Zn-Zinc

##Repeated\_CV

Recursive feature selection

Outer resampling method: Cross-Validated (5 fold, repeated 3 times)

Resampling performance over subset size:

Variables RMSE Rsquared MAE RMSESD RsquaredSD MAESD Selected

1 2.445 0.6275 1.814 2.244 0.4178 1.5215

2 2.442 0.6189 1.910 1.274 0.3910 1.0622 \*

3 2.622 0.6282 1.979 1.266 0.3686 1.0059

4 2.596 0.6835 2.070 1.257 0.3513 1.1203

5 2.667 0.6915 2.152 1.121 0.3560 1.0249

6 2.686 0.6881 2.120 1.204 0.3486 1.0499

7 2.805 0.7049 2.203 1.157 0.3530 1.0343

8 2.977 0.7059 2.344 1.240 0.3328 1.1361

9 2.955 0.6907 2.301 1.223 0.3389 1.0779

10 2.927 0.7082 2.309 1.151 0.3442 1.0712

11 2.926 0.7105 2.277 1.157 0.3447 1.0505

12 2.967 0.6968 2.311 1.131 0.3516 1.0198

13 2.962 0.6992 2.317 1.144 0.3525 1.0225

14 3.088 0.7012 2.426 1.163 0.3483 1.0400

15 3.063 0.6905 2.373 1.140 0.3594 1.0108

16 2.969 0.7015 2.323 1.149 0.3508 1.0176

17 3.025 0.7065 2.332 1.130 0.3434 0.9751

18 3.080 0.6812 2.385 1.140 0.3587 1.0136

19 3.156 0.6987 2.449 1.261 0.3459 1.1212

20 3.184 0.7015 2.468 1.169 0.3452 1.0420

21 3.057 0.6957 2.363 1.186 0.3602 1.0660

22 3.111 0.7005 2.439 1.230 0.3468 1.1133

23 3.104 0.7087 2.422 1.206 0.3449 1.0624

24 3.127 0.7022 2.443 1.204 0.3364 1.0656

25 3.086 0.7007 2.413 1.189 0.3518 1.0405

26 3.193 0.7102 2.496 1.137 0.3488 1.0035

27 3.181 0.6942 2.458 1.178 0.3418 1.0355

28 3.134 0.7007 2.438 1.200 0.3506 1.0333

29 3.129 0.7102 2.421 1.199 0.3400 1.0421

30 3.116 0.7071 2.434 1.119 0.3309 0.9792

31 3.186 0.6878 2.480 1.168 0.3569 1.0371

32 3.142 0.7003 2.443 1.122 0.3504 1.0055

33 3.115 0.6990 2.432 1.149 0.3514 1.0354

34 3.170 0.7033 2.475 1.160 0.3475 1.0049

35 3.134 0.7021 2.460 1.232 0.3443 1.0815

36 3.144 0.7073 2.466 1.173 0.3398 1.0318

37 3.190 0.7088 2.491 1.176 0.3422 1.0323

38 3.157 0.7242 2.452 1.171 0.3427 1.0326

39 3.149 0.7034 2.451 1.146 0.3458 1.0136

40 3.201 0.6936 2.504 1.181 0.3455 1.0491

41 3.186 0.7096 2.474 1.143 0.3366 1.0106

The top 2 variables (out of 2):

Clay\_khavr, Sand\_khavr

> predictors(result\_rfe1)

[1] "Clay\_khavr" "Sand\_khavr"

> predictors(result\_rfe1)

[1] "Clay\_khavr" "Sand\_khavr"

