Results

Linear Regression

Model Fit Measures

			Overall Model Test			
Model	**R**	**R^2**	**F**	**df1**	**df2**	**p**
1	0.10176	0.01035	4.14328	3	1188	0.00622

Model Coefficients - log_VOL

Predictor	**Estimate**	**SE**	**t**	**p**
Intercept	-1.52500	0.03887	-39.23094	< .00001
EPS	-0.00171	0.00059	-2.89200	0.00390
SPS	0.00024	0.00070	0.34137	0.73289
GPS	0.00026	0.00054	0.48006	0.63127

Assumption Checks

Durbin–Watson Test for Autocorrelation

Autocorrelation	**DW Statistic**	**p**
0.01620	1.96759	0.54600

[3]

Collinearity Statistics

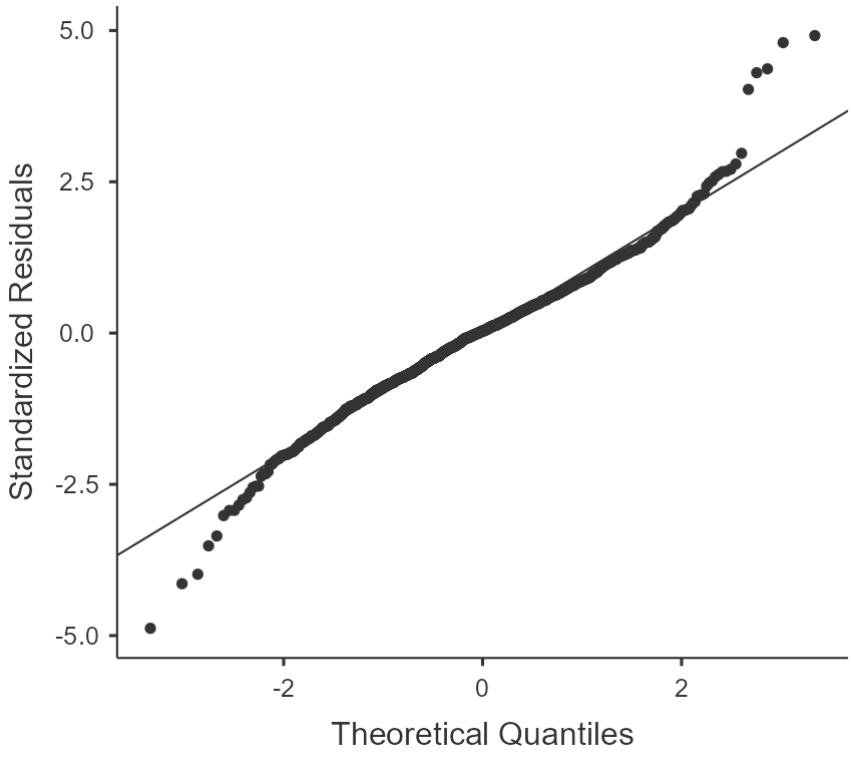
	VIF	**Tolerance**
EPS	1.89361	0.52809
SPS	1.94627	0.51380
GPS	1.21201	0.82507

[3]

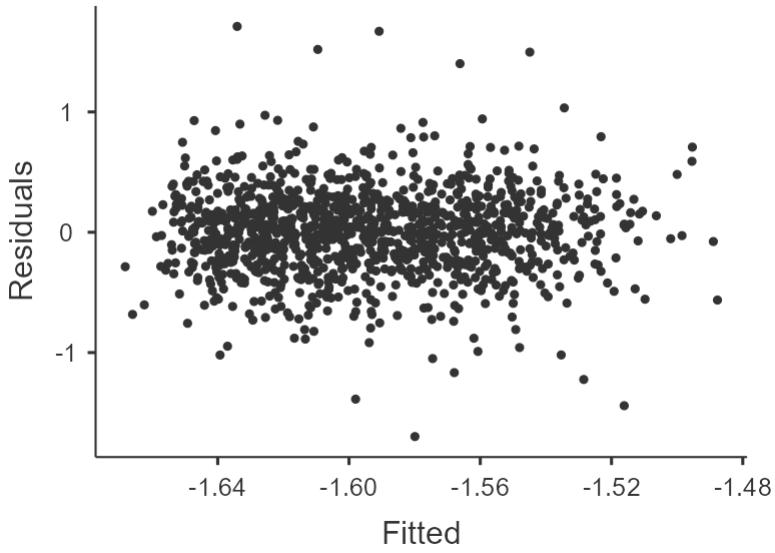
Normality Test (Shapiro-Wilk)

