GD"} \Rightarrow 30300.329274 \\ \text{"VG"} \Rightarrow 50438.379079 \\ \text{"EX"} \Rightarrow 47371.278782 \\ \text{else} \Rightarrow . \end{pmatrix}\right) \\
&+ 62.410380024 \bullet \text{MainFn} \\
&+ 59.580382716 \bullet \text{UpprFn} \\
&+ \text{Match}\left(\text{MsnryTrim}, \begin{pmatrix} \text{"B"} \Rightarrow 5299.8241722 \\ \text{"N"} \Rightarrow -9412.702621 \\ \text{"S"} \Rightarrow 4112.8784489 \end{pmatrix}\right)
\end{aligned}
$$

Response SP-Det

Prediction Expression

else ⇒ .

+ 9807.1045204 • PrefabFP

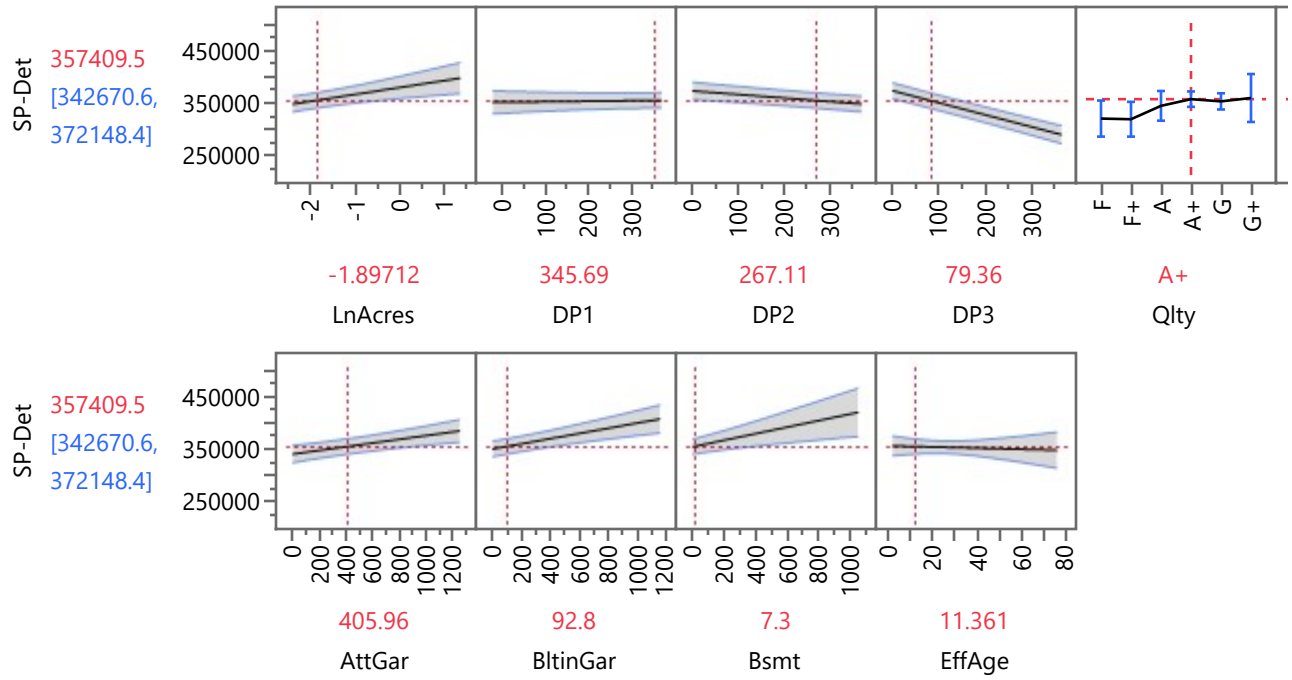
+ 35.301030638 • AttGar

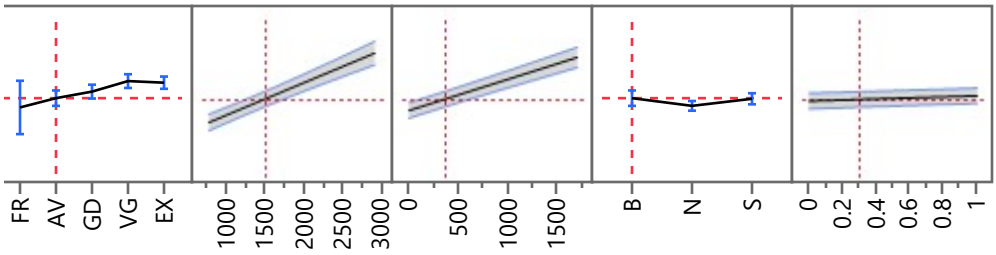
+ 49.396799718 • BltinGar

+ 62.58649554 • Bsmt

+ -108.7411318 • EffAge

Prediction Profiler




FR
AV
GD
VG
EX
1000
1500
2000
2500
3000
0
500
1000
1500
B
N
S
0
0.2
0.4
0.6
0.8
1
AV
1477.6
350.4
B
0.2931
Cnd
MainFn
UpprFn
MsnryTrim
PrefabFP