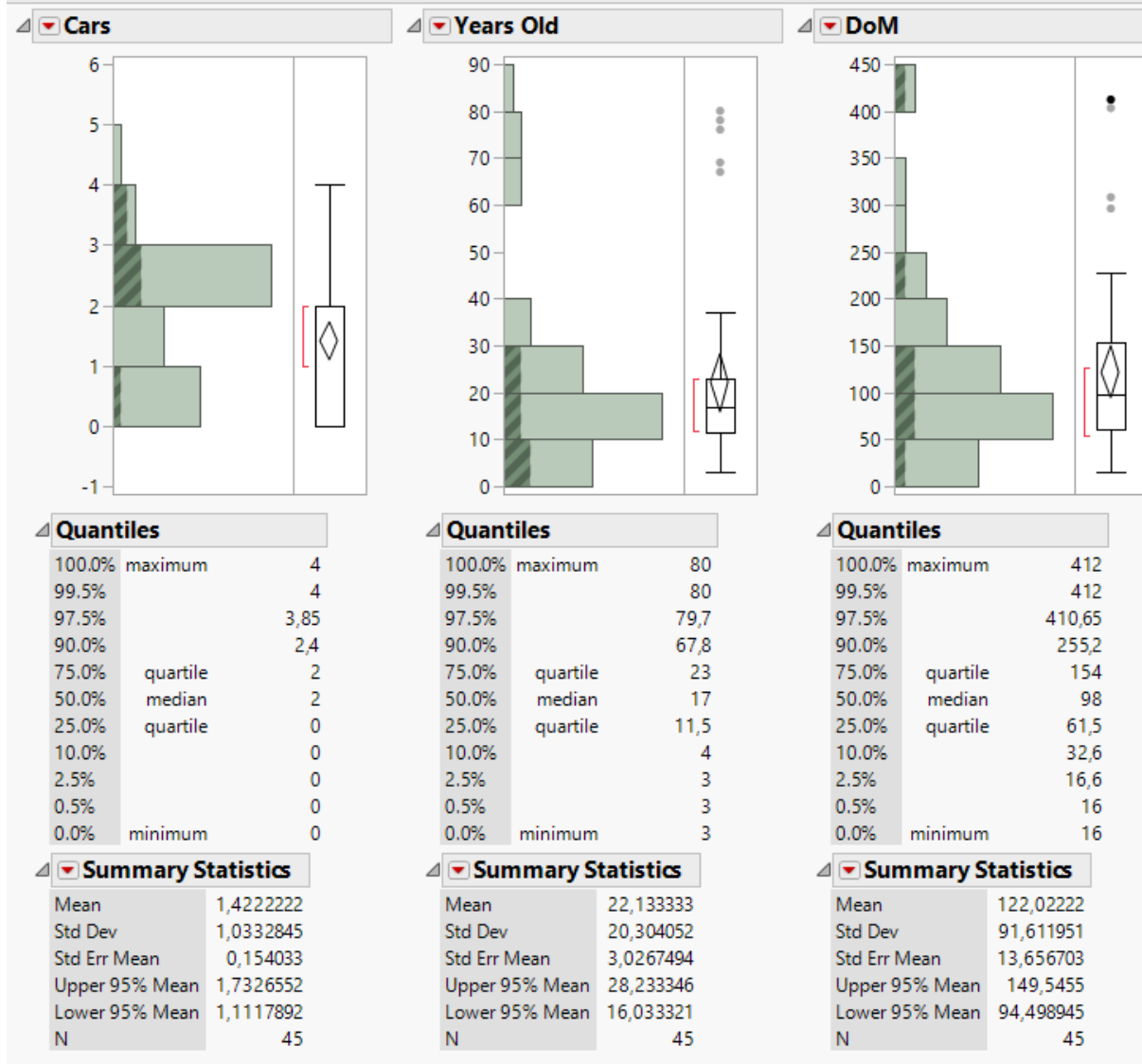
