

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Run Summary Report**

Item	Value	Rows	Value
Dependent Variable	Ln_Sale_Price	Number Processed	1816
Number Ind. Variables	24	Number Used in Estimation	1040
Weight Variable	None	Number Filtered Out	0
Robust Method	Huber's Method	Number with X's Missing	776
Tuning Constant	1.345	Number with Weight Missing	0
MAD Scale Factor	0.6745	Number with Y Missing	0
		Sum of Robust Weights	994.587
<b>Run Information</b>	<b>Value</b>		
Iterations	12		
Max % Change in any Coef	0.000		
R <sup>2</sup> after Robust Weighting	0.3986		
S using MAD	0.65		
S using MSE	0.60		
Completion Status	Warnings Issued		

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Descriptive Statistics**

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
LNBlock_area_sqm	1040	6.632	0.474	0	8.88516409509682
LNHouse_area_sqm	1040	4.262	1.707	0	5.29831736654804
LNHouse_Floor_area_sqm	1040	4.721	0.584	0	5.73334127689775
LNBedrooms	1040	1.016	0.313	0	1.6094379124341
LNBedrooms	1040	0.099	0.249	0	1.09861228866811
LNCarSpaces	1040	0.385	0.462	0	1.6094379124341
LnDistMM	1040	7.571	0.393	6.09333954264191	8.38397347958564
LNDistToRailwayStation	1040	7.301	0.773	3.19976255695723	8.39451486977514
LNDIST_PubPrimSch	1040	7.292	0.657	2.90918641528462	8.37844064597854
LNNearestHighSch	1040	7.148	0.551	5.0820970759365	8.35287157994558
LNDistance_to_AqCentre	1040	8.232	0.170	7.73138562428694	8.78930796250832
LNDistance_to_Clink	1040	7.342	0.583	3.44053910704444	8.45129896794273
LN_Dist_toCSUni	1040	7.997	0.518	5.56992793801675	8.74045412640072
LNMinParkDist	1040	6.736	0.688	3.3535067914896	7.99513540610637
LNComHealthCentre	1040	7.442	0.612	4.94249433248816	8.6478017782273
LNClosest_Petrol	1040	6.662	0.647	3.28920070606287	8.15695912932389
LNNearestFastFood	1040	6.959	0.633	4.0130174068459	8.17677374941964
LNDistToHosp	1040	7.363	0.682	5.15878670567525	8.51247526729416
LNNearestSGrocShop	1040	7.220	0.524	4.36535692945826	8.10147112914078
Dummy_2000	1040	0.633	0.472	0	1
Dummy_2005	1040	0.278	0.438	0	1
Dummy_2010	1040	0.089	0.279	0	1
Dummy_2015	1040	0.131	0.330	0	1
Dummy_2019	1040	0.147	0.346	0	1
Ln_Sale_Price	1040	11.821	0.768	8.97716794922457	13.8318441260068

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Iterations - Coefficients**

Robust Iteration	Max Percent Change in Coefficients	b(0)	b(1)	b(2)	b(3)
0		10.89527	0.06573	0.00876	0.02948
1	408.199	10.33397	0.05918	0.00821	0.03209
2	1607.307	8.58136	0.05849	0.00828	0.03114
3	148.404	8.04143	0.05843	0.00835	0.03077
4	306.089	8.46271	0.05848	0.00838	0.03060
5	4.046	8.45670	0.05849	0.00839	0.03056
6	281.131	7.61211	0.05849	0.00839	0.03055
7	917.937	8.45477	0.05849	0.00839	0.03055
8	158.597	7.97906	0.05850	0.00839	0.03055
9	597.317	9.02864	0.05850	0.00839	0.03055
10	194.783	7.91056	0.05850	0.00839	0.03055
11	262.632	8.45462	0.05850	0.00839	0.03055
12	0.000	8.45462	0.05850	0.00839	0.03055

**Robust Iterations - Residuals**

Robust Iteration	Max Percent Change in Coefficients	Percentiles of Absolute Residuals			
		25th	50th	75th	100th
0		0.205	0.444	0.764	3.355
1	408.199	0.206	0.441	0.746	3.445
2	1607.307	0.207	0.443	0.747	3.460
3	148.404	0.207	0.444	0.747	3.463
4	306.089	0.207	0.445	0.747	3.463
5	4.046	0.207	0.445	0.747	3.463
6	281.131	0.207	0.445	0.747	3.464
7	917.937	0.207	0.445	0.747	3.464
8	158.597	0.207	0.445	0.747	3.464
9	597.317	0.207	0.445	0.747	3.464
10	194.783	0.207	0.445	0.747	3.464
11	262.632	0.207	0.445	0.747	3.464
12	0.000	0.207	0.445	0.747	3.464

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Regression Coefficients T-Tests Assuming Fixed Weights**

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Standardized Coefficient	T-Statistic to Test H0: $\beta(i)=0$	Prob Level	Reject H0 at 5%?
Intercept	8.45462	3.545494	0.0000	2.385	0.0173	Yes
LNBlock_area_sqm	0.05850	0.045539	0.0361	1.285	0.1993	No
LNHouse_area_sqm	0.00839	0.012187	0.0187	0.689	0.4911	No
LNHouse_Floor_area_sqm	0.03055	0.033307	0.0232	0.917	0.3593	No
LNBedrooms	0.77918	0.065505	0.3181	11.895	0.0000	Yes
LNBedrooms	-0.01069	0.081612	-0.0035	-0.131	0.8958	No
LNCarSpaces	0.23386	0.044141	0.1407	5.298	0.0000	Yes
LnDistMM	0.08878	0.111224	0.0455	0.798	0.4249	No
LNDistToRailwayStation	-0.15918	0.065603	-0.1603	-2.426	0.0154	Yes
LNDIST_PubPrimSch	-0.12954	0.061163	-0.1109	-2.118	0.0344	Yes
LNNearestHighSch	-0.04992	0.060110	-0.0358	-0.831	0.4065	No
LNDistance_to_AqCentre	0.07472	0.585331	0.0165	0.128	0.8984	No
LNDistance_to_Clink	0.15280	0.100223	0.1161	1.525	0.1277	No
LN_Dist_toCSUni	0.08951	0.088341	0.0604	1.013	0.3112	No
LNMinParkDist	-0.00371	0.046562	-0.0033	-0.080	0.9364	No
LNComHealthCentre	0.03224	0.083807	0.0257	0.385	0.7006	No
LNClosest_Petrol	0.03775	0.046631	0.0318	0.810	0.4184	No
LNNearestFastFood	0.00103	0.066919	0.0008	0.015	0.9877	No
LNDistToHosp	0.00193	0.078025	0.0017	0.025	0.9803	No
LNNearestSGrocShop	0.16280	0.102177	0.1111	1.593	0.1114	No
Dummy_2000	-0.75122	0.075239	-0.4616	-9.984	0.0000	Yes
Dummy_2005	-0.29988	0.074130	-0.1713	-4.045	0.0001	Yes
Dummy_2010	0.00000	0.000000	0.0000	0.000	1.0000	No
Dummy_2015	0.55201	0.066399	0.2375	8.313	0.0000	Yes
Dummy_2019	0.54222	0.063128	0.2445	8.589	0.0000	Yes



**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Regression Coefficients T-Tests Assuming Random Weights**

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Standardized Coefficient	T-Statistic to Test H0: $\beta(i)=0$	Prob Level	Reject H0 at 5%?
Intercept	8.45462	3.837512	0.0000	2.203	0.0278	Yes
LNBlock_area_sqm	0.05850	0.050184	0.0361	1.166	0.2440	No
LNHouse_area_sqm	0.00839	0.013393	0.0187	0.627	0.5309	No
LNHouse_Floor_area_sqm	0.03055	0.036350	0.0232	0.840	0.4009	No
LNBedrooms	0.77918	0.071107	0.3181	10.958	0.0000	Yes
LNBedrooms	-0.01069	0.089177	-0.0035	-0.120	0.9046	No
LNCarSpaces	0.23386	0.048819	0.1407	4.790	0.0000	Yes
LnDistMM	0.08878	0.122882	0.0455	0.723	0.4702	No
LNDistToRailwayStation	-0.15918	0.071152	-0.1603	-2.237	0.0255	Yes
LNDIST_PubPrimSch	-0.12954	0.067702	-0.1109	-1.913	0.0560	No
LNNearestHighSch	-0.04992	0.066011	-0.0358	-0.756	0.4497	No
LNDistance_to_AqCentre	0.07472	0.635397	0.0165	0.118	0.9064	No
LNDistance_to_Clink	0.15280	0.110224	0.1161	1.386	0.1660	No
LN_Dist_toCSUni	0.08951	0.096527	0.0604	0.927	0.3540	No
LNMinParkDist	-0.00371	0.051401	-0.0033	-0.072	0.9424	No
LNComHealthCentre	0.03224	0.091860	0.0257	0.351	0.7257	No
LNClosest_Petrol	0.03775	0.051651	0.0318	0.731	0.4650	No
LNNearestFastFood	0.00103	0.074036	0.0008	0.014	0.9889	No
LNDistToHosp	0.00193	0.086317	0.0017	0.022	0.9822	No
LNNearestSGrocShop	0.16280	0.112854	0.1111	1.443	0.1494	No
Dummy_2000	-0.75122	0.083437	-0.4616	-9.003	0.0000	Yes
Dummy_2005	-0.29988	0.082269	-0.1713	-3.645	0.0003	Yes
Dummy_2010	0.00000	0.000000	0.0000	0.000	1.0000	No
Dummy_2015	0.55201	0.073220	0.2375	7.539	0.0000	Yes
Dummy_2019	0.54222	0.069339	0.2445	7.820	0.0000	Yes

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Regression Coefficients Confidence Intervals Assuming Fixed Weights**

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Lower 95% Conf. Limit of $\beta(i)$	Upper 95% Conf. Limit of $\beta(i)$
Intercept	8.45462	3.545494	1.50558	15.40366
LNBlock_area_sqm	0.05850	0.045539	-0.03076	0.14775
LNHouse_area_sqm	0.00839	0.012187	-0.01549	0.03228
LNHouse_Floor_area_sqm	0.03055	0.033307	-0.03473	0.09583
LNBedrooms	0.77918	0.065505	0.65079	0.90757
LNBedrooms	-0.01069	0.081612	-0.17065	0.14926
LNCarSpaces	0.23386	0.044141	0.14735	0.32038
LnDistMM	0.08878	0.111224	-0.12921	0.30678
LNDistToRailwayStation	-0.15918	0.065603	-0.28776	-0.03060
LNDIST_PubPrimSch	-0.12954	0.061163	-0.24942	-0.00966
LNNearestHighSch	-0.04992	0.060110	-0.16774	0.06789
LNDistance_to_AqCentre	0.07472	0.585331	-1.07251	1.22195
LNDistance_to_Clink	0.15280	0.100223	-0.04363	0.34923
LN_Dist_toCSUni	0.08951	0.088341	-0.08364	0.26265
LNMinParkDist	-0.00371	0.046562	-0.09497	0.08754
LNComHealthCentre	0.03224	0.083807	-0.13202	0.19650
LNClosest_Petrol	0.03775	0.046631	-0.05364	0.12914
LNNearestFastFood	0.00103	0.066919	-0.13013	0.13219
LNDistToHosp	0.00193	0.078025	-0.15100	0.15485
LNNearestSGrocShop	0.16280	0.102177	-0.03746	0.36306
Dummy_2000	-0.75122	0.075239	-0.89868	-0.60375
Dummy_2005	-0.29988	0.074130	-0.44517	-0.15458
Dummy_2010	0.00000	0.000000		
Dummy_2015	0.55201	0.066399	0.42187	0.68215
Dummy_2019	0.54222	0.063128	0.41849	0.66594

Note: The T-Value used to calculate these confidence limits was 1.960.

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Regression Coefficients Confidence Intervals Assuming Random Weights**

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Lower 95% Conf. Limit of $\beta(i)$	Upper 95% Conf. Limit of $\beta(i)$
Intercept	8.45462	3.837512	0.93323	15.97600
LNBlock_area_sqm	0.05850	0.050184	-0.03986	0.15685
LNHouse_area_sqm	0.00839	0.013393	-0.01786	0.03464
LNHouse_Floor_area_sqm	0.03055	0.036350	-0.04070	0.10179
LNBedrooms	0.77918	0.071107	0.63981	0.91855
LNBedrooms	-0.01069	0.089177	-0.18548	0.16409
LNCarSpaces	0.23386	0.048819	0.13818	0.32955
LnDistMM	0.08878	0.122882	-0.15206	0.32963
LNDistToRailwayStation	-0.15918	0.071152	-0.29863	-0.01972
LNDIST_PubPrimSch	-0.12954	0.067702	-0.26223	0.00315
LNNearestHighSch	-0.04992	0.066011	-0.17930	0.07946
LNDistance_to_AqCentre	0.07472	0.635397	-1.17063	1.32008
LNDistance_to_Clink	0.15280	0.110224	-0.06323	0.36884
LN_Dist_toCSUni	0.08951	0.096527	-0.09968	0.27870
LNMinParkDist	-0.00371	0.051401	-0.10446	0.09703
LNComHealthCentre	0.03224	0.091860	-0.14781	0.21228
LNClosest_Petrol	0.03775	0.051651	-0.06348	0.13898
LNNearestFastFood	0.00103	0.074036	-0.14408	0.14614
LNDistToHosp	0.00193	0.086317	-0.16725	0.17110
LNNearestSGrocShop	0.16280	0.112854	-0.05839	0.38399
Dummy_2000	-0.75122	0.083437	-0.91475	-0.58768
Dummy_2005	-0.29988	0.082269	-0.46112	-0.13863
Dummy_2010	0.00000	0.000000		
Dummy_2015	0.55201	0.073220	0.40850	0.69552
Dummy_2019	0.54222	0.069339	0.40631	0.67812

Note: The T-Value used to calculate these confidence limits was 1.960.

## Robust Multiple Regression Report

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Estimated Equation

---

Ln\_Sale\_Price =  
 8.45461697248457 + 0.0584953608401584 \* LNBlock\_area\_sqm + 0.00839483394894115 \*  
 LNHouse\_area\_sqm + 0.0305482513431386 \* LNHouse\_Floor\_area\_sqm + 0.779181260731819 \* LNBedrooms  
 - 0.0106943582417225 \* LNBathrooms + 0.233863884510875 \* LNCarSpaces + 0.0887822797423366 \*  
 LnDistMM - 0.159177657258052 \* LNDistToRailwayStation - 0.129539069026592 \* LNDIST\_PubPrimSch -  
 0.0499215130785967 \* LNNearestHighSch + 0.0747223099791115 \* LNDistance\_to\_AqCentre +  
 0.152800420684214 \* LNDistance\_to\_Clink + 0.0895094932992639 \* LN\_Dist\_toCSUni - 0.00371466501974294  
 \* LNMinParkDist + 0.0322379041406897 \* LNComHealthCentre + 0.0377501411314502 \* LNClosest\_Petrol +  
 0.00102873630191185 \* LNNearestFastFood + 0.00192518305696598 \* LNDistToHosp + 0.162802034894571 \*  
 LNNearestSGrocShop - 0.751217917268894 \* Dummy\_2000 - 0.299876164838076 \* Dummy\_2005 + 0 \*  
 Dummy\_2010 + 0.55201022684723 \* Dummy\_2015 + 0.542215101189297 \* Dummy\_2019

---

### Analysis of Variance

---

Source	DF	R <sup>2</sup>	Sum of Squares	Mean Square	F-Ratio	Prob Level
Intercept	1		138971.77	138971.77		
Model	24	0.3986	244.00	10.17	28.031	0.0000
Error	1015	0.6014	368.12	0.36		
Total(Adjusted)	1039	1.0000	612.12	0.59		

---

### PRESS Report

---

Parameter	From PRESS Residuals	From Regular Residuals
Sum of Squared Residuals	503.34	368.12
Sum of  Residuals	559.85	547.71
R <sup>2</sup>	0.1777	0.3986

---

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Normality Tests**

Test Name	Test Statistic to Test H0: Normal	Prob Level	Reject H0 at 20%?
Shapiro Wilk	0.979	0.0000	Yes
Anderson Darling	3.441	0.0000	Yes
D'Agostino Skewness	-9.112	0.0000	Yes
D'Agostino Kurtosis	6.059	0.0000	Yes
D'Agostino Omnibus	119.735	0.0000	Yes

**Serial Correlation of Residuals**

Lag	Serial Correlation	Lag	Serial Correlation	Lag	Serial Correlation
1	0.0459	9	0.0731	17	-0.0319
2	0.0183	10	0.0615	18	0.0098
3	0.0463	11	-0.0372	19	-0.0128
4	0.0258	12	-0.0207	20	0.0157
5	0.0023	13	0.0148	21	0.0385
6	-0.0154	14	0.0234	22	-0.0423
7	-0.0324	15	0.0475	23	-0.0294
8	-0.0536	16	0.0113	24	-0.0163

Above serial correlations are significant if their absolute values are greater than 0.0620.

**Durbin-Watson Test For Serial Correlation**

Parameter	Test Statistic to Test H0: $\rho(1) = 0$ ?	Reject H0 at 20%?
Durbin-Watson Value	1.908	
Prob. Level: Positive Serial Correlation	0.0377	Yes
Prob. Level: Negative Serial Correlation	0.8766	No

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**R<sup>2</sup> Report**

Independent Variable (IV)	Total R <sup>2</sup> for this IV and IV's Above	Increase in R <sup>2</sup> if this IV Included with IV's Above	Decrease in R <sup>2</sup> if this IV was Removed	R <sup>2</sup> if this IV was Fit Alone	Partial R <sup>2</sup> if Adjusted for All Other IV's
LNBlock_area_sqm	0.0270	0.0270	0.0010	0.0270	0.0016
LNHouse_area_sqm	0.0576	0.0305	0.0003	0.0335	0.0005
LNHouse_Floor_area_sqm	0.0684	0.0108	0.0005	0.0189	0.0008
LNBedrooms	0.2255	0.1571	0.0838	0.1855	0.1223
LNBedrooms	0.2274	0.0019	0.0000	0.0272	0.0000
LNCarSpaces	0.2527	0.0253	0.0166	0.0828	0.0269
LnDistMM	0.2794	0.0267	0.0004	0.0622	0.0006
LNDistToRailwayStation	0.2846	0.0052	0.0035	0.0054	0.0058
LNDIST_PubPrimSch	0.2916	0.0071	0.0027	0.0311	0.0044
LNNearestHighSch	0.2918	0.0002	0.0004	0.0000	0.0007
LNDistance_to_AqCentre	0.2977	0.0059	0.0000	0.0143	0.0000
LNDistance_to_Clink	0.2991	0.0013	0.0014	0.0088	0.0023
LN_Dist_toCSUni	0.3008	0.0017	0.0006	0.0380	0.0010
LNMinParkDist	0.3027	0.0019	0.0000	0.0082	0.0000
LNComHealthCentre	0.3028	0.0001	0.0001	0.0000	0.0001
LNClosest_Petrol	0.3031	0.0004	0.0004	0.0315	0.0006
LNNearestFastFood	0.3051	0.0019	0.0000	0.0088	0.0000
LNDistToHosp	0.3051	0.0001	0.0000	0.0087	0.0000
LNNearestSGrocShop	0.3066	0.0014	0.0015	0.0495	0.0025
Dummy_2000	0.3279	0.0213	0.0591	0.0439	0.0894
Dummy_2005	0.3363	0.0084	0.0097	0.0141	0.0159
Dummy_2010	0.0000	0.0000	0.0000	0.0282	0.0000
Dummy_2015	0.3549	0.0186	0.0410	0.0184	0.0638
Dummy_2019	0.3986	0.0437	0.0437	0.0118	0.0678

