

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Run Summary Report**

Item	Value	Rows	Value
Dependent Variable	Log_10_Sale_Price	Number Processed	1816
Number Ind. Variables	10	Number Used in Estimation	1638
Weight Variable	None	Number Filtered Out	0
Robust Method	Huber's Method	Number with X's Missing	178
Tuning Constant	1.345	Number with Weight Missing	0
MAD Scale Factor	0.6745	Number with Y Missing	0
		Sum of Robust Weights	1545.094
<b>Run Information</b>	<b>Value</b>		
Iterations	14		
Max % Change in any Coef	0.000		
R <sup>2</sup> after Robust Weighting	0.4964		
S using MAD	0.25		
S using MSE	0.25		
Completion Status	Warnings Issued		

**Descriptive Statistics**

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
DistanceMM	1638	2089.529	707.814	436.31536	4579.691054
Dummy_2000	1638	0.555	0.483	0	1
Dummy_2005	1638	0.334	0.458	0	1
Dummy_2010	1638	0.111	0.305	0	1
Dummy_2015	1638	0.164	0.360	0	1
Dummy_2019	1638	0.172	0.367	0	1
House_Floor_area_sqm	1638	118.490	29.814	0	309
Bedrooms	1638	2.903	0.727	1	5
Bathrooms	1638	1.145	0.383	1	5
Car_Spaces	1638	1.665	0.886	1	5
Log_10_Sale_Price	1638	4.878	0.346	3.54406804435028	6.07918124604763

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**Robust Iterations - Coefficients**

Robust Iteration	Max Percent Change in Coefficients	b(0)	b(1)	b(2)	b(3)
0		4.48864	0.00007	-0.61582	-0.36334
1	412.073	3.87239	0.00008	-0.05990	0.20770
2	711.696	4.28905	0.00008	-0.48623	-0.21683
3	4.016	4.28740	0.00008	-0.48635	-0.21676
4	72.992	4.12894	0.00008	-0.32807	-0.05854
5	216.681	4.25574	0.00008	-0.45490	-0.18539
6	100.000	4.28716	0.00008	-0.48633	-0.21683
7	962.358	6.37382	0.00008	-2.57299	-2.30349
8	100.000	4.28716	0.00008	-0.48633	-0.21683
9	0.002	4.28716	0.00008	-0.48633	-0.21683
10	191.708	3.87148	0.00008	-0.07065	0.19885
11	588.388	4.28716	0.00008	-0.48633	-0.21683
12	23.572	4.33827	0.00008	-0.53744	-0.26794
13	100.000	4.28716	0.00008	-0.48633	-0.21683
14	0.000	4.28716	0.00008	-0.48633	-0.21683

**Robust Iterations - Residuals**

Robust Iteration	Max Percent Change in Coefficients	Percentiles of Absolute Residuals			
		25th	50th	75th	100th
0		0.084	0.178	0.319	1.406
1	412.073	0.083	0.176	0.316	1.429
2	711.696	0.083	0.175	0.315	1.432
3	4.016	0.083	0.175	0.315	1.432
4	72.992	0.083	0.175	0.315	1.432
5	216.681	0.083	0.175	0.315	1.432
6	100.000	0.083	0.175	0.315	1.432
7	962.358	0.083	0.175	0.315	1.432
8	100.000	0.083	0.175	0.315	1.432
9	0.002	0.083	0.175	0.315	1.432
10	191.708	0.083	0.175	0.315	1.432
11	588.388	0.083	0.175	0.315	1.432
12	23.572	0.083	0.175	0.315	1.432
13	100.000	0.083	0.175	0.315	1.432
14	0.000	0.083	0.175	0.315	1.432

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**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	4.28716	0.038684	0.0000	110.825	0.0000	Yes
DistanceMM	0.00008	0.000009	0.1582	8.779	0.0000	Yes
Dummy_2000	-0.48633	0.023192	-0.6778	-20.970	0.0000	Yes
Dummy_2005	-0.21683	0.021791	-0.2868	-9.951	0.0000	Yes
Dummy_2010	0.00000	0.000000	0.0000	0.000	1.0000	No
Dummy_2015	0.46995	0.020588	0.4879	22.826	0.0000	Yes
Dummy_2019	0.53597	0.020235	0.5675	26.488	0.0000	Yes
House_Floor_area_sqm	0.00144	0.000213	0.1242	6.771	0.0000	Yes
Bedrooms	0.10663	0.009362	0.2240	11.390	0.0000	Yes
Bathrooms	0.03824	0.017409	0.0423	2.197	0.0282	Yes
Car_Spaces	0.04658	0.007303	0.1192	6.378	0.0000	Yes

**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	4.28716	382542.177855	0.0000	0.000	1.0000	No
DistanceMM	0.00008	0.000010	0.1582	7.963	0.0000	Yes
Dummy_2000	-0.48633	382542.177855	-0.6778	0.000	1.0000	No
Dummy_2005	-0.21683	382542.177855	-0.2868	0.000	1.0000	No
Dummy_2010	0.00000	382542.177855	0.0000	0.000	1.0000	No
Dummy_2015	0.46995	0.022781	0.4879	20.629	0.0000	Yes
Dummy_2019	0.53597	0.022320	0.5675	24.013	0.0000	Yes
House_Floor_area_sqm	0.00144	0.000234	0.1242	6.176	0.0000	Yes
Bedrooms	0.10663	0.010266	0.2240	10.387	0.0000	Yes
Bathrooms	0.03824	0.019108	0.0423	2.001	0.0455	Yes
Car_Spaces	0.04658	0.008086	0.1192	5.760	0.0000	Yes

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**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	4.28716	0.038684	4.21134	4.36298
DistanceMM	0.00008	0.000009	0.00006	0.00009
Dummy_2000	-0.48633	0.023192	-0.53179	-0.44087
Dummy_2005	-0.21683	0.021791	-0.25954	-0.17412
Dummy_2010	0.00000	0.000000		
Dummy_2015	0.46995	0.020588	0.42960	0.51030
Dummy_2019	0.53597	0.020235	0.49631	0.57563
House_Floor_area_sqm				
	0.00144	0.000213	0.00103	0.00186
Bedrooms	0.10663	0.009362	0.08828	0.12498
Bathrooms	0.03824	0.017409	0.00412	0.07236
Car_Spaces	0.04658	0.007303	0.03227	0.06089

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

**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	4.28716	382542.177855	-749764.60403	749773.17834
DistanceMM	0.00008	0.000010	0.00006	0.00010
Dummy_2000	-0.48633	382542.177855	-749769.37751	749768.40485
Dummy_2005	-0.21683	382542.177855	-749769.10801	749768.67435
Dummy_2010	0.00000	382542.177855		
Dummy_2015	0.46995	0.022781	0.42530	0.51460
Dummy_2019	0.53597	0.022320	0.49222	0.57972
House_Floor_area_sqm				
	0.00144	0.000234	0.00099	0.00190
Bedrooms	0.10663	0.010266	0.08651	0.12675
Bathrooms	0.03824	0.019108	0.00079	0.07569
Car_Spaces	0.04658	0.008086	0.03073	0.06243

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

## Robust Multiple Regression Report

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### Estimated Equation

Log\_10\_Sale\_Price =  
 $4.2871572866286 + 7.74067627469375E-05 * \text{DistanceMM} - 0.48632980306671 * \text{Dummy\_2000} -$   
 $0.216830816354298 * \text{Dummy\_2005} + 0 * \text{Dummy\_2010} + 0.469948367875145 * \text{Dummy\_2015} +$   
 $0.535970950266138 * \text{Dummy\_2019} + 0.00144291308164644 * \text{House\_Floor\_area\_sqm} + 0.106628404443517$   
 $* \text{Bedrooms} + 0.038242101890728 * \text{Bathrooms} + 0.0465801499641122 * \text{Car\_Spaces}$

### Analysis of Variance

Source	DF	R <sup>2</sup>	Sum of Squares	Mean Square	F-Ratio	Prob Level
Intercept	1		36758.89	36758.89		
Model	10	0.4964	97.44	9.74	160.351	0.0000
Error	1627	0.5036	98.87	0.06		
Total(Adjusted)	1637	1.0000	196.31	0.12		

### PRESS Report

Parameter	From PRESS Residuals	From Regular Residuals
Sum of Squared Residuals	142.25	98.87
Sum of  Residuals	366.01	363.93
R <sup>2</sup>	0.2754	0.4964

### Normality Tests

Test Name	Test Statistic to Test H0: Normal	Prob Level	Reject H0 at 20%?
Shapiro Wilk	0.973	0.0000	Yes
Anderson Darling	8.027	0.0000	Yes
D'Agostino Skewness	-12.036	0.0000	Yes
D'Agostino Kurtosis	8.575	0.0000	Yes
D'Agostino Omnibus	218.398	0.0000	Yes

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**Serial Correlation of Residuals**

Lag	Serial Correlation	Lag	Serial Correlation	Lag	Serial Correlation
1	0.1095	9	0.0173	17	0.0063
2	0.0503	10	-0.0081	18	0.0189
3	-0.0177	11	-0.0134	19	0.0088
4	0.0151	12	-0.0199	20	0.0296
5	0.0141	13	0.0093	21	0.0233
6	-0.0056	14	-0.0076	22	-0.0052
7	-0.0119	15	-0.0112	23	-0.0213
8	-0.0302	16	0.0242	24	-0.0209

Above serial correlations are significant if their absolute values are greater than 0.0494.

**Durbin-Watson Test For Serial Correlation**

Parameter	Test Statistic to Test H0: $\rho(1) = 0$ ?	Reject H0 at 20%?
Durbin-Watson Value	1.781	
Prob. Level: Positive Serial Correlation	0.0000	Yes
Prob. Level: Negative Serial Correlation	1.0000	No

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**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
DistanceMM	0.0543	0.0543	0.0239	0.0543	0.0452
Dummy_2000	0.0553	0.0011	0.1361	0.0008	0.2128
Dummy_2005	0.0859	0.0306	0.0307	0.0062	0.0574
Dummy_2010	0.0000	0.0000	0.0000	0.0269	0.0000
Dummy_2015	0.1430	0.0571	0.1613	0.0453	0.2426
Dummy_2019	0.3787	0.2356	0.2172	0.0862	0.3013
House_Floor_area_sqm	0.4138	0.0351	0.0142	0.0537	0.0274
Bedrooms	0.4803	0.0665	0.0402	0.1231	0.0738
Bathrooms	0.4838	0.0035	0.0015	0.0414	0.0030
Car_Spaces	0.4964	0.0126	0.0126	0.0667	0.0244

**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	0.4964	0.06			
DistanceMM	0.4725	0.06	86.069	0.0000	0.0470
Dummy_2000	0.3602	0.08	448.729	0.0000	0.7037
Dummy_2005	0.4657	0.06	108.016	0.0000	0.6273
Dummy_2010	0.4964	0.06	9.000	1.0000	
Dummy_2015	0.3351	0.08	530.034	0.0000	0.3225
Dummy_2019	0.2792	0.09	710.592	0.0000	0.3256
House_Floor_area_sqm	0.4822	0.06	54.851	0.0000	0.0803
Bedrooms	0.4562	0.07	138.727	0.0000	0.1995
Bathrooms	0.4949	0.06	13.825	0.0282	0.1648
Car_Spaces	0.4838	0.06	49.683	0.0000	0.1140

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**Sum of Squares and Correlations**

Independent Variable	Sequential Sum of Squares	Incremental Sum of Squares	Last Sum of Squares	Simple Correlation	Partial Correlation
DistanceMM	10.65	10.65	4.68	0.2329	0.2127
Dummy_2000	10.86	0.21	26.72	-0.0291	-0.4613
Dummy_2005	16.87	6.01	6.02	-0.0786	-0.2395
Dummy_2010	0.00	0.00	0.00	0.1641	0.0000
Dummy_2015	28.08	11.21	31.66	0.2129	0.4925
Dummy_2019	74.34	46.26	42.63	0.2937	0.5489
House_Floor_area_sqm	81.23	6.89	2.79	0.2317	0.1656
Bedrooms	94.29	13.05	7.88	0.3509	0.2717
Bathrooms	94.97	0.68	0.29	0.2035	0.0544
Car_Spaces	97.44	2.47	2.47	0.2582	0.1562

**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
DistanceMM	0.0543	93.851	0.0000	0.4421	158.694	0.0000
Dummy_2000	0.0553	47.864	0.0000	0.4411	178.103	0.0000
Dummy_2005	0.0859	51.215	0.0000	0.4104	189.407	0.0000
Dummy_2010	0.0000	0.000	1.0000	0.4964	267.251	0.0000
Dummy_2015	0.1430	54.483	0.0000	0.3533	228.281	0.0000
Dummy_2019	0.3787	165.679	0.0000	0.1177	95.041	0.0000
House_Floor_area_sqm	0.4138	164.379	0.0000	0.0826	88.900	0.0000
Bedrooms	0.4803	188.188	0.0000	0.0161	25.947	0.0000
Bathrooms	0.4838	169.515	0.0000	0.0126	40.683	0.0000
Car_Spaces	0.4964	160.351	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.



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**Multicollinearity Report**

Independent Variable	Variance Inflation Factor	R <sup>2</sup> Versus Other I.V.'s	Tolerance	Diagonal of X'X Inverse
DistanceMM	1.0493	0.0470	0.9530	1.27941786513497E-09
Dummy_2000	3.3749	0.7037	0.2963	0.00885137959273519
Dummy_2005	2.6830	0.6273	0.3727	0.00781393033509333
Dummy_2010	0.0000			0
Dummy_2015	1.4761	0.3225	0.6775	0.00697539060440461
Dummy_2019	1.4827	0.3256	0.6744	0.00673801139048474
House_Floor_area_sqm	1.0873	0.0803	0.9197	7.47250118596929E-07
Bedrooms	1.2492	0.1995	0.8005	0.00144227939385607
Bathrooms	1.1974	0.1648	0.8352	0.00498775728735689
Car_Spaces	1.1287	0.1140	0.8860	0.000877648652417449

**Robust Residuals and Weights**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1	4.230	4.321	-0.091	2.145	1.0000
2	5.114	4.553	0.561	10.976	0.6107
3	5.190	4.648	0.542	10.450	0.6320
4	4.860	4.565	0.295	6.067	1.0000
5	5.130	4.782	0.349	6.794	0.9835
6	4.255	4.315	-0.059	1.396	1.0000
7	4.342	4.461	-0.118	2.729	1.0000
8	4.230	4.439	-0.208	4.927	1.0000
9	4.740	4.227	0.513	10.822	0.6682
10	4.290	4.416	-0.126	2.940	1.0000
11	4.544	4.697	-0.153	3.359	1.0000
12	4.477	4.581	-0.104	2.320	1.0000
13	4.964	4.557	0.406	8.187	0.8435
14	4.653	4.676	-0.023	0.495	1.0000
15	4.699	4.693	0.006	0.121	1.0000
16	4.070	4.335	-0.265	6.521	1.0000
17	4.342	4.530	-0.188	4.323	1.0000
18	4.740	4.409	0.331	6.991	1.0000
19	4.602	4.593	0.009	0.197	1.0000
20	4.342	4.282	0.060	1.386	1.0000
21	4.653	4.605	0.048	1.027	1.0000
22	4.000	5.151	-1.151	28.764	0.2979
23	4.602	4.567	0.035	0.762	1.0000

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
24	4.301	4.342	-0.041	0.958	1.0000
25	4.643	4.542	0.101	2.184	1.0000
26	4.000	4.517	-0.517	12.934	0.6625
27	4.509	4.559	-0.050	1.105	1.0000
28	4.591	4.522	0.069	1.494	1.0000
29	4.618	4.528	0.090	1.948	1.0000
30	5.000	4.524	0.476	9.512	0.7207
31	4.602	4.510	0.092	1.994	1.0000
32	4.255	4.369	-0.114	2.683	1.0000
33	4.398	4.527	-0.129	2.936	1.0000
34	4.863	4.516	0.347	7.139	0.9873
35	4.954	4.509	0.445	8.979	0.7706
36	4.778	4.486	0.292	6.105	1.0000
37	4.000	4.551	-0.551	13.779	0.6219
38	4.591	4.564	0.027	0.594	1.0000
39	4.556	4.566	-0.009	0.204	1.0000
40	4.580	4.583	-0.003	0.068	1.0000
41	4.146	4.242	-0.096	2.319	1.0000
42	4.875	4.631	0.244	5.013	1.0000
43	5.021	4.618	0.403	8.033	0.8498
44	5.161	4.383	0.779	15.085	0.4403
45	4.881	4.728	0.153	3.125	1.0000
46	4.362	4.509	-0.147	3.376	1.0000
47	4.477	4.622	-0.144	3.227	1.0000
48	4.799	4.802	-0.003	0.061	1.0000
49	4.690	4.601	0.089	1.898	1.0000
50	4.217	4.578	-0.360	8.541	0.9516
51	4.398	4.412	-0.014	0.329	1.0000
52	4.079	4.482	-0.403	9.880	0.8505
53	3.845	4.833	-0.988	25.689	0.3470
54	3.929	4.242	-0.313	7.958	1.0000
55	4.484	4.645	-0.161	3.580	1.0000
56	4.623	4.547	0.076	1.640	1.0000
57	4.290	4.593	-0.303	7.073	1.0000
58	3.929	4.279	-0.349	8.885	0.9818
59	4.079	4.583	-0.503	12.342	0.6809
60	4.447	4.597	-0.150	3.371	1.0000
61	4.380	4.551	-0.170	3.892	1.0000
62	4.301	4.395	-0.094	2.188	1.0000
63	4.544	4.630	-0.086	1.894	1.0000
64	4.079	4.302	-0.223	5.465	1.0000
65	4.756	4.626	0.130	2.723	1.0000
66	4.230	4.664	-0.434	10.249	0.7906

