

# R Notebook

```
# model with just the coefficient of variation - coeffVarEVI = sd(residual) / mean(mean)
lm1 <- lm(coeffVarEVI ~ (speciesRichness + FDis + FDiv + FEve)^2 + (
  tempAnnual + # temperature
  precipitation + aridity + # precipitation
  soilpH + soilSOC + soilClay + # soil
  topoElevation + topoSlope + bedrockDepth + # topography
  cloudCover + windSpeed + soilMoisture + # environ stress
  forestRegrowth + forestAge + burntAreas + rootMass + # disturbance
  humanFootprint + forestIntegrity + # human influence
  intactLandscapes + growingSeason)
  + biome + managed,
  data = dataMaster)

summary(lm1)
```

```
##
## Call:
## lm(formula = coeffVarEVI ~ (speciesRichness + FDis + FDiv + FEve)^2 +
##      (tempAnnual + precipitation + aridity + soilpH + soilSOC +
##        soilClay + topoElevation + topoSlope + bedrockDepth +
##        cloudCover + windSpeed + soilMoisture + forestRegrowth +
##        forestAge + burntAreas + rootMass + humanFootprint +
##        forestIntegrity + intactLandscapes + growingSeason) +
##      biome + managed, data = dataMaster)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.6187 -0.0171 -0.0050  0.0097  4.4961
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.145e-01  1.952e-02   5.867 4.47e-09
## speciesRichness  1.075e-03  9.082e-04   1.183 0.236766
## FDis          -4.043e-03  3.490e-03  -1.158 0.246719
## FDiv           2.732e-03  7.108e-03   0.384 0.700751
## FEve           3.251e-03  8.639e-03   0.376 0.706703
## tempAnnual     1.098e-04  1.284e-05   8.550 < 2e-16
## precipitation   6.998e-06  1.227e-06   5.703 1.19e-08
## aridity        -3.971e-07  1.123e-07  -3.536 0.000406
## soilpH         -3.608e-04  6.786e-05  -5.317 1.06e-07
## soilSOC         2.289e-04  1.523e-05  15.033 < 2e-16
## soilClay        2.098e-04  5.033e-05   4.168 3.08e-05
## topoElevation   8.203e-06  8.095e-07  10.134 < 2e-16
## topoSlope       5.073e-04  6.828e-05   7.429 1.11e-13
## bedrockDepth   -6.903e-05  2.571e-05  -2.685 0.007262
## cloudCover     -2.008e-06  8.274e-07  -2.427 0.015238
## windSpeed       2.729e-03  4.603e-04   5.929 3.07e-09
```