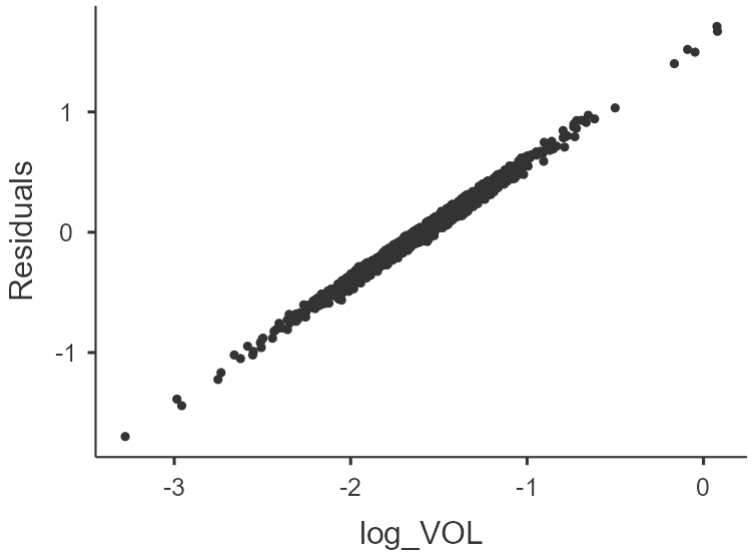
Statistic	**p**
0.97754	< .00001

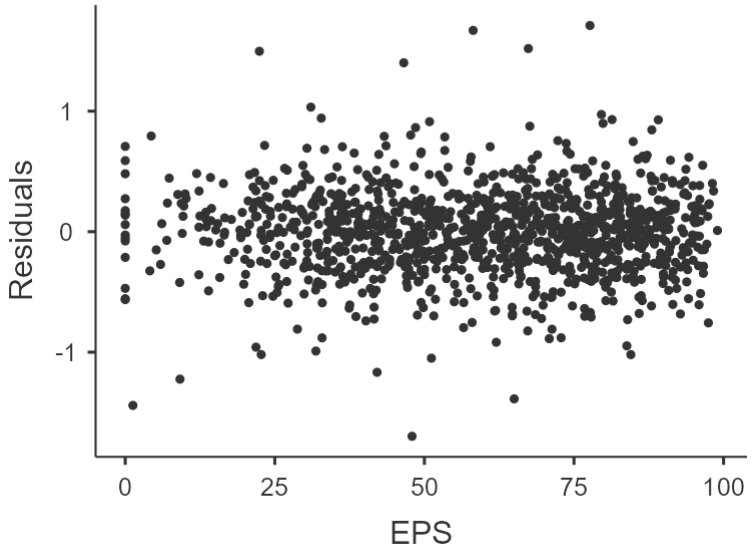
Q-Q Plot

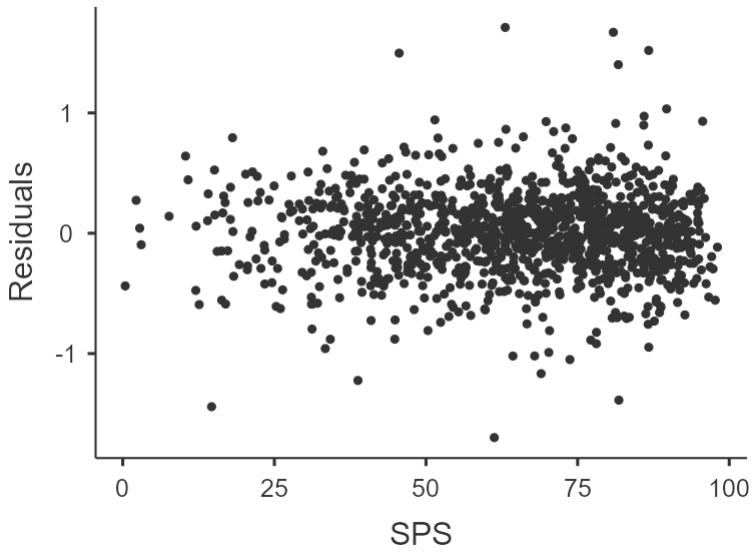


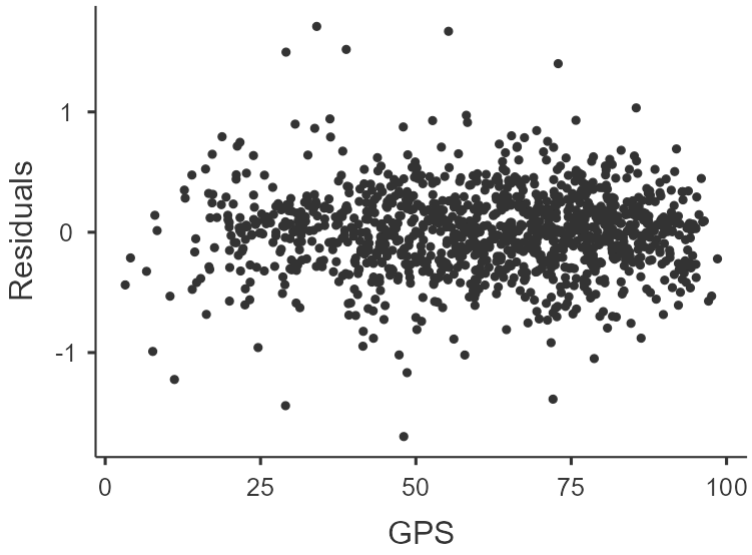
Residuals Plots




Residuals
1
0
-1
-3
-2
-1
0
log_VOL


Residuals
1
0
-1
0
25
50
75
100
EPS


Residuals
1
0
-1
0
25
50
75
100
SPS



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[1] The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from MRAN snapshot 2022-01-01).

[3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from https://cran.r-project.org/package=car.