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
67	4.699	4.698	0.001	0.016	1.0000
68	4.643	4.678	-0.034	0.734	1.0000
69	4.531	4.683	-0.151	3.336	1.0000
70	4.301	4.303	-0.002	0.048	1.0000
71	4.477	4.566	-0.089	1.985	1.0000
72	4.243	4.380	-0.137	3.228	1.0000
73	3.778	4.771	-0.993	26.275	0.3453
74	4.362	4.725	-0.363	8.319	0.9447
75	4.415	4.752	-0.337	7.625	1.0000
76	4.735	4.630	0.106	2.230	1.0000
77	4.869	4.505	0.364	7.485	0.9405
78	5.049	4.702	0.347	6.881	0.9865
79	4.439	4.529	-0.090	2.029	1.0000
80	4.690	4.571	0.120	2.549	1.0000
81	4.602	4.390	0.212	4.617	1.0000
82	4.919	4.604	0.315	6.407	1.0000
83	4.544	4.548	-0.004	0.082	1.0000
84	5.093	4.729	0.364	7.156	0.9404
85	4.146	4.370	-0.224	5.401	1.0000
86	4.176	4.642	-0.466	11.165	0.7352
87	4.176	4.299	-0.123	2.945	1.0000
88	4.716	4.533	0.183	3.886	1.0000
89	4.362	4.419	-0.057	1.305	1.0000
90	3.845	4.205	-0.360	9.361	0.9523
91	4.505	4.307	0.198	4.395	1.0000
92	4.161	4.307	-0.146	3.501	1.0000
93	3.845	4.326	-0.480	12.495	0.7135
94	4.568	4.431	0.137	2.994	1.0000
95	4.362	4.330	0.031	0.719	1.0000
96	4.342	4.477	-0.134	3.094	1.0000
97	4.447	4.477	-0.030	0.666	1.0000
98	4.796	4.477	0.319	6.644	1.0000
99	4.255	4.505	-0.250	5.868	1.0000
100	4.352	4.444	-0.092	2.113	1.0000
101	3.845	4.267	-0.422	10.981	0.8119
102	3.954	4.441	-0.487	12.322	0.7035
103	4.380	4.363	0.017	0.386	1.0000
106	4.000	4.286	-0.286	7.147	1.0000
107	4.776	4.502	0.274	5.728	1.0000
108	4.633	4.500	0.133	2.876	1.0000
109	5.061	4.800	0.260	5.142	1.0000
110	4.255	4.282	-0.027	0.629	1.0000
111	4.778	4.530	0.248	5.192	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
113	5.255	4.612	0.643	12.236	0.5331
114	5.255	5.260	-0.005	0.086	1.0000
115	4.903	4.681	0.222	4.529	1.0000
116	4.763	4.592	0.171	3.593	1.0000
117	4.929	4.728	0.202	4.093	1.0000
118	4.875	4.605	0.270	5.530	1.0000
119	4.940	4.646	0.293	5.934	1.0000
120	4.663	5.030	-0.367	7.878	0.9332
121	4.653	4.649	0.004	0.091	1.0000
122	4.398	4.576	-0.178	4.052	1.0000
123	4.415	4.576	-0.161	3.650	1.0000
124	4.732	4.614	0.119	2.506	1.0000
125	4.041	4.566	-0.524	12.975	0.6537
126	4.736	4.757	-0.020	0.426	1.0000
127	5.161	4.992	0.169	3.273	1.0000
128	4.978	4.919	0.059	1.182	1.0000
129	5.146	4.919	0.227	4.407	1.0000
130	5.114	4.607	0.507	9.914	0.6761
131	5.049	4.746	0.303	6.008	1.0000
133	4.477	4.361	0.116	2.600	1.0000
134	4.544	4.625	-0.081	1.773	1.0000
135	4.699	4.756	-0.057	1.212	1.0000
136	4.940	4.507	0.432	8.748	0.7933
137	4.204	4.883	-0.679	16.147	0.5049
138	4.505	4.761	-0.255	5.669	1.0000
139	4.380	4.793	-0.413	9.420	0.8307
140	4.505	4.781	-0.276	6.127	1.0000
142	4.000	4.423	-0.423	10.563	0.8113
143	4.602	4.490	0.112	2.430	1.0000
144	4.922	4.459	0.463	9.411	0.7401
145	4.672	4.501	0.171	3.668	1.0000
146	4.301	4.558	-0.257	5.966	1.0000
147	4.477	4.613	-0.136	3.030	1.0000
148	4.061	4.618	-0.558	13.736	0.6146
149	4.398	4.484	-0.086	1.965	1.0000
151	4.602	4.642	-0.040	0.877	1.0000
152	4.498	4.384	0.115	2.547	1.0000
153	3.699	4.265	-0.566	15.312	0.6052
154	4.820	4.456	0.364	7.549	0.9422
155	4.477	4.486	-0.008	0.190	1.0000
157	4.987	4.614	0.373	7.476	0.9195
158	4.301	4.655	-0.354	8.228	0.9686
160	4.477	4.466	0.012	0.257	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
161	4.699	4.375	0.324	6.895	1.0000
163	4.978	4.651	0.327	6.565	1.0000
164	4.643	4.389	0.254	5.477	1.0000
165	4.531	4.342	0.189	4.178	1.0000
166	4.940	4.725	0.214	4.342	1.0000
167	4.699	4.525	0.173	3.692	1.0000
168	4.079	4.542	-0.463	11.356	0.7400
170	4.423	4.471	-0.047	1.070	1.0000
171	4.826	4.680	0.146	3.022	1.0000
172	4.447	4.479	-0.032	0.725	1.0000
173	4.301	4.254	0.047	1.102	1.0000
174	4.114	4.453	-0.339	8.236	1.0000
175	4.114	4.239	-0.125	3.041	1.0000
176	4.398	4.460	-0.062	1.412	1.0000
177	4.146	4.549	-0.403	9.720	0.8505
178	4.000	4.446	-0.446	11.155	0.7682
179	4.000	4.421	-0.421	10.528	0.8140
180	4.230	4.448	-0.218	5.153	1.0000
181	4.978	4.740	0.237	4.766	1.0000
182	4.900	4.587	0.313	6.388	1.0000
184	4.792	4.383	0.409	8.535	0.8381
185	4.799	4.554	0.245	5.111	1.0000
186	4.699	4.475	0.224	4.758	1.0000
187	4.845	4.727	0.118	2.437	1.0000
188	5.143	4.558	0.585	11.382	0.5856
189	4.380	4.465	-0.085	1.940	1.0000
190	4.597	4.656	-0.059	1.291	1.0000
191	4.716	4.729	-0.013	0.286	1.0000
192	4.398	4.758	-0.360	8.186	0.9522
193	3.602	4.393	-0.791	21.961	0.4333
195	4.740	4.403	0.338	7.124	1.0000
196	4.978	4.625	0.353	7.091	0.9712
198	3.903	4.571	-0.668	17.116	0.5131
199	4.544	4.443	0.101	2.216	1.0000
200	4.519	4.444	0.075	1.654	1.0000
201	4.161	4.565	-0.404	9.708	0.8485
202	4.255	4.578	-0.323	7.586	1.0000
203	4.477	4.586	-0.109	2.432	1.0000
204	4.477	4.537	-0.060	1.346	1.0000
205	4.462	4.349	0.113	2.533	1.0000
206	4.000	4.359	-0.359	8.966	0.9558
207	4.398	4.633	-0.236	5.356	1.0000
208	4.204	4.413	-0.208	4.957	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
210	4.740	4.586	0.154	3.246	1.0000
211	4.568	4.626	-0.058	1.266	1.0000
212	4.813	4.529	0.284	5.908	1.0000
214	4.362	4.593	-0.232	5.312	1.0000
215	4.000	4.493	-0.493	12.323	0.6954
216	3.964	4.290	-0.326	8.236	1.0000
217	4.255	4.482	-0.227	5.333	1.0000
218	4.681	4.625	0.056	1.207	1.0000
219	4.653	4.761	-0.108	2.321	1.0000
220	5.021	4.878	0.143	2.852	1.0000
221	4.740	4.577	0.163	3.438	1.0000
222	4.580	4.576	0.004	0.085	1.0000
227	4.732	4.621	0.112	2.359	1.0000
228	4.544	4.363	0.181	3.987	1.0000
229	4.978	4.634	0.344	6.915	0.9959
230	4.462	4.267	0.195	4.372	1.0000
231	4.342	4.493	-0.151	3.473	1.0000
232	4.940	4.501	0.439	8.887	0.7808
233	4.041	4.526	-0.485	11.995	0.7071
234	4.531	4.404	0.127	2.809	1.0000
236	5.000	4.559	0.441	8.825	0.7768
237	4.544	4.601	-0.056	1.242	1.0000
238	4.398	4.553	-0.155	3.524	1.0000
239	4.477	4.636	-0.159	3.552	1.0000
240	4.813	4.486	0.327	6.795	1.0000
241	5.161	4.778	0.383	7.421	0.8949
242	4.447	4.692	-0.244	5.496	1.0000
243	4.602	4.642	-0.040	0.863	1.0000
244	4.740	4.631	0.110	2.315	1.0000
245	4.875	4.568	0.307	6.290	1.0000
246	4.716	4.569	0.147	3.117	1.0000
247	5.011	4.637	0.374	7.455	0.9177
248	3.927	4.872	-0.945	24.065	0.3627
249	4.602	4.572	0.030	0.656	1.0000
250	4.041	4.409	-0.368	9.100	0.9320
251	4.279	4.431	-0.152	3.563	1.0000
252	4.301	4.571	-0.270	6.284	1.0000
253	4.255	4.606	-0.350	8.235	0.9782
254	4.322	4.412	-0.090	2.079	1.0000
255	4.230	4.304	-0.074	1.740	1.0000
256	4.398	4.462	-0.064	1.458	1.0000
257	4.000	4.267	-0.267	6.672	1.0000
258	4.279	4.527	-0.248	5.792	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
259	4.544	4.426	0.118	2.606	1.0000
260	4.338	4.547	-0.209	4.809	1.0000
261	4.000	4.478	-0.478	11.950	0.7171
262	4.892	4.454	0.439	8.965	0.7816
263	4.146	4.360	-0.214	5.169	1.0000
264	4.580	4.579	0.001	0.012	1.0000
266	4.602	4.468	0.134	2.906	1.0000
267	4.342	4.470	-0.128	2.937	1.0000
268	4.690	4.498	0.193	4.107	1.0000
269	5.097	4.706	0.391	7.670	0.8768
270	4.690	4.824	-0.134	2.854	1.0000
271	4.875	4.592	0.283	5.807	1.0000
272	4.740	4.603	0.138	2.903	1.0000
273	4.439	4.510	-0.071	1.597	1.0000
274	4.672	4.582	0.090	1.930	1.0000
275	4.597	4.765	-0.169	3.671	1.0000
276	4.633	4.511	0.122	2.635	1.0000
278	4.544	4.365	0.179	3.935	1.0000
279	4.176	4.386	-0.210	5.026	1.0000
280	4.398	4.391	0.007	0.165	1.0000
281	4.544	4.511	0.033	0.737	1.0000
282	4.556	4.642	-0.086	1.884	1.0000
283	4.230	4.469	-0.238	5.633	1.0000
284	4.398	4.586	-0.188	4.265	1.0000
285	4.176	4.674	-0.498	11.930	0.6880
286	4.301	4.497	-0.196	4.553	1.0000
287	4.415	4.511	-0.096	2.184	1.0000
288	4.505	4.441	0.064	1.415	1.0000
289	4.146	4.185	-0.039	0.947	1.0000
290	4.623	4.585	0.038	0.828	1.0000
291	4.724	4.709	0.015	0.317	1.0000
292	4.799	4.694	0.105	2.189	1.0000
293	4.477	4.383	0.094	2.105	1.0000
294	4.643	4.572	0.072	1.546	1.0000
295	4.000	4.520	-0.520	12.997	0.6593
296	5.061	4.623	0.438	8.647	0.7833
297	4.591	4.434	0.157	3.411	1.0000
298	4.778	4.452	0.326	6.833	1.0000
300	4.176	4.297	-0.121	2.899	1.0000
301	4.447	4.549	-0.101	2.280	1.0000
302	4.380	4.543	-0.163	3.725	1.0000
303	4.322	4.618	-0.296	6.840	1.0000
305	4.380	4.381	0.000	0.011	1.0000

**Robust Multiple Regression Report**

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
306	4.301	4.726	-0.425	9.874	0.8072
307	4.643	4.544	0.099	2.142	1.0000
309	4.778	4.446	0.332	6.952	1.0000
310	5.111	4.681	0.430	8.414	0.7972
311	4.505	4.738	-0.233	5.166	1.0000
312	4.279	4.417	-0.138	3.220	1.0000
313	4.332	4.488	-0.155	3.583	1.0000
315	5.106	4.539	0.566	11.095	0.6051
316	4.255	4.335	-0.080	1.873	1.0000
317	3.845	4.394	-0.549	14.278	0.6244
318	4.820	4.716	0.103	2.147	1.0000
319	4.633	4.287	0.346	7.475	0.9897
320	3.875	4.394	-0.519	13.385	0.6609
323	4.929	4.530	0.400	8.111	0.8573
324	4.279	4.429	-0.150	3.516	1.0000
325	4.398	4.578	-0.180	4.083	1.0000
326	5.204	4.604	0.600	11.523	0.5716
327	4.845	4.596	0.249	5.132	1.0000
328	4.681	4.821	-0.140	2.988	1.0000
329	3.829	4.301	-0.472	12.317	0.7267
330	4.934	4.511	0.423	8.580	0.8096
331	4.672	4.512	0.160	3.434	1.0000
332	4.505	4.537	-0.031	0.697	1.0000
333	4.736	4.732	0.004	0.089	1.0000
334	4.398	4.391	0.007	0.161	1.0000
335	4.301	4.487	-0.186	4.326	1.0000
336	4.771	4.493	0.278	5.831	1.0000
337	3.954	4.391	-0.436	11.034	0.7856
338	4.362	4.713	-0.351	8.058	0.9753
339	4.716	4.541	0.175	3.702	1.0000
341	4.301	4.723	-0.422	9.805	0.8128
342	4.623	4.726	-0.102	2.215	1.0000
343	4.000	4.550	-0.550	13.738	0.6238
344	4.415	4.471	-0.056	1.261	1.0000
346	4.176	4.507	-0.331	7.915	1.0000
347	4.255	4.584	-0.329	7.737	1.0000
348	4.623	4.518	0.105	2.276	1.0000
349	4.940	4.576	0.364	7.367	0.9419
350	5.204	4.709	0.495	9.516	0.6922
351	4.740	4.821	-0.080	1.696	1.0000
352	5.097	4.876	0.221	4.334	1.0000
353	5.057	4.662	0.395	7.816	0.8672
354	5.398	4.982	0.416	7.712	0.8234



**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
355	4.447	4.625	-0.178	4.001	1.0000
356	4.826	4.391	0.435	9.017	0.7877
357	4.000	4.829	-0.829	20.719	0.4136
358	5.041	4.827	0.214	4.254	1.0000
359	4.477	4.556	-0.079	1.765	1.0000
360	4.000	4.727	-0.727	18.171	0.4716
361	4.342	4.616	-0.274	6.309	1.0000
362	4.322	4.292	0.030	0.696	1.0000
363	4.886	4.521	0.365	7.479	0.9379
364	4.544	4.395	0.149	3.277	1.0000
365	4.699	4.487	0.212	4.509	1.0000
366	4.544	4.352	0.192	4.217	1.0000
367	4.519	4.721	-0.203	4.490	1.0000
368	5.021	4.641	0.381	7.580	0.9006
369	4.924	4.747	0.177	3.596	1.0000
370	5.219	4.516	0.703	13.463	0.4879
371	4.519	4.528	-0.010	0.215	1.0000
372	4.699	4.245	0.454	9.657	0.7554
373	4.968	4.541	0.428	8.605	0.8017
374	4.519	4.461	0.058	1.283	1.0000
375	4.857	4.444	0.414	8.514	0.8288
377	4.544	4.446	0.098	2.161	1.0000
378	4.648	4.438	0.210	4.526	1.0000
379	4.699	4.561	0.137	2.926	1.0000
380	4.146	4.293	-0.147	3.540	1.0000
381	4.653	4.725	-0.071	1.536	1.0000
382	4.398	4.510	-0.112	2.541	1.0000
383	4.886	4.691	0.195	3.992	1.0000
384	4.851	4.596	0.255	5.252	1.0000
386	5.255	4.626	0.629	11.967	0.5451
387	4.823	4.712	0.111	2.308	1.0000
388	5.398	4.957	0.441	8.173	0.7770
389	4.519	4.860	-0.341	7.553	1.0000
390	5.130	4.739	0.391	7.631	0.8756
392	4.398	4.582	-0.184	4.178	1.0000
393	4.929	4.633	0.296	6.008	1.0000
394	4.653	4.740	-0.086	1.856	1.0000
396	4.477	4.421	0.056	1.252	1.0000
397	4.243	4.501	-0.258	6.088	1.0000
398	4.000	4.589	-0.589	14.724	0.5820
399	4.833	4.770	0.063	1.296	1.0000
400	4.869	4.855	0.014	0.286	1.0000
402	4.301	4.684	-0.383	8.904	0.8951