## soilMoisture	-3.138e-05	2.938e-05	-1.068	0.285497
## forestRegrowth	6.214e-03	1.627e-02	0.382	0.702561
## forestAge	4.968e-06	2.899e-05	0.171	0.863932
## burntAreas	2.746e-02	1.896e-03	14.478	< 2e-16
## rootMass	9.723e-05	4.397e-05	2.212	0.027001
## humanFootprint	-1.036e-04	3.658e-05	-2.833	0.004609
## forestIntegrity	-3.933e-03	1.012e-04	-38.860	< 2e-16
## intactLandscapes	9.724e-05	1.064e-05	9.137	< 2e-16
## growingSeason	-6.699e-05	6.744e-06	-9.934	< 2e-16
## biomeFlooded grasslands	-1.840e-03	1.171e-02	-0.157	0.875135
## biomeMangroves	2.386e-01	2.256e-02	10.573	< 2e-16
## biomeMediterranean woodlands	-1.986e-02	7.568e-03	-2.624	0.008694
## biomeTemperate broadleaf forests	-1.786e-02	6.005e-03	-2.975	0.002932
## biomeTemperate conifer forests	-2.160e-02	6.053e-03	-3.569	0.000359
## biomeTemperate grasslands	-1.411e-02	6.070e-03	-2.325	0.020085
## biomeTropical coniferous forests	-1.035e-02	9.275e-03	-1.116	0.264329
## biomeTropical dry broadleaf forests	1.591e-02	1.256e-02	1.267	0.205279
## biomeTropical grasslands	1.653e-02	8.072e-03	2.048	0.040603
## biomeTropical moist broadleaf forests	-2.646e-02	1.101e-02	-2.403	0.016261
## biomeTundra	-2.075e-03	7.692e-03	-0.270	0.787336
## biomeXeric shrublands	-4.358e-02	6.415e-03	-6.793	1.11e-11
## managed	-2.060e-03	6.663e-04	-3.091	0.001994
## speciesRichness:FDis	-3.353e-04	2.063e-04	-1.625	0.104223
## speciesRichness:FDiv	-8.730e-04	1.037e-03	-0.842	0.399926
## speciesRichness:FEve	-6.885e-04	7.671e-04	-0.897	0.369471
## FDis:FDiv	4.520e-03	3.666e-03	1.233	0.217568
## FDis:FEve	1.606e-03	1.998e-03	0.804	0.421482
## FDiv:FEve	1.170e-03	9.601e-03	0.122	0.903007
##				
## (Intercept)	***			
## speciesRichness				
## FDis				
## FDiv				
## FEve				
## tempAnnual	***			
## precipitation	***			
## aridity	***			
## soilpH	***			
## soilSOC	***			
## soilClay	***			
## topoElevation	***			
## topoSlope	***			
## bedrockDepth	**			
## cloudCover	*			
## windSpeed	***			
## soilMoisture				
## forestRegrowth				
## forestAge				
## burntAreas	***			
## rootMass	*			
## humanFootprint	**			
## forestIntegrity	***			
## intactLandscapes	***			
## growingSeason	***			

```

## biomeFlooded grasslands
## biomeMangroves ***
## biomeMediterranean woodlands **
## biomeTemperate broadleaf forests **
## biomeTemperate conifer forests ***
## biomeTemperate grasslands *
## biomeTropical coniferous forests
## biomeTropical dry broadleaf forests
## biomeTropical grasslands *
## biomeTropical moist broadleaf forests *
## biomeTundra
## biomeXeric shrublands ***
## managed **
## speciesRichness:FDis
## speciesRichness:FDiv
## speciesRichness:FEve
## FDis:FDiv
## FDis:FEve
## FDiv:FEve
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.053 on 54081 degrees of freedom
## Multiple R-squared:  0.07498,    Adjusted R-squared:  0.07424
## F-statistic: 101.9 on 43 and 54081 DF,  p-value: < 2.2e-16

```

```
vif(lm1)
```

```

## there are higher-order terms (interactions) in this model
## consider setting type = 'predictor'; see ?vif

```

```

##              GVIF Df GVIF^(1/(2*Df))
## speciesRichness      87.361223  1      9.346723
## FDis                  93.709161  1      9.680349
## FDiv                  15.104574  1      3.886460
## FEve                  56.707710  1      7.530452
## tempAnnual            9.545170  1      3.089526
## precipitation         7.839903  1      2.799983
## aridity               7.438996  1      2.727452
## soilpH                3.573419  1      1.890349
## soilSOC               2.818192  1      1.678747
## soilClay              2.311994  1      1.520524
## topoElevation         7.468551  1      2.732865
## topoSlope             2.464038  1      1.569725
## bedrockDepth          1.481929  1      1.217345
## cloudCover            3.245861  1      1.801627
## windSpeed             1.646458  1      1.283144
## soilMoisture          3.345166  1      1.828979
## forestRegrowth        10.247801  1      3.201219
## forestAge             4.201370  1      2.049724
## burntAreas            1.072739  1      1.035731
## rootMass              1.127428  1      1.061804
## humanFootprint        1.394031  1      1.180691
## forestIntegrity       1.848193  1      1.359483
## intactLandscapes      1.254143  1      1.119885

