COPPER\_LOOCV

Linear Regression with Stepwise Selection

19 samples

8 predictor

No pre-processing

Resampling: Bootstrapped (25 reps)

Summary of sample sizes: 19, 19, 19, 19, 19, 19, ...

Resampling results:

RMSE Rsquared MAE

24.76591 0.2032747 19.25613

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| COPPER\_LOOCV$results  parameter RMSE Rsquared MAE RMSESD RsquaredSD MAESD  1 none 24.76591 0.2032747 19.25613 28.1567 0.2209194 20.47213 |
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| COPPER\_LOOCV$finalModel  Call:  lm(formula = .outcome ~ STANDART\_Topographic\_Wetness\_Index +  RONR\_Mean, data = dat)  Coefficients:  (Intercept) STANDART\_Topographic\_Wetness\_Index  39.2237 -0.9755  RONR\_Mean  -43.9565 |
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summary(COPPER\_LOOCV)

Call:

lm(formula = .outcome ~ STANDART\_Topographic\_Wetness\_Index +

RONR\_Mean, data = dat)

Residuals:

Min 1Q Median 3Q Max

-8.9343 -6.1494 -0.2387 4.9682 9.2765

Coefficients:

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

(Intercept) 39.2237 5.2886 7.417 1.46e-06 \*\*\*

STANDART\_Topographic\_Wetness\_Index -0.9755 0.4229 -2.307 0.0348 \*

RONR\_Mean -43.9565 27.6512 -1.590 0.1315

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

Residual standard error: 6.627 on 16 degrees of freedom

Multiple R-squared: 0.432, Adjusted R-squared: 0.361

F-statistic: 6.085 on 2 and 16 DF, p-value: 0.01083

varImp(COPPER\_LOOCV$finalModel)

Overall

STANDART\_Topographic\_Wetness\_Index 2.306754

RONR\_Mean 1.589681

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| COPPER\_LOOCV$finalModel$anova  Stepwise Model Path  Analysis of Deviance Table  Initial Model:  .outcome ~ SAGA\_LSFactor + SAGA\_StreamPowerIndex + STANDART\_Topographic\_Wetness\_Index +  SAGA\_ProfileCurvature + SAGA\_Valley\_Depth + NDVI\_Mean + RONR\_Mean +  CNR\_Mean  Final Model:  .outcome ~ STANDART\_Topographic\_Wetness\_Index + RONR\_Mean  Step Df Deviance Resid. Df Resid. Dev AIC  1 10 528.5304 81.18757  2 - SAGA\_StreamPowerIndex 1 4.480448 11 533.0108 79.34795  3 - SAGA\_ProfileCurvature 1 13.211913 12 546.2228 77.81317  4 - NDVI\_Mean 1 23.338472 13 569.5612 76.60812  5 - SAGA\_Valley\_Depth 1 39.286656 14 608.8479 75.87546  6 - CNR\_Mean 1 36.657544 15 645.5054 74.98630  7 - SAGA\_LSFactor 1 57.153564 16 702.6590 74.59822 |
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