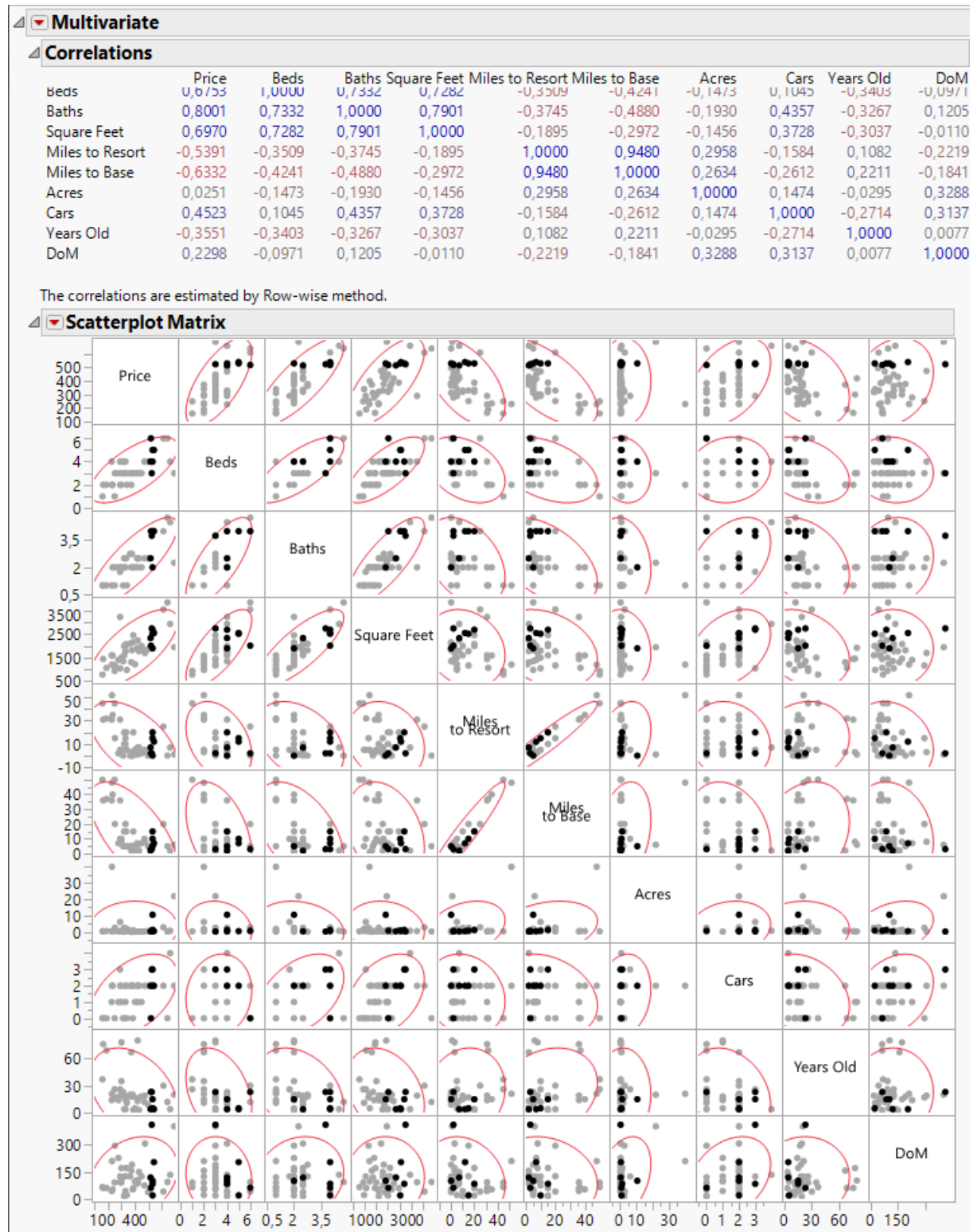


