Forward Selection Results | 2 Interaction Limit 5 fold CV

The GLMSELECT Procedure

WORK.WORKING
SalePrice
Forward
SBC
SBC
Cross Validation
Split
5
Single

Number of Observations Read	2919
Number of Observations Used	2919
Number of Observations Used for Training	1460
Number of Observations Used for Testing	1459

	Class Level Information								
Class	Levels	Values							
Neighborhood	25	Blmngtn Blueste BrDale BrkSide ClearCr CollgCr Crawfor Edwards Gilbert IDOTRR MeadowV Mitchel NPkVill NWAmes NoRidge NridgHt OldTown SWISU Sawyer SawyerW Somerst StoneBr Timber Veenker NAmes							
OverallQual	10	1 2 3 4 5 6 7 8 9 10							
OverallCond	9	123456789							
MSZoning	6	C FV NA RH RL RM							

Dimensions	
Number of Effects	16
Number of Parameters	552

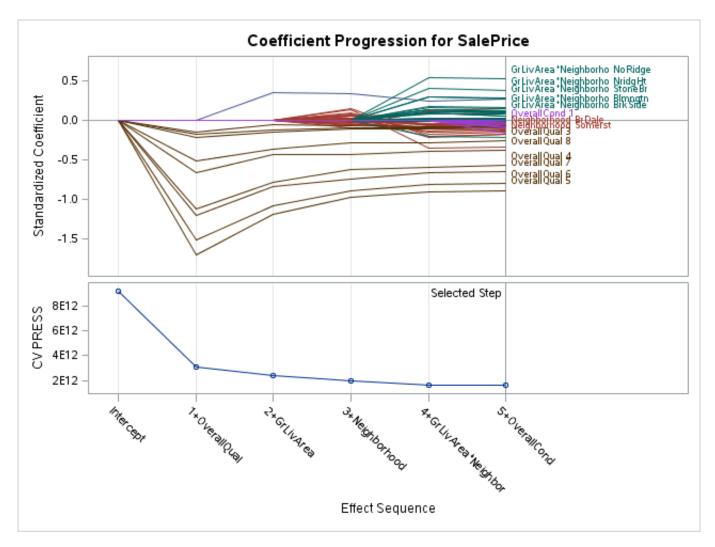
Forward Selection Results | 2 Interaction Limit 5 fold CV