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
404	5.255	4.494	0.761	14.486	0.4503
405	5.041	4.617	0.425	8.422	0.8073
406	4.914	4.747	0.166	3.388	1.0000
407	5.000	4.768	0.232	4.645	1.0000
408	5.152	4.789	0.364	7.058	0.9426
409	4.663	4.786	-0.124	2.653	1.0000
410	4.919	4.799	0.120	2.445	1.0000
411	4.053	4.696	-0.642	15.852	0.5335
412	4.748	4.777	-0.029	0.602	1.0000
414	4.792	4.897	-0.105	2.191	1.0000
415	5.000	5.176	-0.176	3.520	1.0000
416	4.949	5.071	-0.122	2.462	1.0000
417	4.638	4.692	-0.053	1.152	1.0000
418	5.083	5.098	-0.015	0.300	1.0000
419	5.230	4.952	0.278	5.324	1.0000
421	5.176	4.865	0.311	6.016	1.0000
422	4.505	4.815	-0.309	6.869	1.0000
423	4.991	4.949	0.042	0.837	1.0000
424	4.820	4.722	0.097	2.021	1.0000
425	4.954	4.742	0.213	4.290	1.0000
426	4.792	4.741	0.051	1.065	1.0000
427	4.699	4.736	-0.037	0.794	1.0000
428	4.103	4.678	-0.576	14.040	0.5951
429	4.820	4.693	0.127	2.631	1.0000
430	4.991	4.654	0.337	6.749	1.0000
431	5.161	4.886	0.275	5.337	1.0000
434	4.477	4.690	-0.213	4.764	1.0000
435	5.114	4.754	0.360	7.036	0.9527
436	5.176	4.851	0.325	6.288	1.0000
437	4.813	5.146	-0.333	6.921	1.0000
439	4.813	4.925	-0.112	2.334	1.0000
440	4.380	4.877	-0.496	11.332	0.6906
441	4.748	4.544	0.204	4.292	1.0000
442	4.813	4.470	0.343	7.134	0.9983
444	4.756	4.625	0.131	2.753	1.0000
445	4.763	4.845	-0.082	1.713	1.0000
446	4.881	4.709	0.172	3.526	1.0000
447	5.041	4.937	0.105	2.074	1.0000
448	4.690	4.847	-0.157	3.343	1.0000
449	4.829	4.745	0.084	1.739	1.0000
450	5.161	4.983	0.178	3.457	1.0000
451	4.954	4.758	0.196	3.960	1.0000
452	5.039	5.187	-0.147	2.926	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
453	5.204	4.646	0.558	10.715	0.6147
454	4.892	4.943	-0.051	1.033	1.0000
455	4.813	4.666	0.147	3.052	1.0000
456	4.477	4.759	-0.282	6.289	1.0000
457	4.964	4.968	-0.005	0.095	1.0000
458	5.230	5.012	0.219	4.180	1.0000
459	5.161	4.793	0.368	7.133	0.9311
460	4.863	4.643	0.221	4.536	1.0000
462	4.903	4.865	0.038	0.773	1.0000
463	4.544	4.751	-0.207	4.561	1.0000
464	5.121	4.813	0.307	6.002	1.0000
465	5.079	4.817	0.263	5.168	1.0000
466	4.342	4.718	-0.375	8.646	0.9130
467	4.778	4.826	-0.048	1.011	1.0000
468	4.720	4.727	-0.006	0.137	1.0000
469	5.188	5.018	0.169	3.266	1.0000
470	5.072	4.902	0.170	3.357	1.0000
471	4.906	4.852	0.053	1.088	1.0000
472	4.954	4.999	-0.045	0.913	1.0000
473	5.279	5.089	0.190	3.600	1.0000
474	4.778	4.846	-0.068	1.430	1.0000
475	4.826	4.950	-0.124	2.578	1.0000
476	4.763	5.061	-0.298	6.256	1.0000
477	4.929	4.852	0.078	1.581	1.0000
478	5.041	4.876	0.165	3.272	1.0000
479	5.064	4.867	0.198	3.902	1.0000
480	5.348	5.090	0.258	4.827	1.0000
481	5.114	4.862	0.252	4.923	1.0000
482	5.574	5.366	0.208	3.732	1.0000
483	4.788	5.156	-0.369	7.697	0.9302
484	3.801	5.104	-1.302	34.266	0.2632
485	4.752	5.104	-0.351	7.397	0.9752
486	3.845	5.063	-1.218	31.672	0.2815
487	4.954	4.757	0.197	3.978	1.0000
489	5.107	4.818	0.289	5.664	1.0000
490	4.398	4.658	-0.260	5.909	1.0000
491	5.104	5.008	0.096	1.879	1.0000
492	4.352	4.865	-0.513	11.787	0.6682
493	5.097	4.765	0.332	6.519	1.0000
494	5.290	5.102	0.188	3.547	1.0000
495	5.435	5.095	0.339	6.245	1.0000
496	4.047	4.611	-0.564	13.946	0.6074
497	4.602	4.865	-0.263	5.705	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
498	4.712	4.817	-0.105	2.231	1.0000
499	4.716	4.787	-0.071	1.503	1.0000
500	4.991	4.806	0.185	3.703	1.0000
501	4.602	4.734	-0.132	2.876	1.0000
502	4.845	4.895	-0.050	1.032	1.0000
503	4.991	4.931	0.061	1.215	1.0000
504	4.929	4.953	-0.024	0.478	1.0000
505	5.031	4.760	0.272	5.399	1.0000
506	4.699	4.665	0.034	0.731	1.0000
507	4.778	4.924	-0.146	3.045	1.0000
508	4.892	4.777	0.116	2.363	1.0000
509	4.989	5.146	-0.157	3.139	1.0000
510	4.929	4.794	0.135	2.747	1.0000
511	4.944	4.948	-0.004	0.075	1.0000
512	4.785	4.948	-0.162	3.392	1.0000
513	4.716	4.812	-0.096	2.040	1.0000
514	4.813	4.869	-0.056	1.155	1.0000
515	4.748	4.818	-0.070	1.472	1.0000
516	4.672	4.826	-0.154	3.302	1.0000
517	4.484	4.825	-0.341	7.600	1.0000
519	4.903	4.866	0.036	0.736	1.0000
520	4.845	4.974	-0.129	2.665	1.0000
521	5.273	5.233	0.040	0.755	1.0000
522	4.875	4.915	-0.040	0.814	1.0000
523	5.061	4.935	0.126	2.492	1.0000
524	5.322	5.126	0.196	3.678	1.0000
526	4.447	4.613	-0.166	3.732	1.0000
527	4.602	4.656	-0.054	1.172	1.0000
528	4.978	4.874	0.103	2.075	1.0000
529	4.568	4.621	-0.053	1.155	1.0000
530	5.130	4.845	0.285	5.560	1.0000
531	4.602	4.803	-0.201	4.374	1.0000
532	3.845	4.778	-0.933	24.264	0.3674
533	4.778	4.824	-0.046	0.966	1.0000
535	5.204	4.936	0.268	5.152	1.0000
536	5.079	4.689	0.390	7.687	0.8779
537	4.643	4.683	-0.039	0.846	1.0000
538	4.352	4.718	-0.365	8.398	0.9379
539	4.562	4.571	-0.008	0.183	1.0000
542	4.681	4.742	-0.061	1.296	1.0000
543	5.279	5.175	0.103	1.956	1.0000
544	5.107	4.730	0.378	7.393	0.9078
545	4.431	4.920	-0.489	11.029	0.7014

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
547	4.431	5.199	-0.767	17.313	0.4468
549	4.699	4.717	-0.018	0.379	1.0000
550	4.845	4.836	0.009	0.195	1.0000
551	4.845	4.838	0.007	0.146	1.0000
552	4.929	4.825	0.104	2.110	1.0000
553	4.531	4.639	-0.107	2.364	1.0000
555	4.816	4.614	0.202	4.191	1.0000
556	4.763	4.897	-0.133	2.796	1.0000
557	4.857	4.749	0.108	2.227	1.0000
558	4.756	4.792	-0.036	0.766	1.0000
559	4.279	4.659	-0.381	8.895	0.9006
560	4.813	4.658	0.155	3.220	1.0000
562	4.799	4.934	-0.134	2.797	1.0000
563	5.332	5.130	0.203	3.803	1.0000
564	5.152	4.855	0.297	5.760	1.0000
565	4.623	4.860	-0.237	5.123	1.0000
566	4.866	4.846	0.021	0.425	1.0000
567	4.778	4.858	-0.080	1.664	1.0000
568	5.079	5.130	-0.050	0.993	1.0000
569	4.991	5.184	-0.193	3.862	1.0000
570	4.954	4.734	0.220	4.450	1.0000
571	4.857	4.835	0.022	0.455	1.0000
572	4.544	4.960	-0.416	9.155	0.8240
573	4.544	5.220	-0.676	14.873	0.5072
574	5.398	5.262	0.136	2.520	1.0000
575	5.430	5.262	0.168	3.091	1.0000
576	4.875	4.792	0.083	1.700	1.0000
577	5.086	4.985	0.101	1.992	1.0000
578	5.161	4.843	0.319	6.173	1.0000
579	5.100	4.932	0.168	3.297	1.0000
580	5.130	5.049	0.081	1.577	1.0000
581	5.170	4.991	0.180	3.474	1.0000
584	5.199	4.993	0.205	3.949	1.0000
586	5.556	5.240	0.316	5.687	1.0000
587	4.845	5.172	-0.327	6.742	1.0000
588	4.580	4.978	-0.398	8.695	0.8608
590	4.544	4.764	-0.220	4.850	1.0000
591	5.267	4.850	0.417	7.916	0.8221
592	5.079	4.790	0.289	5.693	1.0000
594	4.978	4.851	0.127	2.546	1.0000
595	4.763	4.846	-0.083	1.738	1.0000
596	4.857	5.055	-0.198	4.068	1.0000
597	5.079	4.743	0.337	6.628	1.0000

**Robust Multiple Regression Report**

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
598	4.613	4.757	-0.144	3.118	1.0000
599	4.740	4.896	-0.155	3.276	1.0000
600	4.813	4.709	0.104	2.161	1.0000
601	5.312	5.087	0.224	4.223	1.0000
602	5.037	5.054	-0.017	0.328	1.0000
603	4.903	4.945	-0.042	0.852	1.0000
604	4.792	4.897	-0.105	2.187	1.0000
605	5.037	4.909	0.128	2.543	1.0000
606	5.243	4.926	0.317	6.049	1.0000
607	4.863	4.899	-0.036	0.743	1.0000
608	4.839	4.840	-0.001	0.015	1.0000
609	4.898	4.759	0.139	2.830	1.0000
610	4.362	4.731	-0.369	8.458	0.9291
611	5.262	4.945	0.317	6.031	1.0000
612	4.301	4.893	-0.592	13.754	0.5794
613	4.833	4.818	0.015	0.310	1.0000
614	4.940	4.827	0.112	2.269	1.0000
615	4.672	4.728	-0.056	1.192	1.0000
616	4.477	4.636	-0.159	3.550	1.0000
618	4.839	4.643	0.196	4.047	1.0000
619	4.398	4.780	-0.382	8.692	0.8967
620	5.294	5.037	0.257	4.862	1.0000
622	5.210	4.793	0.417	7.998	0.8227
623	4.477	4.721	-0.244	5.453	1.0000
624	4.771	4.847	-0.076	1.590	1.0000
625	4.615	4.742	-0.127	2.750	1.0000
626	4.792	4.731	0.061	1.280	1.0000
627	4.895	4.737	0.158	3.221	1.0000
629	4.833	4.740	0.092	1.912	1.0000
630	4.857	5.015	-0.157	3.239	1.0000
631	4.875	4.805	0.070	1.441	1.0000
632	4.531	4.742	-0.211	4.654	1.0000
633	4.978	4.787	0.191	3.835	1.0000
634	4.301	4.816	-0.515	11.983	0.6651
635	5.114	4.888	0.226	4.417	1.0000
637	4.176	4.616	-0.440	10.541	0.7787
638	4.681	4.685	-0.004	0.091	1.0000
639	4.857	4.718	0.140	2.875	1.0000
640	4.597	4.676	-0.079	1.721	1.0000
641	4.763	4.743	0.020	0.421	1.0000
642	3.847	4.650	-0.804	20.893	0.4265
643	4.857	4.926	-0.069	1.422	1.0000
645	4.439	4.676	-0.237	5.340	1.0000

**Robust Multiple Regression Report**

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
646	4.720	4.899	-0.179	3.791	1.0000
647	4.477	4.636	-0.159	3.557	1.0000
648	4.857	4.745	0.112	2.315	1.0000
649	4.653	4.906	-0.253	5.432	1.0000
650	4.301	4.797	-0.496	11.534	0.6910
651	4.708	4.809	-0.102	2.160	1.0000
652	4.591	4.805	-0.214	4.666	1.0000
654	4.301	4.872	-0.571	13.265	0.6008
655	4.505	4.855	-0.349	7.755	0.9811
656	4.903	4.898	0.005	0.099	1.0000
657	5.097	4.805	0.292	5.721	1.0000
658	5.137	5.005	0.131	2.557	1.0000
659	4.756	4.647	0.108	2.279	1.0000
662	4.398	5.120	-0.722	16.426	0.4745
663	4.796	4.702	0.094	1.961	1.0000
664	5.079	4.822	0.257	5.068	1.0000
665	4.628	4.732	-0.103	2.229	1.0000
666	4.602	4.724	-0.122	2.659	1.0000
667	4.845	4.831	0.014	0.289	1.0000
669	4.740	4.826	-0.086	1.815	1.0000
670	4.892	4.828	0.064	1.316	1.0000
671	4.505	4.821	-0.316	7.011	1.0000
672	4.826	4.851	-0.025	0.518	1.0000
673	4.978	4.851	0.127	2.544	1.0000
674	4.699	4.836	-0.137	2.915	1.0000
675	4.544	4.837	-0.293	6.444	1.0000
676	5.114	5.163	-0.050	0.968	1.0000
677	4.585	4.773	-0.187	4.083	1.0000
678	5.097	4.852	0.244	4.796	1.0000
679	4.740	4.938	-0.198	4.168	1.0000
680	4.763	4.808	-0.045	0.934	1.0000
681	4.845	4.768	0.077	1.589	1.0000
682	4.580	4.767	-0.188	4.095	1.0000
684	3.699	4.591	-0.892	24.112	0.3843
685	4.845	4.799	0.046	0.950	1.0000
686	4.716	4.931	-0.215	4.562	1.0000
688	4.903	4.851	0.052	1.062	1.0000
689	4.857	4.982	-0.125	2.564	1.0000
690	4.860	4.879	-0.018	0.376	1.0000
691	4.898	4.893	0.005	0.093	1.0000
692	4.929	4.785	0.145	2.932	1.0000
693	4.352	4.855	-0.503	11.556	0.6815
694	3.845	4.530	-0.685	17.815	0.5004

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
696	4.000	4.756	-0.756	18.888	0.4537
698	4.681	4.802	-0.121	2.581	1.0000
699	5.125	4.839	0.286	5.583	1.0000
700	4.919	4.793	0.126	2.568	1.0000
701	4.253	4.616	-0.363	8.527	0.9452
702	4.839	4.800	0.039	0.809	1.0000
703	4.978	4.793	0.185	3.708	1.0000
704	4.544	4.910	-0.366	8.049	0.9372
705	4.728	4.843	-0.115	2.431	1.0000
706	4.690	4.708	-0.018	0.391	1.0000
707	4.146	4.853	-0.707	17.048	0.4850
708	4.964	5.044	-0.081	1.626	1.0000
709	4.813	4.849	-0.036	0.751	1.0000
711	5.375	4.927	0.448	8.329	0.7657
712	4.857	5.046	-0.189	3.886	1.0000
713	4.842	4.729	0.113	2.328	1.0000
714	4.881	4.776	0.105	2.151	1.0000
715	4.748	4.735	0.013	0.278	1.0000
716	4.799	4.784	0.015	0.318	1.0000
717	4.875	4.763	0.112	2.295	1.0000
718	4.929	4.960	-0.030	0.619	1.0000
719	5.041	4.960	0.081	1.616	1.0000
720	4.914	4.886	0.028	0.560	1.0000
721	4.799	4.733	0.066	1.381	1.0000
722	5.342	4.866	0.476	8.917	0.7196
723	4.653	4.845	-0.192	4.130	1.0000
724	5.097	4.871	0.226	4.433	1.0000
725	4.903	4.927	-0.024	0.497	1.0000
726	4.833	4.878	-0.045	0.936	1.0000
727	4.842	4.923	-0.081	1.666	1.0000
729	5.000	4.804	0.196	3.915	1.0000
730	5.097	4.739	0.358	7.016	0.9586
731	4.813	4.760	0.053	1.104	1.0000
733	5.225	4.773	0.453	8.660	0.7575
734	4.889	4.825	0.064	1.317	1.0000
735	4.477	4.820	-0.343	7.659	0.9997
736	5.114	4.760	0.354	6.913	0.9696
738	4.968	5.047	-0.078	1.572	1.0000
739	4.845	5.027	-0.182	3.749	1.0000
740	4.623	4.849	-0.225	4.875	1.0000
742	5.130	4.869	0.262	5.103	1.0000
743	5.358	5.075	0.283	5.279	1.0000
744	5.352	5.117	0.235	4.386	1.0000