```

```

## growingSeason      7.566624  1      2.750750
## biome              68.272090 12      1.192413
## managed            1.085431  1      1.041840
## speciesRichness:FDis 31.318478 1      5.596291
## speciesRichness:FDiv 78.334985 1      8.850705
## speciesRichness:FEve 38.547298 1      6.208647
## FDis:FDiv          84.341104 1      9.183741
## FDis:FEve          21.961989 1      4.686362
## FDiv:FEve          55.974454 1      7.481608

# model with the variance in residuals - sdResidEVI = sd(residual)
lm2 <- lm(sdResidEVI ~ (speciesRichness + FDis + FDiv + FEve)^2 + (
  tempAnnual + # temperature
  precipitation + aridity + # precipitation
  soilpH + soilSOC + soilClay + # soil
  topoElevation + topoSlope + bedrockDepth + # topography
  cloudCover + windSpeed + soilMoisture + # environ stress
  forestRegrowth + forestAge + burntAreas + rootMass + # disturbance
  humanFootprint + forestIntegrity + # human influence
  intactLandscapes + growingSeason)
  + biome + managed,
  data = dataMaster)
summary(lm2)

##
## Call:
## lm(formula = sdResidEVI ~ (speciesRichness + FDis + FDiv + FEve)^2 +
##      (tempAnnual + precipitation + aridity + soilpH + soilSOC +
##        soilClay + topoElevation + topoSlope + bedrockDepth +
##        cloudCover + windSpeed + soilMoisture + forestRegrowth +
##        forestAge + burntAreas + rootMass + humanFootprint +
##        forestIntegrity + intactLandscapes + growingSeason) +
##      biome + managed, data = dataMaster)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -887.17  -77.15  -18.90   52.59 1605.14
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.521e+02  4.433e+01  -3.431 0.000602
## speciesRichness    4.040e+00  2.062e+00   1.959 0.050110
## FDis              6.198e+00  7.925e+00   0.782 0.434178
## FDiv             -1.843e+01  1.614e+01  -1.142 0.253525
## FEve             -1.001e+01  1.962e+01  -0.510 0.609760
## tempAnnual        1.798e-01  2.915e-02   6.168 6.95e-10
## precipitation      2.968e-02  2.786e-03  10.652 < 2e-16
## aridity           -1.517e-03  2.550e-04  -5.950 2.70e-09
## soilpH            -6.149e+00  1.541e-01 -39.907 < 2e-16
## soilSOC            5.045e-01  3.457e-02  14.594 < 2e-16
## soilClay          2.697e+00  1.143e-01  23.604 < 2e-16
## topoElevation      2.211e-03  1.838e-03   1.203 0.229011
## topoSlope         4.238e+00  1.550e-01  27.332 < 2e-16
## bedrockDepth       3.679e-01  5.838e-02   6.301 2.98e-10
## cloudCover        -1.971e-02  1.879e-03 -10.492 < 2e-16