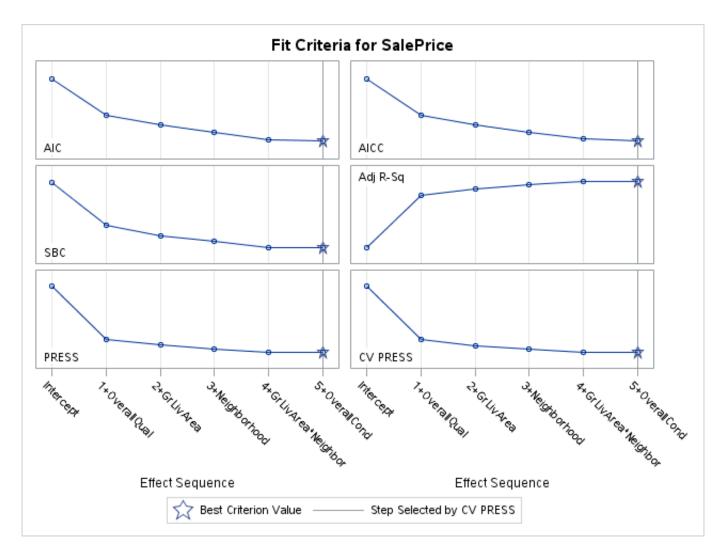
The GLMSELECT Procedure

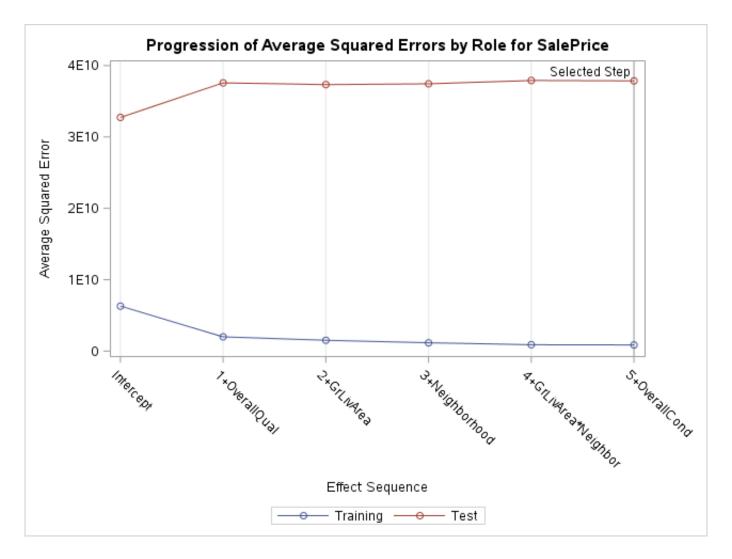
	Forward Selection Summary										
Step	Effect Entered	Number Effects In	Number Parms In	Model R-Square	SBC	PRESS	ASE	Test ASE	CV PRESS		
0	Intercept	1	1	0.0000	32952.0292	9.22054E12	6306788585	3.27325E10	9.21717E12		
1	OverallQual	2	10	0.6842	31334.8280	2.99435E12	1991801855	3.75834E10	3.04585E12		
2	GrLivArea	3	11	0.7597	30943.1141	2.31563E12	1515509915	3.73387E10	2.41904E12		
3	Neighborhood	4	35	0.8159	30728.9455	1.83962E12	1161007459	3.74487E10	1.96917E12		
4	GrLivArea*Neighborho	5	59	0.8581	30523.7195	1.47962E12	894893459	3.79102E10	1.64475E12		
5	OverallCond	6	67	0.8646	30513.3098*	1.42379E12*	853760216	3.78647E10	1.61033E12*		
				* Optimal V	alue of Criterio	n					

Selection stopped at a local minimum of the SBC criterion.

	Stop Details							
Candidate For	Effect	Candidate SBC		Compare SBC				
Entry	GrLivArea*OverallCon	30523.3746	>	30513.3098				







Forward Selection Results | 2 Interaction Limit 5 fold CV

The GLMSELECT Procedure Selected Model

The selected model, based on Cross Validation, is the model at Step 5.

Effects: Intercept GrLivArea Neighborhood GrLivArea*Neighborho OverallQual OverallCond

Note: The p-values for parameters and effects are not adjusted for the fact that the terms in the model have been selected and so are generally liberal.

Analysis of Variance									
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F				
Model	66	7.961421E12	1.206276E11	134.81	<.0001				
Error	1393	1.24649E12	894824060						
Corrected Total	1459	9.207911E12							

Root MSE	29914
Dependent Mean	180921
R-Square	0.8646

Adj R-Sq	0.8582
AIC	31621
AICC	31628
PRESS	1.423788E12
SBC	30513
ASE (Train)	853760216
ASE (Test)	37864654203
CV PRESS	1.610327E12

Cross Validation Details									
	Obse	rvations							
Index	Fitted	Left Out	CV PRESS						
1	1168	292	2.42951E11						
2	1168	292	2.62591E11						
3	1168	292	2.50474E11						
4	1168	292	6.26581E11						
5	1168	292	2.2773E11						
Total			1.61033E12						

				Paramet	er Estima	tes				
			Standard				Cross	Validation Es	timates	
Parameter	DF	Estimate	Error	t Value	Pr > t	1	2	3	4	5
Intercept	1	265394	12879	20.61	<.0001	239063.14	2.59E+05	276281.39	2.90E+05	274167.12
GrLivArea	1	41.310241	5.015060	8.24	<.0001	40.10	4.38E+01	38.41	4.39E+01	41.12
Neighborhood Blmngtn	1	-103591	78009	-1.33	0.1844	-129988.87	-1.20E+05	-103744.34	-1.07E+05	-15970.35
Neighborhood Blueste	1	-78091	181540	-0.43	0.6671	-79086.06	-1.50E+04	-83169.02	-7.40E+04	-27069.07
Neighborhood BrDale	1	-78951	58384	-1.35	0.1765	-79003.54	-7.99E+04	-87491.87	-7.24E+04	-83170.50
Neighborhood BrkSide	1	-49003	15380	-3.19	0.0015	-46045.76	-4.67E+04	-48329.25	-5.12E+04	-53664.85
Neighborhood ClearCr	1	56101	23856	2.35	0.0188	62800.35	5.29E+04	48069.01	5.53E+04	50921.11
Neighborhood CollgCr	1	-14766	11112	-1.33	0.1841	-16044.32	-1.93E+04	-3043.98	-2.04E+04	-11267.88
Neighborhood Crawfor	1	-20061	16116	-1.24	0.2134	-28547.17	-2.36E+04	-20119.66	-8.10E+03	-13565.57
Neighborhood Edwards	1	45762	9881.851673	4.63	<.0001	44533.07	4.75E+04	47808.62	-1.78E+04	53465.54
Neighborhood Gilbert	1	-15992	20280	-0.79	0.4305	-18790.41	-1.72E+04	-29970.75	-1.94E+04	3979.99
Neighborhood IDOTRR	1	-38258	22496	-1.70	0.0892	-19521.19	-3.57E+04	-46570.11	-5.47E+04	-32332.01
Neighborhood MeadowV	1	-18536	19673	-0.94	0.3462	-15805.89	-1.64E+04	-21225.51	-2.49E+04	-12185.17
Neighborhood Mitchel	1	89.403710	16836	0.01	0.9958	-3427.71	1.27E+04	-4488.60	-2.74E+03	-573.46
Neighborhood NPkVill	1	9131.523752	57151	0.16	0.8731	4241.12	1.59E+04	4674.97	1.26E+04	11070.98
Neighborhood NWAmes	1	-8693.889554	16699	-0.52	0.6027	-21196.59	9.36E+03	-12726.51	-3.13E+03	-11450.68
Neighborhood NoRidge	1	-161214	23041	-7.00	<.0001	-180903.25	-1.38E+05	-161318.23	-1.47E+05	-156480.45
Neighborhood NridgHt	1	-61836	17885	-3.46	0.0006	-74510.79	-5.86E+04	-86655.34	-1.55E+04	-65018.23