Exploring Data

a)



e)

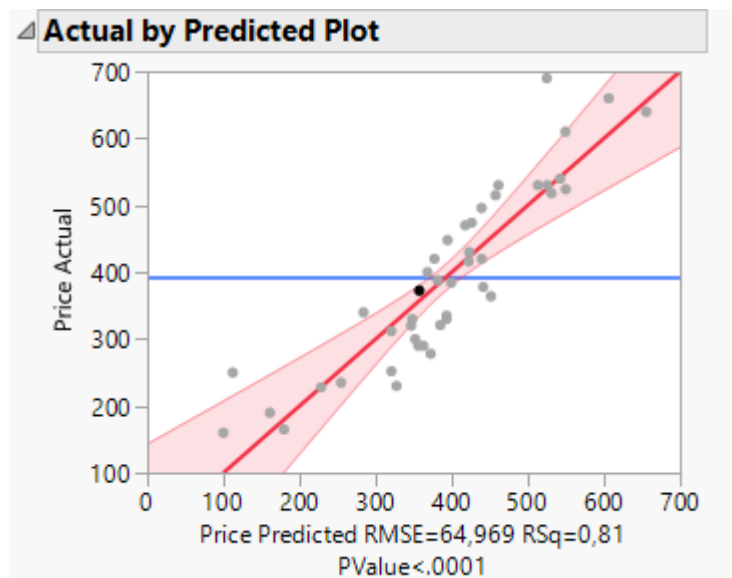


Build the Model

b)

Effect Summary			
Source	LogWorth		PValue
Acres	1,880		0,01318
Baths	1,846		0,01424
Square Feet	0,982		0,10425
Miles to Base	0,319		0,48023
Miles to Resort	0,285		0,51915
Beds	0,265		0,54336
Cars	0,209		0,61769
Years Old	0,207		0,62093
DoM	0,092		0,80958
Remove Add Edit <input type="checkbox"/> FDR			

c)



d)

Summary of Fit	
RSquare	0,809043
RSquare Adj	0,759939
Root Mean Square Error	64,96897
Mean of Response	391,1911
Observations (or Sum Wgts)	45

e)

Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Ratio
Model	9	625914,08	69546,0	16,4763
Error	35	147733,84	4221,0	Prob > F
C. Total	44	773647,92		<,0001*

g)

Effect Summary				
Source	LogWorth			PValue
Square Feet	2,067			0,00856
Acres	1,179			0,06629
Beds	1,062			0,08675
Miles to Base	0,667			0,21549
Cars	0,619			0,24055
DoM	0,398			0,39962
Years Old	0,156			0,69775
Miles to Resort	0,056			0,87910
Remove Add Edit Undo <input type="checkbox"/> FDR				

h)

Parameter Estimates					
Term	Estimate	Std Error	t Ratio	Prob> t	VIF
Intercept	176,73111	55,12519	3,21	0,0028*	.
Beds	27,266996	15,48496	1,76	0,0868	2,9086042
Square Feet	0,0729189	0,026219	2,78	0,0086*	2,889324
Miles to Resort	-0,421878	2,753966	-0,15	0,8791	13,324826
Miles to Base	-3,470846	2,752906	-1,26	0,2155	13,713111
Acres	3,5179615	1,857516	1,89	0,0663	1,4282824
Cars	15,61035	13,08159	1,19	0,2406	1,6460007
Years Old	-0,230635	0,589127	-0,39	0,6977	1,289
DoM	0,1186562	0,139201	0,85	0,3996	1,4650622

j)

Parameter Estimates					
Term	Estimate	Std Error	t Ratio	Prob> t	VIF
Intercept	177,27617	54,27945	3,27	0,0024*	.
Beds	27,464191	15,22637	1,80	0,0794	2,8885039
Square Feet	0,0721643	0,02541	2,84	0,0073*	2,7873441
Miles to Base	-3,867308	0,925871	-4,18	0,0002*	1,5931999
Acres	3,456705	1,789866	1,93	0,0611	1,3620917
Cars	15,260838	12,70997	1,20	0,2375	1,5959308
Years Old	-0,210345	0,566419	-0,37	0,7125	1,2238454
DoM	0,1245076	0,132079	0,94	0,3520	1,3547481

k)

Stepwise Fit for Price

Stepwise Regression Control

Stopping Rule: Minimum BIC ➡ Enter All Make Model

Direction: Forward ⬅ Remove All Run Model

Go Stop Step

SSE	DFE	RMSE	RSquare	RSquare Adj	Cp	p	AICc	BIC
153342,58	40	61,915785	0,8018	0,7820	1,9193847	5	507,9345	516,564