```

## windSpeed	1.652e+01	1.045e+00	15.803	< 2e-16
## soilMoisture	4.635e-01	6.671e-02	6.948	3.74e-12
## forestRegrowth	7.247e+02	3.695e+01	19.614	< 2e-16
## forestAge	4.314e-01	6.582e-02	6.555	5.62e-11
## burntAreas	6.290e+01	4.306e+00	14.609	< 2e-16
## rootMass	9.201e-01	9.983e-02	9.216	< 2e-16
## humanFootprint	-4.559e-01	8.306e-02	-5.489	4.06e-08
## forestIntegrity	-1.171e+01	2.298e-01	-50.941	< 2e-16
## intactLandscapes	6.917e-02	2.417e-02	2.862	0.004210
## growingSeason	-1.646e-01	1.531e-02	-10.753	< 2e-16
## biomeFlooded grasslands	8.200e+01	2.659e+01	3.084	0.002046
## biomeMangroves	1.435e+02	5.123e+01	2.800	0.005106
## biomeMediterranean woodlands	-1.251e+02	1.718e+01	-7.280	3.39e-13
## biomeTemperate broadleaf forests	-2.719e+01	1.363e+01	-1.994	0.046130
## biomeTemperate conifer forests	-1.038e+02	1.374e+01	-7.555	4.27e-14
## biomeTemperate grasslands	-2.993e+01	1.378e+01	-2.171	0.029899
## biomeTropical coniferous forests	-4.237e+01	2.106e+01	-2.012	0.044217
## biomeTropical dry broadleaf forests	5.371e+02	2.851e+01	18.839	< 2e-16
## biomeTropical grasslands	1.151e+02	1.833e+01	6.280	3.40e-10
## biomeTropical moist broadleaf forests	3.618e+02	2.500e+01	14.473	< 2e-16
## biomeTundra	1.438e+01	1.746e+01	0.824	0.410215
## biomeXeric shrublands	-1.746e+02	1.457e+01	-11.990	< 2e-16
## managed	1.181e+00	1.513e+00	0.781	0.434874
## speciesRichness:FDis	-4.747e+00	4.685e-01	-10.131	< 2e-16
## speciesRichness:FDiv	3.540e+00	2.355e+00	1.503	0.132816
## speciesRichness:FEve	3.034e+00	1.742e+00	1.742	0.081521
## FDis:FDiv	1.178e+01	8.323e+00	1.415	0.157003
## FDis:FEve	4.372e+00	4.536e+00	0.964	0.335154
## FDiv:FEve	1.553e+00	2.180e+01	0.071	0.943217
##				
## (Intercept)	***			
## speciesRichness	.			
## FDis				
## FDiv				
## FEve				
## tempAnnual	***			
## precipitation	***			
## aridity	***			
## soilpH	***			
## soilSOC	***			
## soilClay	***			
## topoElevation				
## topoSlope	***			
## bedrockDepth	***			
## cloudCover	***			
## windSpeed	***			
## soilMoisture	***			
## forestRegrowth	***			
## forestAge	***			
## burntAreas	***			
## rootMass	***			
## humanFootprint	***			
## forestIntegrity	***			
## intactLandscapes	**			

```

## growingSeason          ***
## biomeFlooded grasslands **
## biomeMangroves         **
## biomeMediterranean woodlands ***
## biomeTemperate broadleaf forests *
## biomeTemperate conifer forests ***
## biomeTemperate grasslands *
## biomeTropical coniferous forests *
## biomeTropical dry broadleaf forests ***
## biomeTropical grasslands ***
## biomeTropical moist broadleaf forests ***
## biomeTundra
## biomeXeric shrublands  ***
## managed
## speciesRichness:FDis   ***
## speciesRichness:FDiv
## speciesRichness:FEve   .
## FDis:FDiv
## FDis:FEve
## FDiv:FEve
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 120.3 on 54081 degrees of freedom
## Multiple R-squared:  0.2981, Adjusted R-squared:  0.2975
## F-statistic: 534.1 on 43 and 54081 DF,  p-value: < 2.2e-16

```

```
vif(lm2)
```

```

## there are higher-order terms (interactions) in this model
## consider setting type = 'predictor'; see ?vif

```

```

##              GVIF Df GVIF^(1/(2*Df))
## speciesRichness      87.361223  1      9.346723
## FDis                  93.709161  1      9.680349
## FDiv                  15.104574  1      3.886460
## FEve                  56.707710  1      7.530452
## tempAnnual            9.545170  1      3.089526
## precipitation         7.839903  1      2.799983
## aridity               7.438996  1      2.727452
## soilpH                3.573419  1      1.890349
## soilSOC               2.818192  1      1.678747
## soilClay              2.311994  1      1.520524
## topoElevation         7.468551  1      2.732865
## topoSlope             2.464038  1      1.569725
## bedrockDepth          1.481929  1      1.217345
## cloudCover            3.245861  1      1.801627
## windSpeed             1.646458  1      1.283144
## soilMoisture           3.345166  1      1.828979
## forestRegrowth        10.247801  1      3.201219
## forestAge             4.201370  1      2.049724
## burntAreas            1.072739  1      1.035731
## rootMass              1.127428  1      1.061804
## humanFootprint        1.394031  1      1.180691
## forestIntegrity       1.848193  1      1.359483