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Variable Omission Report**

Independent Variable	R <sup>2</sup> When I.V. Omitted	MSE When I.V. Omitted	Mallow's Cp When I.V. Omitted	H0: $\beta(i)=0$ Prob Level	R <sup>2</sup> of Regress. of This I.V. on Other I.V.'s
Full Model	0.3986	0.36			
LNBlock_area_sqm	0.3976	0.36	24.650	0.1993	0.2499
LNHouse_area_sqm	0.3983	0.36	23.474	0.4911	0.1935
LNHouse_Floor_area_sqm	0.3981	0.36	23.841	0.3593	0.0767
LNBedrooms	0.3148	0.41	164.492	0.0000	0.1715
LNBedrooms	0.3986	0.36	23.017	0.8958	0.1575
LNCarSpaces	0.3820	0.37	51.070	0.0000	0.1602
LnDistMM	0.3982	0.36	23.637	0.4249	0.8174
LNDistToRailwayStation	0.3951	0.36	28.887	0.0154	0.8643
LNDIST_PubPrimSch	0.3960	0.36	27.486	0.0344	0.7840
LNNearestHighSch	0.3982	0.36	23.690	0.4065	0.6816
LNDistance_to_AqCentre	0.3986	0.36	23.016	0.8984	0.9646
LNDistance_to_Clink	0.3972	0.36	25.324	0.1277	0.8978
LN_Dist_toCSUni	0.3980	0.36	24.027	0.3112	0.8335
LNMinParkDist	0.3986	0.36	23.006	0.9364	0.6600
LNComHealthCentre	0.3985	0.36	23.148	0.7006	0.8672
LNClosest_Petrol	0.3982	0.36	23.655	0.4184	0.6163
LNNearestFastFood	0.3986	0.36	23.000	0.9877	0.8057
LNDistToHosp	0.3986	0.36	23.001	0.9803	0.8769
LNNearestSGrocShop	0.3971	0.36	25.539	0.1114	0.8781
Dummy_2000	0.3395	0.40	122.690	0.0000	0.7228
Dummy_2005	0.3889	0.37	39.364	0.0001	0.6694
Dummy_2010	0.3986	0.36	23.000	1.0000	
Dummy_2015	0.3577	0.39	92.114	0.0000	0.2740
Dummy_2019	0.3549	0.39	96.773	0.0000	0.2688

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Sum of Squares and Correlations**

Independent Variable	Sequential Sum of Squares	Incremental Sum of Squares	Last Sum of Squares	Simple Correlation	Partial Correlation
LNBlock_area_sqm	16.55	16.55	0.60	0.1644	0.0403
LNHouse_area_sqm	35.23	18.68	0.17	0.1830	0.0216
LNHouse_Floor_area_sqm	41.85	6.62	0.31	0.1375	0.0288
LNBedrooms	138.01	96.16	51.32	0.4307	0.3498
LNBedrooms	139.19	1.18	0.01	0.1649	-0.0041
LNCarSpaces	154.65	15.46	10.18	0.2878	0.1640
LnDistMM	171.01	16.36	0.23	0.2495	0.0250
LNDistToRailwayStation	174.18	3.18	2.14	0.0737	-0.0759
LNDIST_PubPrimSch	178.50	4.32	1.63	-0.1764	-0.0663
LNNearestHighSch	178.62	0.12	0.25	-0.0010	-0.0261
LNDistance_to_AqCentre	182.25	3.63	0.01	0.1197	0.0040
LNDistance_to_Clink	183.06	0.81	0.84	0.0937	0.0478
LN_Dist_toCSUni	184.10	1.04	0.37	0.1950	0.0318
LNMinParkDist	185.27	1.17	0.00	0.0903	-0.0025
LNComHealthCentre	185.33	0.06	0.05	0.0052	0.0121
LNClosest_Petrol	185.55	0.23	0.24	0.1775	0.0254
LNNearestFastFood	186.74	1.19	0.00	0.0938	0.0005
LNDistToHosp	186.79	0.05	0.00	-0.0935	0.0008
LNNearestSGrocShop	187.66	0.87	0.92	0.2224	0.0499
Dummy_2000	200.72	13.06	36.16	-0.2096	-0.2991
Dummy_2005	205.86	5.14	5.94	0.1186	-0.1260
Dummy_2010	0.00	0.00	0.00	0.1680	0.0000
Dummy_2015	217.24	11.38	25.07	0.1357	0.2525
Dummy_2019	244.00	26.76	26.76	0.1087	0.2603



**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Sequential Models Report**

Independent Variable	Included R <sup>2</sup>	Included F-Ratio	Included Prob Level	Omitted R <sup>2</sup>	Omitted F-Ratio	Omitted Prob Level
LNBlock_area_sqm	0.0270	28.847	0.0000	0.3716	27.266	0.0000
LNHouse_area_sqm	0.0576	31.665	0.0000	0.3411	26.164	0.0000
LNHouse_Floor_area_sqm	0.0684	25.344	0.0000	0.3302	26.541	0.0000
LNBedrooms	0.2255	75.319	0.0000	0.1731	14.612	0.0000
LNBedrooms	0.2274	60.865	0.0000	0.1712	15.209	0.0000
LNCarSpaces	0.2527	58.203	0.0000	0.1460	13.686	0.0000
LnDistMM	0.2794	57.155	0.0000	0.1192	11.838	0.0000
LNDistToRailwayStation	0.2846	51.259	0.0000	0.1140	12.030	0.0000
LNDIST_PubPrimSch	0.2916	47.113	0.0000	0.1070	12.038	0.0000
LNNearestHighSch	0.2918	42.399	0.0000	0.1068	12.876	0.0000
LNDistance_to_AqCentre	0.2977	39.622	0.0000	0.1009	13.096	0.0000
LNDistance_to_Clink	0.2991	36.514	0.0000	0.0996	14.002	0.0000
LN_Dist_toCSUni	0.3008	33.947	0.0000	0.0978	15.013	0.0000
LNMinParkDist	0.3027	31.778	0.0000	0.0959	16.192	0.0000
LNComHealthCentre	0.3028	29.644	0.0000	0.0958	17.974	0.0000
LNClosest_Petrol	0.3031	27.813	0.0000	0.0955	20.142	0.0000
LNNearestFastFood	0.3051	26.392	0.0000	0.0935	22.552	0.0000
LNDistToHosp	0.3051	24.910	0.0000	0.0935	26.290	0.0000
LNNearestSGrocShop	0.3066	23.734	0.0000	0.0920	31.067	0.0000
Dummy_2000	0.3279	24.858	0.0000	0.0707	29.832	0.0000
Dummy_2005	0.3363	24.563	0.0000	0.0623	35.052	0.0000
Dummy_2010	0.0000	0.000	1.0000	0.3986	336.377	0.0000
Dummy_2015	0.3549	24.302	0.0000	0.0437	73.773	0.0000
Dummy_2019	0.3986	28.031	0.0000	0.0000		

**Notes**

1. INCLUDED variables are those listed from current row up (includes current row).
2. OMITTED variables are those listed below (but not including) this row.

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Multicollinearity Report**

Independent Variable	Variance Inflation Factor	R <sup>2</sup> Versus Other I.V.'s	Tolerance	Diagonal of X'X Inverse
LNBlock_area_sqm	1.3331	0.2499	0.7501	0.00571800826562771
LNHouse_area_sqm	1.2400	0.1935	0.8065	0.00040951624515651
LNHouse_Floor_area_sqm	1.0830	0.0767	0.9233	0.00305868841940156
LNBedrooms	1.2070	0.1715	0.8285	0.0118309139179083
LNBedrooms	1.1869	0.1575	0.8425	0.0183645842504337
LNCarSpaces	1.1908	0.1602	0.8398	0.00537223536233572
LnDistMM	5.4763	0.8174	0.1826	0.0341092713780677
LNDistToRailwayStation	7.3685	0.8643	0.1357	0.0118664439779056
LNDIST_PubPrimSch	4.6297	0.7840	0.2160	0.0103144276203045
LNNearestHighSch	3.1404	0.6816	0.3184	0.0099624981186917
LNDistance_to_AqCentre	28.2711	0.9646	0.0354	0.94466388365485
LNDistance_to_Clink	9.7863	0.8978	0.1022	0.0276955730165048
LN_Dist_toCSUni	6.0072	0.8335	0.1665	0.0215176681668781
LNMinParkDist	2.9415	0.6600	0.3400	0.0059776701586546
LNComHealthCentre	7.5323	0.8672	0.1328	0.0193655248332346
LNClosest_Petrol	2.6059	0.6163	0.3837	0.00599540901803708
LNNearestFastFood	5.1474	0.8057	0.1943	0.0123473654361854
LNDistToHosp	8.1221	0.8769	0.1231	0.0167859151523984
LNNearestSGrocShop	8.2052	0.8781	0.1219	0.0287856334565394
Dummy_2000	3.6073	0.7228	0.2772	0.0156082836120305
Dummy_2005	3.0248	0.6694	0.3306	0.0151517404185611
Dummy_2010	0.0000			0
Dummy_2015	1.3774	0.2740	0.7260	0.0121562692273227
Dummy_2019	1.3676	0.2688	0.7312	0.0109879962245818

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1	10.690	10.690	0.000	0.001	1.0000
2	12.708	11.511	1.197	9.422	0.7255
3	12.884	11.960	0.923	7.167	0.9408
4	12.133	11.774	0.358	2.953	1.0000
5	12.764	12.157	0.606	4.751	1.0000
6	10.731	10.649	0.082	0.762	1.0000
7	10.953	11.171	-0.218	1.990	1.0000
8	10.672	11.022	-0.350	3.279	1.0000
9	11.856	10.514	1.342	11.318	0.6474
10	10.827	10.942	-0.115	1.061	1.0000
11	11.411	11.633	-0.221	1.941	1.0000
12	11.244	11.480	-0.236	2.098	1.0000
13	12.364	11.396	0.968	7.828	0.8975
14	11.651	11.647	0.004	0.032	1.0000
15	11.763	11.706	0.057	0.482	1.0000
16	10.314	10.548	-0.233	2.262	1.0000
17	10.933	11.425	-0.492	4.504	1.0000
18	11.855	11.208	0.647	5.458	1.0000
19	11.529	11.560	-0.031	0.269	1.0000
20	10.951	10.912	0.039	0.355	1.0000
21	11.666	11.591	0.075	0.646	1.0000
22	10.160	12.357	-2.197	21.622	0.3955
23	11.547	11.670	-0.124	1.070	1.0000
24	10.843	11.118	-0.275	2.535	1.0000
25	11.632	11.374	0.258	2.221	1.0000
26	10.146	11.385	-1.238	12.205	0.7016
27	11.328	11.434	-0.106	0.936	1.0000
28	11.504	11.393	0.111	0.961	1.0000
29	11.569	11.338	0.230	1.991	1.0000
30	12.453	11.335	1.118	8.979	0.7770
31	11.533	11.335	0.198	1.714	1.0000
32	10.745	11.013	-0.268	2.496	1.0000
33	11.081	11.265	-0.184	1.658	1.0000
34	12.146	11.289	0.857	7.055	1.0000
35	12.352	11.276	1.075	8.707	0.8078
36	11.949	11.343	0.606	5.069	1.0000
37	10.150	11.408	-1.258	12.394	0.6905
38	11.512	11.500	0.012	0.108	1.0000
39	11.431	11.515	-0.084	0.738	1.0000
40	11.477	11.607	-0.130	1.132	1.0000
41	10.492	10.435	0.057	0.540	1.0000
42	12.172	11.685	0.488	4.007	1.0000
43	12.510	11.844	0.666	5.326	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
44	12.829	11.557	1.272	9.913	0.6831
45	12.172	11.774	0.398	3.269	1.0000
46	10.976	11.276	-0.301	2.739	1.0000
47	11.246	11.600	-0.354	3.144	1.0000
48	12.003	11.919	0.083	0.693	1.0000
49	11.731	11.433	0.298	2.538	1.0000
50	10.655	11.565	-0.910	8.542	0.9545
51	11.077	11.048	0.028	0.254	1.0000
52	10.327	11.328	-1.001	9.696	0.8676
53	9.805	12.168	-2.364	24.106	0.3676
54	10.000	10.346	-0.346	3.463	1.0000
55	11.277	11.665	-0.389	3.447	1.0000
56	11.587	11.381	0.207	1.783	1.0000
57	10.813	11.564	-0.752	6.951	1.0000
58	9.983	10.512	-0.529	5.300	1.0000
59	10.327	11.609	-1.282	12.414	0.6776
60	11.175	11.640	-0.465	4.157	1.0000
61	11.038	11.518	-0.480	4.345	1.0000
62	10.841	11.239	-0.398	3.669	1.0000
63	11.396	11.601	-0.205	1.801	1.0000
64	10.329	10.593	-0.264	2.555	1.0000
65	11.892	11.481	0.411	3.455	1.0000
66	10.677	11.733	-1.056	9.889	0.8228
67	11.771	11.674	0.097	0.820	1.0000
68	11.624	11.725	-0.100	0.862	1.0000
69	11.373	11.821	-0.448	3.941	1.0000
70	10.845	11.044	-0.199	1.834	1.0000
71	11.247	11.483	-0.236	2.103	1.0000
72	10.721	10.712	0.008	0.078	1.0000
73	9.641	11.814	-2.173	22.539	0.3998
74	10.979	11.868	-0.889	8.092	0.9777
75	11.120	11.851	-0.731	6.576	1.0000
76	11.849	11.745	0.104	0.880	1.0000
77	12.148	11.446	0.702	5.777	1.0000
78	12.558	11.676	0.882	7.022	0.9852
79	11.156	11.436	-0.280	2.507	1.0000
80	11.737	11.423	0.314	2.678	1.0000
81	11.549	11.056	0.493	4.271	1.0000
82	12.280	11.672	0.608	4.953	1.0000
83	11.406	11.492	-0.086	0.752	1.0000
84	12.659	11.956	0.703	5.554	1.0000
85	10.498	10.746	-0.248	2.365	1.0000
86	10.551	11.503	-0.951	9.017	0.9131

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
87	10.560	10.502	0.059	0.555	1.0000
88	11.793	11.497	0.296	2.508	1.0000
89	10.977	11.137	-0.160	1.457	1.0000
90	9.789	10.299	-0.509	5.202	1.0000
91	11.323	10.980	0.342	3.024	1.0000
92	10.527	11.064	-0.537	5.103	1.0000
93	9.788	10.924	-1.136	11.602	0.7650
94	11.456	11.152	0.305	2.658	1.0000
95	10.979	10.651	0.328	2.991	1.0000
96	10.951	11.302	-0.351	3.205	1.0000
97	11.179	11.302	-0.122	1.096	1.0000
98	11.982	11.297	0.686	5.722	1.0000
99	10.750	11.430	-0.681	6.334	1.0000
100	10.962	11.156	-0.194	1.767	1.0000
101	9.785	10.459	-0.675	6.896	1.0000
102	10.044	11.154	-1.110	11.047	0.7830
103	11.020	10.951	0.069	0.622	1.0000
106	10.159	10.528	-0.369	3.633	1.0000
107	11.937	11.430	0.507	4.246	1.0000
108	11.622	11.393	0.229	1.971	1.0000
109	12.596	11.742	0.854	6.780	1.0000
110	10.738	10.642	0.097	0.903	1.0000
111	11.953	11.473	0.480	4.018	1.0000
113	13.040	11.793	1.247	9.565	0.6965
114	13.040	12.521	0.519	3.980	1.0000
115	12.240	11.893	0.347	2.834	1.0000
116	11.913	11.588	0.325	2.727	1.0000
117	12.291	11.856	0.435	3.540	1.0000
118	12.161	11.540	0.621	5.109	1.0000
119	12.324	11.813	0.511	4.146	1.0000
120	11.676	12.277	-0.601	5.144	1.0000
121	11.647	11.792	-0.145	1.244	1.0000
122	11.072	11.559	-0.487	4.398	1.0000
123	11.104	11.559	-0.455	4.099	1.0000
124	11.842	11.741	0.101	0.850	1.0000
125	10.255	11.603	-1.347	13.138	0.6448
126	11.841	12.098	-0.257	2.173	1.0000
127	12.815	12.317	0.499	3.890	1.0000
128	12.392	12.404	-0.012	0.093	1.0000
129	12.791	12.402	0.389	3.042	1.0000
130	12.726	11.877	0.849	6.673	1.0000
131	12.560	11.948	0.612	4.871	1.0000
132	12.751	11.913	0.838	6.575	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
133	11.260	11.077	0.182	1.621	1.0000
134	11.401	11.602	-0.201	1.767	1.0000
135	11.774	11.745	0.028	0.241	1.0000
136	12.325	11.353	0.971	7.882	0.8943
137	10.623	12.010	-1.387	13.061	0.6262
138	11.306	11.736	-0.431	3.808	1.0000
139	11.026	11.923	-0.897	8.132	0.9688
140	11.315	11.869	-0.553	4.890	1.0000
141	12.406	11.416	0.990	7.983	0.8771
142	10.162	10.874	-0.712	7.009	1.0000
143	11.549	11.213	0.336	2.908	1.0000
144	12.287	11.236	1.050	8.549	0.8270
145	11.690	11.404	0.286	2.450	1.0000
146	10.844	11.433	-0.589	5.432	1.0000
147	11.253	11.714	-0.461	4.096	1.0000
148	10.297	11.742	-1.445	14.031	0.6013
149	11.060	11.333	-0.273	2.468	1.0000
150	10.679	10.989	-0.310	2.899	1.0000
151	11.533	11.565	-0.032	0.274	1.0000
152	11.296	10.970	0.327	2.891	1.0000
153	9.459	10.414	-0.955	10.095	0.9098
154	12.034	11.219	0.814	6.768	1.0000
155	11.249	11.380	-0.131	1.165	1.0000
156	10.560	11.230	-0.670	6.345	1.0000
157	12.434	11.754	0.680	5.467	1.0000
158	10.838	11.567	-0.729	6.723	1.0000
159	11.335	11.473	-0.138	1.217	1.0000
160	11.256	11.254	0.002	0.014	1.0000
161	11.751	10.990	0.761	6.478	1.0000
162	10.336	10.451	-0.115	1.112	1.0000
163	12.402	11.666	0.737	5.939	1.0000
164	11.644	11.031	0.613	5.267	1.0000
165	11.375	11.162	0.213	1.870	1.0000
166	12.305	11.834	0.472	3.833	1.0000
167	11.767	11.623	0.145	1.229	1.0000
168	10.331	11.847	-1.516	14.678	0.5729
169	12.528	11.635	0.893	7.129	0.9727
170	11.138	11.160	-0.022	0.198	1.0000
171	12.047	11.521	0.526	4.364	1.0000
172	11.183	11.163	0.020	0.178	1.0000
173	10.841	10.332	0.510	4.701	1.0000
174	10.427	11.157	-0.731	7.006	1.0000
175	10.427	10.321	0.105	1.012	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
176	11.069	11.204	-0.135	1.223	1.0000
177	10.485	11.457	-0.972	9.268	0.8940
178	10.155	11.195	-1.040	10.240	0.8355
179	10.144	11.223	-1.079	10.636	0.8052
180	10.678	11.313	-0.634	5.941	1.0000
181	12.414	11.949	0.465	3.744	1.0000
182	12.216	11.652	0.564	4.618	1.0000
183	9.453	11.139	-1.687	17.844	0.5150
184	11.984	10.982	1.002	8.365	0.8666
185	11.983	11.381	0.602	5.025	1.0000
186	11.755	11.240	0.516	4.386	1.0000
187	12.087	11.836	0.251	2.079	1.0000
188	12.788	11.669	1.119	8.751	0.7763
189	11.037	11.426	-0.389	3.525	1.0000
190	11.538	11.931	-0.393	3.405	1.0000
191	11.811	11.562	0.250	2.113	1.0000
192	11.080	11.931	-0.851	7.681	1.0000
193	9.240	11.108	-1.868	20.219	0.4650
195	11.860	11.104	0.756	6.371	1.0000
196	12.412	11.746	0.666	5.363	1.0000
198	9.936	11.376	-1.441	14.499	0.6031
199	11.400	11.039	0.360	3.159	1.0000
200	11.341	11.107	0.234	2.064	1.0000
201	10.521	11.543	-1.021	9.707	0.8506
202	10.731	11.629	-0.898	8.365	0.9678
203	11.245	11.634	-0.389	3.456	1.0000
204	11.264	11.373	-0.109	0.967	1.0000
205	11.211	10.955	0.255	2.278	1.0000
206	10.146	10.971	-0.826	8.138	1.0000
207	11.062	11.614	-0.552	4.994	1.0000
208	10.629	11.045	-0.416	3.911	1.0000
210	11.846	11.399	0.447	3.772	1.0000
211	11.464	11.668	-0.204	1.776	1.0000
212	12.018	11.406	0.611	5.086	1.0000
214	10.976	11.541	-0.565	5.148	1.0000
215	10.143	11.643	-1.500	14.787	0.5792
216	10.069	10.717	-0.648	6.432	1.0000
217	10.737	11.374	-0.636	5.927	1.0000
218	11.730	11.450	0.279	2.382	1.0000
219	11.646	11.872	-0.226	1.942	1.0000
220	12.495	12.271	0.224	1.794	1.0000
221	11.860	11.620	0.240	2.021	1.0000
222	11.485	11.628	-0.143	1.249	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
227	11.830	11.670	0.160	1.350	1.0000
228	11.397	10.950	0.448	3.928	1.0000
229	12.400	11.715	0.686	5.529	1.0000
230	11.209	10.420	0.789	7.036	1.0000
231	10.945	11.404	-0.459	4.198	1.0000
232	12.325	11.296	1.029	8.349	0.8442
233	10.257	11.321	-1.064	10.378	0.8161
234	11.375	11.046	0.329	2.894	1.0000
236	12.457	11.567	0.889	7.139	0.9769
237	11.407	11.715	-0.309	2.705	1.0000
238	11.060	11.638	-0.578	5.227	1.0000
239	11.252	11.908	-0.657	5.836	1.0000
240	12.036	11.699	0.337	2.796	1.0000
241	12.837	12.243	0.593	4.623	1.0000
242	11.179	11.882	-0.702	6.284	1.0000
243	11.528	11.750	-0.222	1.929	1.0000
244	11.850	11.796	0.054	0.459	1.0000
245	12.162	11.677	0.485	3.992	1.0000
246	11.793	11.557	0.236	2.004	1.0000
247	12.483	11.670	0.813	6.516	1.0000
248	9.977	12.012	-2.035	20.395	0.4269
249	11.549	11.746	-0.197	1.702	1.0000
250	10.237	10.918	-0.681	6.655	1.0000
251	10.787	10.937	-0.150	1.393	1.0000
252	10.844	11.444	-0.600	5.537	1.0000
253	10.743	11.408	-0.665	6.187	1.0000
254	10.905	11.032	-0.127	1.163	1.0000
255	10.694	10.496	0.198	1.848	1.0000
256	11.068	11.336	-0.268	2.423	1.0000
257	10.142	10.481	-0.338	3.336	1.0000
258	10.794	11.593	-0.799	7.404	1.0000
259	11.395	11.215	0.180	1.578	1.0000
260	10.932	11.696	-0.763	6.983	1.0000
261	10.147	11.221	-1.074	10.585	0.8089
262	12.200	11.256	0.944	7.739	0.9202
263	10.480	10.946	-0.466	4.450	1.0000
264	11.486	11.468	0.018	0.153	1.0000
266	11.531	11.213	0.318	2.756	1.0000
267	10.937	11.235	-0.299	2.730	1.0000
268	11.734	11.381	0.353	3.011	1.0000
269	12.667	11.843	0.824	6.502	1.0000
270	11.731	11.899	-0.167	1.424	1.0000
271	12.157	11.623	0.534	4.393	1.0000