Neighborhood OldTown	1	-24686	10362	-2.38	0.0173	-18453.28	-2.50E+04	-27993.73	-2.33E+04	-26410.03
Neighborhood SWISU	1	-26806	20641	-1.30	0.1943	-30907.04	-1.11E+04	-31724.47	-2.43E+04	-27310.95
Neighborhood Sawyer	1	2674.826976	14528	0.18	0.8540	6235.74	-1.96E+03	4114.12	3.12E+03	4904.15
Neighborhood SawyerW	1	-27392	14786	-1.85	0.0642	-30036.50	-2.89E+04	-31765.47	-1.39E+04	-27172.77
Neighborhood Somerst	1	-59756	19466	-3.07	0.0022	-73457.52	-5.58E+04	-88089.30	-4.68E+04	-36798.30
Neighborhood StoneBr	1	-94591	22740	-4.16	<.0001	-86280.74	-9.91E+04	-76004.24	-1.41E+05	-58057.18
Neighborhood Timber	1	-17906	23572	-0.76	0.4476	-28974.15	-7.25E+03	-12114.42	-6.03E+03	-41858.86
Neighborhood Veenker	1	-42467	48041	-0.88	0.3769	-44734.66	-2.35E+04	-30407.11	-2.31E+04	-74656.06
Neighborhood NAmes	0	0				0.00	0.00E+00	0.00	0.00E+00	0.00
GrLivArea*Neighborho Blmngtn	1	83.731962	54.353020	1.54	0.1237	106.09	9.74E+01	81.97	8.61E+01	14.44
GrLivArea*Neighborho Blueste	1	41.258566	129.467911	0.32	0.7500	42.46	0.00E+00	44.15	3.86E+01	0.00
GrLivArea*Neighborho BrDale	1	38.613451	50.419574	0.77	0.4439	39.18	3.96E+01	43.20	3.27E+01	45.09
GrLivArea*Neighborho BrkSide	1	26.920990	11.888519	2.26	0.0237	27.07	2.42E+01	25.70	2.73E+01	31.47
GrLivArea*Neighborho ClearCr	1	-9.223447	13.319438	-0.69	0.4888	-14.14	-1.03E+01	-5.66	-4.80E+00	-4.81
GrLivArea*Neighborho CollgCr	1	26.163109	7.650677	3.42	0.0006	28.51	2.87E+01	15.98	2.98E+01	24.97
GrLivArea*Neighborho Crawfor	1	24.695256	9.267105	2.66	0.0078	31.33	2.32E+01	26.60	1.70E+01	21.85
GrLivArea*Neighborho Edwards	1	-45.850807	6.910627	-6.63	<.0001	-43.48	-4.74E+01	-48.87	3.22E+00	-49.89
GrLivArea*Neighborho Gilbert	1	20.049777	12.411079	1.62	0.1064	23.07	2.09E+01	26.32	2.17E+01	9.06
GrLivArea*Neighborho IDOTRR	1	6.059202	18.853419	0.32	0.7480	-6.25	2.40E-01	13.76	1.86E+01	1.10
GrLivArea*Neighborho MeadowV	1	-5.468708	16.651483	-0.33	0.7426	-4.98	-6.76E+00	-6.20	-7.39E-01	-9.32
GrLivArea*Neighborho Mitchel	1	7.736907	12.479593	0.62	0.5354	10.60	-3.09E+00	11.29	1.02E+01	9.16
GrLivArea*Neighborho NPkVill	1	-12.776816	44.821529	-0.29	0.7756	-7.44	-1.78E+01	-10.78	-1.51E+01	-14.29
GrLivArea*Neighborho NWAmes	1	10.536221	9.868898	1.07	0.2859	18.05	-8.11E-01	12.81	8.06E+00	11.35
GrLivArea*Neighborho NoRidge	1	97.390721	9.920529	9.82	<.0001	109.46	8.51E+01	97.71	9.00E+01	94.37
GrLivArea*Neighborho NridgHt	1	68.929160	9.940029	6.93	<.0001	79.17	6.95E+01	79.02	3.90E+01	71.43
GrLivArea*Neighborho OldTown	1	-4.531655	7.003096	-0.65	0.5177	-8.06	-4.18E+00	-1.29	-6.99E+00	-4.09
GrLivArea*Neighborho SWISU	1	0.676895	11.327341	0.06	0.9524	3.32	-8.12E+00	3.31	-1.14E+00	1.47
GrLivArea*Neighborho Sawyer	1	-2.170988	11.329144	-0.19	0.8481	-4.85	2.27E+00	-3.21	-3.98E+00	-3.12
GrLivArea*Neighborho SawyerW	1	27.668620	9.263497	2.99	0.0029	30.06	2.75E+01	31.40	1.76E+01	28.41