**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
745	4.681	4.743	-0.062	1.321	1.0000
746	4.775	4.826	-0.052	1.081	1.0000
747	4.591	4.839	-0.248	5.399	1.0000
749	4.778	4.905	-0.127	2.649	1.0000
750	3.699	5.100	-1.401	37.863	0.2447
751	5.175	4.856	0.319	6.166	1.0000
752	4.833	4.961	-0.128	2.658	1.0000
753	4.942	4.697	0.245	4.959	1.0000
754	4.407	4.910	-0.504	11.429	0.6806
755	4.544	4.775	-0.231	5.090	1.0000
756	4.176	4.871	-0.695	16.630	0.4936
757	4.415	4.824	-0.409	9.258	0.8386
758	4.589	4.940	-0.351	7.653	0.9760
759	5.107	4.808	0.299	5.858	1.0000
760	5.130	4.756	0.374	7.296	0.9158
761	4.875	4.694	0.181	3.722	1.0000
762	3.857	4.838	-0.980	25.414	0.3497
763	3.544	4.977	-1.432	40.419	0.2393
764	4.778	4.671	0.107	2.238	1.0000
765	4.740	4.856	-0.116	2.447	1.0000
766	4.789	4.726	0.063	1.316	1.0000
767	4.767	4.854	-0.086	1.814	1.0000
768	4.813	4.784	0.029	0.604	1.0000
769	4.748	4.747	0.001	0.019	1.0000
770	5.079	4.879	0.200	3.932	1.0000
771	4.653	4.723	-0.070	1.494	1.0000
772	4.833	5.001	-0.168	3.484	1.0000
773	5.061	5.033	0.028	0.548	1.0000
775	4.653	4.786	-0.133	2.854	1.0000
776	4.914	4.785	0.129	2.616	1.0000
777	4.804	4.780	0.024	0.504	1.0000
779	4.929	4.701	0.228	4.626	1.0000
780	4.978	4.532	0.446	8.952	0.7693
781	5.230	4.837	0.394	7.525	0.8709
782	5.090	5.002	0.088	1.720	1.0000
783	4.778	4.779	0.000	0.007	1.0000
784	4.929	4.897	0.032	0.655	1.0000
785	4.826	4.766	0.060	1.245	1.0000
786	4.477	4.729	-0.252	5.636	1.0000
787	4.892	4.809	0.083	1.695	1.0000
788	4.740	4.749	-0.008	0.175	1.0000
790	4.903	4.852	0.051	1.034	1.0000
791	4.398	4.682	-0.284	6.465	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
792	4.748	4.632	0.116	2.442	1.0000
793	4.720	4.741	-0.021	0.450	1.0000
795	5.301	5.048	0.253	4.775	1.0000
796	4.477	4.662	-0.185	4.125	1.0000
797	4.204	4.640	-0.436	10.373	0.7860
798	4.813	4.772	0.041	0.852	1.0000
799	4.663	4.865	-0.202	4.333	1.0000
800	5.272	4.966	0.306	5.803	1.0000
801	4.716	4.999	-0.283	5.994	1.0000
803	4.839	4.664	0.175	3.621	1.0000
805	5.070	4.742	0.328	6.469	1.0000
806	4.602	4.819	-0.217	4.714	1.0000
807	5.031	4.659	0.372	7.400	0.9207
809	3.862	4.726	-0.864	22.375	0.3967
810	5.250	4.838	0.413	7.857	0.8309
811	4.903	4.761	0.142	2.904	1.0000
812	4.544	4.599	-0.055	1.220	1.0000
813	4.663	4.667	-0.004	0.086	1.0000
814	4.568	4.555	0.014	0.299	1.0000
816	4.544	4.640	-0.096	2.117	1.0000
817	4.477	4.727	-0.250	5.591	1.0000
818	4.176	4.673	-0.496	11.887	0.6905
819	4.699	4.829	-0.130	2.771	1.0000
820	4.989	4.833	0.156	3.121	1.0000
821	5.097	4.974	0.123	2.407	1.0000
822	4.672	4.702	-0.030	0.643	1.0000
823	4.823	4.685	0.138	2.856	1.0000
824	4.763	4.820	-0.057	1.188	1.0000
825	4.903	4.846	0.057	1.156	1.0000
826	4.591	4.753	-0.162	3.521	1.0000
828	5.076	4.752	0.324	6.383	1.0000
829	4.623	4.712	-0.089	1.916	1.0000
830	4.886	4.665	0.221	4.527	1.0000
831	4.806	4.813	-0.007	0.139	1.0000
832	5.079	4.822	0.257	5.066	1.0000
833	4.568	4.809	-0.240	5.261	1.0000
834	4.720	4.666	0.054	1.149	1.0000
835	5.000	4.945	0.055	1.096	1.0000
836	4.740	4.818	-0.078	1.640	1.0000
837	4.842	4.778	0.064	1.330	1.0000
838	4.602	4.761	-0.159	3.451	1.0000
839	4.301	4.554	-0.253	5.886	1.0000
840	4.663	4.600	0.063	1.349	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
841	4.826	4.933	-0.106	2.206	1.0000
842	4.699	4.845	-0.146	3.098	1.0000
843	4.934	4.766	0.168	3.408	1.0000
844	4.638	4.691	-0.052	1.124	1.0000
845	4.991	4.747	0.245	4.899	1.0000
846	4.505	4.649	-0.144	3.197	1.0000
847	4.740	4.639	0.101	2.141	1.0000
848	4.929	4.756	0.173	3.511	1.0000
849	4.959	4.657	0.302	6.088	1.0000
850	4.477	4.651	-0.174	3.888	1.0000
851	4.806	4.679	0.127	2.652	1.0000
852	4.519	4.682	-0.163	3.618	1.0000
853	4.699	4.687	0.012	0.246	1.0000
854	4.863	4.930	-0.067	1.375	1.0000
855	5.204	4.839	0.365	7.015	0.9389
856	4.602	4.829	-0.227	4.941	1.0000
857	4.886	4.877	0.009	0.185	1.0000
858	5.176	4.942	0.234	4.513	1.0000
859	4.752	4.810	-0.058	1.214	1.0000
860	4.748	4.744	0.004	0.090	1.0000
861	4.929	4.974	-0.044	0.897	1.0000
862	4.505	4.858	-0.353	7.827	0.9721
863	4.767	4.858	-0.091	1.901	1.0000
864	4.844	4.827	0.017	0.358	1.0000
865	3.875	4.915	-1.039	26.825	0.3298
867	3.908	4.848	-0.939	24.026	0.3650
868	4.681	4.945	-0.264	5.636	1.0000
869	4.872	4.948	-0.076	1.553	1.0000
870	4.732	4.832	-0.100	2.105	1.0000
871	5.204	4.799	0.405	7.777	0.8470
872	4.740	4.785	-0.044	0.931	1.0000
873	4.961	4.708	0.253	5.095	1.0000
875	4.875	4.895	-0.020	0.410	1.0000
876	4.875	4.764	0.111	2.283	1.0000
877	4.176	4.710	-0.534	12.792	0.6417
878	5.255	4.904	0.351	6.676	0.9770
879	4.279	4.861	-0.582	13.612	0.5885
881	4.176	4.544	-0.368	8.818	0.9308
882	5.130	4.648	0.482	9.397	0.7111
883	5.362	4.922	0.440	8.200	0.7797
884	4.949	5.064	-0.115	2.324	1.0000
885	4.964	5.028	-0.064	1.299	1.0000
886	5.070	4.932	0.138	2.718	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
887	5.312	4.735	0.577	10.865	0.5939
888	4.740	4.901	-0.160	3.383	1.0000
889	4.732	4.913	-0.180	3.810	1.0000
890	5.176	4.625	0.551	10.644	0.6222
893	4.699	4.716	-0.017	0.366	1.0000
894	5.097	4.933	0.164	3.221	1.0000
895	3.954	4.666	-0.712	17.999	0.4816
896	4.653	4.818	-0.164	3.534	1.0000
897	4.544	4.637	-0.093	2.039	1.0000
898	4.699	4.782	-0.083	1.768	1.0000
899	4.653	4.642	0.011	0.240	1.0000
900	4.602	4.878	-0.276	6.004	1.0000
901	4.623	4.707	-0.084	1.819	1.0000
902	4.342	4.682	-0.340	7.826	1.0000
903	5.204	4.945	0.260	4.988	1.0000
904	4.792	4.717	0.076	1.578	1.0000
905	4.677	4.584	0.093	1.986	1.0000
906	4.929	4.799	0.130	2.643	1.0000
907	4.860	4.877	-0.017	0.351	1.0000
908	4.519	4.689	-0.171	3.779	1.0000
909	5.051	4.993	0.058	1.150	1.0000
910	5.146	4.881	0.265	5.147	1.0000
911	5.053	4.837	0.217	4.285	1.0000
912	5.322	5.015	0.307	5.774	1.0000
913	4.695	4.852	-0.158	3.356	1.0000
914	4.778	4.995	-0.217	4.542	1.0000
915	4.000	5.001	-1.001	25.036	0.3423
916	4.845	4.828	0.017	0.357	1.0000
917	5.000	4.871	0.129	2.574	1.0000
918	4.804	4.737	0.068	1.410	1.0000
919	4.826	4.723	0.103	2.126	1.0000
920	4.978	4.850	0.128	2.575	1.0000
921	5.161	4.840	0.322	6.234	1.0000
922	4.716	4.678	0.038	0.806	1.0000
923	5.000	4.802	0.198	3.968	1.0000
924	5.061	4.824	0.237	4.683	1.0000
925	5.435	5.099	0.335	6.169	1.0000
926	4.914	4.842	0.071	1.451	1.0000
927	4.667	4.871	-0.203	4.357	1.0000
928	4.792	4.997	-0.205	4.275	1.0000
929	5.270	5.156	0.114	2.157	1.0000
930	5.431	4.903	0.529	9.737	0.6482
931	4.301	4.793	-0.492	11.445	0.6963

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
932	4.845	4.930	-0.085	1.757	1.0000
933	4.966	4.878	0.088	1.772	1.0000
934	5.531	5.095	0.436	7.887	0.7857
935	5.267	4.907	0.360	6.842	0.9512
936	5.431	5.191	0.241	4.431	1.0000
937	4.978	4.903	0.074	1.492	1.0000
938	4.477	4.744	-0.267	5.965	1.0000
939	4.778	4.849	-0.070	1.474	1.0000
940	4.845	4.915	-0.069	1.433	1.0000
941	4.903	5.059	-0.156	3.178	1.0000
943	4.929	4.773	0.156	3.166	1.0000
944	5.279	4.587	0.692	13.101	0.4957
945	5.146	4.892	0.254	4.937	1.0000
946	4.792	4.675	0.118	2.459	1.0000
947	4.903	4.761	0.142	2.897	1.0000
948	5.009	4.730	0.279	5.572	1.0000
950	4.914	4.741	0.173	3.512	1.0000
951	4.748	4.730	0.018	0.378	1.0000
952	4.826	4.777	0.049	1.021	1.0000
953	4.826	4.724	0.102	2.110	1.0000
954	5.204	4.713	0.491	9.432	0.6983
955	4.813	4.843	-0.030	0.633	1.0000
956	5.079	4.917	0.162	3.194	1.0000
957	4.954	4.816	0.138	2.790	1.0000
958	4.892	4.734	0.158	3.235	1.0000
959	4.342	4.626	-0.284	6.540	1.0000
960	5.114	5.004	0.110	2.144	1.0000
961	4.875	4.823	0.052	1.060	1.0000
962	4.602	5.022	-0.420	9.131	0.8157
963	4.796	4.734	0.061	1.281	1.0000
964	4.929	4.899	0.030	0.611	1.0000
965	4.380	4.654	-0.273	6.240	1.0000
966	4.929	4.889	0.040	0.811	1.0000
967	4.740	4.829	-0.089	1.878	1.0000
968	4.903	4.926	-0.023	0.471	1.0000
969	4.591	4.654	-0.063	1.371	1.0000
970	4.301	4.778	-0.477	11.096	0.7183
971	4.512	5.038	-0.526	11.663	0.6514
972	4.806	4.745	0.061	1.263	1.0000
973	4.477	5.016	-0.539	12.031	0.6364
974	4.895	4.999	-0.105	2.136	1.0000
975	5.061	5.232	-0.171	3.379	1.0000
976	4.741	4.973	-0.231	4.878	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
978	4.792	4.630	0.163	3.391	1.0000
979	5.176	4.927	0.249	4.816	1.0000
980	5.322	5.093	0.230	4.315	1.0000
981	5.574	5.157	0.417	7.486	0.8214
982	4.966	4.916	0.050	1.009	1.0000
983	5.287	4.990	0.297	5.609	1.0000
984	4.352	4.847	-0.495	11.374	0.6925
985	3.602	4.932	-1.330	36.925	0.2577
986	5.170	4.856	0.314	6.075	1.0000
987	4.398	5.364	-0.967	21.977	0.3547
988	5.301	4.972	0.329	6.210	1.0000
989	4.000	4.632	-0.632	15.788	0.5428
990	4.451	5.022	-0.571	12.824	0.6005
992	4.929	4.957	-0.027	0.557	1.0000
993	4.845	4.876	-0.031	0.630	1.0000
994	4.929	4.888	0.042	0.847	1.0000
995	5.072	4.888	0.184	3.632	1.0000
996	4.875	4.954	-0.079	1.611	1.0000
997	5.371	4.896	0.475	8.842	0.7218
998	4.978	5.011	-0.034	0.678	1.0000
999	4.556	4.691	-0.134	2.947	1.0000
1000	4.591	4.781	-0.189	4.127	1.0000
1001	4.716	4.803	-0.087	1.844	1.0000
1002	4.863	4.812	0.051	1.053	1.0000
1003	5.031	4.802	0.229	4.555	1.0000
1004	5.334	5.073	0.261	4.901	1.0000
1005	4.301	4.869	-0.568	13.214	0.6031
1006	4.398	4.890	-0.492	11.189	0.6966
1007	3.903	4.997	-1.094	28.022	0.3134
1008	4.964	5.187	-0.223	4.501	1.0000
1009	5.041	5.016	0.025	0.502	1.0000
1010	4.439	5.227	-0.788	17.754	0.4349
1011	4.748	5.009	-0.261	5.500	1.0000
1012	4.740	4.982	-0.241	5.094	1.0000
1013	5.322	5.175	0.148	2.775	1.0000
1014	5.398	5.301	0.097	1.799	1.0000
1015	5.423	5.137	0.287	5.287	1.0000
1017	4.929	4.985	-0.056	1.128	1.0000
1018	5.243	5.117	0.126	2.412	1.0000
1019	5.000	4.882	0.118	2.354	1.0000
1020	4.978	5.206	-0.228	4.578	1.0000
1022	5.097	5.104	-0.007	0.147	1.0000
1024	5.398	5.189	0.209	3.866	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1025	4.954	4.751	0.203	4.095	1.0000
1026	4.954	4.786	0.169	3.404	1.0000
1027	5.512	5.115	0.397	7.197	0.8641
1028	5.431	4.989	0.443	8.152	0.7742
1029	5.176	5.300	-0.124	2.392	1.0000
1030	5.000	4.919	0.081	1.611	1.0000
1031	5.041	5.110	-0.069	1.370	1.0000
1032	5.519	5.342	0.176	3.194	1.0000
1033	4.653	5.021	-0.368	7.905	0.9319
1035	5.161	5.008	0.154	2.981	1.0000
1036	5.114	4.987	0.127	2.476	1.0000
1037	4.954	5.027	-0.072	1.461	1.0000
1039	4.875	4.863	0.012	0.247	1.0000
1040	4.929	5.024	-0.095	1.927	1.0000
1041	5.204	5.010	0.194	3.737	1.0000
1042	5.322	5.066	0.256	4.813	1.0000
1044	5.033	4.978	0.055	1.102	1.0000
1045	4.653	5.185	-0.532	11.430	0.6445
1046	5.423	5.253	0.171	3.147	1.0000
1047	4.544	4.909	-0.365	8.024	0.9401
1048	4.954	5.055	-0.100	2.024	1.0000
1049	4.740	4.891	-0.151	3.185	1.0000
1050	4.919	4.909	0.010	0.213	1.0000
1051	4.929	5.028	-0.098	1.996	1.0000
1052	5.243	5.028	0.215	4.093	1.0000
1054	4.778	5.031	-0.253	5.301	1.0000
1055	4.929	4.883	0.047	0.951	1.0000
1057	5.322	5.110	0.212	3.989	1.0000
1058	4.978	5.049	-0.071	1.428	1.0000
1059	5.491	5.063	0.428	7.801	0.8001
1061	5.079	4.856	0.223	4.399	1.0000
1062	5.130	4.726	0.405	7.885	0.8474
1063	4.929	5.102	-0.172	3.494	1.0000
1064	5.332	5.175	0.158	2.962	1.0000
1065	5.352	5.219	0.133	2.489	1.0000
1066	4.978	5.003	-0.025	0.505	1.0000
1067	4.813	5.139	-0.326	6.769	1.0000
1068	4.602	4.786	-0.184	4.006	1.0000
1069	4.699	4.723	-0.024	0.514	1.0000
1070	4.929	4.851	0.078	1.591	1.0000
1071	5.161	4.929	0.233	4.508	1.0000
1072	5.190	5.010	0.181	3.479	1.0000
1073	5.358	5.153	0.205	3.825	1.0000