Current Estimates

Lock	Entered	Parameter	Estimate	nDF	SS	"F Ratio"	"Prob>F"
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Intercept	197,150171	1	0	0,000	1
<input type="checkbox"/>	<input type="checkbox"/>	Beds	0	1	1148,056	0,294	0,59063
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Baths	59,2080973	1	46387,91	12,100	0,00123
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Square Feet	0,05112326	1	19597,28	5,112	0,02927
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Miles to Base	-3,7985104	1	90774,52	23,679	1,81e-5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Acres	5,00610917	1	46854,78	12,222	0,00117
<input type="checkbox"/>	<input type="checkbox"/>	Cars	0	1	311,3432	0,079	0,77968
<input type="checkbox"/>	<input type="checkbox"/>	Years Old	0	1	969,519	0,248	0,62118
<input type="checkbox"/>	<input type="checkbox"/>	DoM	0	1	408,8354	0,104	0,7485

Step History

Step	Parameter	Action	"Sig Prob"	Seq SS	RSquare	Cp	p	AICc	BIC
1	Baths	Entered	0,0000	495319	0,6402	26,012	2	527,135	531,97 ○
2	Miles to Base	Entered	0,0015	59830,74	0,7176	13,607	3	518,659	524,885 ○
3	Acres	Entered	0,0021	45558,33	0,7765	4,6377	4	510,675	518,169 ○
4	Square Feet	Entered	0,0293	19597,28	0,8018	1,9194	5	507,935	516,564 ○
5	Beds	Entered	0,5906	1148,056	0,8033	3,643	6	510,413	520,032 ○
6	Cars	Entered	0,5668	1325,569	0,8050	5,3238	7	512,992	523,445 ○
7	DoM	Entered	0,6605	795,2096	0,8060	7,1324	8	515,897	527,014 ○
8	Years Old	Entered	0,7181	549,7775	0,8067	9	9	519,06	530,656 ○
9	Best	Specific	.	.	0,8018	1,9194	5	507,935	516,564 ●

1)

Stepwise Fit for Price

Stepwise Regression Control

Stopping Rule:

Minimum AICc

➡

Enter All

Make Model

Direction:

Forward

⬅

Remove All

Run Model

Go

Stop

Step

SSE	DFE	RMSE	RSquare	RSquare Adj	Cp	p	AICc	BIC
153342,58	40	61,915785	0,8018	0,7820	1,9193847	5	507,9345	516,564

