Results

Linear Regression

Model Fit Measures

			Overall Model Test			
Model	**R**	**R^2**	**F**	**df1**	**df2**	**p**
1	0.19244	0.03704	15.22992	3	1188	< .00001

Model Coefficients - log_VOL

Predictor	**Estimate**	**SE**	**t**	**p**
Intercept	-1.52701	0.04097	-37.27442	< .00001
EPS	-0.00224	0.00062	-3.61144	0.00032
SPS	-0.00149	0.00074	-2.03292	0.04228
GPS	0.00062	0.00057	1.10337	0.27009

Assumption Checks

Durbin–Watson Test for Autocorrelation

Autocorrelation	**DW Statistic**	**p**
0.04741	1.90488	0.10800

[3]

Collinearity Statistics

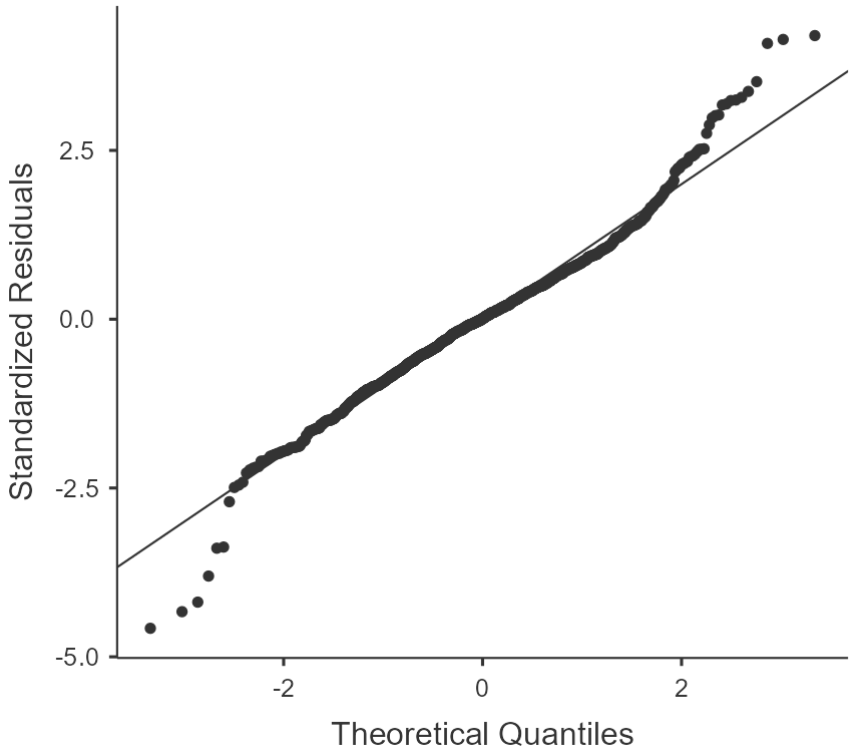
	VIF	**Tolerance**
EPS	1.87810	0.53245
SPS	1.92039	0.52073
GPS	1.20580	0.82932

[3]

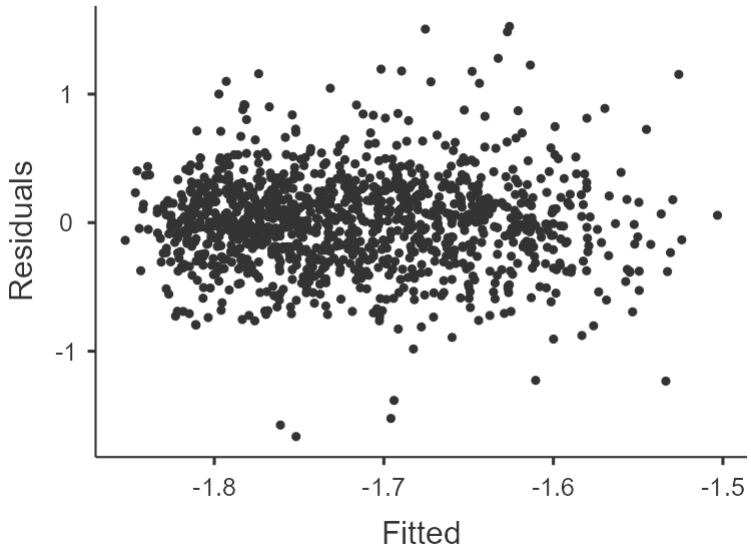
Normality Test (Shapiro-Wilk)