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1074	5.255	5.068	0.187	3.555	1.0000
1075	5.204	5.122	0.082	1.573	1.0000
1076	5.228	5.239	-0.012	0.221	1.0000
1077	4.903	4.797	0.106	2.169	1.0000
1078	5.290	5.025	0.265	5.003	1.0000
1079	5.255	5.189	0.066	1.257	1.0000
1082	4.740	4.949	-0.209	4.412	1.0000
1083	4.875	4.855	0.020	0.405	1.0000
1084	4.892	4.932	-0.040	0.815	1.0000
1085	4.740	5.060	-0.320	6.744	1.0000
1086	4.954	5.089	-0.135	2.723	1.0000
1087	4.903	4.813	0.090	1.844	1.0000
1089	4.978	5.029	-0.051	1.026	1.0000
1090	4.778	4.995	-0.217	4.535	1.0000
1091	5.212	5.079	0.134	2.564	1.0000
1092	5.290	5.051	0.239	4.518	1.0000
1093	5.114	4.899	0.215	4.208	1.0000
1094	5.279	5.174	0.105	1.984	1.0000
1095	5.051	5.249	-0.198	3.921	1.0000
1096	4.987	5.045	-0.058	1.158	1.0000
1097	5.013	5.012	0.001	0.019	1.0000
1098	4.914	5.208	-0.294	5.991	1.0000
1099	5.154	5.122	0.032	0.622	1.0000
1100	5.230	5.279	-0.049	0.938	1.0000
1101	5.401	5.309	0.093	1.715	1.0000
1102	5.228	5.038	0.189	3.624	1.0000
1103	5.161	5.075	0.087	1.679	1.0000
1104	4.720	5.038	-0.318	6.738	1.0000
1105	4.398	5.248	-0.850	19.331	0.4032
1106	4.477	4.805	-0.328	7.330	1.0000
1107	5.505	5.129	0.376	6.827	0.9121
1108	5.000	4.875	0.125	2.504	1.0000
1109	5.000	5.064	-0.064	1.289	1.0000
1110	5.114	5.045	0.069	1.343	1.0000
1111	4.602	5.061	-0.459	9.963	0.7476
1112	5.000	4.894	0.106	2.113	1.0000
1113	5.033	5.061	-0.028	0.555	1.0000
1114	5.217	4.976	0.241	4.624	1.0000
1115	4.978	5.136	-0.158	3.173	1.0000
1116	5.255	4.957	0.298	5.680	1.0000
1117	5.107	5.023	0.084	1.647	1.0000
1118	5.389	5.021	0.368	6.830	0.9313
1119	4.903	4.925	-0.022	0.443	1.0000



**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1121	5.255	5.024	0.231	4.403	1.0000
1122	4.881	4.898	-0.017	0.349	1.0000
1123	5.588	5.383	0.205	3.670	1.0000
1124	5.190	4.921	0.269	5.181	1.0000
1125	4.903	4.896	0.007	0.146	1.0000
1126	4.740	5.013	-0.272	5.741	1.0000
1127	4.875	5.095	-0.220	4.508	1.0000
1128	5.041	5.102	-0.061	1.208	1.0000
1129	4.699	4.990	-0.291	6.191	1.0000
1130	5.248	5.138	0.110	2.104	1.0000
1131	5.086	5.050	0.036	0.707	1.0000
1132	5.011	5.015	-0.005	0.095	1.0000
1133	4.949	5.048	-0.099	1.995	1.0000
1134	4.544	5.209	-0.665	14.626	0.5158
1135	5.130	5.283	-0.152	2.969	1.0000
1136	4.699	4.866	-0.167	3.552	1.0000
1137	5.000	5.072	-0.072	1.431	1.0000
1138	5.568	5.128	0.441	7.913	0.7780
1139	5.447	5.245	0.202	3.710	1.0000
1140	5.519	5.132	0.386	7.001	0.8872
1141	4.845	4.835	0.010	0.201	1.0000
1142	4.833	4.987	-0.155	3.201	1.0000
1143	4.398	5.032	-0.634	14.424	0.5403
1144	4.982	5.092	-0.110	2.198	1.0000
1145	5.176	4.977	0.199	3.854	1.0000
1146	5.255	5.111	0.144	2.737	1.0000
1147	5.362	5.184	0.177	3.308	1.0000
1148	5.720	5.104	0.616	10.775	0.5561
1150	4.544	4.847	-0.303	6.667	1.0000
1151	4.845	5.080	-0.235	4.846	1.0000
1152	5.447	5.215	0.232	4.267	1.0000
1153	5.230	4.950	0.281	5.370	1.0000
1154	4.477	5.120	-0.643	14.352	0.5335
1155	4.699	5.131	-0.432	9.198	0.7931
1156	5.041	5.040	0.001	0.022	1.0000
1157	4.934	5.030	-0.096	1.941	1.0000
1158	5.114	5.186	-0.072	1.417	1.0000
1159	5.114	5.017	0.097	1.888	1.0000
1160	4.833	4.964	-0.132	2.721	1.0000
1161	4.813	4.882	-0.069	1.441	1.0000
1162	5.415	5.408	0.007	0.138	1.0000
1163	4.845	5.064	-0.219	4.514	1.0000
1165	4.568	5.112	-0.544	11.907	0.6302

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1166	4.778	4.836	-0.058	1.217	1.0000
1168	5.114	5.090	0.024	0.477	1.0000
1169	5.114	5.256	-0.142	2.775	1.0000
1170	5.104	4.928	0.175	3.437	1.0000
1171	4.954	4.967	-0.013	0.260	1.0000
1172	5.613	5.233	0.380	6.765	0.9027
1173	5.021	5.087	-0.066	1.314	1.0000
1174	4.748	5.055	-0.307	6.468	1.0000
1175	5.267	5.100	0.167	3.178	1.0000
1176	5.204	5.030	0.174	3.353	1.0000
1177	4.903	5.141	-0.238	4.851	1.0000
1178	5.041	4.919	0.122	2.425	1.0000
1179	4.740	5.108	-0.368	7.755	0.9325
1180	4.816	4.984	-0.168	3.492	1.0000
1181	5.371	5.056	0.315	5.867	1.0000
1182	5.173	4.847	0.327	6.313	1.0000
1183	5.190	5.164	0.026	0.506	1.0000
1184	5.301	5.067	0.234	4.407	1.0000
1185	5.491	5.223	0.268	4.885	1.0000
1186	5.217	5.109	0.108	2.072	1.0000
1187	5.161	4.972	0.190	3.676	1.0000
1188	5.176	5.234	-0.058	1.114	1.0000
1189	5.000	5.011	-0.011	0.218	1.0000
1190	4.740	4.711	0.030	0.623	1.0000
1191	4.531	4.880	-0.349	7.696	0.9829
1192	4.602	5.071	-0.469	10.189	0.7310
1193	4.848	5.265	-0.417	8.599	0.8222
1194	4.903	4.986	-0.083	1.692	1.0000
1195	5.238	4.967	0.271	5.183	1.0000
1196	4.763	4.953	-0.190	3.988	1.0000
1197	5.562	5.055	0.507	9.115	0.6761
1198	5.294	5.170	0.124	2.351	1.0000
1199	5.029	5.170	-0.140	2.791	1.0000
1200	5.423	5.277	0.146	2.688	1.0000
1202	5.312	5.196	0.116	2.183	1.0000
1203	4.978	5.031	-0.053	1.067	1.0000
1204	4.097	4.646	-0.549	13.412	0.6238
1205	5.439	4.909	0.531	9.753	0.6461
1206	4.845	4.891	-0.046	0.946	1.0000
1207	4.462	4.884	-0.422	9.458	0.8122
1210	5.146	5.076	0.070	1.364	1.0000
1211	5.519	5.233	0.286	5.181	1.0000
1212	4.653	4.779	-0.126	2.714	1.0000

**Robust Multiple Regression Report**

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1213	4.978	4.892	0.086	1.731	1.0000
1215	4.813	5.130	-0.317	6.587	1.0000
1216	5.371	5.091	0.280	5.205	1.0000
1217	5.061	4.882	0.178	3.525	1.0000
1218	5.041	4.738	0.304	6.026	1.0000
1219	5.362	5.071	0.291	5.431	1.0000
1220	4.813	4.984	-0.171	3.545	1.0000
1221	4.903	5.045	-0.142	2.904	1.0000
1222	4.813	5.012	-0.199	4.136	1.0000
1223	5.146	5.086	0.060	1.170	1.0000
1225	5.011	5.083	-0.072	1.440	1.0000
1226	5.602	5.014	0.588	10.493	0.5831
1227	5.190	5.223	-0.032	0.625	1.0000
1228	5.204	5.018	0.186	3.568	1.0000
1229	4.845	4.998	-0.153	3.149	1.0000
1230	4.301	4.885	-0.584	13.569	0.5873
1231	5.396	5.147	0.250	4.625	1.0000
1233	5.410	5.123	0.287	5.302	1.0000
1234	5.255	5.062	0.193	3.675	1.0000
1235	5.279	5.200	0.079	1.493	1.0000
1236	5.407	5.088	0.319	5.893	1.0000
1237	5.000	4.948	0.052	1.034	1.0000
1239	4.505	4.800	-0.295	6.555	1.0000
1240	5.322	5.452	-0.130	2.435	1.0000
1241	5.505	5.279	0.227	4.116	1.0000
1242	5.512	5.279	0.233	4.234	1.0000
1243	4.857	5.309	-0.452	9.299	0.7589
1244	5.000	5.224	-0.224	4.472	1.0000
1245	5.176	5.140	0.036	0.692	1.0000
1246	5.217	5.180	0.038	0.720	1.0000
1247	4.544	4.858	-0.314	6.915	1.0000
1248	4.892	4.981	-0.089	1.825	1.0000
1249	4.954	4.803	0.151	3.050	1.0000
1250	5.362	4.991	0.371	6.921	0.9238
1251	4.949	4.935	0.015	0.294	1.0000
1252	4.681	4.958	-0.277	5.908	1.0000
1253	4.954	4.892	0.062	1.254	1.0000
1254	5.250	5.103	0.148	2.817	1.0000
1255	5.279	5.151	0.128	2.426	1.0000
1256	4.727	4.976	-0.249	5.268	1.0000
1257	4.978	5.129	-0.151	3.040	1.0000
1258	4.653	4.992	-0.339	7.280	1.0000
1259	4.813	4.997	-0.184	3.827	1.0000

**Robust Multiple Regression Report**

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1260	4.934	4.985	-0.051	1.027	1.0000
1261	5.201	4.941	0.260	4.999	1.0000
1262	5.079	4.968	0.111	2.185	1.0000
1263	4.279	4.929	-0.651	15.204	0.5269
1264	4.740	5.067	-0.327	6.888	1.0000
1265	5.061	5.321	-0.260	5.137	1.0000
1266	5.371	5.047	0.324	6.026	1.0000
1269	5.061	5.044	0.016	0.323	1.0000
1270	5.352	5.161	0.192	3.580	1.0000
1271	5.407	5.103	0.303	5.613	1.0000
1272	4.477	5.023	-0.546	12.187	0.6282
1274	5.097	4.948	0.149	2.929	1.0000
1275	4.796	4.878	-0.082	1.712	1.0000
1276	4.398	4.688	-0.290	6.585	1.0000
1277	4.919	4.901	0.018	0.360	1.0000
1278	5.267	5.032	0.236	4.471	1.0000
1280	5.021	4.841	0.180	3.585	1.0000
1281	5.296	5.237	0.058	1.100	1.0000
1282	4.892	4.955	-0.062	1.276	1.0000
1283	5.000	4.975	0.025	0.497	1.0000
1284	4.398	4.752	-0.354	8.050	0.9682
1285	4.602	4.850	-0.248	5.389	1.0000
1286	4.431	4.714	-0.283	6.381	1.0000
1287	4.301	5.154	-0.853	19.825	0.4020
1290	5.396	5.240	0.156	2.892	1.0000
1291	5.217	5.294	-0.076	1.460	1.0000
1292	5.491	5.146	0.346	6.297	0.9913
1293	5.170	4.826	0.344	6.660	0.9955
1294	5.301	4.821	0.480	9.064	0.7134
1297	4.954	4.927	0.027	0.546	1.0000
1298	5.371	5.155	0.216	4.026	1.0000
1299	5.204	5.198	0.006	0.123	1.0000
1300	5.318	5.206	0.112	2.112	1.0000
1301	5.190	5.186	0.005	0.093	1.0000
1302	5.238	5.216	0.022	0.420	1.0000
1303	5.161	5.124	0.038	0.727	1.0000
1304	4.978	5.083	-0.105	2.112	1.0000
1305	4.740	4.997	-0.257	5.413	1.0000
1306	5.021	5.095	-0.073	1.462	1.0000
1307	5.230	5.171	0.060	1.139	1.0000
1308	4.954	5.116	-0.161	3.258	1.0000
1309	4.580	5.007	-0.427	9.322	0.8029
1310	4.778	5.106	-0.328	6.859	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1311	5.097	5.014	0.083	1.627	1.0000
1312	4.978	5.047	-0.069	1.385	1.0000
1313	5.097	4.950	0.147	2.876	1.0000
1314	5.190	4.965	0.226	4.348	1.0000
1315	5.079	5.285	-0.206	4.050	1.0000
1316	5.276	5.052	0.224	4.253	1.0000
1317	5.130	5.097	0.033	0.642	1.0000
1318	5.332	5.155	0.178	3.333	1.0000
1319	5.230	5.136	0.094	1.803	1.0000
1320	5.204	5.150	0.055	1.048	1.0000
1321	5.407	5.090	0.317	5.862	1.0000
1322	4.954	4.904	0.050	1.008	1.0000
1323	4.740	5.107	-0.367	7.742	0.9340
1324	5.183	4.892	0.291	5.623	1.0000
1325	5.389	5.246	0.143	2.650	1.0000
1326	4.996	4.795	0.201	4.020	1.0000
1327	5.114	4.967	0.147	2.870	1.0000
1328	4.699	4.943	-0.244	5.194	1.0000
1329	4.000	4.720	-0.720	17.988	0.4764
1330	4.898	4.932	-0.034	0.692	1.0000
1331	4.602	4.820	-0.218	4.738	1.0000
1332	4.342	5.094	-0.752	17.306	0.4561
1333	4.643	4.901	-0.257	5.543	1.0000
1334	5.000	5.238	-0.238	4.752	1.0000
1335	5.114	5.003	0.111	2.177	1.0000
1336	5.161	5.078	0.083	1.608	1.0000
1338	4.623	4.847	-0.223	4.832	1.0000
1340	4.431	5.029	-0.598	13.497	0.5731
1341	5.371	5.438	-0.067	1.252	1.0000
1342	5.362	5.356	0.006	0.108	1.0000
1343	5.146	5.068	0.078	1.509	1.0000
1344	4.688	4.995	-0.307	6.550	1.0000
1346	4.929	5.012	-0.082	1.670	1.0000
1347	4.845	4.900	-0.055	1.135	1.0000
1350	4.996	4.967	0.029	0.579	1.0000
1351	4.778	4.975	-0.196	4.110	1.0000
1352	5.255	5.139	0.117	2.219	1.0000
1353	5.255	5.138	0.117	2.224	1.0000
1354	5.190	5.059	0.131	2.527	1.0000
1355	4.778	5.006	-0.228	4.774	1.0000
1356	4.959	5.024	-0.065	1.316	1.0000
1357	4.740	4.991	-0.251	5.296	1.0000
1358	5.061	5.006	0.055	1.082	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1359	5.283	5.157	0.126	2.387	1.0000
1360	4.989	5.064	-0.075	1.504	1.0000
1361	4.699	5.067	-0.368	7.822	0.9326
1362	5.431	5.224	0.208	3.827	1.0000
1363	4.699	5.008	-0.309	6.575	1.0000
1364	5.398	4.977	0.421	7.799	0.8143
1365	5.190	5.152	0.038	0.740	1.0000
1367	5.283	5.027	0.256	4.852	1.0000
1368	5.398	5.256	0.142	2.628	1.0000
1369	5.459	5.294	0.165	3.023	1.0000
1373	4.778	4.791	-0.013	0.271	1.0000
1374	5.146	4.939	0.208	4.033	1.0000
1376	5.104	5.035	0.069	1.357	1.0000
1377	5.465	5.290	0.176	3.211	1.0000
1378	5.512	5.077	0.435	7.895	0.7877
1379	5.352	5.027	0.326	6.084	1.0000
1380	5.176	4.942	0.234	4.515	1.0000
1381	5.066	5.145	-0.079	1.563	1.0000
1382	5.512	5.154	0.358	6.502	0.9565
1383	5.233	5.235	-0.002	0.032	1.0000
1385	5.182	5.304	-0.122	2.355	1.0000
1386	5.114	5.161	-0.047	0.928	1.0000
1387	5.176	5.039	0.137	2.656	1.0000
1388	4.944	4.949	-0.005	0.098	1.0000
1389	4.544	4.948	-0.404	8.881	0.8494
1390	4.881	5.240	-0.359	7.365	0.9536
1393	4.602	5.091	-0.489	10.622	0.7012
1394	4.690	4.825	-0.135	2.871	1.0000
1395	5.176	5.031	0.145	2.803	1.0000
1396	5.362	5.349	0.013	0.244	1.0000
1398	5.477	5.013	0.464	8.477	0.7383
1399	4.544	4.934	-0.389	8.571	0.8802
1400	5.121	5.356	-0.236	4.607	1.0000
1401	4.944	4.978	-0.033	0.673	1.0000
1402	4.914	4.836	0.078	1.587	1.0000
1403	5.512	5.098	0.414	7.505	0.8286
1404	4.699	4.818	-0.119	2.530	1.0000
1405	5.243	4.967	0.276	5.260	1.0000
1406	5.398	4.913	0.485	8.985	0.7068
1407	5.301	5.125	0.176	3.320	1.0000
1408	5.249	5.109	0.140	2.671	1.0000
1409	4.477	4.899	-0.422	9.428	0.8121
1410	4.544	4.958	-0.414	9.105	0.8285