Zn-Zinc

##LOOCV

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| --- |
| Recursive feature selection  Outer resampling method: Leave-One-Out Cross-Validation  Resampling performance over subset size:  Variables RMSE Rsquared MAE Selected  1 2.240 0.8038 1.339 \*  2 2.425 0.7644 1.708  3 2.608 0.7404 1.900  4 3.049 0.6603 2.218  5 3.139 0.6398 2.240  6 2.769 0.7234 2.050  7 2.771 0.7278 1.994  8 2.833 0.7054 2.059  9 2.925 0.6823 2.169  10 2.902 0.6897 2.138  11 3.104 0.6390 2.298  12 2.883 0.7087 2.136  13 3.009 0.6714 2.227  14 3.031 0.6590 2.242  15 2.897 0.7051 2.113  16 2.960 0.6875 2.159  17 3.064 0.6671 2.202  18 2.906 0.7082 2.106  19 3.064 0.6626 2.202  20 3.007 0.6797 2.151  21 3.000 0.6868 2.165  22 3.080 0.6698 2.251  23 3.190 0.6339 2.289  24 3.146 0.6357 2.240  25 3.115 0.6455 2.188  26 3.203 0.6155 2.303  27 2.932 0.7111 2.144  28 3.035 0.6851 2.200  29 3.054 0.6793 2.224  30 3.077 0.6796 2.224  31 3.011 0.7001 2.179  32 3.178 0.6559 2.318  33 3.048 0.6929 2.224  34 3.202 0.6421 2.314  35 3.210 0.6428 2.309  36 3.188 0.6514 2.309  37 3.116 0.6853 2.242  38 3.146 0.6588 2.264  39 3.159 0.6506 2.315  40 3.182 0.6447 2.290  41 3.133 0.6799 2.308  The top 1 variables (out of 1):  Clay\_khavr  > predictors(result\_rfe1)  [1] "Clay\_khavr" |
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Zn-Zinc

## LGOCV

Recursive feature selection

Outer resampling method: Repeated Train/Test Splits Estimated (25 reps, 75%)

Resampling performance over subset size:

Variables RMSE Rsquared MAE RMSESD RsquaredSD MAESD Selected

1 2.509 0.7938 1.837 2.1793 0.3493 1.5276 \*

2 2.854 0.7477 2.197 1.6845 0.3155 1.4160

3 2.843 0.7053 2.172 1.2882 0.3139 1.0606

4 2.870 0.7438 2.281 1.1802 0.2906 1.0436

5 2.871 0.7692 2.264 1.0555 0.2592 0.9245

6 2.792 0.7546 2.214 1.1041 0.2821 0.9318

7 2.768 0.7636 2.198 1.0821 0.2896 0.9407

8 2.813 0.7706 2.224 1.0364 0.2843 0.8964

9 2.799 0.7543 2.209 1.0834 0.2902 0.9031

10 2.805 0.7633 2.194 1.0247 0.2763 0.8821

11 2.829 0.7666 2.235 1.0310 0.2892 0.8803

12 2.818 0.7597 2.206 1.0476 0.3020 0.9118

13 2.847 0.7649 2.229 1.0026 0.2784 0.8463

14 2.847 0.7640 2.227 0.9979 0.2925 0.8581

15 2.780 0.7672 2.181 0.9957 0.2815 0.8491

16 2.881 0.7640 2.224 0.9865 0.2896 0.8536

17 2.904 0.7624 2.257 1.0120 0.2968 0.8925

18 2.906 0.7678 2.250 0.9810 0.2780 0.8459

19 2.923 0.7599 2.248 1.0088 0.2933 0.8645

20 2.863 0.7783 2.199 0.9927 0.2759 0.8482

21 2.911 0.7743 2.239 0.9715 0.2845 0.8416

22 2.963 0.7591 2.277 1.0338 0.3037 0.8833

23 2.999 0.7575 2.316 0.9907 0.2998 0.8496

24 2.947 0.7712 2.258 0.9810 0.2889 0.8274

25 2.986 0.7684 2.284 0.9825 0.2838 0.8457

26 3.014 0.7624 2.306 0.9445 0.2920 0.8216

27 2.996 0.7667 2.295 0.9529 0.2901 0.8262

28 3.028 0.7609 2.314 0.9812 0.2898 0.8209

29 3.038 0.7603 2.337 0.9425 0.2906 0.8150

30 3.029 0.7695 2.317 0.9386 0.2808 0.7965

31 2.988 0.7683 2.295 0.9677 0.2872 0.8295

32 3.023 0.7636 2.323 1.0092 0.2962 0.8705

33 3.045 0.7543 2.328 1.0120 0.3079 0.8764

34 3.009 0.7723 2.305 0.9752 0.2888 0.8214

35 3.056 0.7707 2.343 0.9637 0.2901 0.8284

36 3.033 0.7660 2.320 0.9912 0.2910 0.8459

37 3.027 0.7657 2.324 0.9535 0.2876 0.8025

38 3.077 0.7579 2.354 1.0042 0.3043 0.8566

39 3.081 0.7563 2.348 0.9785 0.3049 0.8339

40 3.056 0.7660 2.328 0.9670 0.2900 0.8296

41 3.144 0.7595 2.395 0.9962 0.3087 0.8425

The top 1 variables (out of 1):

Clay\_khavr

> predictors(result\_rfe1)

[1] "Clay\_khavr"