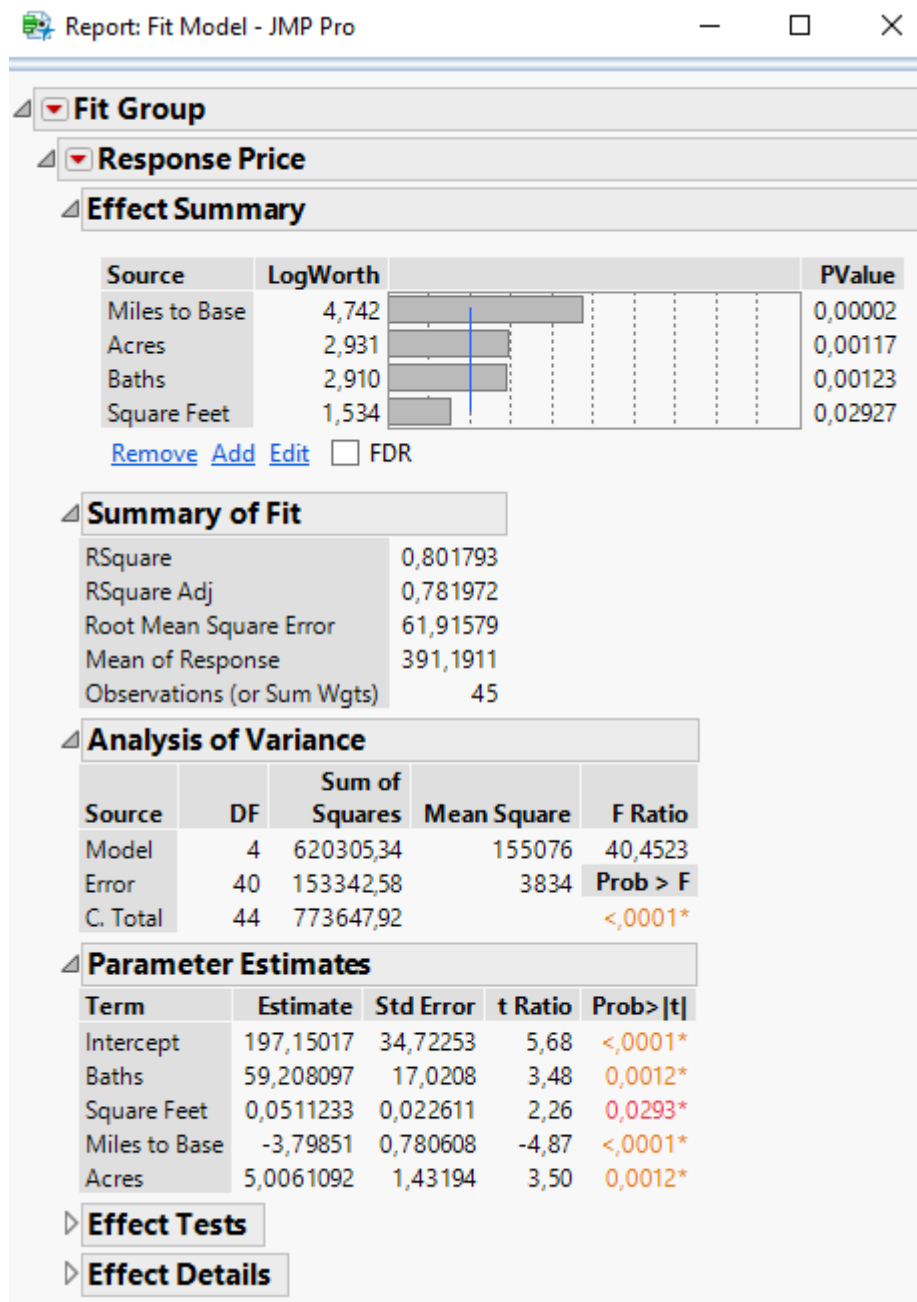
Current Estimates

Lock	Entered	Parameter	Estimate	nDF	SS	"F Ratio"	"Prob>F"
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Intercept	197,150171	1	0	0,000	1
<input type="checkbox"/>	<input type="checkbox"/>	Beds	0	1	1148,056	0,294	0,59063
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Baths	59,2080973	1	46387,91	12,100	0,00123
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Square Feet	0,05112326	1	19597,28	5,112	0,02927
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Miles to Base	-3,7985104	1	90774,52	23,679	1,81e-5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Acres	5,00610917	1	46854,78	12,222	0,00117
<input type="checkbox"/>	<input type="checkbox"/>	Cars	0	1	311,3432	0,079	0,77968
<input type="checkbox"/>	<input type="checkbox"/>	Years Old	0	1	969,519	0,248	0,62118
<input type="checkbox"/>	<input type="checkbox"/>	DoM	0	1	408,8354	0,104	0,7485