**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
272	11.870	11.634	0.236	1.987	1.0000
273	11.169	11.302	-0.133	1.189	1.0000
274	11.694	11.184	0.510	4.364	1.0000
275	11.535	11.829	-0.294	2.550	1.0000
276	11.603	11.150	0.454	3.911	1.0000
278	11.401	10.966	0.435	3.811	1.0000
279	10.558	11.118	-0.560	5.305	1.0000
280	11.069	11.009	0.059	0.533	1.0000
281	11.404	11.527	-0.123	1.079	1.0000
282	11.443	11.820	-0.377	3.294	1.0000
283	10.682	11.493	-0.811	7.590	1.0000
284	11.065	11.469	-0.404	3.650	1.0000
285	10.562	11.849	-1.286	12.179	0.6754
286	10.857	11.458	-0.600	5.528	1.0000
287	11.115	11.164	-0.049	0.441	1.0000
288	11.325	11.193	0.132	1.168	1.0000
289	10.485	10.287	0.198	1.887	1.0000
290	11.581	11.192	0.390	3.364	1.0000
291	11.826	11.695	0.132	1.115	1.0000
292	12.002	11.872	0.130	1.084	1.0000
293	11.259	11.081	0.179	1.587	1.0000
294	11.631	11.527	0.105	0.899	1.0000
295	10.143	11.283	-1.140	11.241	0.7620
296	12.599	11.454	1.145	9.084	0.7590
297	11.523	11.052	0.471	4.088	1.0000
298	11.944	11.218	0.726	6.075	1.0000
300	10.554	10.563	-0.009	0.088	1.0000
301	11.195	11.528	-0.334	2.981	1.0000
302	11.029	11.472	-0.443	4.018	1.0000
303	10.905	11.651	-0.746	6.843	1.0000
305	11.021	11.039	-0.018	0.166	1.0000
306	10.858	11.868	-1.011	9.307	0.8597
307	11.645	11.395	0.249	2.142	1.0000
309	11.935	11.177	0.758	6.349	1.0000
310	12.705	11.650	1.055	8.307	0.8231
311	11.307	11.684	-0.377	3.336	1.0000
312	10.788	10.984	-0.196	1.814	1.0000
313	10.918	11.253	-0.335	3.064	1.0000
315	12.702	11.396	1.307	10.287	0.6648
316	10.733	10.951	-0.218	2.030	1.0000
317	9.786	11.046	-1.259	12.870	0.6897
318	12.043	11.651	0.392	3.253	1.0000
319	11.619	10.502	1.116	9.608	0.7782

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
320	9.859	11.042	-1.184	12.007	0.7339
323	12.284	11.573	0.710	5.783	1.0000
324	10.792	11.243	-0.451	4.175	1.0000
325	11.066	11.682	-0.616	5.567	1.0000
326	12.933	11.793	1.140	8.817	0.7618
327	12.093	11.816	0.277	2.292	1.0000
328	11.710	11.710	0.001	0.007	1.0000
329	9.760	10.642	-0.882	9.041	0.9845
330	12.315	11.358	0.957	7.775	0.9073
331	11.699	11.348	0.351	3.002	1.0000
332	11.316	11.281	0.034	0.303	1.0000
333	11.842	11.865	-0.022	0.189	1.0000
334	11.073	11.057	0.016	0.144	1.0000
335	10.845	11.402	-0.557	5.139	1.0000
336	11.925	11.429	0.495	4.153	1.0000
337	10.041	11.116	-1.074	10.699	0.8087
338	10.986	11.815	-0.829	7.543	1.0000
339	11.792	11.540	0.251	2.131	1.0000
341	10.848	11.830	-0.982	9.048	0.8851
342	11.580	11.951	-0.371	3.208	1.0000
343	10.148	11.591	-1.442	14.214	0.6023
344	11.100	11.331	-0.231	2.077	1.0000
346	10.550	11.383	-0.833	7.895	1.0000
347	10.738	11.628	-0.890	8.286	0.9763
348	11.582	11.319	0.263	2.269	1.0000
349	12.308	11.632	0.676	5.492	1.0000
350	12.935	11.892	1.043	8.062	0.8330
351	11.851	11.996	-0.145	1.225	1.0000
352	12.690	12.196	0.494	3.891	1.0000
353	12.588	11.627	0.960	7.628	0.9047
354	13.367	12.357	1.010	7.558	0.8599
355	11.171	11.312	-0.141	1.261	1.0000
356	12.049	10.795	1.254	10.408	0.6927
357	10.160	12.057	-1.896	18.666	0.4581
358	12.561	11.942	0.619	4.926	1.0000
359	11.247	11.316	-0.068	0.608	1.0000
360	10.149	11.355	-1.205	11.876	0.7208
361	10.941	11.689	-0.747	6.828	1.0000
362	10.886	10.505	0.381	3.503	1.0000
363	12.192	11.399	0.793	6.506	1.0000
364	11.402	11.046	0.356	3.120	1.0000
365	11.771	11.262	0.509	4.326	1.0000
366	11.404	10.593	0.811	7.108	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
367	11.354	11.056	0.298	2.624	1.0000
368	12.515	11.626	0.888	7.097	0.9782
369	12.271	11.852	0.418	3.407	1.0000
370	12.961	11.182	1.779	13.723	0.4884
371	11.356	11.369	-0.013	0.115	1.0000
372	11.754	10.454	1.300	11.062	0.6681
373	12.378	11.505	0.873	7.054	0.9950
374	11.337	11.332	0.005	0.046	1.0000
375	12.119	11.327	0.791	6.529	1.0000
377	11.408	11.367	0.042	0.365	1.0000
378	11.636	11.125	0.511	4.391	1.0000
379	11.773	11.317	0.456	3.874	1.0000
380	10.497	10.526	-0.029	0.279	1.0000
381	11.658	11.875	-0.217	1.865	1.0000
382	11.077	11.280	-0.203	1.830	1.0000
383	12.191	11.592	0.599	4.913	1.0000
384	12.110	11.538	0.572	4.722	1.0000
386	13.048	11.719	1.329	10.188	0.6535
387	12.047	11.989	0.059	0.488	1.0000
388	13.380	12.336	1.044	7.803	0.8321
389	11.353	12.166	-0.813	7.160	1.0000
390	12.755	11.992	0.763	5.980	1.0000
392	11.077	11.590	-0.513	4.627	1.0000
393	12.285	11.848	0.437	3.560	1.0000
394	11.646	11.901	-0.255	2.186	1.0000
396	11.243	11.077	0.166	1.473	1.0000
397	10.721	11.368	-0.647	6.032	1.0000
398	10.142	11.110	-0.968	9.549	0.8971
399	11.938	11.502	0.436	3.649	1.0000
400	12.007	11.938	0.069	0.573	1.0000
402	10.700	11.426	-0.726	6.784	1.0000
404	12.916	10.930	1.986	15.374	0.4375
405	12.422	11.798	0.624	5.025	1.0000
406	12.125	11.842	0.283	2.336	1.0000
407	12.309	11.669	0.639	5.194	1.0000
408	12.664	11.714	0.949	7.496	0.9152
409	11.548	11.665	-0.117	1.016	1.0000
410	12.129	11.721	0.408	3.366	1.0000
411	10.129	11.556	-1.426	14.081	0.6091
412	11.728	11.827	-0.099	0.845	1.0000
414	11.852	12.103	-0.251	2.119	1.0000
415	12.334	12.513	-0.180	1.457	1.0000
416	12.215	12.208	0.007	0.060	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
417	11.482	11.593	-0.112	0.972	1.0000
418	12.506	12.391	0.115	0.918	1.0000
419	12.857	12.051	0.807	6.274	1.0000
421	12.725	11.967	0.758	5.960	1.0000
422	11.181	11.826	-0.644	5.763	1.0000
423	12.289	12.188	0.101	0.821	1.0000
424	11.915	11.595	0.320	2.686	1.0000
425	12.224	11.666	0.559	4.569	1.0000
426	11.840	11.634	0.205	1.735	1.0000
427	11.635	11.517	0.118	1.017	1.0000
428	10.249	11.516	-1.267	12.358	0.6859
429	11.902	11.687	0.215	1.806	1.0000
430	12.309	11.568	0.741	6.022	1.0000
431	12.690	12.017	0.672	5.297	1.0000
434	11.117	11.510	-0.393	3.535	1.0000
435	12.581	11.698	0.882	7.013	0.9847
436	12.720	11.973	0.747	5.873	1.0000
437	11.903	12.472	-0.568	4.774	1.0000
439	11.896	12.161	-0.265	2.230	1.0000
440	10.890	12.041	-1.152	10.576	0.7543
441	11.728	11.167	0.561	4.784	1.0000
442	11.898	10.660	1.238	10.405	0.7017
447	12.418	11.966	0.453	3.645	1.0000
450	12.686	12.241	0.445	3.511	1.0000
451	12.216	11.758	0.458	3.749	1.0000
455	11.889	11.399	0.490	4.119	1.0000
456	11.105	11.786	-0.681	6.133	1.0000
457	12.224	12.186	0.038	0.309	1.0000
458	12.844	12.197	0.647	5.037	1.0000
459	12.680	11.959	0.721	5.684	1.0000
460	11.997	11.490	0.507	4.226	1.0000
464	12.586	11.827	0.759	6.027	1.0000
465	12.499	11.896	0.603	4.823	1.0000
466	10.793	11.608	-0.815	7.551	1.0000
467	11.803	11.893	-0.090	0.760	1.0000
468	11.671	11.635	0.036	0.307	1.0000
469	12.762	12.237	0.525	4.116	1.0000
472	12.205	12.500	-0.296	2.422	1.0000
474	11.808	11.982	-0.174	1.471	1.0000
475	11.906	12.237	-0.331	2.779	1.0000
476	11.771	12.382	-0.611	5.193	1.0000
477	12.160	11.852	0.308	2.533	1.0000
478	12.419	11.869	0.550	4.426	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
479	12.478	12.023	0.455	3.645	1.0000
481	12.573	12.167	0.406	3.231	1.0000
482	13.635	12.783	0.852	6.252	1.0000
483	11.836	12.558	-0.722	6.100	1.0000
484	9.565	12.520	-2.956	30.901	0.2939
485	11.743	12.520	-0.777	6.617	1.0000
486	9.662	12.378	-2.717	28.118	0.3198
487	12.212	11.681	0.531	4.351	1.0000
490	10.921	11.543	-0.622	5.694	1.0000
491	12.554	12.247	0.307	2.446	1.0000
492	10.822	11.662	-0.839	7.754	1.0000
493	12.539	11.752	0.787	6.278	1.0000
495	13.329	12.570	0.758	5.690	1.0000
496	10.125	11.340	-1.215	11.998	0.7152
497	11.395	11.987	-0.592	5.199	1.0000
498	11.660	11.832	-0.172	1.471	1.0000
500	12.293	11.767	0.526	4.278	1.0000
502	11.968	12.203	-0.235	1.967	1.0000
503	12.306	12.275	0.031	0.248	1.0000
511	12.194	12.171	0.023	0.191	1.0000
514	11.882	12.132	-0.250	2.106	1.0000
526	11.046	11.393	-0.347	3.141	1.0000
527	11.391	11.417	-0.026	0.228	1.0000
530	12.614	12.000	0.615	4.874	1.0000
531	11.413	11.850	-0.437	3.832	1.0000
536	12.505	11.642	0.863	6.899	1.0000
539	11.326	11.358	-0.033	0.289	1.0000
542	11.582	12.110	-0.529	4.566	1.0000
544	12.579	11.654	0.925	7.351	0.9395
545	11.001	11.970	-0.969	8.806	0.8967
547	11.001	12.388	-1.387	12.609	0.6263
549	11.634	11.669	-0.035	0.300	1.0000
551	11.965	11.899	0.067	0.557	1.0000
555	11.886	11.364	0.522	4.388	1.0000
557	11.984	11.841	0.143	1.195	1.0000
560	11.884	11.454	0.430	3.621	1.0000
562	11.867	12.448	-0.580	4.891	1.0000
565	11.459	12.013	-0.554	4.835	1.0000
566	12.012	12.010	0.002	0.019	1.0000
567	11.797	12.038	-0.240	2.038	1.0000
571	11.986	12.054	-0.068	0.568	1.0000
572	11.276	12.211	-0.935	8.290	0.9294
573	11.276	12.771	-1.495	13.257	0.5811

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
574	13.247	12.768	0.479	3.615	1.0000
575	13.298	12.768	0.530	3.984	1.0000
576	12.035	12.002	0.033	0.274	1.0000
577	12.522	12.482	0.040	0.323	1.0000
578	12.690	12.151	0.538	4.243	1.0000
580	12.631	12.579	0.053	0.418	1.0000
581	12.706	12.380	0.326	2.566	1.0000
587	11.962	12.641	-0.679	5.678	1.0000
588	11.358	12.018	-0.661	5.817	1.0000
591	12.939	11.979	0.960	7.417	0.9053
595	11.775	11.962	-0.187	1.584	1.0000
598	11.430	11.654	-0.224	1.957	1.0000
599	11.733	11.902	-0.169	1.436	1.0000
601	13.041	12.617	0.424	3.251	1.0000
602	12.405	12.544	-0.138	1.115	1.0000
605	12.420	12.151	0.269	2.166	1.0000
606	12.877	12.162	0.715	5.554	1.0000
609	12.076	11.789	0.287	2.375	1.0000
610	10.858	11.700	-0.842	7.750	1.0000
611	12.917	12.019	0.898	6.952	0.9674
612	10.705	12.007	-1.302	12.164	0.6672
613	11.940	11.802	0.138	1.155	1.0000
614	12.169	11.952	0.217	1.780	1.0000
619	10.932	11.511	-0.578	5.291	1.0000
620	13.010	12.454	0.556	4.273	1.0000
622	12.795	11.916	0.879	6.872	0.9881
626	11.836	11.772	0.063	0.534	1.0000
630	11.996	11.981	0.015	0.128	1.0000
632	11.254	11.662	-0.409	3.632	1.0000
633	12.257	11.827	0.430	3.511	1.0000
634	10.705	11.825	-1.121	10.470	0.7751
635	12.572	12.040	0.532	4.228	1.0000
639	12.001	11.769	0.233	1.939	1.0000
642	9.655	11.656	-2.001	20.729	0.4341
645	11.019	11.563	-0.544	4.941	1.0000
650	10.722	11.892	-1.170	10.913	0.7425
655	11.193	11.908	-0.716	6.395	1.0000
657	12.546	11.741	0.806	6.422	1.0000
658	12.636	11.994	0.643	5.085	1.0000
662	10.926	12.339	-1.413	12.929	0.6150
663	11.840	11.630	0.210	1.773	1.0000
664	12.496	11.955	0.541	4.330	1.0000
665	11.454	11.594	-0.140	1.221	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
669	11.719	11.811	-0.092	0.785	1.0000
670	12.064	11.836	0.227	1.885	1.0000
671	11.172	11.816	-0.644	5.762	1.0000
676	12.589	12.581	0.008	0.061	1.0000
678	12.541	12.029	0.512	4.084	1.0000
684	9.338	11.092	-1.755	18.792	0.4951
688	12.099	12.052	0.047	0.392	1.0000
689	11.999	12.085	-0.086	0.716	1.0000
690	12.011	12.088	-0.077	0.642	1.0000
692	12.165	11.940	0.225	1.851	1.0000
693	10.835	12.047	-1.212	11.188	0.7166
704	11.265	11.930	-0.666	5.911	1.0000
706	11.600	11.582	0.018	0.156	1.0000
707	10.364	11.991	-1.627	15.694	0.5341
712	11.981	12.226	-0.245	2.043	1.0000
713	11.956	12.140	-0.184	1.537	1.0000
715	11.735	11.849	-0.114	0.971	1.0000
719	12.406	12.376	0.030	0.238	1.0000
722	13.116	12.121	0.995	7.586	0.8731
724	12.535	12.135	0.400	3.189	1.0000
729	12.315	11.971	0.344	2.795	1.0000
733	12.831	12.093	0.738	5.754	1.0000
735	11.109	12.108	-0.999	8.990	0.8699
736	12.585	11.795	0.790	6.281	1.0000
738	12.257	12.425	-0.168	1.367	1.0000
739	11.962	12.470	-0.508	4.246	1.0000
740	11.462	12.111	-0.649	5.664	1.0000
743	13.137	12.615	0.522	3.972	1.0000
744	13.143	12.627	0.516	3.925	1.0000
747	11.371	12.007	-0.635	5.588	1.0000
749	11.803	12.329	-0.526	4.458	1.0000
751	12.730	11.865	0.865	6.797	1.0000
752	11.944	12.090	-0.146	1.222	1.0000
754	10.943	11.864	-0.921	8.416	0.9434
755	11.285	11.746	-0.462	4.092	1.0000
757	10.974	11.882	-0.908	8.275	0.9567
758	11.361	12.190	-0.829	7.298	1.0000
760	12.633	11.798	0.835	6.606	1.0000
761	12.043	11.007	1.036	8.601	0.8387
763	8.977	12.441	-3.464	38.582	0.2508
765	11.710	12.203	-0.494	4.215	1.0000
767	11.784	11.953	-0.170	1.441	1.0000
770	12.508	12.044	0.464	3.711	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
773	12.451	12.448	0.003	0.026	1.0000
782	12.534	12.196	0.338	2.695	1.0000
785	11.923	11.673	0.250	2.099	1.0000
786	11.129	11.609	-0.480	4.316	1.0000
787	12.078	11.869	0.209	1.728	1.0000
788	11.717	11.636	0.081	0.694	1.0000
795	13.017	12.322	0.695	5.337	1.0000
797	10.493	11.355	-0.862	8.212	1.0000
798	11.883	11.947	-0.064	0.540	1.0000
799	11.546	12.104	-0.558	4.829	1.0000
803	11.939	11.554	0.385	3.222	1.0000
805	12.482	11.818	0.664	5.323	1.0000
806	11.413	11.847	-0.433	3.797	1.0000
807	12.389	11.474	0.915	7.382	0.9500
809	9.696	11.302	-1.606	16.563	0.5409
811	12.098	11.778	0.320	2.645	1.0000
813	11.542	11.616	-0.074	0.638	1.0000
817	11.115	11.763	-0.648	5.832	1.0000
818	10.423	11.449	-1.026	9.841	0.8469
819	11.614	12.081	-0.467	4.018	1.0000
820	12.303	12.023	0.280	2.274	1.0000
821	12.546	12.341	0.206	1.639	1.0000
824	11.785	12.305	-0.521	4.418	1.0000
826	11.380	11.672	-0.291	2.558	1.0000
833	11.331	11.833	-0.502	4.430	1.0000
835	12.310	12.127	0.183	1.485	1.0000
841	11.909	12.234	-0.325	2.729	1.0000
845	12.297	11.754	0.543	4.418	1.0000
852	11.222	11.539	-0.317	2.824	1.0000
853	11.623	11.539	0.085	0.728	1.0000
855	12.804	12.065	0.739	5.770	1.0000
857	12.051	12.044	0.006	0.052	1.0000
859	11.753	12.129	-0.376	3.201	1.0000
861	12.144	12.234	-0.090	0.742	1.0000
864	11.962	12.056	-0.094	0.789	1.0000
868	11.591	12.237	-0.646	5.574	1.0000
870	11.717	12.064	-0.347	2.959	1.0000
871	12.794	12.016	0.779	6.086	1.0000
875	12.036	12.178	-0.142	1.179	1.0000
877	10.415	11.702	-1.287	12.353	0.6752
878	12.897	12.258	0.639	4.952	1.0000
881	10.420	11.095	-0.675	6.480	1.0000
883	13.151	12.457	0.694	5.276	1.0000



