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| --- |
| MANGANESE\_LOOCV  Linear Regression with Stepwise Selection  19 samples  5 predictor  No pre-processing  Resampling: Bootstrapped (25 reps)  Summary of sample sizes: 19, 19, 19, 19, 19, 19, ...  Resampling results:  RMSE Rsquared MAE  241.6478 0.2382805 189.9519 |
|  |
| |  | | --- | | > | |

MANGANESE\_LOOCV$finalModel

Call:

lm(formula = .outcome ~ RONR\_Mean, data = dat)

Coefficients:

(Intercept) RONR\_Mean

694.9 -1819.2

> MANGANESE\_LOOCV$results

parameter RMSE Rsquared MAE RMSESD RsquaredSD MAESD

1 none 241.6478 0.2382805 189.9519 80.28077 0.2704113 68.03161

summary(MANGANESE\_LOOCV)

Call:

lm(formula = .outcome ~ RONR\_Mean, data = dat)

Residuals:

Min 1Q Median 3Q Max

-441.44 -60.54 2.85 106.63 192.52

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 694.9 102.6 6.770 3.27e-06 \*\*\*

RONR\_Mean -1819.2 616.0 -2.953 0.0089 \*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 158.7 on 17 degrees of freedom

Multiple R-squared: 0.3391, Adjusted R-squared: 0.3002

F-statistic: 8.722 on 1 and 17 DF, p-value: 0.008898

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| --- |
| varImp(MANGANESE\_LOOCV$finalModel)  Overall  RONR\_Mean 2.953228  > MANGANESE\_LOOCV$finalModel$anova  Stepwise Model Path  Analysis of Deviance Table  Initial Model:  .outcome ~ SAGA\_MassBalanceIndex + SAGA\_ProfileCurvature + SAGA\_Valley\_Depth +  CLNR\_Mean + RONR\_Mean  Final Model:  .outcome ~ RONR\_Mean  Step Df Deviance Resid. Df Resid. Dev AIC  1 13 415123.5 201.8460  2 - SAGA\_ProfileCurvature 1 3166.029 14 418289.5 199.9903  3 - SAGA\_Valley\_Depth 1 3637.950 15 421927.4 198.1548  4 - CLNR\_Mean 1 2097.239 16 424024.7 196.2491  5 - SAGA\_MassBalanceIndex 1 3980.543 17 428005.2 194.4266 |
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