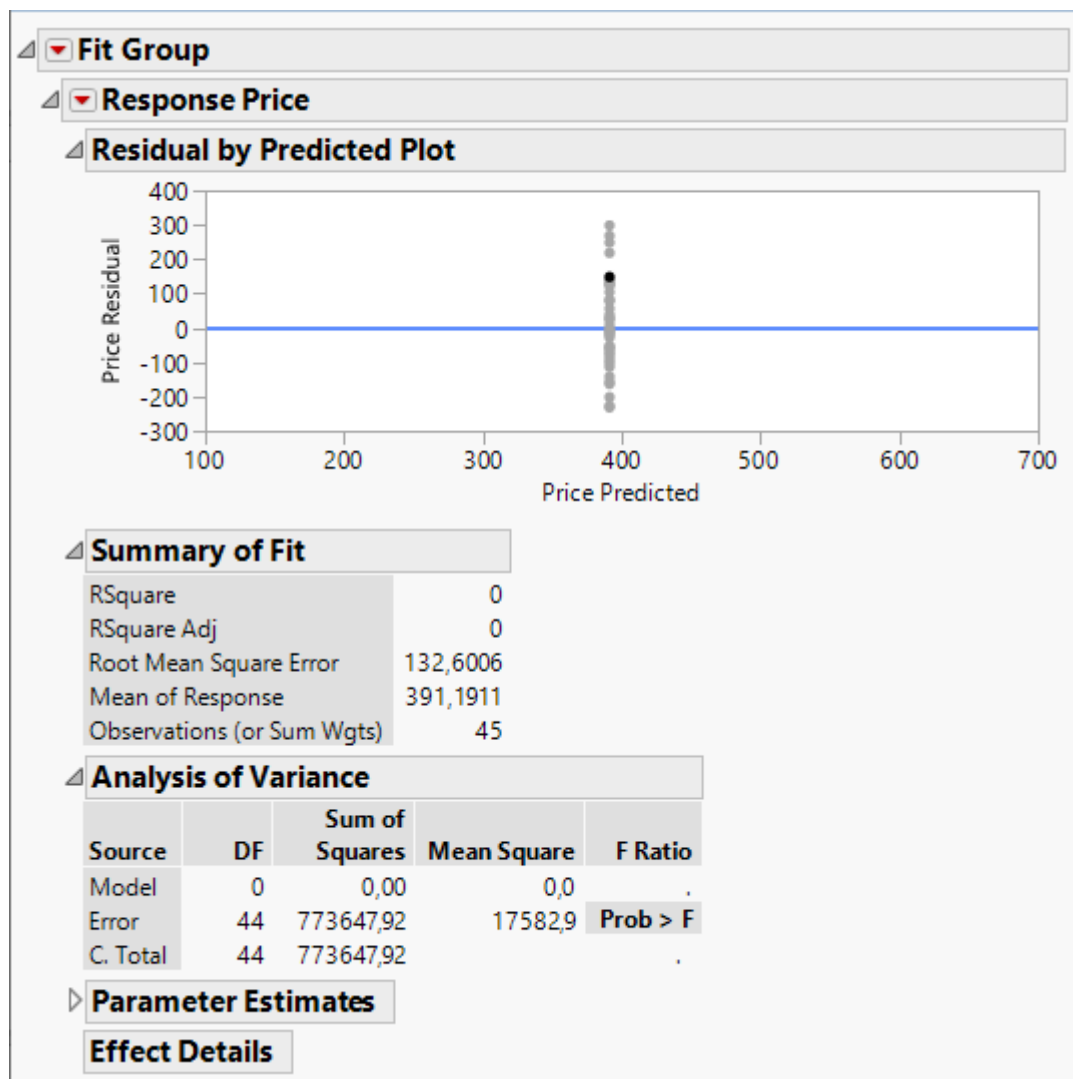
Step History

Step	Parameter	Action	"Sig Prob"	Seq SS	RSquare	Cp	p	AICc	BIC	
1	Baths	Entered	0,0000	495319	0,6402	26,012	2	527,135	531,97	<input type="radio"/>
2	Miles to Base	Entered	0,0015	59830,74	0,7176	13,607	3	518,659	524,885	<input type="radio"/>
3	Acres	Entered	0,0021	45558,33	0,7765	4,6377	4	510,675	518,169	<input type="radio"/>
4	Square Feet	Entered	0,0293	19597,28	0,8018	1,9194	5	507,935	516,564	<input type="radio"/>
5	Beds	Entered	0,5906	1148,056	0,8033	3,643	6	510,413	520,032	<input type="radio"/>
6	Cars	Entered	0,5668	1325,569	0,8050	5,3238	7	512,992	523,445	<input type="radio"/>
7	DoM	Entered	0,6605	795,2096	0,8060	7,1324	8	515,897	527,014	<input type="radio"/>
8	Years Old	Entered	0,7181	549,7775	0,8067	9	9	519,06	530,656	<input type="radio"/>
9	Best	Specific	.	.	0,8018	1,9194	5	507,935	516,564	<input type="radio"/>