```

```
## intactLandscapes      1.254143  1      1.119885
## growingSeason         7.566624  1      2.750750
## biome                 68.272090 12      1.192413
## managed               1.085431  1      1.041840
## speciesRichness:FDis 31.318478  1      5.596291
## speciesRichness:FDiv 78.334985  1      8.850705
## speciesRichness:FEve 38.547298  1      6.208647
## FDis:FDiv             84.341104  1      9.183741
## FDis:FEve            21.961989  1      4.686362
## FDiv:FEve            55.974454  1      7.481608
```

```
# lm(sd ~ u * (a + b + c), meanEVI = mean(mean)
lm3 <- lm(sdResidEVI ~ meanEVI * (FDis + FDiv + FEve)^2 + (
  speciesRichness + shannonDiversity + # species diversity
  tempAnnual + # temperature
  precipitation + aridity + # precipitation
  soilpH + soilSOC + soilClay + # soil
  topoElevation + topoSlope + bedrockDepth + # topography
  cloudCover + windSpeed + soilMoisture + # environ stress
  forestRegrowth + forestAge + burntAreas + rootMass + # disturbance
  humanFootprint + forestIntegrity + # human influence
  intactLandscapes + growingSeason)
  + biome + managed,
  data = dataMaster)
summary(lm3)
```

```
##
## Call:
## lm(formula = sdResidEVI ~ meanEVI * (FDis + FDiv + FEve)^2 +
## (speciesRichness + shannonDiversity + tempAnnual + precipitation +
## aridity + soilpH + soilSOC + soilClay + topoElevation +
## topoSlope + bedrockDepth + cloudCover + windSpeed + soilMoisture +
## forestRegrowth + forestAge + burntAreas + rootMass +
## humanFootprint + forestIntegrity + intactLandscapes +
## growingSeason) + biome + managed, data = dataMaster)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -838.54  -75.85  -19.22   50.22 1646.69
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.662e+02  5.952e+01  -2.793  0.005226
## meanEVI         3.048e-02  9.000e-03   3.386  0.000710
## FDis           9.654e+01  2.462e+01   3.921  8.83e-05
## FDiv           1.458e+01  4.911e+01   0.297  0.766559
## FEve          -6.089e+01  6.094e+01  -0.999  0.317681
## speciesRichness -2.112e+00  4.910e-01  -4.302  1.70e-05
## shannonDiversity 1.572e+01  2.671e+00   5.886  3.97e-09
## tempAnnual      2.629e-01  2.923e-02   8.997 < 2e-16
## precipitation    2.637e-02  2.772e-03   9.513 < 2e-16
## aridity         -1.253e-03  2.535e-04  -4.942  7.75e-07
## soilpH          -5.277e+00  1.568e-01 -33.653 < 2e-16
## soilSOC          6.140e-01  3.466e-02  17.714 < 2e-16
## soilClay         2.193e+00  1.148e-01  19.095 < 2e-16
```