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1411	5.371	5.189	0.182	3.397	1.0000
1412	5.021	5.542	-0.521	10.372	0.6582
1413	4.799	4.871	-0.072	1.496	1.0000
1414	5.114	5.021	0.093	1.826	1.0000
1415	4.301	4.673	-0.372	8.644	0.9220
1416	4.602	5.144	-0.542	11.768	0.6330
1417	5.000	5.039	-0.039	0.777	1.0000
1418	5.041	4.978	0.064	1.264	1.0000
1419	5.146	5.458	-0.312	6.053	1.0000
1420	5.079	5.148	-0.069	1.353	1.0000
1421	4.903	5.082	-0.179	3.643	1.0000
1424	5.276	5.129	0.148	2.803	1.0000
1425	5.041	4.927	0.114	2.260	1.0000
1426	5.000	5.047	-0.047	0.940	1.0000
1427	4.114	4.790	-0.676	16.425	0.5073
1428	4.978	4.850	0.128	2.574	1.0000
1429	5.279	5.051	0.227	4.309	1.0000
1430	5.296	5.069	0.226	4.276	1.0000
1431	4.278	4.794	-0.517	12.081	0.6633
1432	4.929	5.375	-0.446	9.042	0.7691
1433	4.991	5.330	-0.339	6.797	1.0000
1434	5.106	4.931	0.174	3.411	1.0000
1435	4.875	4.789	0.086	1.767	1.0000
1437	5.097	5.043	0.054	1.058	1.0000
1438	4.778	4.967	-0.189	3.956	1.0000
1439	4.778	5.017	-0.239	5.008	1.0000
1440	4.903	5.059	-0.156	3.178	1.0000
1441	4.602	4.806	-0.204	4.434	1.0000
1442	5.152	5.093	0.059	1.152	1.0000
1443	5.407	5.153	0.254	4.695	1.0000
1444	5.204	5.100	0.105	2.010	1.0000
1445	5.903	4.742	1.161	19.668	0.2952
1446	5.498	5.288	0.210	3.819	1.0000
1447	5.380	5.198	0.182	3.387	1.0000
1448	5.290	5.229	0.061	1.159	1.0000
1449	5.505	5.153	0.352	6.394	0.9739
1450	5.439	5.179	0.260	4.783	1.0000
1451	5.079	5.062	0.017	0.330	1.0000
1452	4.964	4.964	0.000	0.006	1.0000
1453	5.210	5.095	0.115	2.206	1.0000
1454	5.255	5.186	0.069	1.311	1.0000
1455	4.623	5.058	-0.434	9.394	0.7893
1456	5.079	4.949	0.130	2.560	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1457	4.903	4.903	0.001	0.011	1.0000
1458	4.929	4.900	0.029	0.593	1.0000
1459	5.061	4.940	0.121	2.389	1.0000
1460	4.531	5.209	-0.677	14.941	0.5063
1461	5.204	5.084	0.121	2.317	1.0000
1462	5.517	5.107	0.410	7.430	0.8362
1463	4.903	5.003	-0.100	2.036	1.0000
1464	4.903	4.834	0.069	1.410	1.0000
1466	4.804	4.899	-0.095	1.969	1.0000
1467	5.190	5.139	0.051	0.987	1.0000
1468	5.455	4.923	0.532	9.752	0.6444
1469	5.041	5.158	-0.117	2.313	1.0000
1470	5.267	5.242	0.025	0.469	1.0000
1471	4.875	5.219	-0.344	7.054	0.9968
1472	5.763	5.299	0.464	8.059	0.7380
1473	4.875	5.061	-0.186	3.817	1.0000
1474	5.556	5.333	0.223	4.018	1.0000
1475	5.143	4.906	0.237	4.612	1.0000
1476	5.342	5.115	0.227	4.258	1.0000
1477	5.097	5.082	0.015	0.285	1.0000
1478	4.699	4.986	-0.287	6.104	1.0000
1479	5.230	5.017	0.213	4.072	1.0000
1480	4.957	4.931	0.026	0.524	1.0000
1481	4.362	4.916	-0.554	12.697	0.6190
1482	4.544	4.943	-0.399	8.782	0.8590
1483	4.892	5.008	-0.116	2.374	1.0000
1484	4.875	4.827	0.048	0.990	1.0000
1485	5.217	4.942	0.275	5.280	1.0000
1487	5.061	4.926	0.134	2.657	1.0000
1488	4.806	4.884	-0.078	1.620	1.0000
1489	5.491	5.084	0.408	7.425	0.8407
1490	5.380	4.970	0.410	7.629	0.8351
1491	4.845	4.913	-0.068	1.410	1.0000
1492	5.041	5.160	-0.118	2.345	1.0000
1493	5.061	5.294	-0.233	4.612	1.0000
1494	5.322	5.437	-0.115	2.154	1.0000
1495	5.342	5.080	0.262	4.905	1.0000
1496	4.954	4.788	0.166	3.356	1.0000
1497	5.477	5.192	0.285	5.199	1.0000
1498	5.161	5.311	-0.150	2.897	1.0000
1499	4.505	4.927	-0.422	9.360	0.8129
1500	4.602	4.961	-0.358	7.789	0.9563
1501	4.968	5.012	-0.043	0.868	1.0000



**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1502	5.000	5.217	-0.217	4.348	1.0000
1503	5.173	5.390	-0.217	4.192	1.0000
1504	5.267	5.088	0.179	3.406	1.0000
1505	5.519	5.025	0.493	8.942	0.6947
1506	4.929	4.872	0.058	1.169	1.0000
1507	5.498	5.223	0.276	5.012	1.0000
1508	5.176	5.257	-0.081	1.569	1.0000
1511	5.352	5.172	0.180	3.357	1.0000
1512	5.884	5.077	0.807	13.711	0.4249
1513	5.312	5.198	0.114	2.144	1.0000
1514	4.845	4.967	-0.122	2.511	1.0000
1515	5.465	5.226	0.240	4.387	1.0000
1516	4.978	5.059	-0.081	1.634	1.0000
1517	5.176	5.003	0.173	3.342	1.0000
1518	5.124	5.377	-0.253	4.945	1.0000
1519	5.146	5.010	0.136	2.652	1.0000
1520	4.602	5.166	-0.564	12.252	0.6079
1522	5.041	5.009	0.032	0.642	1.0000
1523	4.732	5.076	-0.343	7.254	0.9985
1525	4.672	4.834	-0.162	3.473	1.0000
1526	5.072	4.986	0.085	1.685	1.0000
1527	4.362	4.906	-0.545	12.486	0.6294
1528	5.398	5.146	0.252	4.667	1.0000
1529	4.869	5.094	-0.225	4.614	1.0000
1530	5.279	4.930	0.348	6.602	0.9836
1531	4.484	4.974	-0.490	10.929	0.6994
1532	5.313	5.097	0.215	4.055	1.0000
1533	5.415	4.915	0.500	9.239	0.6852
1534	4.991	5.094	-0.103	2.059	1.0000
1535	5.267	5.051	0.216	4.095	1.0000
1536	5.079	5.073	0.006	0.115	1.0000
1537	5.643	5.261	0.382	6.768	0.8974
1538	5.146	5.413	-0.267	5.187	1.0000
1539	5.230	5.070	0.160	3.066	1.0000
1540	5.204	5.231	-0.027	0.521	1.0000
1541	5.176	5.530	-0.354	6.839	0.9683
1542	5.267	5.246	0.022	0.409	1.0000
1545	4.959	4.962	-0.003	0.058	1.0000
1546	5.407	5.007	0.400	7.394	0.8575
1547	4.699	4.970	-0.271	5.777	1.0000
1548	5.677	5.339	0.338	5.952	1.0000
1549	5.079	4.978	0.101	1.984	1.0000
1550	5.146	4.961	0.185	3.598	1.0000

**Robust Multiple Regression Report**

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1551	5.477	5.316	0.161	2.934	1.0000
1552	5.114	5.245	-0.131	2.567	1.0000
1553	5.070	4.990	0.081	1.588	1.0000
1554	5.423	5.116	0.308	5.672	1.0000
1555	4.653	5.051	-0.398	8.553	0.8612
1556	4.778	5.180	-0.401	8.401	0.8540
1557	4.799	5.098	-0.299	6.221	1.0000
1558	4.875	5.136	-0.261	5.358	1.0000
1560	5.279	5.225	0.054	1.019	1.0000
1561	4.922	4.968	-0.046	0.939	1.0000
1562	5.531	5.211	0.320	5.793	1.0000
1563	4.863	4.976	-0.112	2.309	1.0000
1564	4.968	5.100	-0.131	2.644	1.0000
1565	5.000	5.294	-0.294	5.872	1.0000
1566	5.591	5.453	0.138	2.472	1.0000
1567	4.602	4.714	-0.112	2.434	1.0000
1568	5.658	5.376	0.282	4.984	1.0000
1569	5.161	5.130	0.032	0.615	1.0000
1570	5.255	5.318	-0.063	1.192	1.0000
1571	5.322	5.168	0.154	2.891	1.0000
1572	6.079	5.078	1.001	16.471	0.3423
1573	5.431	5.173	0.259	4.765	1.0000
1574	4.602	5.048	-0.446	9.686	0.7690
1576	5.100	5.159	-0.058	1.143	1.0000
1577	4.949	4.878	0.071	1.439	1.0000
1578	5.243	5.052	0.191	3.638	1.0000
1579	5.274	5.068	0.206	3.912	1.0000
1580	4.903	4.982	-0.079	1.608	1.0000
1581	5.342	5.118	0.224	4.195	1.0000
1582	4.477	4.974	-0.497	11.092	0.6903
1583	5.498	5.150	0.349	6.343	0.9828
1584	5.176	5.152	0.024	0.460	1.0000
1585	4.886	5.259	-0.373	7.632	0.9191
1586	5.397	5.238	0.159	2.938	1.0000
1587	4.954	4.865	0.089	1.806	1.0000
1588	5.470	5.158	0.312	5.705	1.0000
1590	5.538	5.074	0.463	8.369	0.7396
1591	4.658	4.842	-0.184	3.940	1.0000
1592	4.702	5.182	-0.479	10.196	0.7149
1593	4.845	5.091	-0.246	5.069	1.0000
1594	5.176	5.188	-0.012	0.226	1.0000
1595	4.681	5.096	-0.415	8.865	0.8260
1596	5.550	4.997	0.553	9.964	0.6198

**Robust Multiple Regression Report**

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Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1597	5.000	5.025	-0.025	0.502	1.0000
1598	4.978	5.141	-0.163	3.280	1.0000
1600	4.544	5.243	-0.699	15.388	0.4902
1601	5.322	5.032	0.290	5.453	1.0000
1602	5.519	5.193	0.325	5.895	1.0000
1604	4.512	5.024	-0.512	11.344	0.6697
1605	4.778	4.995	-0.217	4.532	1.0000
1606	4.875	5.060	-0.185	3.788	1.0000
1608	5.312	5.047	0.264	4.979	1.0000
1609	4.568	4.998	-0.430	9.405	0.7978
1610	5.255	5.088	0.167	3.186	1.0000
1611	5.544	5.080	0.464	8.365	0.7392
1612	4.544	5.299	-0.755	16.615	0.4540
1613	4.903	4.991	-0.088	1.803	1.0000
1614	4.892	5.101	-0.209	4.275	1.0000
1615	4.602	4.974	-0.372	8.073	0.9227
1616	5.813	4.958	0.855	14.702	0.4011
1618	5.525	5.106	0.419	7.585	0.8180
1620	5.027	5.148	-0.120	2.392	1.0000
1621	5.061	5.068	-0.008	0.150	1.0000
1622	5.262	5.152	0.111	2.105	1.0000
1623	5.112	4.903	0.209	4.096	1.0000
1624	5.322	5.226	0.096	1.806	1.0000
1626	4.813	4.853	-0.040	0.838	1.0000
1627	4.643	5.068	-0.425	9.152	0.8066
1628	5.064	5.150	-0.086	1.694	1.0000
1629	5.431	4.897	0.534	9.834	0.6418
1630	5.525	5.352	0.173	3.128	1.0000
1632	5.380	5.353	0.028	0.512	1.0000
1633	4.740	5.115	-0.374	7.896	0.9158
1634	5.243	5.360	-0.117	2.228	1.0000
1635	5.230	5.495	-0.265	5.062	1.0000
1636	4.978	5.081	-0.103	2.066	1.0000
1637	5.556	5.104	0.452	8.140	0.7579
1638	5.413	5.165	0.249	4.593	1.0000
1640	5.398	4.975	0.423	7.830	0.8110
1641	5.079	5.193	-0.114	2.239	1.0000
1642	4.653	4.998	-0.344	7.401	0.9954
1643	5.322	5.230	0.093	1.740	1.0000
1645	4.978	4.957	0.020	0.411	1.0000
1646	5.146	5.172	-0.026	0.503	1.0000
1647	4.613	5.056	-0.444	9.617	0.7727
1648	5.134	5.123	0.011	0.212	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_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.

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1649	5.376	5.375	0.001	0.014	1.0000
1650	4.763	5.137	-0.374	7.841	0.9177
1652	5.342	5.202	0.140	2.629	1.0000
1653	4.681	5.076	-0.395	8.443	0.8673
1654	4.875	4.964	-0.089	1.821	1.0000
1655	5.585	5.364	0.221	3.959	1.0000
1656	5.204	5.360	-0.156	2.998	1.0000
1657	4.919	5.228	-0.308	6.271	1.0000
1658	5.799	5.134	0.665	11.472	0.5152
1659	5.394	5.360	0.034	0.639	1.0000
1660	4.903	4.968	-0.065	1.316	1.0000
1661	5.170	5.222	-0.051	0.991	1.0000
1662	5.279	5.120	0.159	3.005	1.0000
1663	4.717	5.069	-0.351	7.451	0.9752
1665	4.845	5.277	-0.432	8.920	0.7932
1666	5.301	5.088	0.213	4.021	1.0000
1667	5.470	5.090	0.380	6.950	0.9016
1668	5.488	5.167	0.320	5.839	1.0000
1669	4.875	5.031	-0.156	3.193	1.0000
1671	5.068	4.859	0.210	4.137	1.0000
1672	5.550	5.335	0.215	3.875	1.0000
1673	5.146	5.116	0.030	0.577	1.0000
1674	5.460	5.243	0.217	3.980	1.0000
1675	5.498	5.271	0.227	4.135	1.0000
1676	4.462	5.016	-0.554	12.406	0.6192
1678	4.716	5.008	-0.292	6.193	1.0000
1679	5.217	5.024	0.194	3.714	1.0000
1680	5.380	5.524	-0.143	2.665	1.0000
1681	4.964	4.903	0.061	1.221	1.0000
1682	5.140	4.722	0.418	8.138	0.8195
1683	5.197	5.077	0.120	2.313	1.0000
1684	4.778	4.927	-0.149	3.125	1.0000
1685	4.544	5.052	-0.508	11.172	0.6752
1686	5.332	5.442	-0.110	2.057	1.0000
1687	5.342	5.233	0.109	2.041	1.0000
1688	5.204	5.045	0.160	3.065	1.0000
1689	5.000	5.130	-0.130	2.596	1.0000
1690	5.412	5.054	0.358	6.609	0.9584
1691	5.631	5.159	0.472	8.388	0.7257
1692	5.512	5.235	0.277	5.017	1.0000
1693	4.568	4.815	-0.247	5.400	1.0000
1694	4.973	5.000	-0.027	0.547	1.0000
1695	5.000	5.077	-0.077	1.548	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1696	4.699	4.961	-0.262	5.573	1.0000
1697	5.267	5.215	0.052	0.988	1.0000
1698	5.130	5.129	0.001	0.023	1.0000
1699	5.362	5.139	0.223	4.155	1.0000
1700	5.114	5.191	-0.077	1.511	1.0000
1701	4.813	5.172	-0.359	7.468	0.9537
1702	4.778	5.058	-0.280	5.851	1.0000
1703	4.929	4.906	0.023	0.472	1.0000
1704	4.176	5.029	-0.853	20.420	0.4020
1705	5.217	5.084	0.133	2.552	1.0000
1706	5.255	5.010	0.245	4.659	1.0000
1707	5.272	5.173	0.099	1.876	1.0000
1708	4.954	5.027	-0.073	1.478	1.0000
1709	5.455	4.919	0.536	9.820	0.6399
1710	4.903	4.861	0.043	0.868	1.0000
1711	4.954	4.943	0.011	0.224	1.0000
1712	5.312	5.033	0.279	5.245	1.0000
1713	4.690	5.049	-0.359	7.650	0.9554
1715	4.628	5.046	-0.417	9.014	0.8217
1716	4.919	5.120	-0.201	4.091	1.0000
1717	5.358	5.099	0.259	4.838	1.0000
1719	4.978	5.142	-0.164	3.298	1.0000
1720	5.362	5.066	0.296	5.518	1.0000
1722	4.792	5.022	-0.230	4.792	1.0000
1723	5.290	4.981	0.309	5.838	1.0000
1724	4.732	4.994	-0.262	5.534	1.0000
1725	4.544	5.025	-0.481	10.587	0.7125
1726	5.571	5.231	0.340	6.095	1.0000
1727	5.000	5.179	-0.179	3.575	1.0000
1728	5.538	5.503	0.035	0.631	1.0000
1729	5.312	5.118	0.194	3.656	1.0000
1730	5.041	5.046	-0.005	0.097	1.0000
1731	4.924	4.842	0.082	1.669	1.0000
1732	5.415	5.181	0.234	4.321	1.0000
1733	5.407	5.203	0.203	3.759	1.0000
1734	5.021	5.140	-0.119	2.369	1.0000
1735	5.061	5.059	0.002	0.033	1.0000
1737	4.176	5.195	-1.019	24.398	0.3364
1738	5.161	4.984	0.177	3.437	1.0000
1739	5.041	5.048	-0.006	0.124	1.0000
1740	5.000	5.157	-0.157	3.147	1.0000
1741	4.806	4.990	-0.184	3.831	1.0000
1742	5.455	5.163	0.292	5.356	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1743	4.903	4.932	-0.029	0.595	1.0000
1744	4.740	5.232	-0.491	10.365	0.6977
1745	4.699	4.954	-0.255	5.436	1.0000
1747	5.130	5.107	0.023	0.446	1.0000
1748	5.204	5.073	0.131	2.512	1.0000
1749	4.653	5.068	-0.415	8.916	0.8262
1750	5.415	5.328	0.087	1.614	1.0000
1751	4.903	5.337	-0.433	8.836	0.7912
1752	5.312	5.187	0.125	2.352	1.0000
1753	5.387	5.199	0.188	3.494	1.0000
1754	5.458	5.220	0.238	4.367	1.0000
1755	5.243	5.171	0.072	1.370	1.0000
1756	4.763	5.271	-0.507	10.646	0.6760
1757	5.130	5.276	-0.146	2.836	1.0000
1758	5.079	5.190	-0.111	2.182	1.0000
1759	5.431	4.998	0.433	7.980	0.7909
1760	5.029	5.025	0.004	0.087	1.0000
1761	5.041	5.084	-0.042	0.839	1.0000
1762	4.477	5.000	-0.522	11.668	0.6562
1763	5.260	5.312	-0.052	0.980	1.0000
1764	5.029	4.852	0.177	3.526	1.0000
1765	4.903	5.337	-0.434	8.846	0.7903
1766	4.845	5.265	-0.420	8.676	0.8155
1768	5.342	5.266	0.077	1.436	1.0000
1770	5.322	5.134	0.188	3.538	1.0000
1771	5.352	5.004	0.348	6.507	0.9843
1772	4.813	5.033	-0.220	4.575	1.0000
1773	5.371	5.220	0.151	2.815	1.0000
1774	4.574	5.046	-0.472	10.315	0.7265
1775	5.394	5.285	0.108	2.007	1.0000
1776	4.672	5.125	-0.453	9.701	0.7563
1777	5.415	5.269	0.146	2.689	1.0000
1778	5.068	5.127	-0.059	1.169	1.0000
1779	4.740	4.856	-0.116	2.449	1.0000
1780	4.799	4.914	-0.115	2.389	1.0000
1781	4.740	4.954	-0.213	4.504	1.0000
1782	5.290	5.120	0.170	3.219	1.0000
1783	5.667	5.529	0.138	2.439	1.0000
1784	5.146	5.049	0.097	1.881	1.0000
1785	5.176	5.125	0.051	0.983	1.0000
1786	5.380	5.104	0.277	5.140	1.0000
1787	5.079	5.017	0.062	1.228	1.0000
1788	5.243	5.005	0.238	4.535	1.0000