GrLivArea*Neighborho Somerst	1	56.896660	12.204382	4.66	<.0001	68.95	5.40E+01	72.83	4.88E+01	41.35
GrLivArea*Neighborho StoneBr	1	90.043318	12.005530	7.50	<.0001	91.71	9.22E+01	82.91	1.07E+02	70.09
GrLivArea*Neighborho Timber	1	34.194447	13.526821	2.53	0.0116	42.99	2.93E+01	26.90	2.47E+01	51.49
GrLivArea*Neighborho Veenker	1	60.075963	30.737062	1.95	0.0508	61.90	4.48E+01	52.36	4.48E+01	85.72
GrLivArea*Neighborho NAmes	0	0				0.00	0.00E+00	0.00	0.00E+00	0.00
OverallQual 1	1	-150964	33762	-4.47	<.0001	-130377.12	-1.42E+05	-159784.87	-2.54E+05	-156526.23
OverallQual 2	1	-166437	21533	-7.73	<.0001	-147842.98	-1.73E+05	-172393.62	-1.94E+05	-175959.33
OverallQual 3	1	-175966	11791	-14.92	<.0001	-149724.22	-1.67E+05	-184399.32	-1.99E+05	-189619.64
OverallQual 4	1	-166740	9806.731511	-17.00	<.0001	-144509.97	-1.58E+05	-175841.10	-1.92E+05	-175933.50
OverallQual 5	1	-158494	9291.389424	-17.06	<.0001	-134179.76	-1.51E+05	-167417.97	-1.86E+05	-168491.63
OverallQual 6	1	-145714	9117.898007	-15.98	<.0001	-121288.57	-1.37E+05	-152438.85	-1.76E+05	-156019.65
OverallQual 7	1	-125581	8891.812001	-14.12	<.0001	-103075.84	-1.18E+05	-131233.89	-1.56E+05	-134695.00
OverallQual 8	1	-94584	8703.104331	-10.87	<.0001	-72183.90	-8.72E+04	-99646.87	-1.23E+05	-104147.44
OverallQual 9	1	-32342	9230.643347	-3.50	0.0005	-8548.51	-2.60E+04	-34916.73	-6.54E+04	-42495.86
OverallQual 10	0	0				0.00	0.00E+00	0.00	0.00E+00	0.00
OverallCond 1	1	-95087	44895	-2.12	0.0344	0.00	-1.00E+05	-93852.49	0.00E+00	-102173.73
OverallCond 2	1	-36836	15557	-2.37	0.0180	-32926.12	-3.52E+04	-37917.87	-5.47E+04	-33749.42
OverallCond 3	1	-48916	9548.614924	-5.12	<.0001	-45775.50	-5.38E+04	-50281.12	-4.28E+04	-48921.22
OverallCond 4	1	-35645	8079.004095	-4.41	<.0001	-33458.30	-4.09E+04	-31693.30	-3.67E+04	-35612.26
OverallCond 5	1	-25374	7021.474527	-3.61	0.0003	-22585.12	-3.02E+04	-23775.30	-2.36E+04	-25155.87
OverallCond 6	1	-19065	7103.844474	-2.68	0.0074	-16165.57	-2.37E+04	-18150.59	-1.79E+04	-17612.62
OverallCond 7	1	-12282	7131.148474	-1.72	0.0852	-9670.83	-1.62E+04	-9937.74	-1.34E+04	-10540.84
OverallCond 8	1	-12392	7641.493161	-1.62	0.1051	-11013.30	-1.46E+04	-12345.32	-1.25E+04	-9537.72
OverallCond 9	0	0				0.00	0.00E+00	0.00	0.00E+00	0.00