**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
884	12.193	12.549	-0.355	2.915	1.0000
885	12.238	12.240	-0.003	0.024	1.0000
887	13.045	11.704	1.341	10.283	0.6476
889	11.698	12.049	-0.350	2.996	1.0000
890	12.736	10.786	1.950	15.312	0.4455
895	9.917	11.588	-1.671	16.847	0.5200
898	11.621	11.829	-0.208	1.786	1.0000
902	10.813	11.724	-0.911	8.429	0.9532
903	12.804	12.450	0.354	2.767	1.0000
904	11.851	11.779	0.072	0.611	1.0000
906	12.155	12.194	-0.039	0.320	1.0000
908	11.226	11.749	-0.523	4.662	1.0000
909	12.430	12.142	0.288	2.317	1.0000
910	12.649	12.328	0.321	2.534	1.0000
912	13.049	12.263	0.786	6.022	1.0000
914	11.820	12.403	-0.583	4.932	1.0000
917	12.332	12.032	0.300	2.432	1.0000
918	11.873	11.493	0.380	3.201	1.0000
920	12.274	12.026	0.248	2.021	1.0000
921	12.684	12.149	0.534	4.213	1.0000
922	11.675	11.650	0.026	0.221	1.0000
923	12.329	11.969	0.360	2.918	1.0000
924	12.455	12.013	0.442	3.549	1.0000
926	12.116	12.046	0.069	0.573	1.0000
928	11.844	12.281	-0.437	3.689	1.0000
929	12.932	12.647	0.285	2.203	1.0000
930	13.310	12.241	1.070	8.036	0.8122
931	10.724	11.774	-1.050	9.792	0.8273
932	11.971	12.258	-0.287	2.397	1.0000
935	12.943	12.129	0.813	6.284	1.0000
936	13.327	12.692	0.635	4.767	1.0000
939	11.803	11.960	-0.157	1.330	1.0000
941	12.086	12.300	-0.214	1.773	1.0000
951	11.755	11.783	-0.028	0.242	1.0000
952	11.911	11.945	-0.035	0.290	1.0000
953	11.911	11.772	0.139	1.165	1.0000
954	12.782	11.779	1.003	7.846	0.8663
956	12.498	12.407	0.091	0.732	1.0000
957	12.217	11.978	0.240	1.961	1.0000
958	12.083	11.751	0.333	2.754	1.0000
959	10.810	11.405	-0.595	5.507	1.0000
960	12.594	12.146	0.448	3.555	1.0000
961	12.046	11.833	0.213	1.772	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
965	10.902	11.470	-0.568	5.212	1.0000
966	12.164	12.148	0.016	0.131	1.0000
973	11.109	12.428	-1.320	11.879	0.6583
974	12.085	12.278	-0.194	1.604	1.0000
975	12.448	12.611	-0.163	1.308	1.0000
976	11.735	12.061	-0.326	2.779	1.0000
978	11.829	11.732	0.097	0.819	1.0000
981	13.633	12.667	0.966	7.087	0.8992
984	10.834	12.042	-1.208	11.149	0.7192
985	9.116	12.195	-3.079	33.777	0.2821
986	12.708	12.096	0.611	4.812	1.0000
992	12.166	11.955	0.211	1.731	1.0000
996	12.029	12.396	-0.367	3.053	1.0000
998	12.282	12.344	-0.061	0.500	1.0000
1002	11.992	11.985	0.007	0.055	1.0000
1003	12.384	11.966	0.418	3.372	1.0000
1006	10.783	11.591	-0.808	7.493	1.0000
1007	9.650	12.049	-2.399	24.857	0.3622
1011	11.583	12.111	-0.528	4.558	1.0000
1014	13.077	12.299	0.778	5.952	1.0000
1018	12.738	12.345	0.393	3.084	1.0000
1019	12.169	12.048	0.121	0.994	1.0000
1020	12.125	12.476	-0.351	2.894	1.0000
1024	13.084	12.695	0.389	2.973	1.0000
1029	12.577	12.584	-0.007	0.054	1.0000
1030	12.173	11.710	0.463	3.803	1.0000
1033	11.375	12.309	-0.934	8.211	0.9301
1039	11.866	11.998	-0.131	1.106	1.0000
1041	12.643	12.133	0.510	4.031	1.0000
1042	12.915	12.302	0.613	4.744	1.0000
1045	11.371	12.308	-0.937	8.240	0.9272
1047	11.127	12.100	-0.973	8.748	0.8925
1048	12.057	12.364	-0.308	2.554	1.0000
1049	11.562	12.149	-0.588	5.082	1.0000
1050	11.975	11.860	0.115	0.959	1.0000
1052	12.715	12.090	0.624	4.911	1.0000
1055	12.004	11.967	0.037	0.310	1.0000
1059	13.289	12.682	0.607	4.568	1.0000
1063	12.017	12.534	-0.517	4.304	1.0000
1064	12.939	12.503	0.436	3.369	1.0000
1065	12.965	12.685	0.280	2.163	1.0000
1066	12.110	12.388	-0.278	2.292	1.0000
1067	11.732	12.237	-0.505	4.301	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1068	11.264	11.219	0.045	0.401	1.0000
1070	11.997	11.669	0.328	2.734	1.0000
1071	12.549	11.994	0.555	4.424	1.0000
1073	12.981	12.614	0.368	2.831	1.0000
1074	12.765	12.336	0.429	3.360	1.0000
1078	12.841	12.137	0.705	5.487	1.0000
1079	12.764	12.508	0.256	2.005	1.0000
1087	11.951	11.656	0.295	2.471	1.0000
1089	12.104	12.081	0.023	0.189	1.0000
1090	11.663	12.022	-0.359	3.080	1.0000
1091	12.655	12.525	0.130	1.024	1.0000
1092	12.832	12.627	0.205	1.595	1.0000
1094	12.819	12.473	0.346	2.700	1.0000
1096	12.146	12.136	0.010	0.083	1.0000
1101	13.088	12.711	0.378	2.885	1.0000
1103	12.536	12.353	0.183	1.459	1.0000
1106	10.973	11.288	-0.315	2.874	1.0000
1110	12.424	12.240	0.184	1.483	1.0000
1111	11.260	12.249	-0.989	8.784	0.8784
1112	12.167	11.952	0.215	1.768	1.0000
1114	12.660	12.468	0.192	1.513	1.0000
1115	12.126	12.436	-0.310	2.558	1.0000
1118	13.076	12.271	0.806	6.161	1.0000
1119	11.935	12.383	-0.448	3.750	1.0000
1121	12.748	12.123	0.625	4.903	1.0000
1123	13.534	12.905	0.629	4.644	1.0000
1124	12.603	11.820	0.783	6.210	1.0000
1126	11.558	12.125	-0.567	4.910	1.0000
1127	11.875	12.030	-0.155	1.306	1.0000
1128	12.258	12.608	-0.350	2.855	1.0000
1129	11.476	12.346	-0.870	7.577	0.9991
1130	12.735	12.093	0.642	5.038	1.0000
1131	12.366	12.409	-0.042	0.341	1.0000
1133	12.051	12.414	-0.363	3.012	1.0000
1135	12.462	12.644	-0.183	1.465	1.0000
1139	13.193	12.204	0.988	7.492	0.8789
1141	11.815	11.627	0.188	1.592	1.0000
1144	12.117	12.215	-0.098	0.812	1.0000
1147	12.987	12.645	0.342	2.635	1.0000
1148	13.832	12.525	1.306	9.445	0.6650
1150	11.127	11.638	-0.510	4.585	1.0000
1151	11.800	11.992	-0.191	1.623	1.0000
1154	10.952	12.186	-1.234	11.267	0.7040

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1157	12.016	12.476	-0.460	3.830	1.0000
1159	12.429	12.593	-0.164	1.320	1.0000
1163	11.803	12.161	-0.357	3.028	1.0000
1165	11.163	12.244	-1.081	9.682	0.8038
1168	12.424	12.158	0.266	2.141	1.0000
1169	12.419	12.364	0.055	0.445	1.0000
1172	13.582	12.757	0.825	6.073	1.0000
1174	11.589	12.355	-0.766	6.614	1.0000
1176	12.642	12.524	0.118	0.930	1.0000
1179	11.564	12.479	-0.915	7.913	0.9494
1181	13.033	12.398	0.635	4.871	1.0000
1183	12.596	12.331	0.265	2.104	1.0000
1185	13.288	12.670	0.618	4.650	1.0000
1186	12.665	12.446	0.219	1.730	1.0000
1187	12.532	12.317	0.216	1.720	1.0000
1190	11.580	11.188	0.392	3.382	1.0000
1191	11.099	11.931	-0.832	7.497	1.0000
1192	11.244	12.226	-0.983	8.741	0.8839
1193	11.817	12.813	-0.996	8.432	0.8719
1194	11.944	12.155	-0.210	1.762	1.0000
1195	12.723	12.034	0.688	5.411	1.0000
1202	12.709	12.778	-0.070	0.548	1.0000
1203	11.943	12.290	-0.347	2.908	1.0000
1204	9.881	10.737	-0.855	8.655	1.0000
1205	12.998	11.574	1.424	10.957	0.6100
1206	11.605	11.668	-0.063	0.539	1.0000
1207	10.750	11.640	-0.890	8.276	0.9764
1212	11.166	11.328	-0.162	1.454	1.0000
1215	11.563	12.320	-0.757	6.549	1.0000
1216	12.842	12.158	0.684	5.327	1.0000
1217	12.104	11.520	0.584	4.821	1.0000
1219	12.813	12.242	0.572	4.461	1.0000
1221	11.754	12.088	-0.334	2.844	1.0000
1225	12.003	12.143	-0.140	1.166	1.0000
1226	13.381	12.009	1.372	10.251	0.6333
1227	12.405	12.274	0.131	1.056	1.0000
1228	12.443	11.955	0.488	3.923	1.0000
1230	10.362	11.531	-1.169	11.283	0.7431
1234	12.572	12.230	0.342	2.719	1.0000
1235	12.617	12.601	0.016	0.129	1.0000
1236	12.931	12.316	0.615	4.759	1.0000
1237	11.994	11.914	0.080	0.669	1.0000
1240	12.725	12.744	-0.019	0.152	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1241	13.157	12.500	0.657	4.992	1.0000
1242	13.155	12.500	0.655	4.982	1.0000
1243	11.644	12.610	-0.966	8.295	0.8994
1244	11.979	12.543	-0.564	4.707	1.0000
1247	10.925	11.644	-0.718	6.576	1.0000
1248	11.713	11.921	-0.208	1.779	1.0000
1250	12.826	11.962	0.864	6.736	1.0000
1254	12.554	12.182	0.372	2.965	1.0000
1257	11.925	12.292	-0.367	3.078	1.0000
1269	12.119	12.120	-0.002	0.013	1.0000
1270	12.801	12.228	0.573	4.480	1.0000
1271	12.931	12.074	0.857	6.628	1.0000
1272	10.769	12.086	-1.316	12.224	0.6599
1276	10.604	11.161	-0.557	5.252	1.0000
1277	11.774	11.704	0.070	0.593	1.0000
1280	12.022	11.573	0.448	3.729	1.0000
1281	12.656	12.219	0.436	3.449	1.0000
1284	10.604	11.194	-0.590	5.563	1.0000
1285	11.071	11.522	-0.451	4.072	1.0000
1287	10.373	12.300	-1.927	18.579	0.4508
1290	12.884	12.471	0.413	3.203	1.0000
1292	13.109	12.345	0.763	5.823	1.0000
1302	12.528	12.503	0.024	0.195	1.0000
1303	12.364	12.320	0.044	0.356	1.0000
1305	11.370	11.885	-0.515	4.528	1.0000
1306	12.043	12.154	-0.112	0.930	1.0000
1308	11.872	12.133	-0.262	2.205	1.0000
1310	11.470	12.200	-0.730	6.365	1.0000
1311	12.189	12.113	0.075	0.619	1.0000
1313	12.201	11.759	0.442	3.623	1.0000
1315	12.158	12.434	-0.276	2.271	1.0000
1316	12.598	12.137	0.461	3.659	1.0000
1317	12.284	12.248	0.036	0.294	1.0000
1318	12.742	12.410	0.332	2.606	1.0000
1321	12.907	12.139	0.769	5.956	1.0000
1324	12.414	12.010	0.404	3.253	1.0000
1325	12.858	12.465	0.393	3.055	1.0000
1326	11.966	11.274	0.692	5.784	1.0000
1329	9.693	10.958	-1.265	13.053	0.6866
1332	10.455	12.392	-1.937	18.526	0.4485
1334	11.976	12.304	-0.329	2.743	1.0000
1336	12.343	12.266	0.077	0.625	1.0000
1338	11.108	11.560	-0.451	4.062	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1340	10.676	12.166	-1.491	13.963	0.5828
1342	12.825	12.851	-0.026	0.202	1.0000
1346	11.809	11.917	-0.108	0.914	1.0000
1351	11.451	11.769	-0.318	2.778	1.0000
1352	12.573	12.217	0.356	2.830	1.0000
1355	11.455	11.980	-0.526	4.589	1.0000
1357	11.397	11.999	-0.601	5.276	1.0000
1359	12.636	12.429	0.207	1.637	1.0000
1360	11.950	12.172	-0.222	1.861	1.0000
1361	11.285	12.136	-0.852	7.546	1.0000
1362	12.961	12.504	0.457	3.527	1.0000
1363	11.285	11.728	-0.444	3.930	1.0000
1365	12.410	12.361	0.048	0.390	1.0000
1367	12.638	11.923	0.715	5.659	1.0000
1374	12.307	11.855	0.452	3.671	1.0000
1377	13.037	12.697	0.341	2.613	1.0000
1380	12.369	11.897	0.472	3.820	1.0000
1382	13.176	12.347	0.829	6.289	1.0000
1383	12.527	12.488	0.038	0.307	1.0000
1385	12.398	12.477	-0.079	0.637	1.0000
1386	12.240	12.191	0.049	0.400	1.0000
1387	12.390	12.056	0.334	2.692	1.0000
1388	11.839	11.889	-0.050	0.423	1.0000
1389	10.923	11.782	-0.859	7.862	1.0000
1395	12.367	12.118	0.249	2.012	1.0000
1396	12.814	12.786	0.029	0.224	1.0000
1400	12.267	12.761	-0.494	4.025	1.0000
1405	12.523	11.877	0.646	5.159	1.0000
1406	12.905	11.874	1.031	7.986	0.8430
1407	12.658	12.466	0.192	1.517	1.0000
1408	12.542	12.300	0.243	1.934	1.0000
1411	12.849	12.357	0.492	3.832	1.0000
1413	11.522	11.570	-0.048	0.419	1.0000
1414	12.255	12.036	0.219	1.788	1.0000
1416	11.076	12.100	-1.025	9.250	0.8479
1418	12.080	11.730	0.350	2.895	1.0000
1419	12.303	12.886	-0.583	4.737	1.0000
1426	11.965	12.092	-0.127	1.063	1.0000
1427	9.942	11.064	-1.122	11.282	0.7745
1430	12.668	12.185	0.483	3.812	1.0000
1431	10.296	11.205	-0.909	8.828	0.9558
1433	11.970	12.904	-0.934	7.806	0.9298
1439	11.457	12.101	-0.644	5.625	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1440	11.772	12.132	-0.360	3.056	1.0000
1441	11.079	11.237	-0.158	1.423	1.0000
1442	12.330	12.309	0.020	0.165	1.0000
1444	12.466	12.376	0.090	0.720	1.0000
1446	13.123	12.895	0.228	1.734	1.0000
1448	12.665	12.341	0.324	2.555	1.0000
1451	12.150	12.146	0.004	0.037	1.0000
1452	11.892	11.970	-0.078	0.658	1.0000
1455	11.116	12.264	-1.148	10.325	0.7569
1457	11.757	11.827	-0.071	0.601	1.0000
1458	11.805	11.814	-0.009	0.076	1.0000
1461	12.445	12.309	0.136	1.095	1.0000
1469	12.080	12.364	-0.285	2.358	1.0000
1470	12.579	12.522	0.058	0.457	1.0000
1472	13.722	12.567	1.155	8.415	0.7523
1473	11.704	12.225	-0.521	4.452	1.0000
1477	12.192	12.008	0.184	1.505	1.0000
1479	12.499	12.013	0.486	3.891	1.0000
1480	11.874	11.884	-0.010	0.083	1.0000
1483	11.745	12.053	-0.308	2.622	1.0000
1485	12.499	12.158	0.341	2.728	1.0000
1487	12.102	11.955	0.147	1.216	1.0000
1489	13.108	12.172	0.936	7.138	0.9285
1490	12.852	11.916	0.936	7.283	0.9280
1491	11.639	11.646	-0.007	0.062	1.0000
1496	11.857	11.563	0.294	2.479	1.0000
1498	12.368	12.504	-0.136	1.097	1.0000
1500	11.074	11.852	-0.778	7.025	1.0000
1502	11.823	12.123	-0.300	2.540	1.0000
1503	12.203	12.648	-0.444	3.642	1.0000
1504	12.411	12.047	0.364	2.931	1.0000
1505	13.006	11.811	1.195	9.187	0.7271
1507	12.940	12.507	0.432	3.342	1.0000
1512	13.822	11.984	1.838	13.297	0.4727
1514	11.439	11.656	-0.217	1.896	1.0000
1516	11.732	12.044	-0.312	2.661	1.0000
1517	12.188	11.790	0.398	3.269	1.0000
1518	12.066	12.709	-0.643	5.328	1.0000
1519	12.117	11.948	0.169	1.393	1.0000
1520	10.864	12.601	-1.737	15.991	0.5001
1522	11.888	11.751	0.136	1.146	1.0000
1528	12.722	12.304	0.418	3.285	1.0000
1529	11.479	12.043	-0.564	4.916	1.0000