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Robust Residuals and Weights (Continued)**

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1789	5.447	5.184	0.263	4.830	1.0000
1790	4.695	5.114	-0.419	8.924	0.8182
1791	4.949	5.100	-0.151	3.043	1.0000
1792	5.176	5.041	0.135	2.609	1.0000
1793	5.230	4.942	0.288	5.515	1.0000
1794	5.000	5.174	-0.174	3.475	1.0000
1795	4.866	4.864	0.003	0.053	1.0000
1796	5.176	5.153	0.023	0.442	1.0000
1797	4.978	5.228	-0.250	5.020	1.0000
1798	4.929	5.010	-0.081	1.645	1.0000
1799	4.903	4.848	0.055	1.123	1.0000
1800	4.771	5.090	-0.319	6.693	1.0000
1801	5.451	5.042	0.409	7.501	0.8384
1802	4.699	4.845	-0.146	3.107	1.0000
1805	5.389	5.291	0.098	1.820	1.0000
1806	5.243	5.125	0.118	2.249	1.0000
1808	5.699	5.046	0.653	11.451	0.5253
1809	5.505	5.081	0.424	7.696	0.8091
1810	5.332	5.125	0.207	3.887	1.0000
1812	5.087	4.892	0.195	3.833	1.0000
1813	5.017	5.110	-0.093	1.862	1.0000
1814	5.061	5.059	0.002	0.038	1.0000
1815	4.927	5.103	-0.176	3.580	1.0000
1816	4.859	4.878	-0.018	0.371	1.0000

## Robust Multiple Regression Report

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

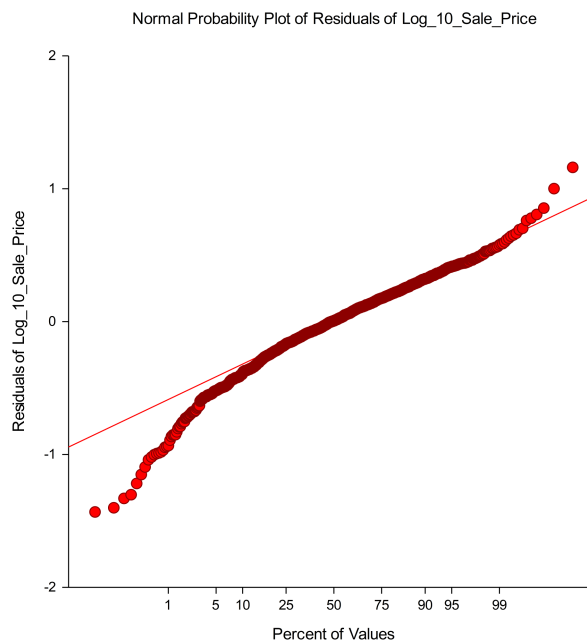
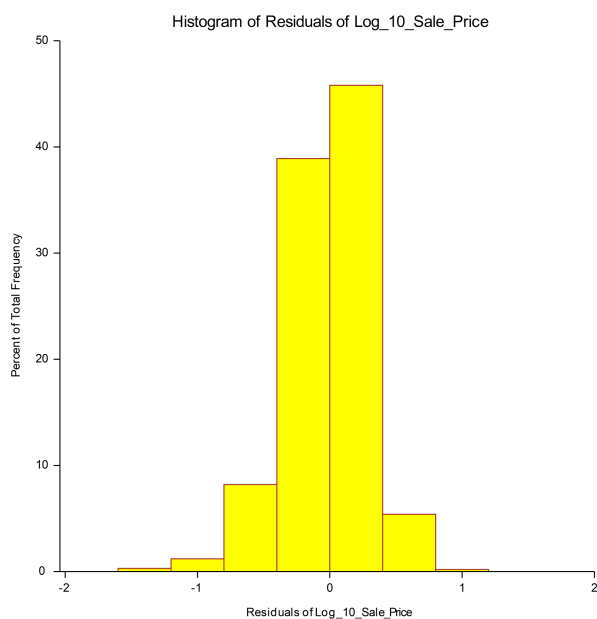
Dependent Log\_10\_Sale\_Price

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.

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### Distributional Plots of Residuals

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## Robust Multiple Regression Report

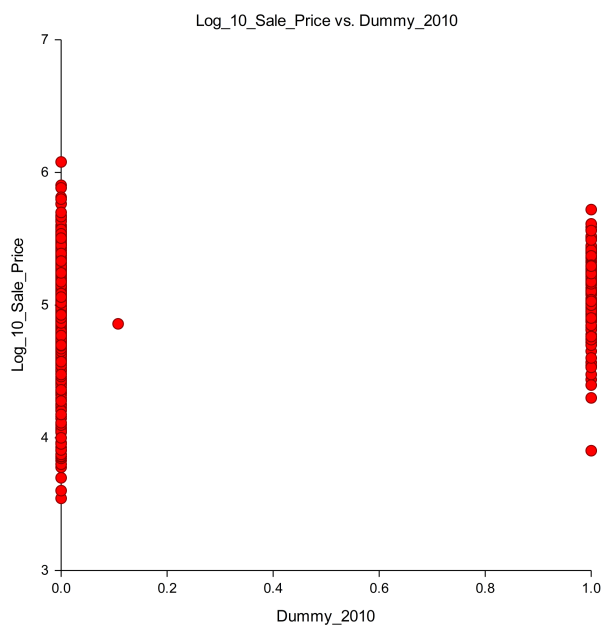
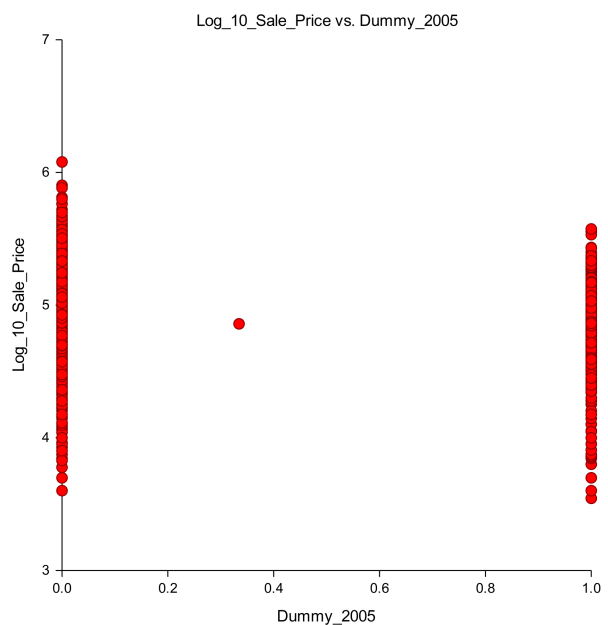
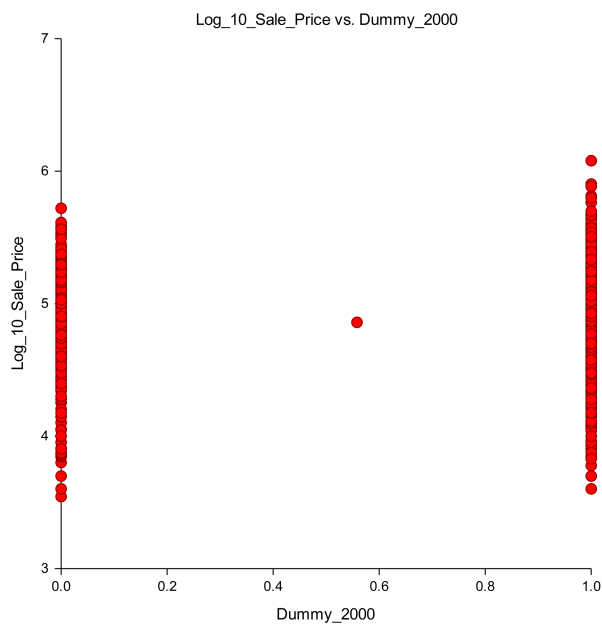
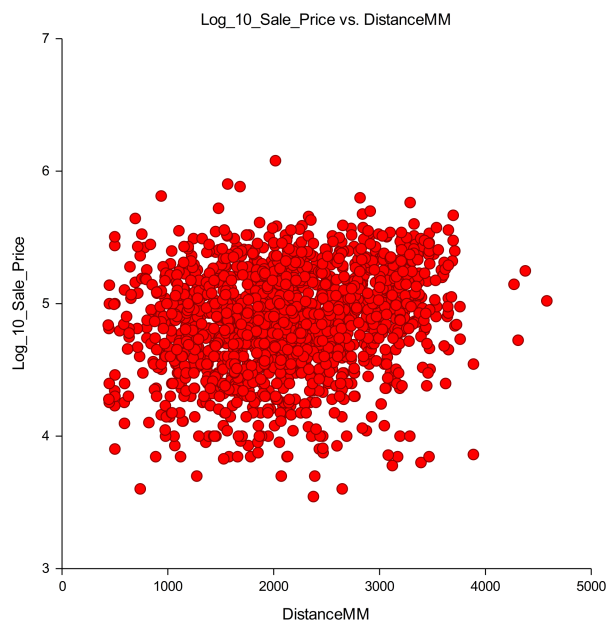
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log\_10\_Sale\_Price

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### Y vs X Plots



## Robust Multiple Regression Report

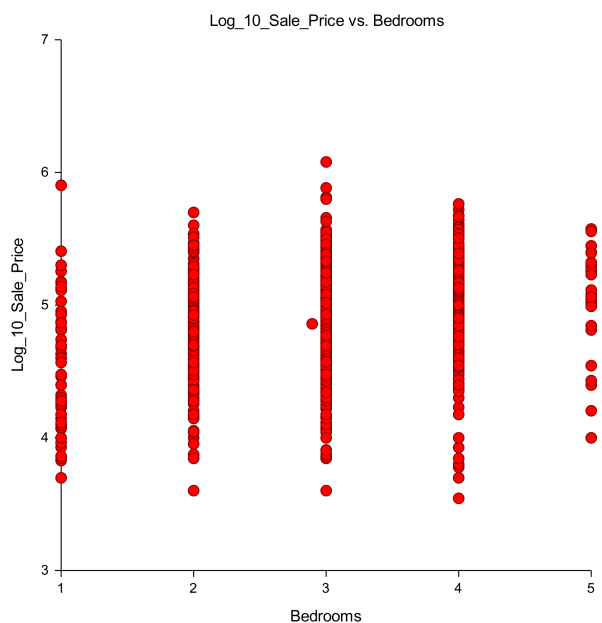
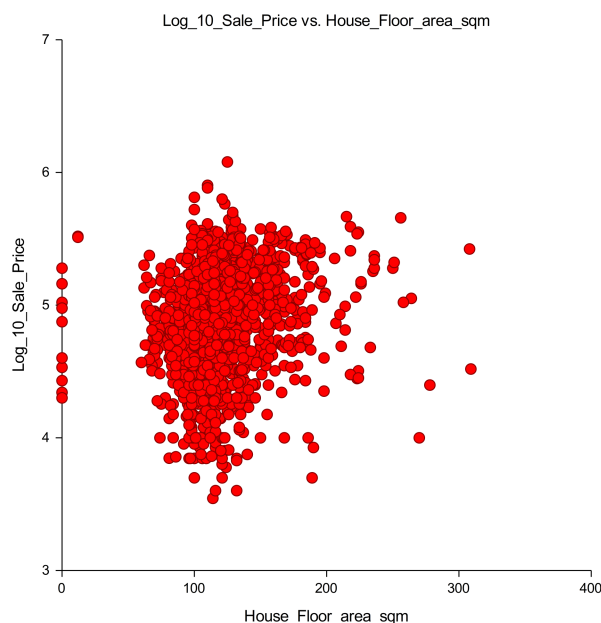
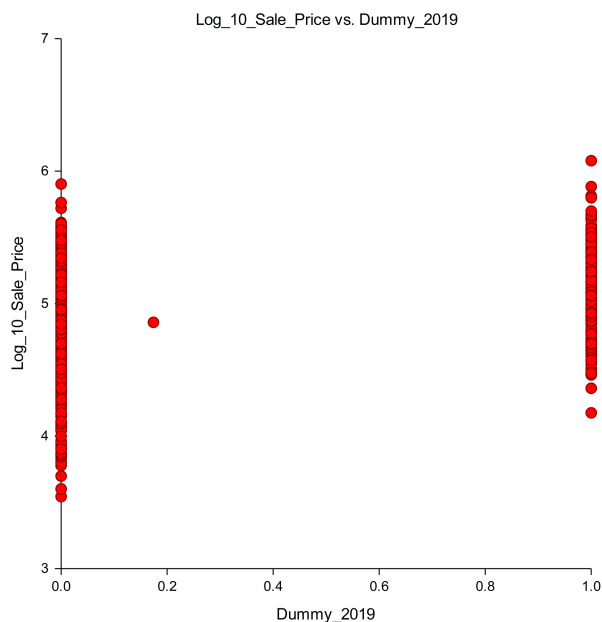
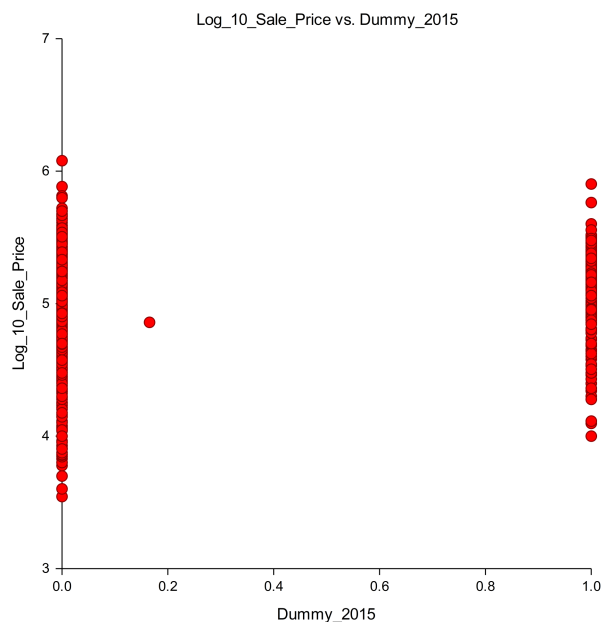
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log\_10\_Sale\_Price

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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

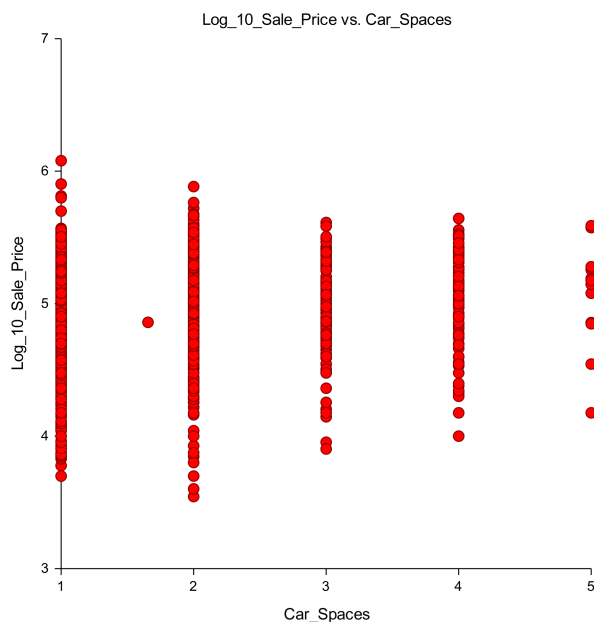
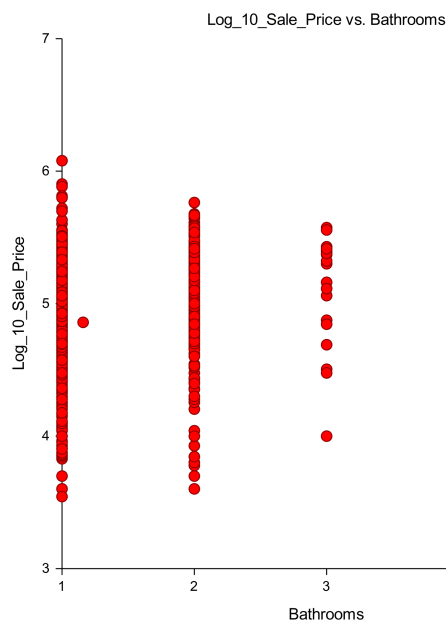
Dependent Log\_10\_Sale\_Price

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.