10	All	Removed	.	.	-0,000	143,27	1	570,84	574,167	<input type="radio"/>
11	Baths	Entered	0,0000	495319	0,6402	26,012	2	527,135	531,97	<input type="radio"/>
12	Miles to Base	Entered	0,0015	59830,74	0,7176	13,607	3	518,659	524,885	<input type="radio"/>
13	Acres	Entered	0,0021	45558,33	0,7765	4,6377	4	510,675	518,169	<input type="radio"/>
14	Square Feet	Entered	0,0293	19597,28	0,8018	1,9194	5	507,935	516,564	<input type="radio"/>
15	Beds	Entered	0,5906	1148,056	0,8033	3,643	6	510,413	520,032	<input type="radio"/>
16	Cars	Entered	0,5668	1325,569	0,8050	5,3238	7	512,992	523,445	<input type="radio"/>
17	DoM	Entered	0,6605	795,2096	0,8060	7,1324	8	515,897	527,014	<input type="radio"/>
18	Years Old	Entered	0,7181	549,7775	0,8067	9	9	519,06	530,656	<input type="radio"/>
19	Best	Specific	.	.	0,8018	1,9194	5	507,935	516,564	<input checked="" type="radio"/>

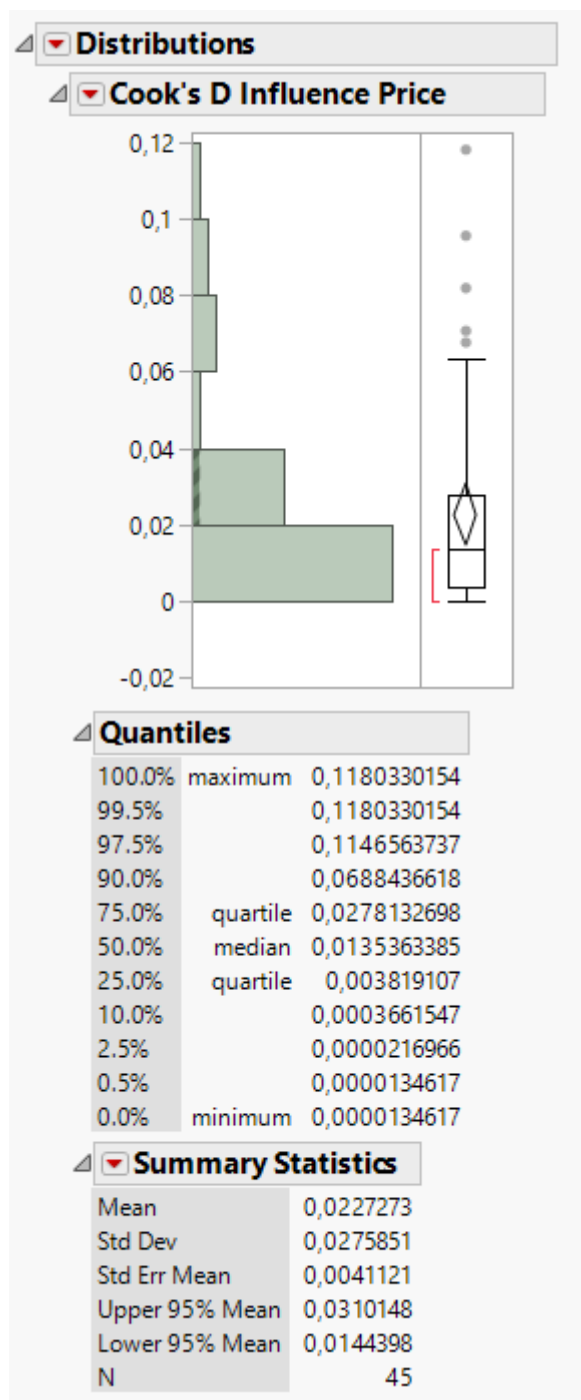
m)