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1530	12.451	11.563	0.888	7.133	0.9781
1534	11.796	11.973	-0.176	1.495	1.0000
1539	12.354	12.075	0.278	2.253	1.0000
1540	12.281	12.225	0.056	0.458	1.0000
1541	12.216	12.786	-0.570	4.666	1.0000
1542	12.425	12.365	0.061	0.488	1.0000
1546	12.736	11.432	1.304	10.239	0.6662
1547	11.089	11.803	-0.714	6.437	1.0000
1548	13.353	12.684	0.669	5.013	1.0000
1551	12.915	12.392	0.523	4.048	1.0000
1552	12.079	12.169	-0.091	0.752	1.0000
1555	10.996	12.001	-1.005	9.138	0.8646
1556	11.281	12.285	-1.004	8.902	0.8651
1560	12.462	12.308	0.154	1.234	1.0000
1563	11.493	11.759	-0.265	2.308	1.0000
1565	11.802	12.373	-0.572	4.845	1.0000
1571	12.520	12.360	0.160	1.279	1.0000
1574	10.887	12.031	-1.144	10.511	0.7592
1578	12.382	11.943	0.439	3.547	1.0000
1579	12.447	11.740	0.707	5.678	1.0000
1580	11.591	11.698	-0.106	0.916	1.0000
1582	10.575	11.835	-1.260	11.919	0.6892
1585	11.531	12.753	-1.222	10.600	0.7108
1587	11.688	11.383	0.304	2.603	1.0000
1588	12.882	12.002	0.880	6.828	0.9877
1591	11.005	11.322	-0.317	2.878	1.0000
1592	11.106	12.216	-1.110	9.996	0.7826
1593	11.434	12.119	-0.685	5.990	1.0000
1594	12.183	12.248	-0.065	0.530	1.0000
1595	11.046	11.707	-0.661	5.987	1.0000
1597	11.810	11.850	-0.040	0.338	1.0000
1601	12.533	11.851	0.683	5.447	1.0000
1608	12.538	11.767	0.771	6.149	1.0000
1610	12.406	12.085	0.321	2.585	1.0000
1611	13.033	11.972	1.061	8.139	0.8190
1613	11.579	11.776	-0.197	1.700	1.0000
1615	10.888	11.613	-0.725	6.659	1.0000
1618	13.030	12.143	0.886	6.802	0.9801
1620	11.853	12.307	-0.454	3.833	1.0000
1621	11.956	11.948	0.008	0.070	1.0000
1622	12.398	12.028	0.370	2.984	1.0000
1623	12.050	11.229	0.820	6.808	1.0000
1626	11.348	11.512	-0.164	1.448	1.0000



**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1628	11.929	12.340	-0.411	3.447	1.0000
1629	12.771	11.433	1.339	10.481	0.6490
1630	13.026	12.644	0.382	2.931	1.0000
1632	12.684	12.689	-0.005	0.037	1.0000
1633	11.206	12.222	-1.016	9.066	0.8551
1634	12.339	12.546	-0.207	1.676	1.0000
1636	11.763	11.930	-0.166	1.415	1.0000
1638	12.761	12.156	0.605	4.743	1.0000
1640	12.718	11.776	0.942	7.408	0.9222
1641	11.983	12.271	-0.288	2.405	1.0000
1642	10.984	12.091	-1.107	10.074	0.7851
1645	11.756	11.644	0.111	0.947	1.0000
1648	12.116	12.187	-0.071	0.583	1.0000
1653	11.089	12.156	-1.067	9.622	0.8142
1654	11.511	11.804	-0.293	2.542	1.0000
1655	13.139	12.431	0.709	5.394	1.0000
1656	12.261	12.520	-0.259	2.113	1.0000
1658	13.650	12.697	0.953	6.982	0.9115
1660	11.567	11.479	0.089	0.768	1.0000
1661	12.173	12.334	-0.161	1.323	1.0000
1662	12.423	12.261	0.161	1.299	1.0000
1663	11.137	11.843	-0.706	6.337	1.0000
1665	11.422	12.433	-1.011	8.850	0.8593
1666	12.471	12.017	0.455	3.645	1.0000
1667	12.860	12.093	0.767	5.961	1.0000
1668	12.939	12.820	0.119	0.921	1.0000
1674	12.850	12.333	0.517	4.024	1.0000
1675	12.933	12.474	0.459	3.548	1.0000
1679	12.307	11.905	0.402	3.265	1.0000
1683	12.260	12.036	0.224	1.829	1.0000
1685	10.730	12.042	-1.312	12.230	0.6620
1686	12.564	12.689	-0.125	0.998	1.0000
1687	12.577	12.486	0.091	0.723	1.0000
1689	11.811	12.148	-0.337	2.857	1.0000
1692	12.990	12.211	0.779	5.999	1.0000
1693	10.806	11.063	-0.257	2.379	1.0000
1694	11.737	11.841	-0.105	0.891	1.0000
1696	11.126	11.615	-0.489	4.394	1.0000
1697	12.434	12.344	0.089	0.717	1.0000
1699	12.648	12.014	0.634	5.011	1.0000
1702	11.306	11.887	-0.581	5.139	1.0000
1703	11.615	10.978	0.638	5.491	1.0000
1704	9.925	11.757	-1.832	18.462	0.4741

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Robust Residuals and Weights (Continued)**

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1708	11.682	11.851	-0.169	1.448	1.0000
1709	12.861	11.756	1.105	8.593	0.7860
1713	11.109	11.770	-0.661	5.954	1.0000
1715	10.954	11.909	-0.956	8.724	0.9091
1717	12.630	12.282	0.349	2.761	1.0000
1719	11.767	12.212	-0.445	3.781	1.0000
1720	12.648	12.100	0.548	4.335	1.0000
1722	11.340	11.945	-0.605	5.336	1.0000
1725	10.741	11.907	-1.166	10.855	0.7451
1727	11.823	12.255	-0.431	3.649	1.0000
1732	12.778	12.192	0.587	4.592	1.0000
1734	11.862	12.013	-0.150	1.266	1.0000
1735	11.953	11.980	-0.027	0.227	1.0000
1738	12.149	11.618	0.532	4.376	1.0000
1740	11.795	11.994	-0.199	1.686	1.0000
1743	11.586	11.819	-0.233	2.014	1.0000
1745	11.113	11.683	-0.569	5.123	1.0000
1747	12.084	11.967	0.116	0.963	1.0000
1749	11.021	11.862	-0.841	7.634	1.0000
1750	12.761	12.405	0.356	2.793	1.0000
1751	11.583	12.471	-0.888	7.668	0.9781
1752	12.523	12.286	0.237	1.892	1.0000
1754	12.850	12.391	0.458	3.567	1.0000
1757	12.078	12.395	-0.317	2.623	1.0000
1758	12.005	12.220	-0.215	1.793	1.0000
1759	12.815	11.670	1.145	8.937	0.7585
1762	10.605	11.871	-1.266	11.938	0.6862
1764	11.869	11.077	0.792	6.675	1.0000
1773	12.641	12.382	0.259	2.045	1.0000
1777	12.737	12.284	0.453	3.558	1.0000
1780	11.326	11.562	-0.236	2.084	1.0000
1781	11.180	11.698	-0.518	4.633	1.0000
1785	12.219	12.155	0.064	0.522	1.0000
1786	12.688	12.184	0.504	3.972	1.0000
1787	12.005	11.841	0.164	1.370	1.0000
1790	11.105	11.988	-0.884	7.959	0.9829
1793	12.320	11.458	0.862	7.000	1.0000
1795	11.481	11.059	0.421	3.670	1.0000
1798	11.657	11.921	-0.263	2.260	1.0000
1800	11.254	12.006	-0.752	6.684	1.0000
1801	12.836	11.904	0.933	7.265	0.9316
1802	11.110	10.928	0.182	1.639	1.0000
1805	12.690	12.380	0.310	2.442	1.0000

## Robust Multiple Regression Report

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

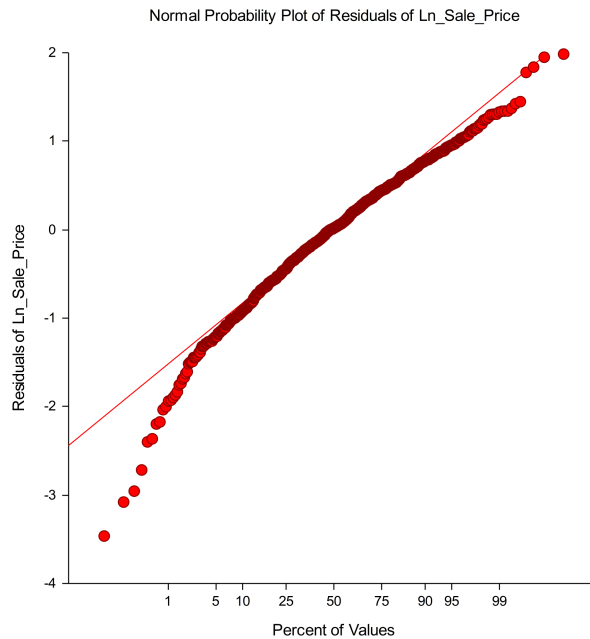
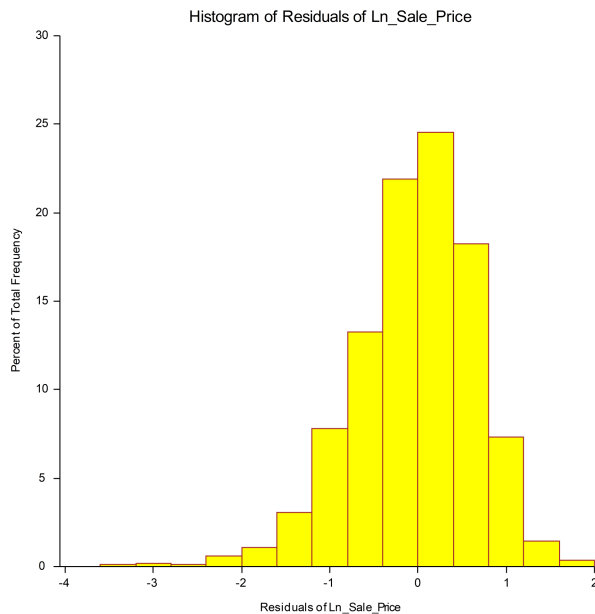
Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1806	12.381	12.315	0.066	0.532	1.0000
1808	13.415	11.967	1.448	10.793	0.6000
1809	12.968	11.788	1.180	9.096	0.7365
1810	12.562	12.245	0.316	2.519	1.0000
1812	11.994	11.481	0.513	4.280	1.0000
1813	11.828	12.233	-0.405	3.424	1.0000
1814	11.951	11.966	-0.015	0.125	1.0000
1815	11.635	12.017	-0.382	3.286	1.0000

### Distributional Plots of Residuals



## Robust Multiple Regression Report

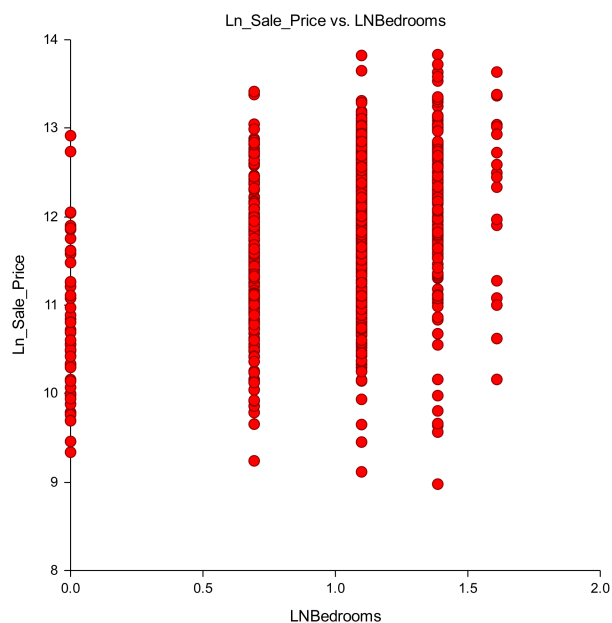
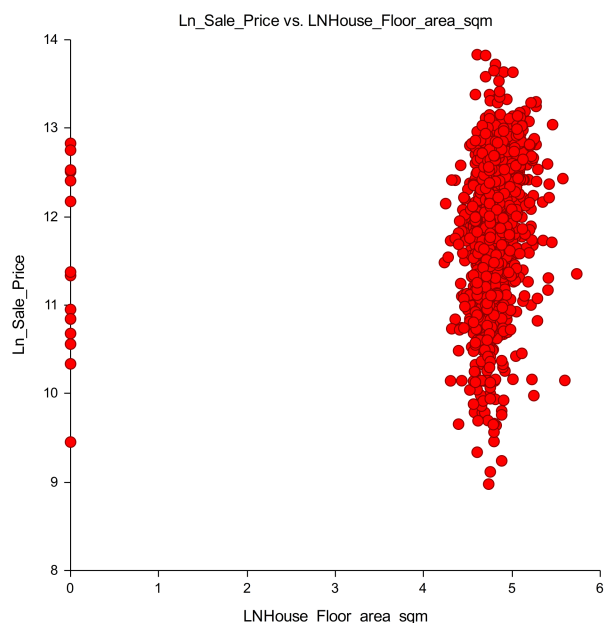
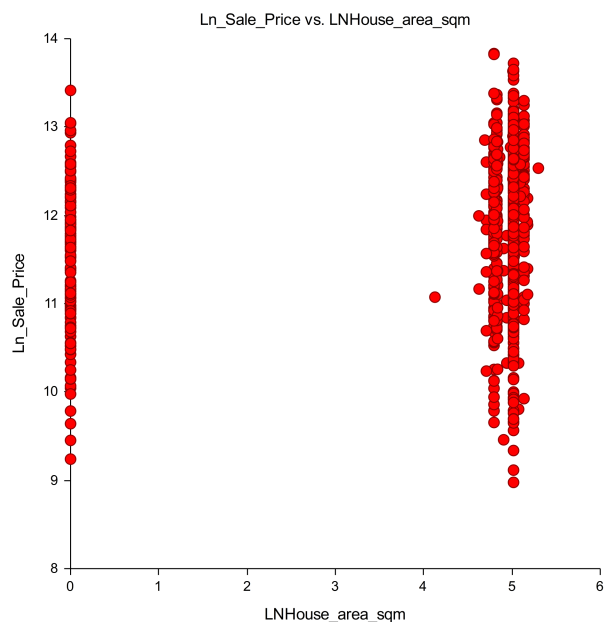
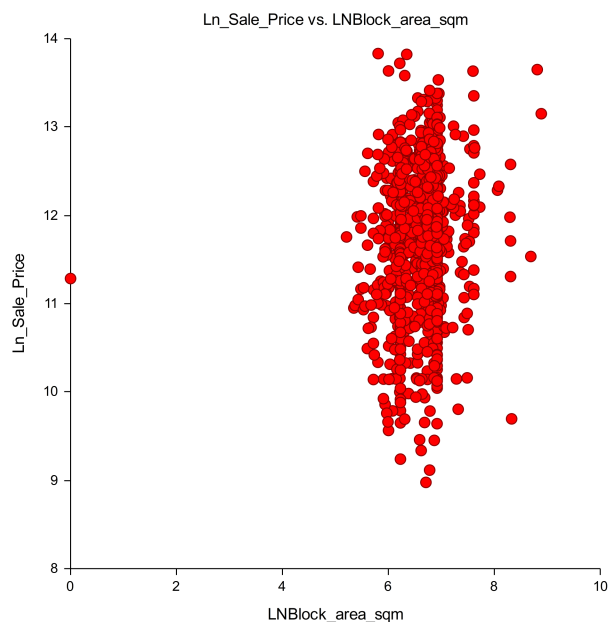
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Y vs X Plots



## Robust Multiple Regression Report

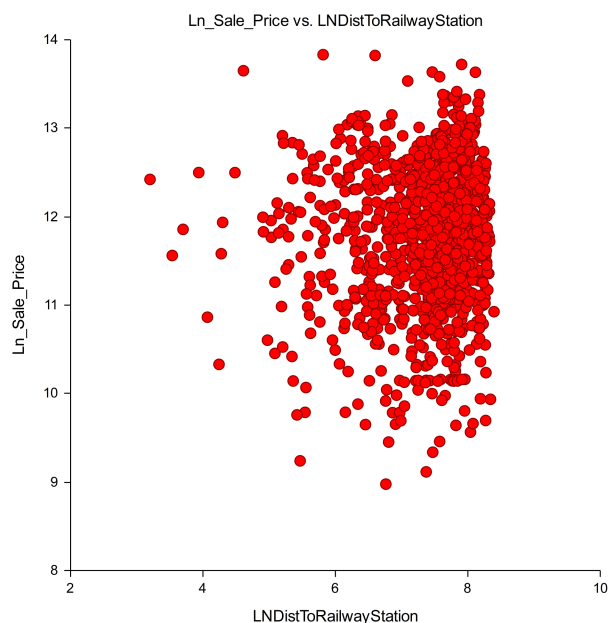
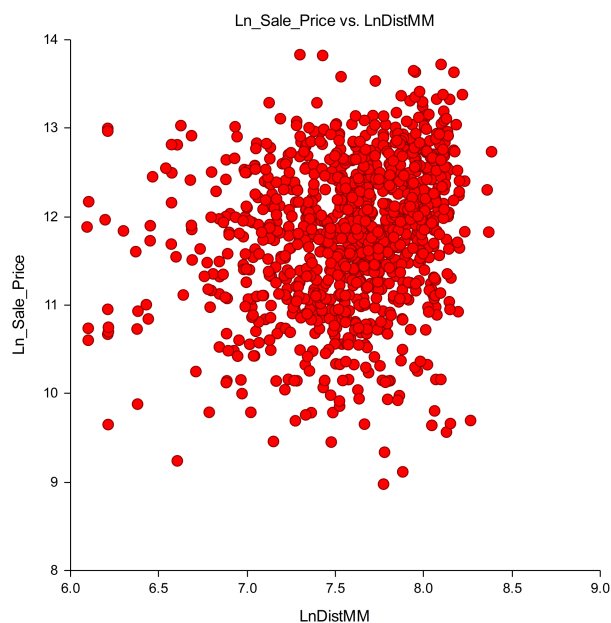
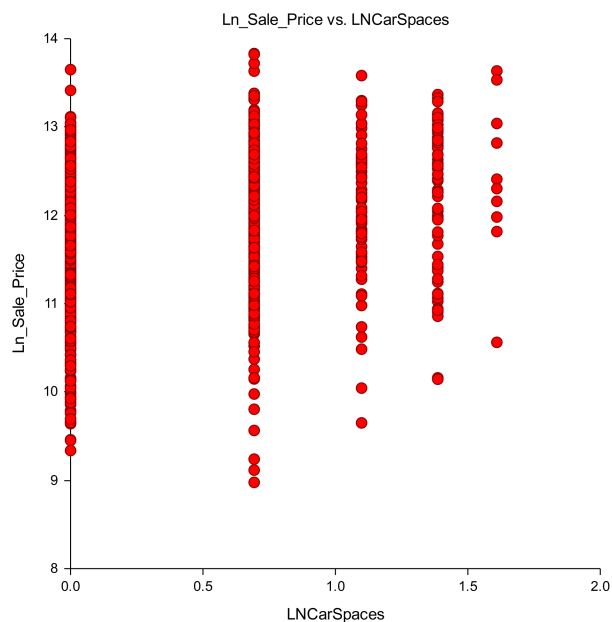
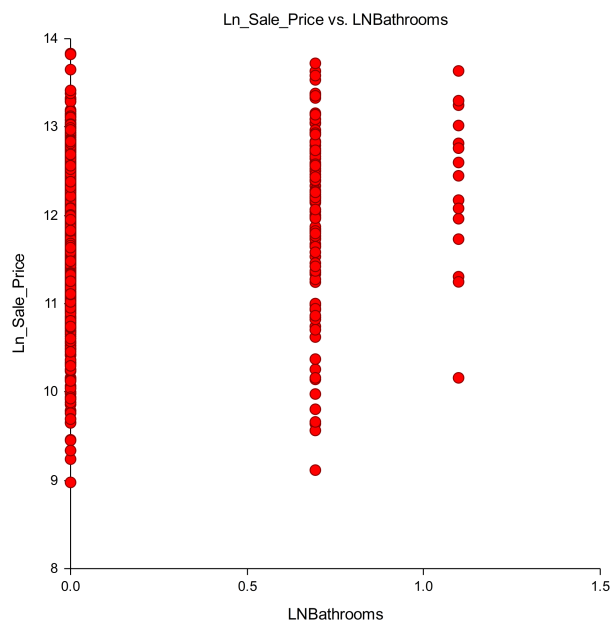
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Y vs X Plots (Continued)