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### Y vs X Plots (Continued)

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## Robust Multiple Regression Report

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

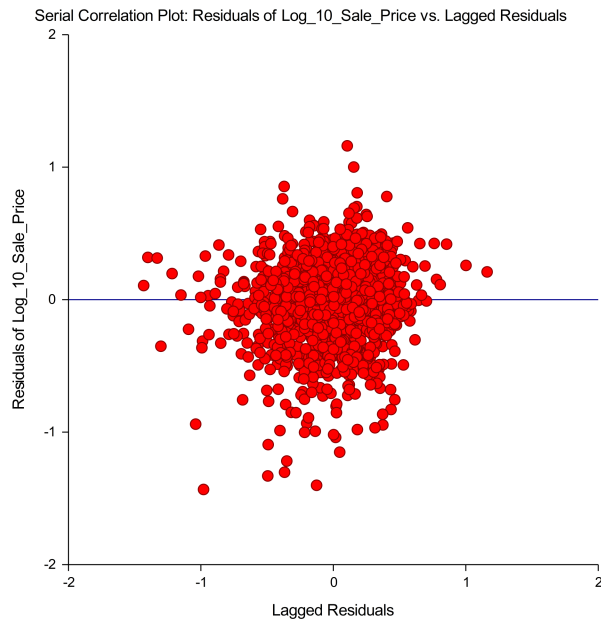
Dependent Log\_10\_Sale\_Price

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.

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### Serial Correlation Plot: Residuals vs Lagged Residuals

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## Robust Multiple Regression Report

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

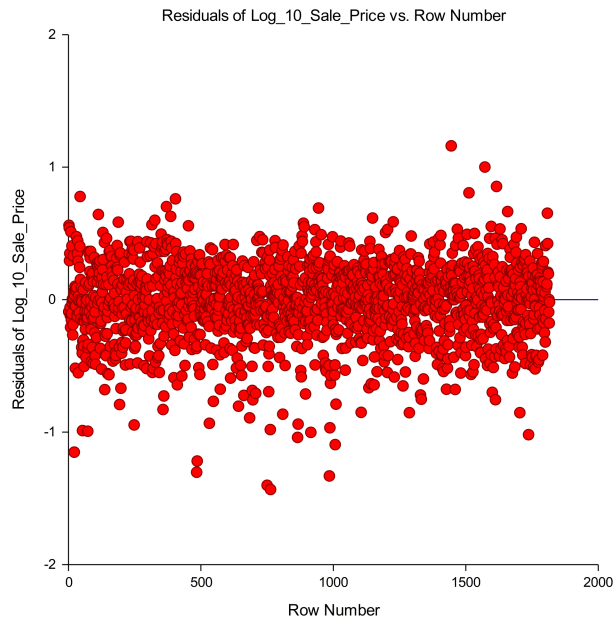
Dependent Log\_10\_Sale\_Price

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

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## Robust Multiple Regression Report

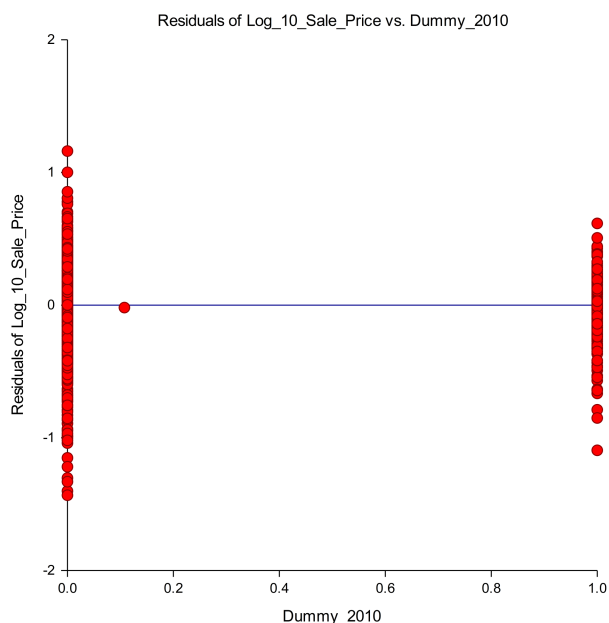
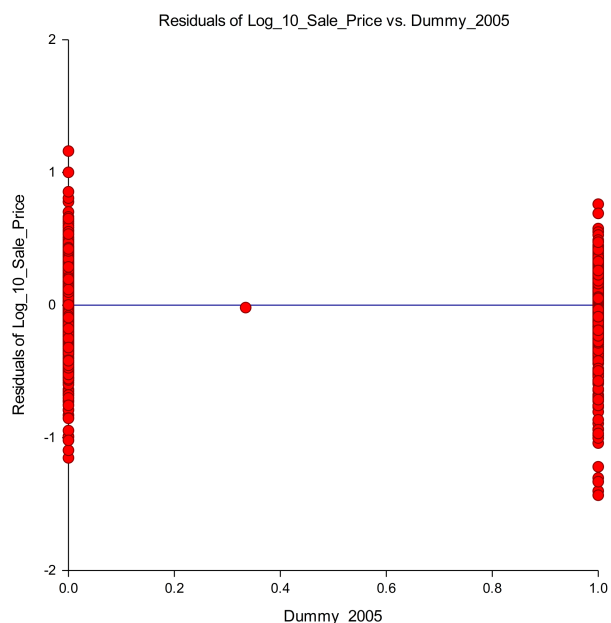
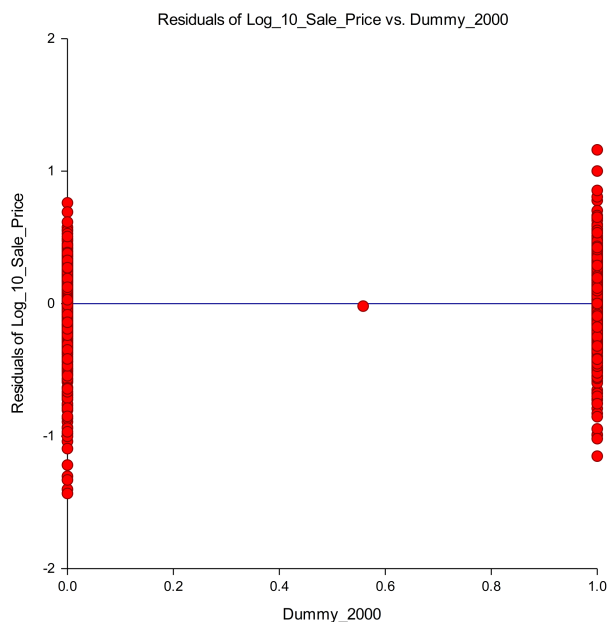
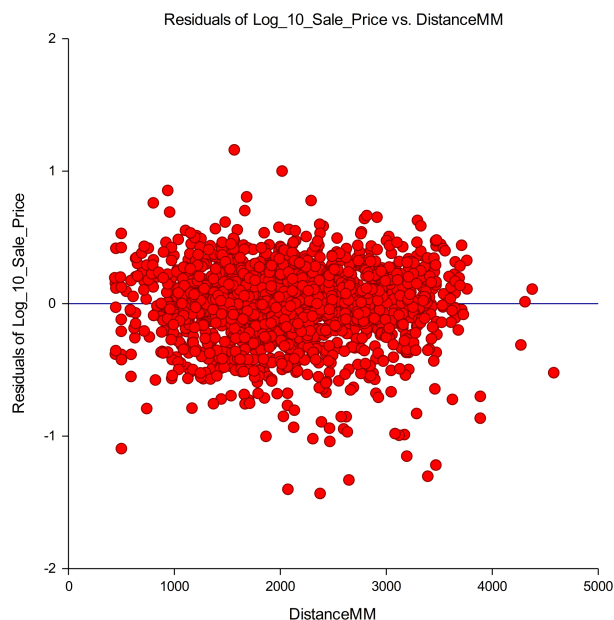
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log\_10\_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.

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### Residuals vs X Plots



## Robust Multiple Regression Report

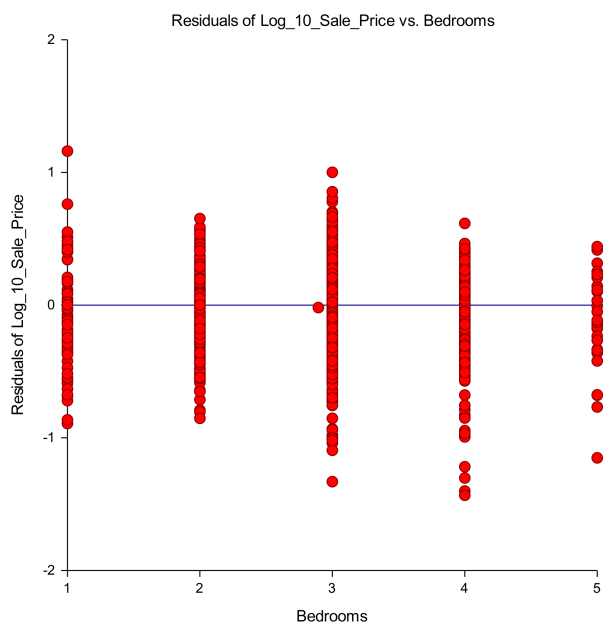
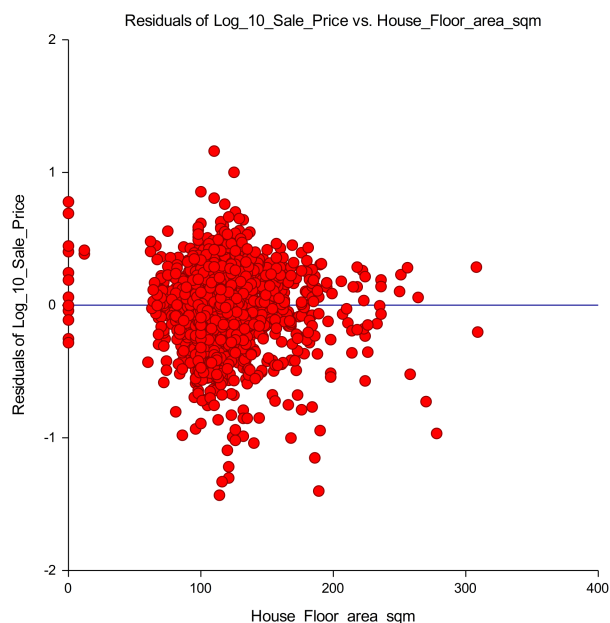
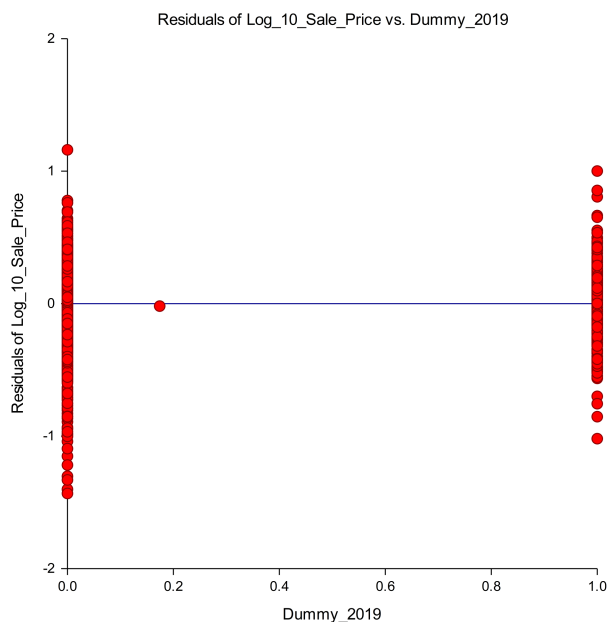
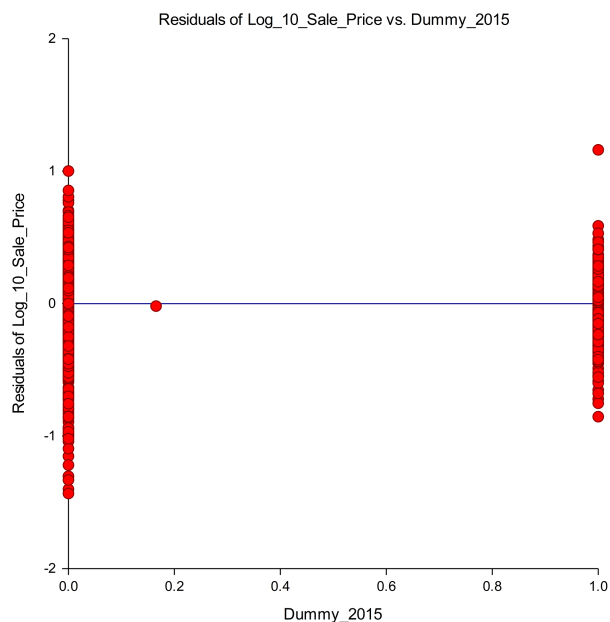
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log\_10\_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

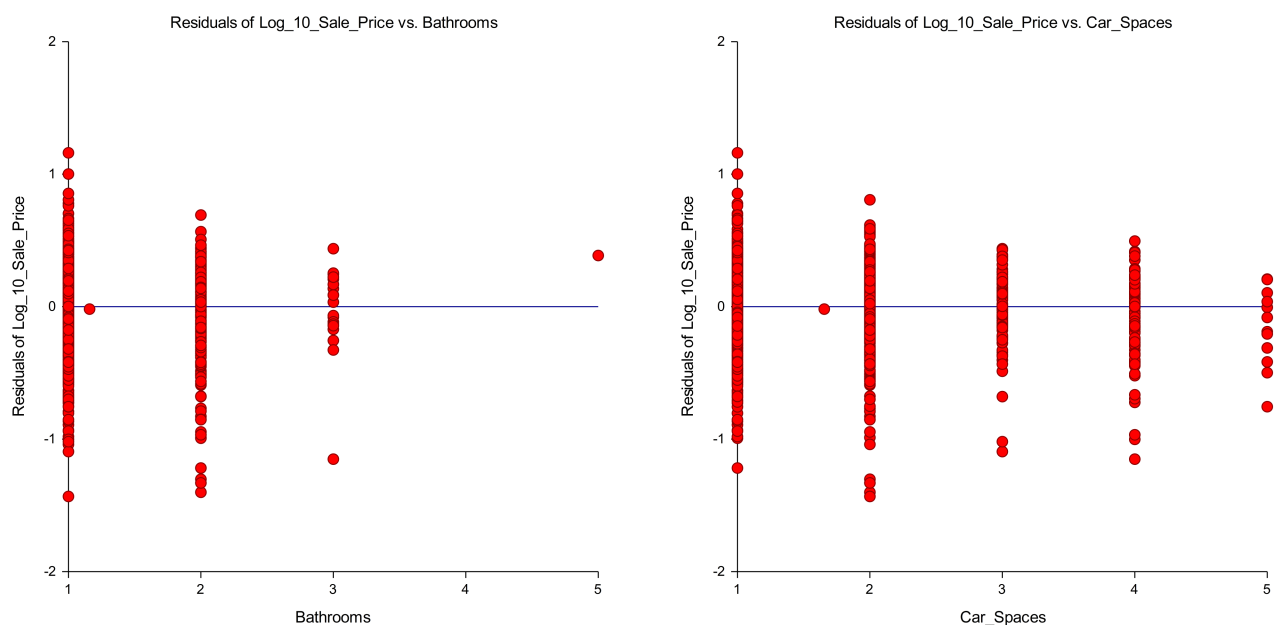
Dataset C:\Users\Dr\_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log\_10\_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.

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### Residuals vs X Plots (Continued)



### Procedure Input Settings

#### Autosaved Template File

C:\Users\Dr\_Ia\Documents\NCSS 2022\Procedure Templates\Autosave\Robust Regression - Autosaved  
2023\_4\_11-17\_3\_52.t158

#### Variables, Model Tab

-- Variables -----	
Y:	Log_10_Sale_Price
Numeric X's:	DistanceMM, Dummy_2000, Dummy_2005, Dummy_2010, Dummy_2015, Dummy_2019, House_Floor_area_sqm, Bedrooms, Bathrooms, Car_Spaces
Categorical X's:	<Empty>
Weights:	<Empty>
-- Regression Model -----	
Terms:	1-Way
Remove Intercept	Unchecked



**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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**Procedure Input Settings (Continued)****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  
 -- 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

**Robust Multiple Regression Report**

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

Dependent Log\_10\_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.

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

.. 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
.. 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

**Robust Multiple Regression Report**

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

Dependent Log\_10\_Sale\_Price

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

-- Select Plots -----	
.. Distribution of Residuals .....	
Histogram	Checked
Probability Plot	Checked
.. Y vs X .....	
Y vs X	Checked
.. 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 Log\_10\_Sale\_Price

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### Procedure Input Settings (Continued)

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#### 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

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