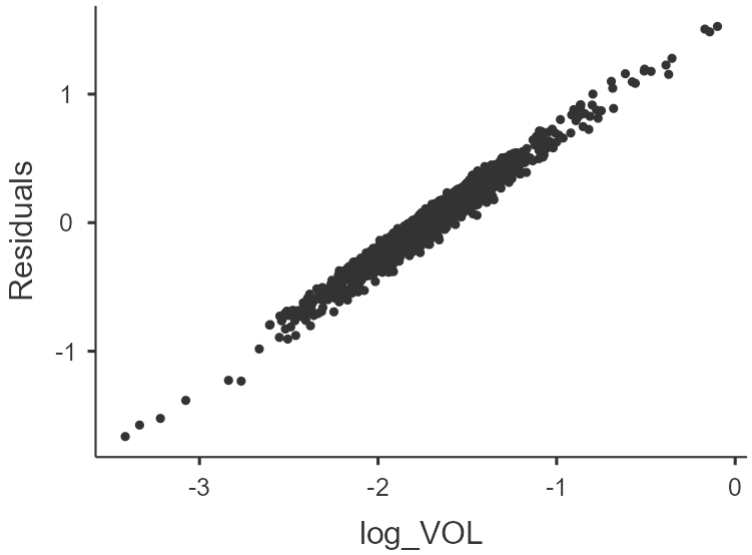
Statistic	**p**
0.97826	< .00001

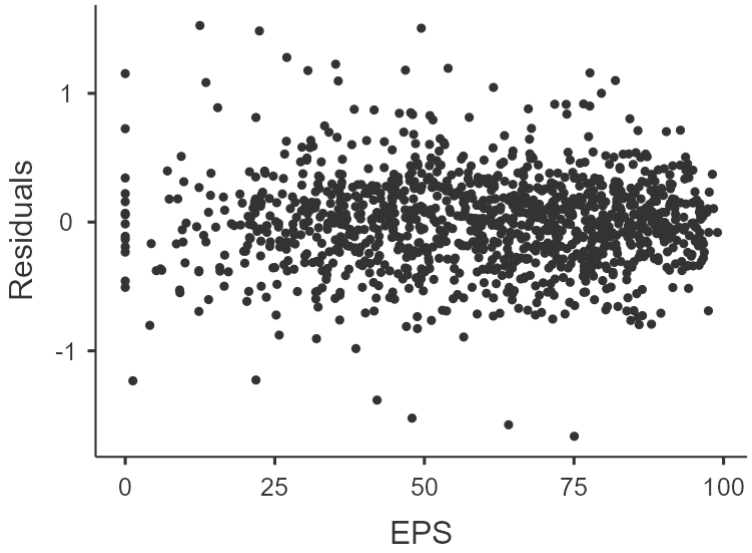
Q-Q Plot

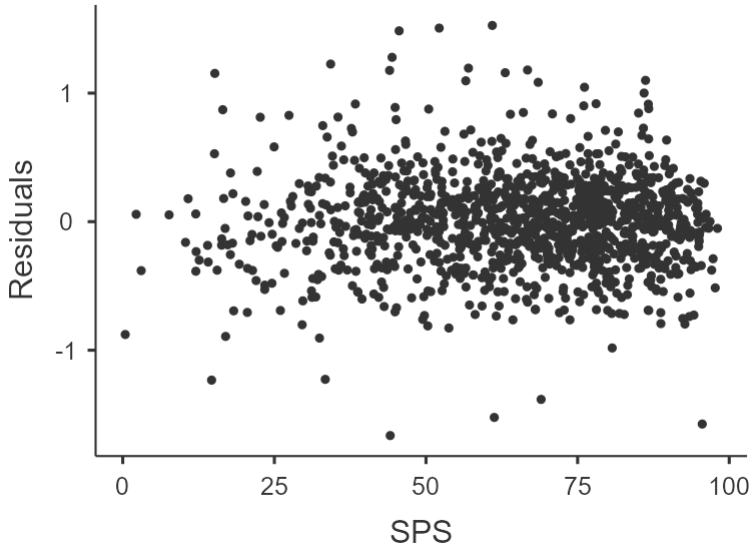


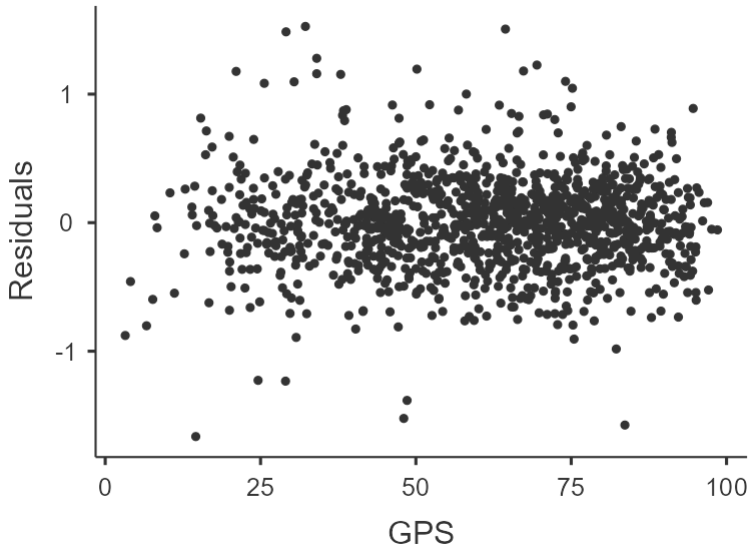
Residuals Plots




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



References

[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.