CHROMIUM\_LOOCV

Linear Regression with Stepwise Selection

19 samples

12 predictors

No pre-processing

Resampling: Bootstrapped (25 reps)

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

Resampling results:

RMSE Rsquared MAE

103.4982 0.1672488 86.53634

CHROMIUM\_LOOCV$results

parameter RMSE Rsquared MAE RMSESD RsquaredSD MAESD

1 none 103.4982 0.1672488 86.53634 154.3933 0.1649681 135.6992

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| CHROMIUM\_LOOCV$finalModel  Call:  lm(formula = .outcome ~ SAGA\_ProfileCurvature + SAGA\_ConvergenceIndex +  SAGA\_Topographic\_Position\_Index + SAGA\_Topographic\_Wetness\_Index +  RONR\_Mean + NDMI\_Mean + INR\_Mean, data = dat)  Coefficients:  (Intercept) SAGA\_ProfileCurvature SAGA\_ConvergenceIndex SAGA\_Topographic\_Position\_Index  187.7990 -8615.9382 -0.2907 8.8544  SAGA\_Topographic\_Wetness\_Index RONR\_Mean NDMI\_Mean INR\_Mean  -11.1112 -205.0074 -238.9423 462.0648 |
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varImp(CHROMIUM\_LOOCV$finalModel)

Overall

SAGA\_ProfileCurvature 2.357966

SAGA\_ConvergenceIndex 2.560391

SAGA\_Topographic\_Position\_Index 2.700603

SAGA\_Topographic\_Wetness\_Index 2.610026

RONR\_Mean 2.506279

NDMI\_Mean 1.410202

INR\_Mean 2.004517

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| HROMIUM\_LOOCV$finalModel$anova  Stepwise Model Path  Analysis of Deviance Table  Initial Model:  .outcome ~ SAGA\_ProfileCurvature + SAGA\_ConvergenceIndex + SAGA\_FlowAccumulation +  SAGA\_MassBalanceIndex + SAGA\_Slope\_Percent + SAGA\_Topographic\_Position\_Index +  SAGA\_Topographic\_Wetness\_Index + STANDART\_Topographic\_Wetness\_Index +  RONR\_Mean + NDMI\_Mean + FNR\_Mean + INR\_Mean  Final Model:  .outcome ~ SAGA\_ProfileCurvature + SAGA\_ConvergenceIndex + SAGA\_Topographic\_Position\_Index +  SAGA\_Topographic\_Wetness\_Index + RONR\_Mean + NDMI\_Mean +  INR\_Mean  Step Df Deviance Resid. Df Resid. Dev AIC  1 7 1107.431 101.24183  2 - FNR\_Mean 0 0.000000 7 1107.431 101.24183  3 - STANDART\_Topographic\_Wetness\_Index 1 8.494833 8 1115.926 99.38702  4 - SAGA\_Slope\_Percent 1 7.557015 9 1123.483 97.51525  5 - SAGA\_FlowAccumulation 1 15.396154 10 1138.879 95.77386  6 - SAGA\_MassBalanceIndex 1 23.482673 11 1162.362 94.16164 |
|  |
| |  | | --- | | > | |

summary(CHROMIUM\_LOOCV)

Call:

lm(formula = .outcome ~ SAGA\_ProfileCurvature + SAGA\_ConvergenceIndex +

SAGA\_Topographic\_Position\_Index + SAGA\_Topographic\_Wetness\_Index +

RONR\_Mean + NDMI\_Mean + INR\_Mean, data = dat)

Residuals:

Min 1Q Median 3Q Max

-12.5098 -5.5296 -0.8139 6.3305 16.4465

Coefficients:

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

(Intercept) 187.7990 48.6536 3.860 0.00265 \*\*

SAGA\_ProfileCurvature -8615.9382 3653.9711 -2.358 0.03795 \*

SAGA\_ConvergenceIndex -0.2907 0.1135 -2.560 0.02650 \*

SAGA\_Topographic\_Position\_Index 8.8544 3.2787 2.701 0.02063 \*

SAGA\_Topographic\_Wetness\_Index -11.1112 4.2571 -2.610 0.02426 \*

RONR\_Mean -205.0074 81.7975 -2.506 0.02918 \*

NDMI\_Mean -238.9423 169.4383 -1.410 0.18613

INR\_Mean 462.0648 230.5117 2.005 0.07026 .

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

Residual standard error: 10.28 on 11 degrees of freedom

Multiple R-squared: 0.6737, Adjusted R-squared: 0.466

F-statistic: 3.244 on 7 and 11 DF, p-value: 0.03998