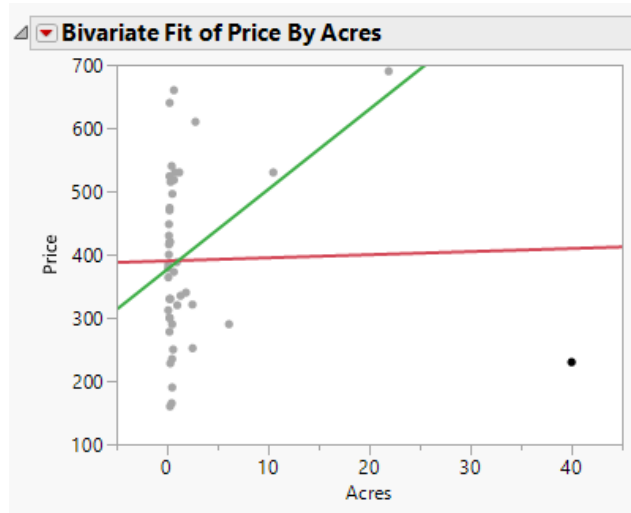
Examining Residuals



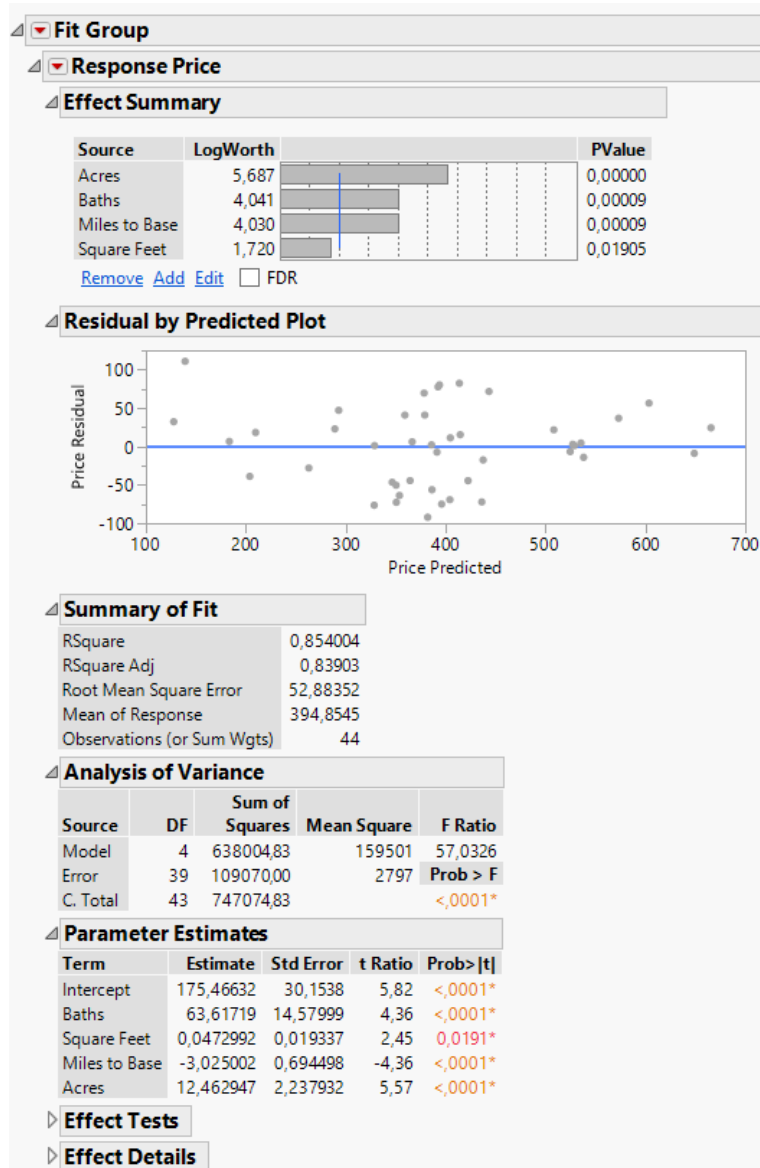
b)



d)



i)



k)