## Robust Multiple Regression Report

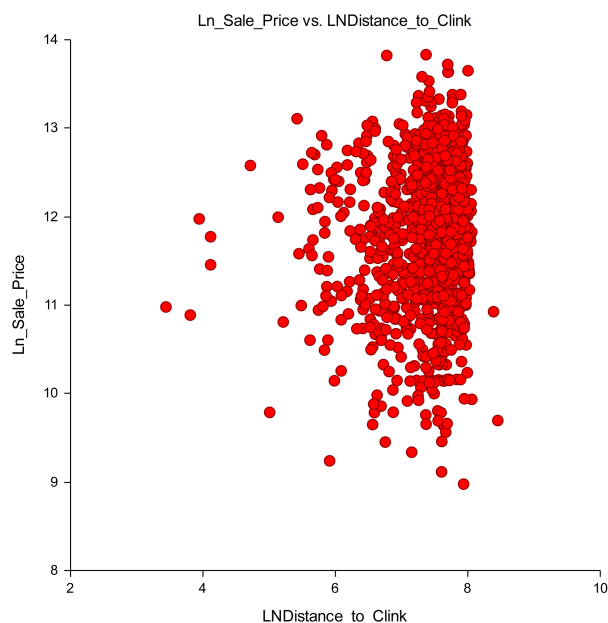
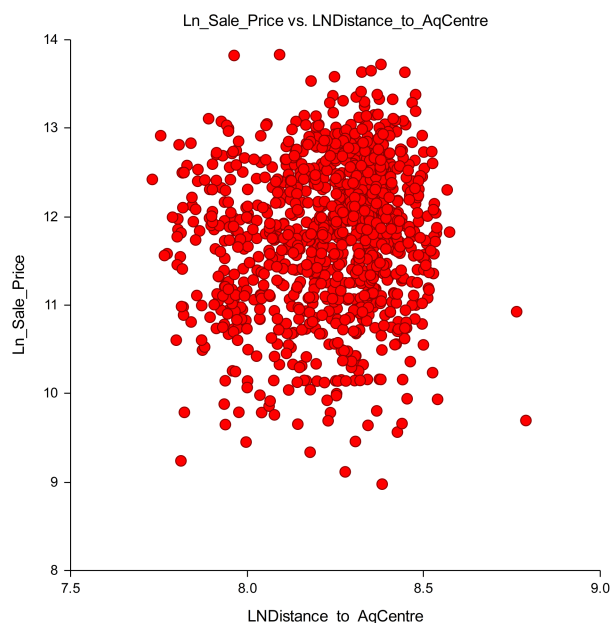
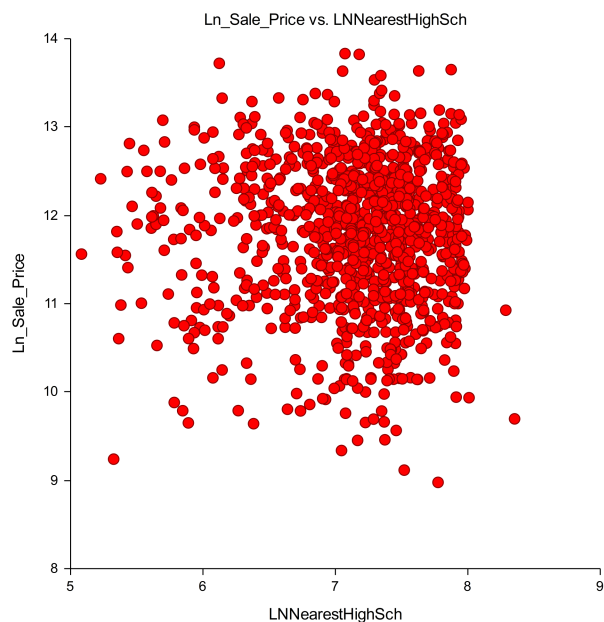
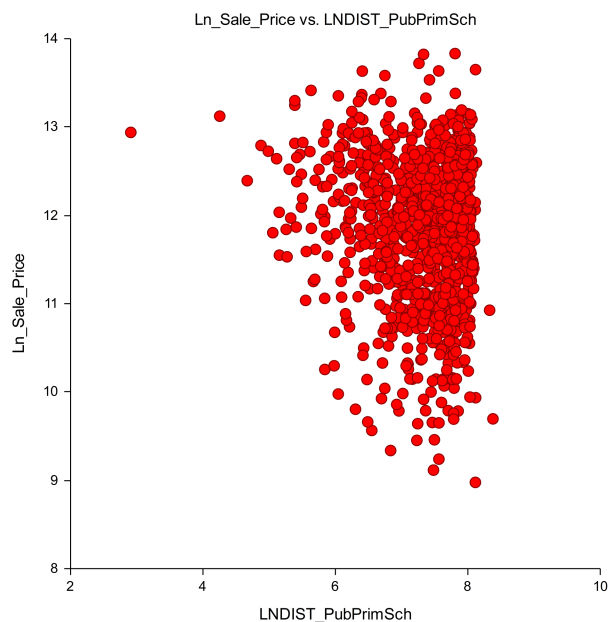
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Y vs X Plots (Continued)



## Robust Multiple Regression Report

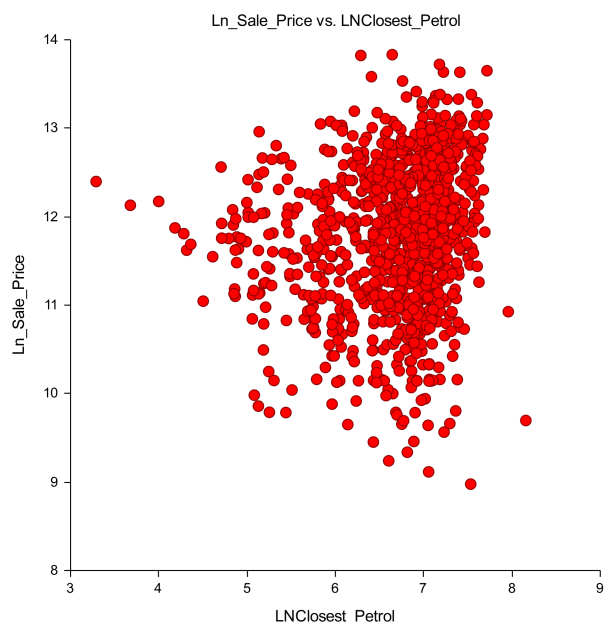
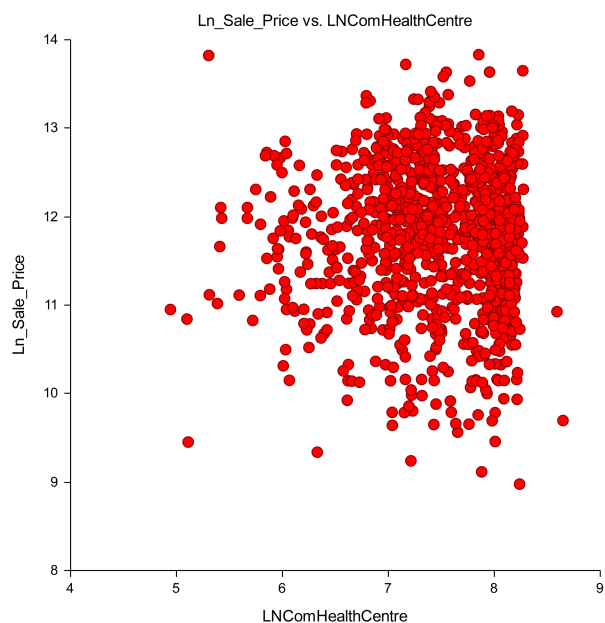
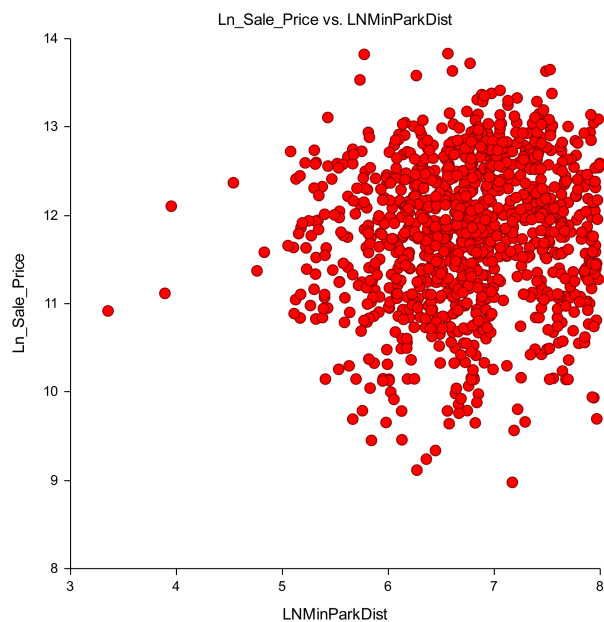
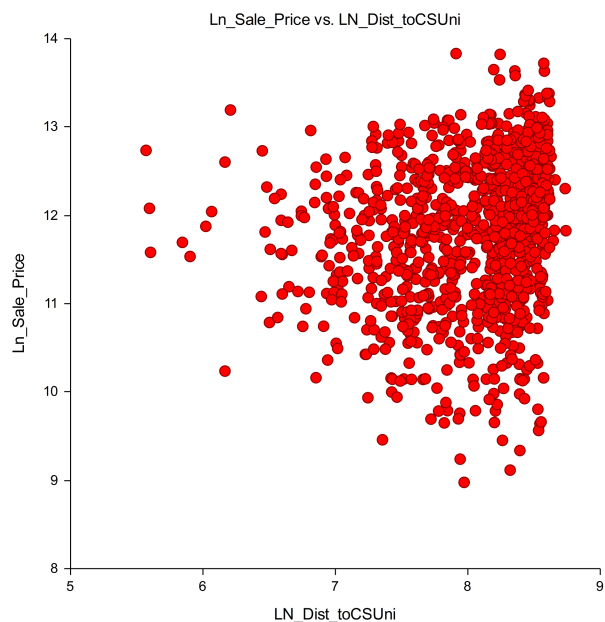
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Y vs X Plots (Continued)



## Robust Multiple Regression Report

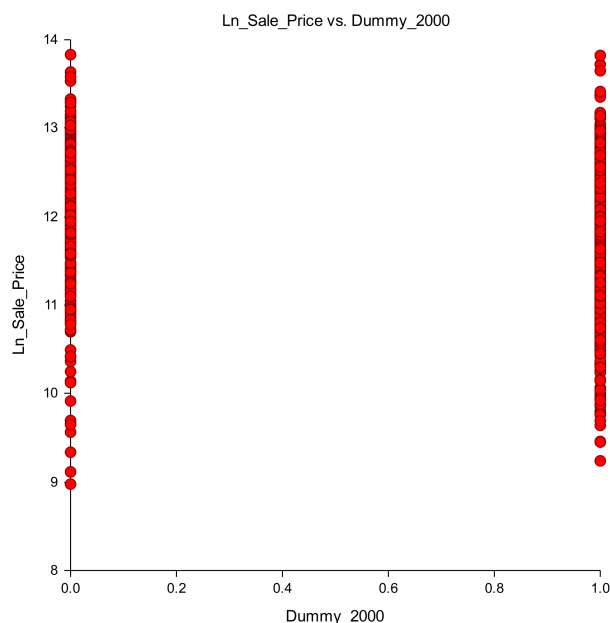
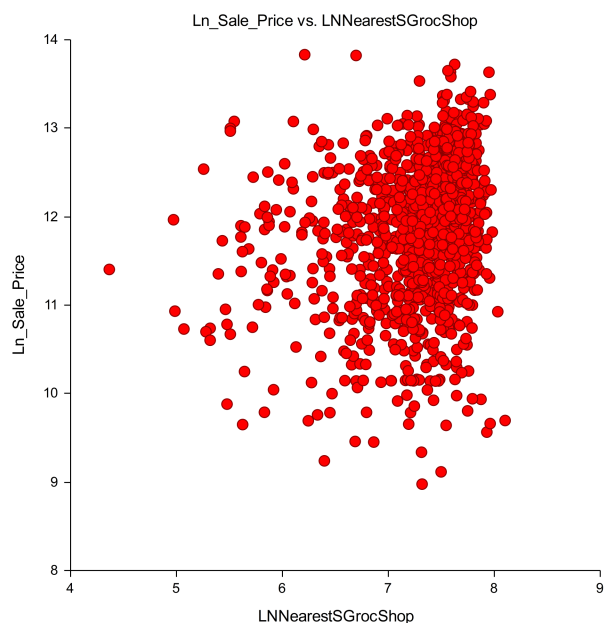
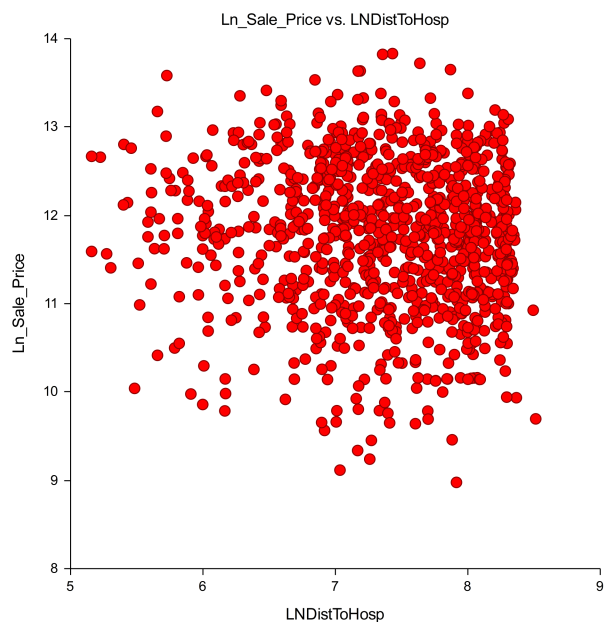
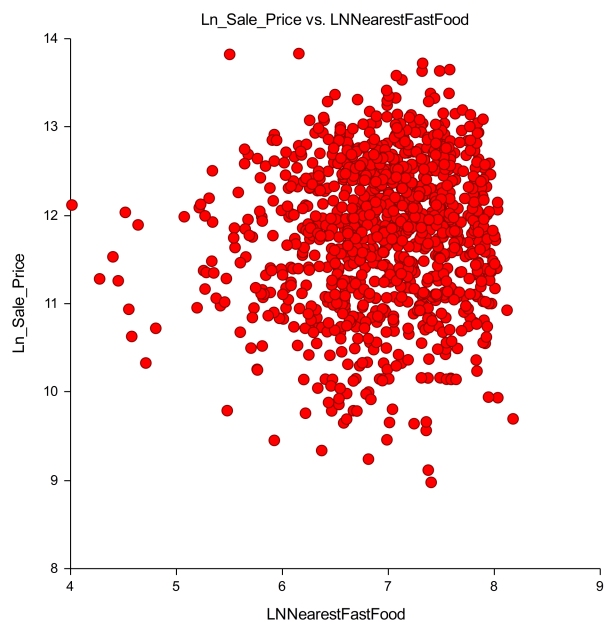
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Y vs X Plots (Continued)





## Robust Multiple Regression Report

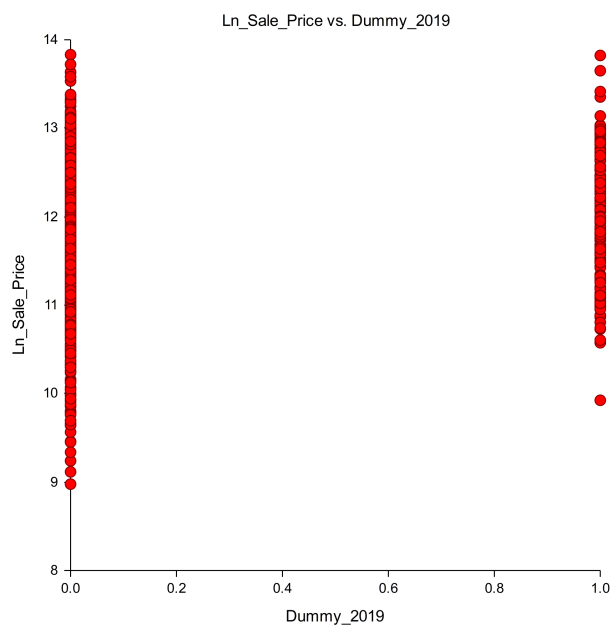
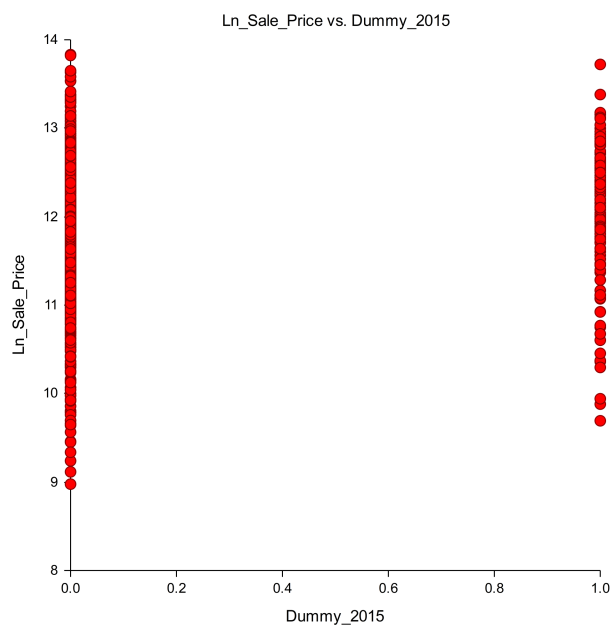
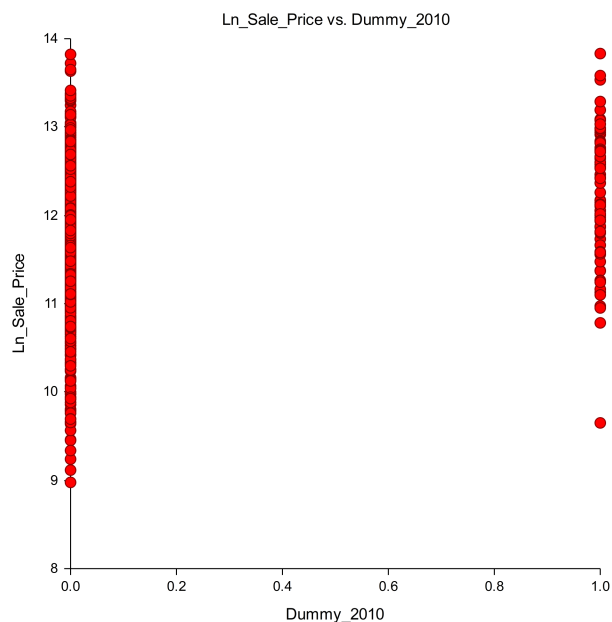
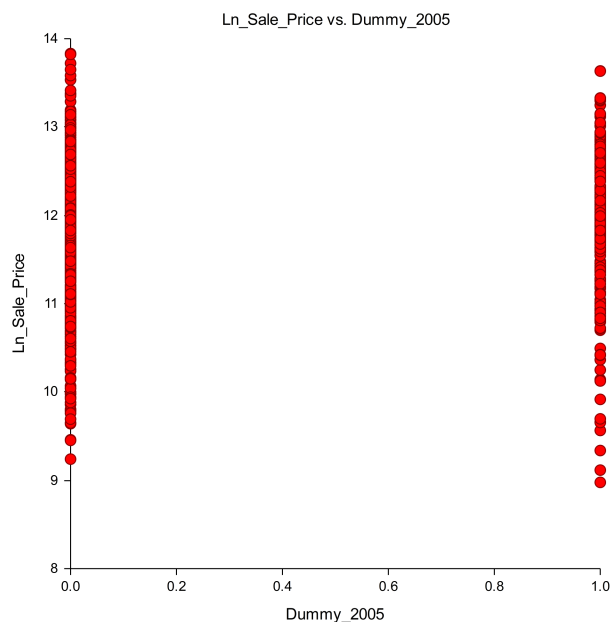
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Y vs X Plots (Continued)



## Robust Multiple Regression Report

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

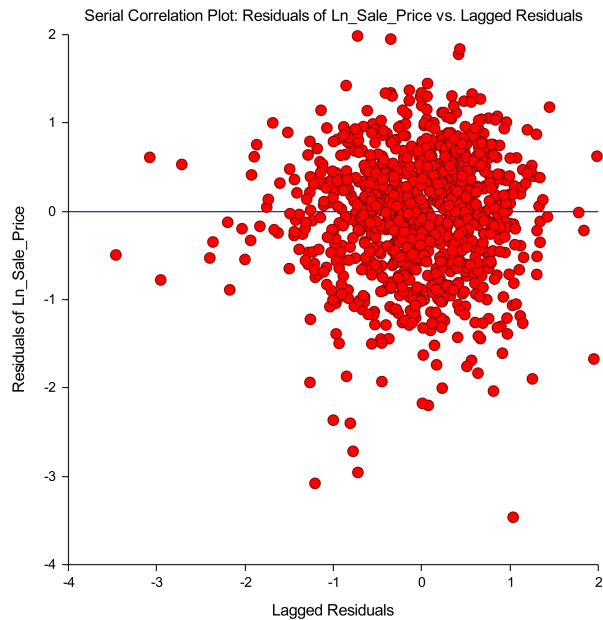
Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Serial Correlation Plot: Residuals vs Lagged Residuals

---



## Robust Multiple Regression Report

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

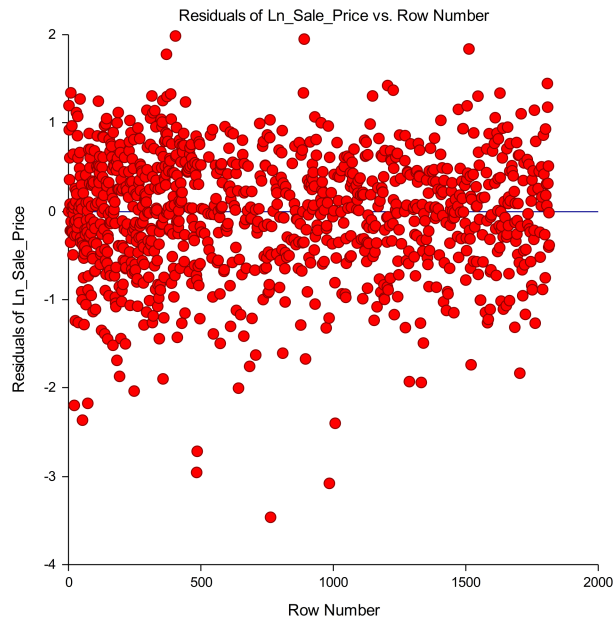
Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Sequence Plot: Residuals vs Row

---



## Robust Multiple Regression Report

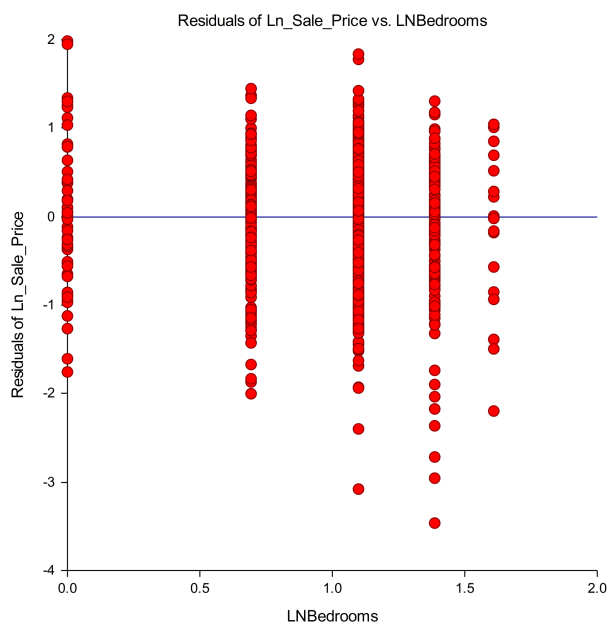
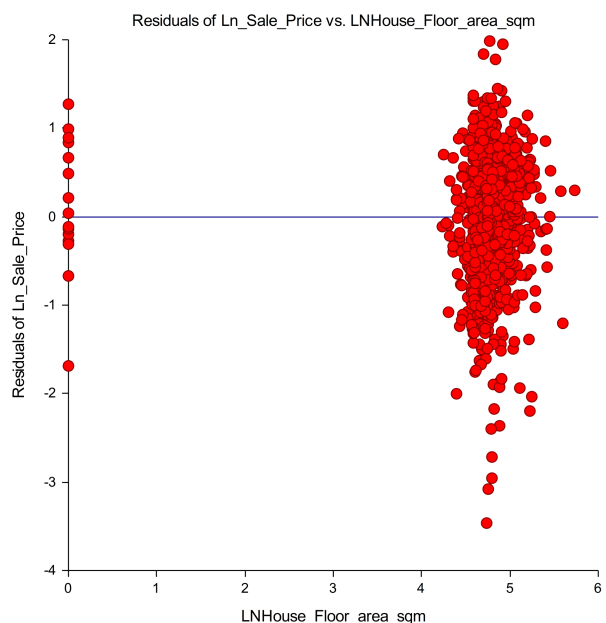
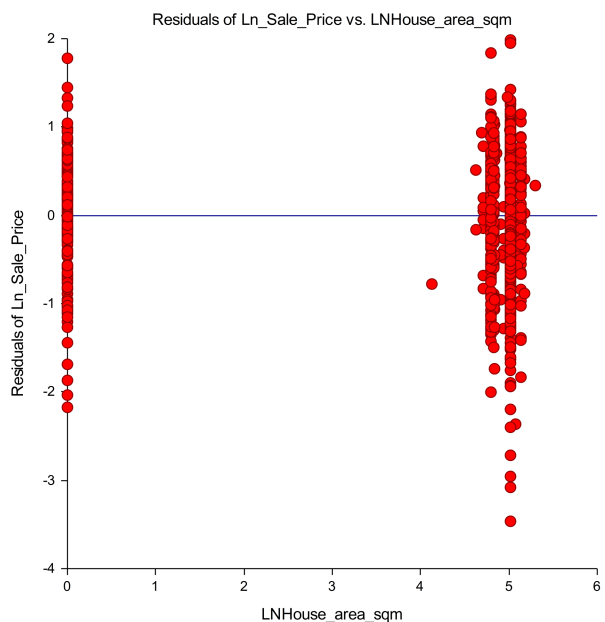
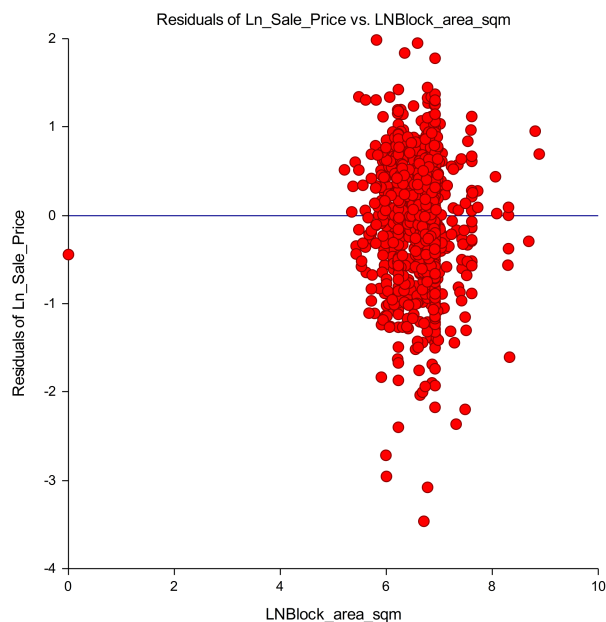
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Residuals vs X Plots



## Robust Multiple Regression Report

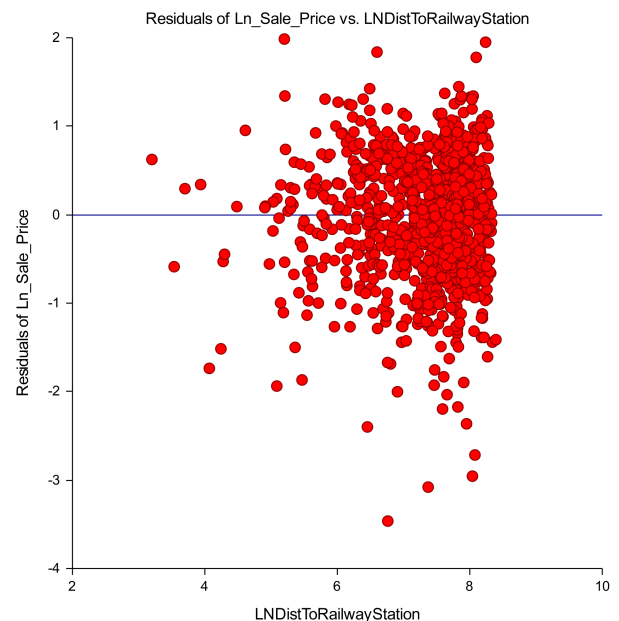
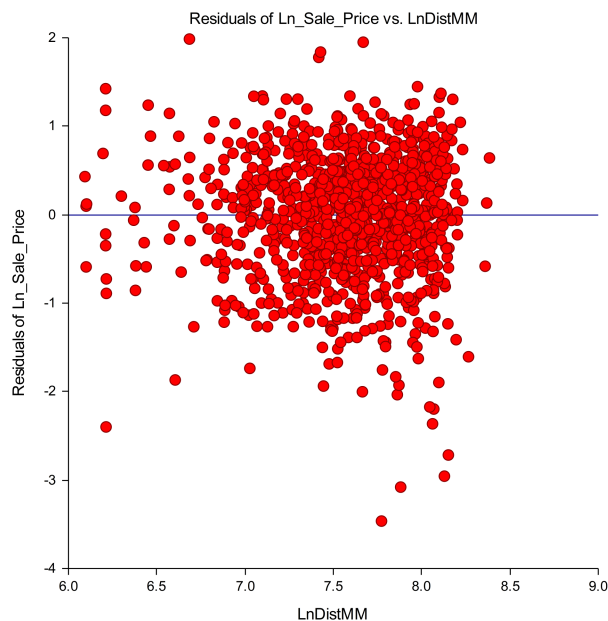
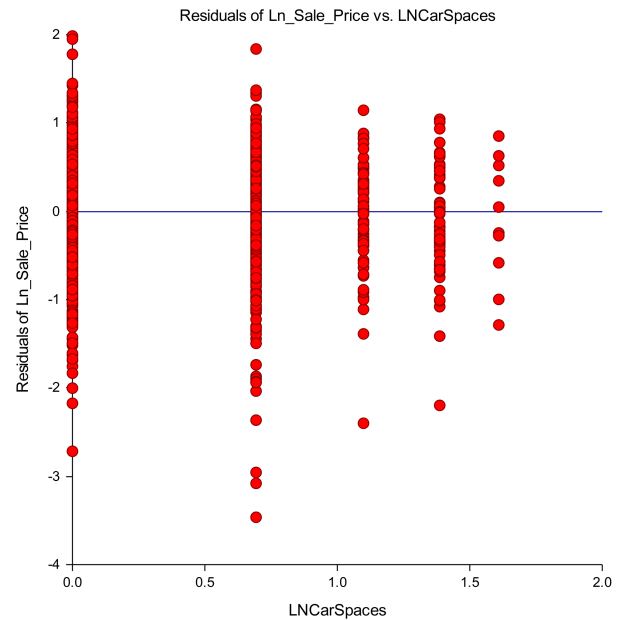
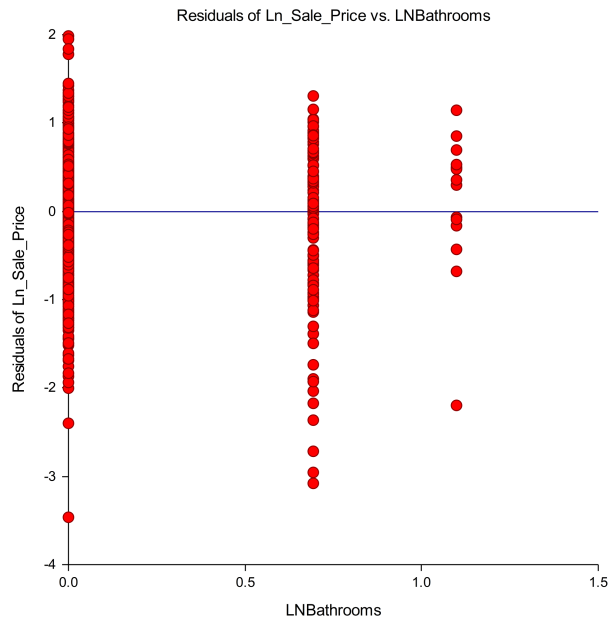
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Residuals vs X Plots (Continued)



## Robust Multiple Regression Report

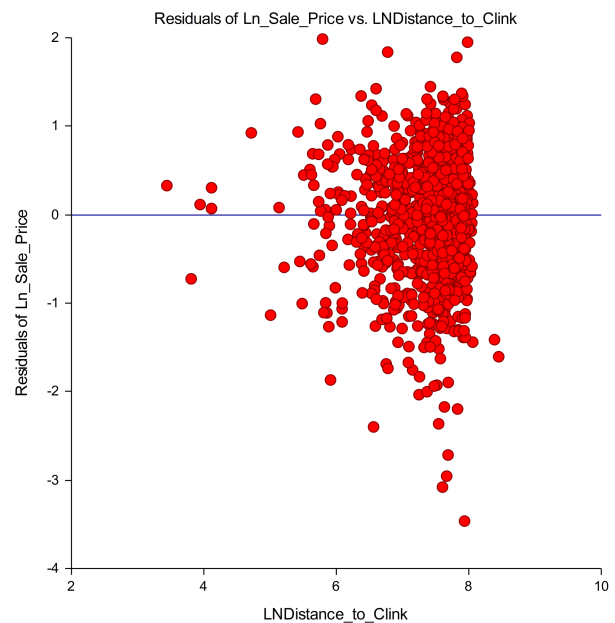
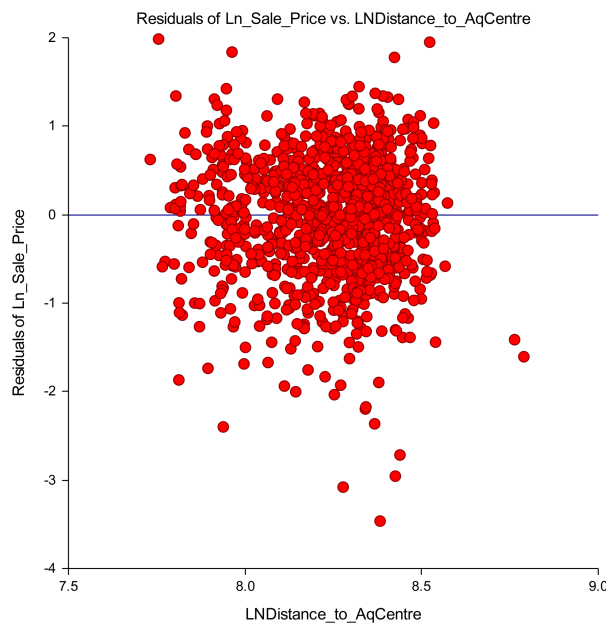
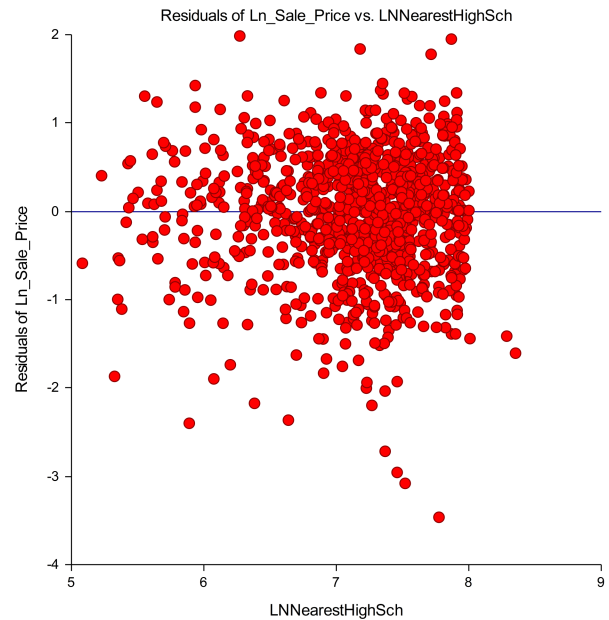
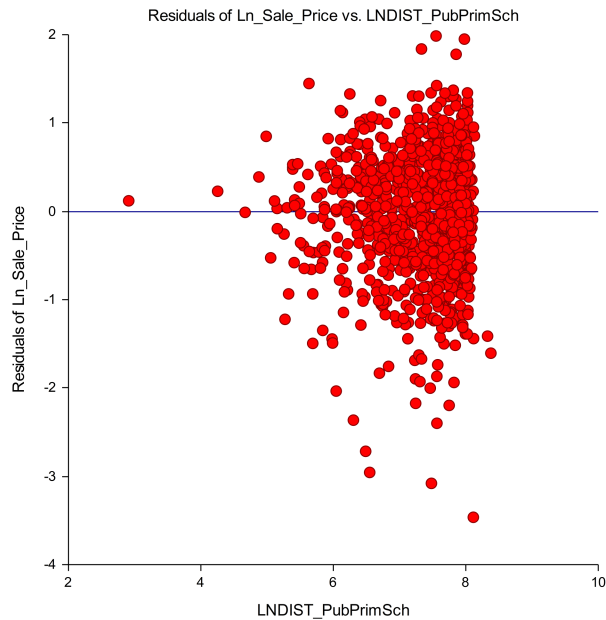
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Residuals vs X Plots (Continued)



## Robust Multiple Regression Report

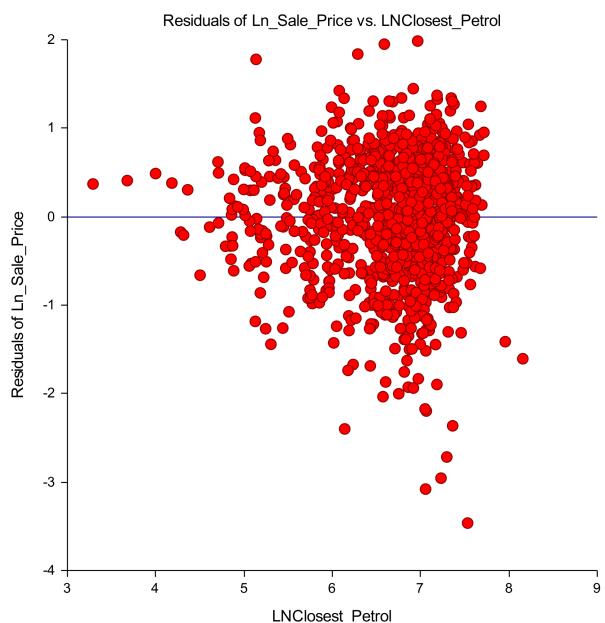
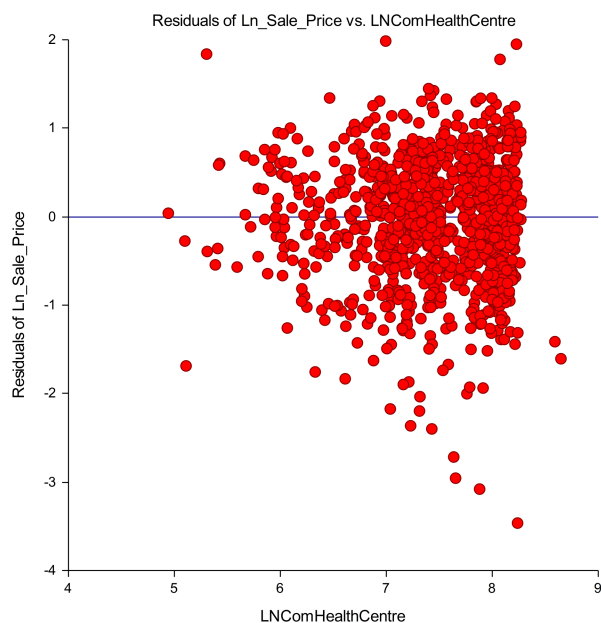
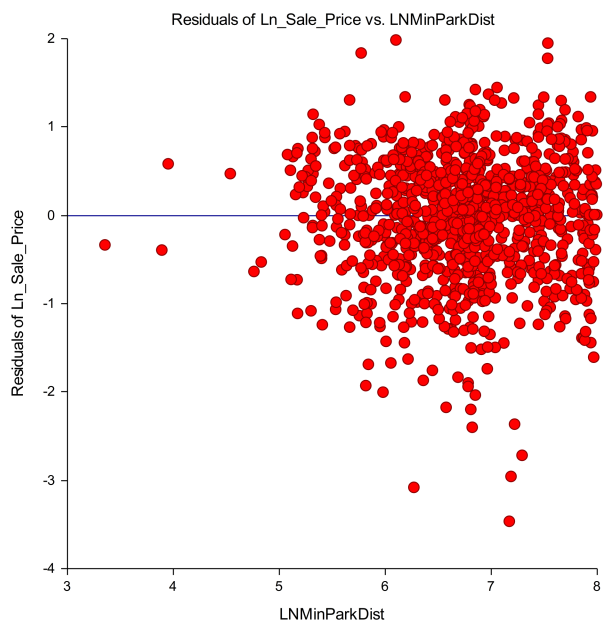
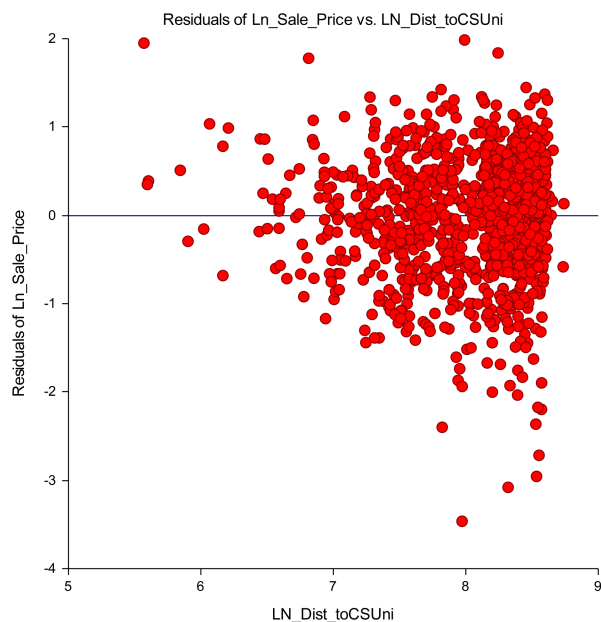
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Residuals vs X Plots (Continued)



## Robust Multiple Regression Report

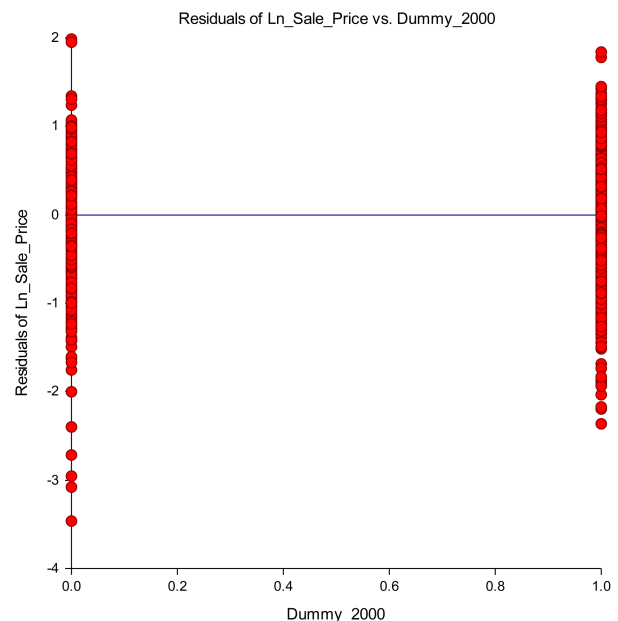
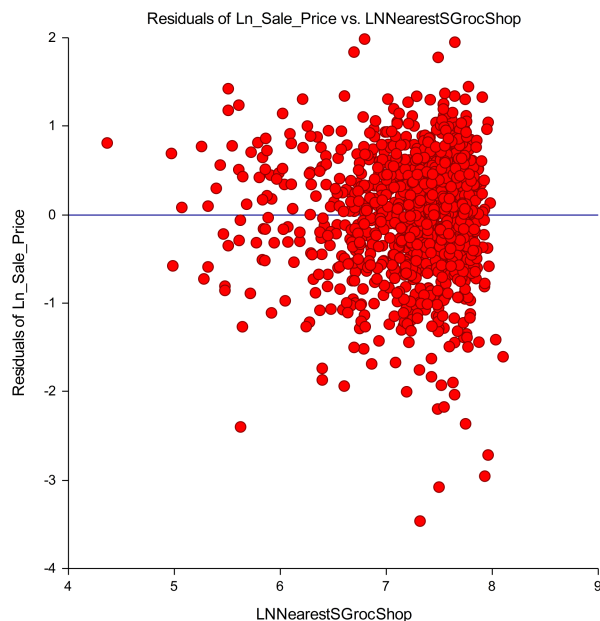
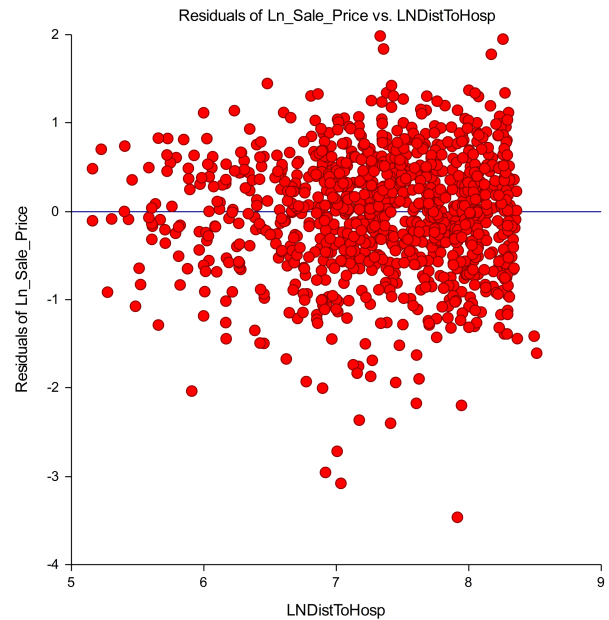
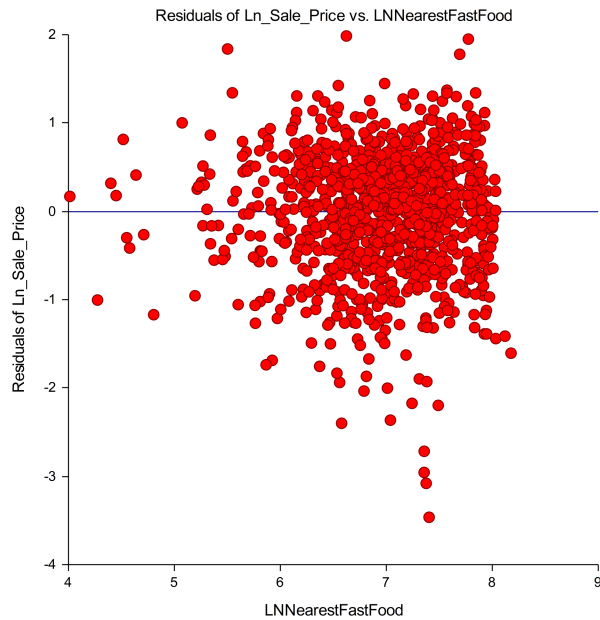
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Residuals vs X Plots (Continued)





## Robust Multiple Regression Report

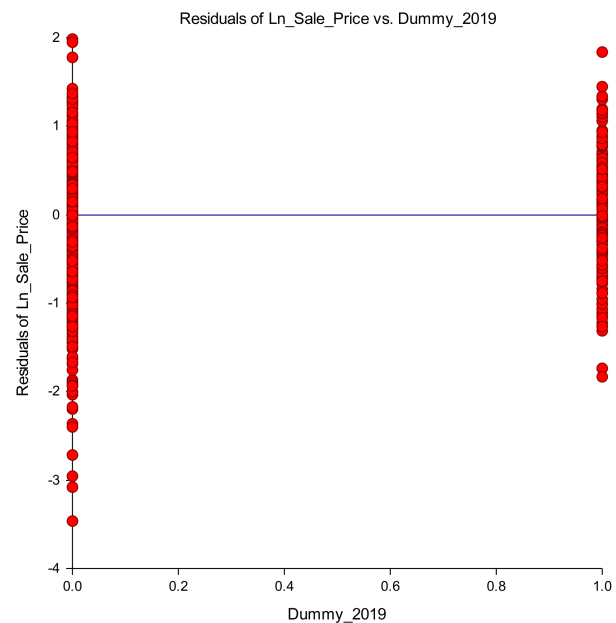
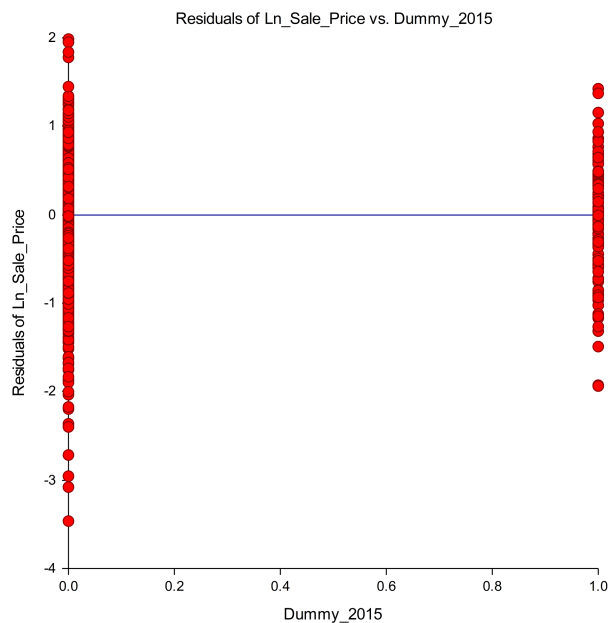
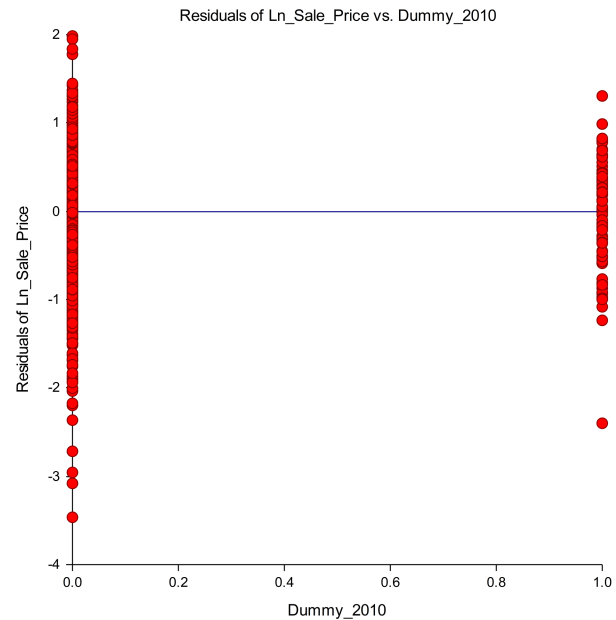
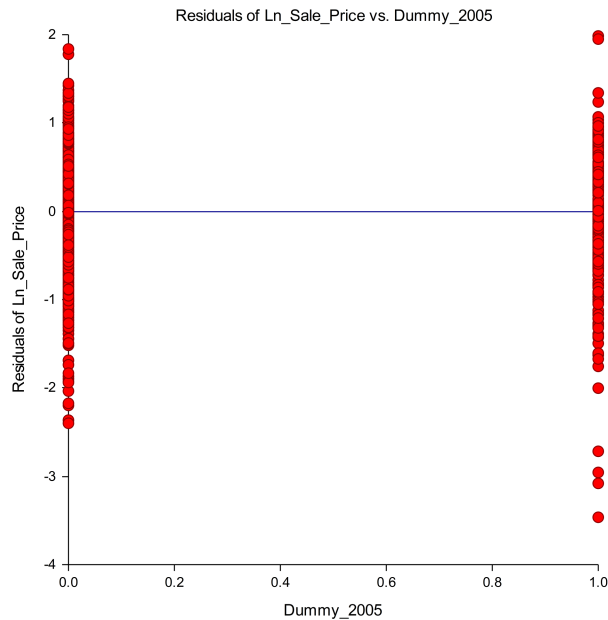
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

### Residuals vs X Plots (Continued)



**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Procedure Input Settings****Autosaved Template File**

C:\Users\Dr\_Ia\Documents\NCSS 2022\Procedure Templates\Autosave\Robust Regression - Autosaved 2023\_4\_11-14\_19\_38.t158

**Variables, Model Tab**

-- Variables -----

Y: Ln\_Sale\_Price

Numeric X's: LNBlock\_area\_sqm, LNHouse\_area\_sqm, LNHouse\_Floor\_area\_sqm, LNBedrooms, LNBathrooms, LNCarSpaces, LnDistMM, LNDistToRailwayStation, LNDIST\_PubPrimSch, LNNearestHighSch, LNDistance\_to\_AqCentre, LNDistance\_to\_Clink, LN\_Dist\_toCSUni, LNMinParkDist, LNComHealthCentre, LNClosest\_Petrol, LNNearestFastFood, LNDistToHosp, LNNearestSGrocShop, Dummy\_2000, Dummy\_2005, Dummy\_2010, Dummy\_2015, Dummy\_2019

Categorical X's: <Empty>

Weights: <Empty>

-- Regression Model -----

Terms: 1-Way

Remove Intercept Unchecked

**Robust Tab**

-- Robust Regression Options -----

-- Robust Method -----

Robust Influence Function: Huber's Method

Huber's Tuning Constant: 1.345

-- Scale Factor -----

MAD Scale Factor: 0.6745

-- Stop Iterating When -----

Maximum Percent Change in Beta Estimates is ≤: 0.001

Number of Iterations is: 30

**Reports Tab**

-- Alphas and Confidence Levels -----

Tests Alpha: 0.050

Assumptions Alpha: 0.20

Confidence Level: 95

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Procedure Input Settings (Continued)****Reports Tab (Continued)**

-- Select Reports -----	
.. Summaries .....	
Run Summary	Checked
Descriptive Statistics	Checked
Correlations	Unchecked
Iterations - Coefficients	Checked
Iterations - Residuals	Checked
.. Regression Coefficients .....	
Coef T-Tests Fixed Wts	Checked
Coef T-Tests Random Wts	Checked
Coef CI's Fixed Wts	Checked
Coef CI's Random Wts	Checked
Estimated Equation	Checked
Bootstrap CI's	Unchecked
.. ANOVA .....	
ANOVA Summary	Checked
ANOVA Detail	Unchecked
.. Assumptions .....	
PRESS Statistics	Checked
Normality Tests	Checked
Durbin-Watson	Checked
.. X Diagnostics .....	
R <sup>2</sup>	Checked
Variable Omission	Checked
Sum of Squares	Checked
Sequential Models	Checked
Multicollinearity	Checked
.. Eigenvalues .....	
Eigenvalues - Centered	Unchecked
Eigenvectors - Centered	Unchecked
Eigenvalues - Uncentered	Unchecked
Eigenvectors - Uncentered	Unchecked

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Procedure Input Settings (Continued)****Reports Tab (Continued)**

.. Row-by-Row Lists .....	
Show:	All Rows
Predicted for Means	Unchecked
Predicted for Individuals	Unchecked
Residuals	Unchecked
Regression Diagnostics	Unchecked
DFBETAS	Unchecked
Robust Residuals	Checked
Weight Cutoff:	1

**Report Options Tab**

-- Labels -----	
Stagger label and output if label length is ≥	15
-- Decimal Places -----	
Precision:	Double
Reg Coefficients:	5
Std Error of b's:	6
Test Statistics:	3
Probabilities:	4
Percentages:	3
Means:	3
Std Deviations:	3
R <sup>2</sup> , Correlations, Standardized Coef's:	4
Mean Squares, Sum of Squares:	2
Y's, Residuals, etc.:	3
Std Error of Y:	3
Eigenvalues:	4
Eigenvectors:	4
Diagonal of X'X Inverse:	All

**Plots Tab**

-- Select Plots -----	
.. Distribution of Residuals .....	
Histogram	Checked
Probability Plot	Checked
.. Y vs X .....	
Y vs X	Checked

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Procedure Input Settings (Continued)****Plots Tab (Continued)**

.. Residual Analysis Plots .....	
Serial Correlation	Checked
Resids vs Row	Checked
RStudent vs Hat	Unchecked
Resids vs Yhat	Unchecked
Resids vs X	Checked
RStudent vs X	Unchecked
Partial Resids vs X	Unchecked
.. Bootstrap Histograms .....	
Coefficient C.I.'s	Checked

**Storage Tab**

-- Select Items to Store with the Dataset -----	
.. Row-by-Row Items .....	
Predicted Y	Unchecked
Residuals	Unchecked
Standard Error of the Predicted Mean	Unchecked
Lower Confidence Limit of the Predicted Mean	Unchecked
Upper Confidence Limit of the Predicted Mean	Unchecked
Standard Error of a Predicted Individual	Unchecked
Lower Confidence Limit of a Predicted Individual	Unchecked
Upper Confidence Limit of a Predicted Individual	Unchecked
Rstudent	Unchecked
Hat Diagonals	Unchecked
CovRatio	Unchecked
Dffits	Unchecked
MSE(i)	Unchecked
Cook's D	Unchecked
Robust Weights	Unchecked
DFBETAS	Unchecked
.. Matrices .....	
X'X Inverse Matrix	Unchecked
VC(Betas) Matrix	Unchecked
Expanded X Matrix	Unchecked

**Robust Multiple Regression Report**

Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln\_Sale\_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy\_2010) has been zeroed out. Remove it to prevent errors!

**Procedure Input Settings (Continued)****Storage Tab (Continued)**

.. Storage Options .....	
Storage Location:	In empty column(s) after the last column with data
Skip one or more columns before item storage	Unchecked
Rename the storage column(s) using the item name(s)	Checked
Add a Note about each stored item in the Column Info table	Checked
Overlay storage data when the Group By System is active	Unchecked