## topoElevation	1.451e-02	1.882e-03	7.709	1.29e-14
## topoSlope	3.756e+00	1.556e-01	24.133	< 2e-16
## bedrockDepth	3.952e-01	5.874e-02	6.727	1.74e-11
## cloudCover	-1.636e-02	1.885e-03	-8.680	< 2e-16
## windSpeed	1.494e+01	1.039e+00	14.376	< 2e-16
## soilMoisture	3.899e-01	6.665e-02	5.850	4.94e-09
## forestRegrowth	5.841e+02	3.728e+01	15.667	< 2e-16
## forestAge	2.631e-01	6.599e-02	3.987	6.70e-05
## burntAreas	6.942e+01	4.283e+00	16.209	< 2e-16
## rootMass	8.906e-01	9.908e-02	8.989	< 2e-16
## humanFootprint	-5.043e-01	8.247e-02	-6.115	9.73e-10
## forestIntegrity	-1.277e+01	2.333e-01	-54.719	< 2e-16
## intactLandscapes	1.387e-01	2.412e-02	5.752	8.88e-09
## growingSeason	-2.074e-01	1.532e-02	-13.536	< 2e-16
## biomeFlooded grasslands	6.296e+01	2.641e+01	2.384	0.017121
## biomeMangroves	1.186e+02	5.085e+01	2.333	0.019666
## biomeMediterranean woodlands	-1.223e+02	1.705e+01	-7.170	7.60e-13
## biomeTemperate broadleaf forests	-4.436e+01	1.355e+01	-3.273	0.001064
## biomeTemperate conifer forests	-1.061e+02	1.364e+01	-7.779	7.42e-15
## biomeTemperate grasslands	-4.031e+01	1.369e+01	-2.945	0.003231
## biomeTropical coniferous forests	-5.881e+01	2.091e+01	-2.813	0.004915
## biomeTropical dry broadleaf forests	4.528e+02	2.862e+01	15.824	< 2e-16
## biomeTropical grasslands	1.028e+02	1.820e+01	5.647	1.64e-08
## biomeTropical moist broadleaf forests	2.727e+02	2.521e+01	10.816	< 2e-16
## biomeTundra	7.557e+00	1.734e+01	0.436	0.662884
## biomeXeric shrublands	-1.790e+02	1.446e+01	-12.380	< 2e-16
## managed	-1.358e+00	1.507e+00	-0.901	0.367518
## FDis:FDiv	-8.322e+01	2.728e+01	-3.051	0.002283
## FDis:FEve	3.326e+01	1.362e+01	2.442	0.014629
## FDiv:FEve	1.576e+00	7.276e+01	0.022	0.982720
## meanEVI:FDis	-2.515e-02	5.080e-03	-4.952	7.38e-07
## meanEVI:FDiv	-3.192e-03	1.033e-02	-0.309	0.757303
## meanEVI:FEve	1.529e-02	1.310e-02	1.167	0.243198
## meanEVI:FDis:FDiv	2.070e-02	5.602e-03	3.694	0.000221
## meanEVI:FDis:FEve	-6.112e-03	2.886e-03	-2.118	0.034205
## meanEVI:FDiv:FEve	-1.669e-03	1.557e-02	-0.107	0.914652
##				
## (Intercept)	**			
## meanEVI	***			
## FDis	***			
## FDiv				
## FEve				
## speciesRichness	***			
## shannonDiversity	***			
## tempAnnual	***			
## precipitation	***			
## aridity	***			
## soilpH	***			
## soilSOC	***			
## soilClay	***			
## topoElevation	***			
## topoSlope	***			
## bedrockDepth	***			
## cloudCover	***			



```

## windSpeed ***
## soilMoisture ***
## forestRegrowth ***
## forestAge ***
## burntAreas ***
## rootMass ***
## humanFootprint ***
## forestIntegrity ***
## intactLandscapes ***
## growingSeason ***
## biomeFlooded grasslands *
## biomeMangroves *
## biomeMediterranean woodlands ***
## biomeTemperate broadleaf forests **
## biomeTemperate conifer forests ***
## biomeTemperate grasslands **
## biomeTropical coniferous forests **
## biomeTropical dry broadleaf forests ***
## biomeTropical grasslands ***
## biomeTropical moist broadleaf forests ***
## biomeTundra
## biomeXeric shrublands ***
## managed
## FDis:FDiv **
## FDis:FEve *
## FDiv:FEve
## meanEVI:FDis ***
## meanEVI:FDiv
## meanEVI:FEve
## meanEVI:FDis:FDiv ***
## meanEVI:FDis:FEve *
## meanEVI:FDiv:FEve
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 119.4 on 54076 degrees of freedom
## Multiple R-squared:  0.3089, Adjusted R-squared:  0.3083
## F-statistic: 503.5 on 48 and 54076 DF, p-value: < 2.2e-16

```

```
vif(lm3)
```

```

## there are higher-order terms (interactions) in this model
## consider setting type = 'predictor'; see ?vif

```

```

##              GVIF Df GVIF^(1/(2*Df))
## meanEVI      566.489233 1      23.801034
## FDis         918.489597 1      30.306593
## FDiv         141.997818 1      11.916284
## FEve         555.763042 1      23.574627
## speciesRichness 5.030292 1      2.242831
## shannonDiversity 5.809730 1      2.410338
## tempAnnual    9.747125 1      3.122039
## precipitation  7.878777 1      2.806916
## aridity       7.465488 1      2.732305
## soilpH        3.758139 1      1.938592

```

## soilSOC	2.877229	1	1.696240
## soilClay	2.370096	1	1.539512
## topoElevation	7.953819	1	2.820252
## topoSlope	2.521934	1	1.588060
## bedrockDepth	1.523453	1	1.234282
## cloudCover	3.318749	1	1.821743
## windSpeed	1.652381	1	1.285450
## soilMoisture	3.390674	1	1.841378
## forestRegrowth	10.594808	1	3.254967
## forestAge	4.288385	1	2.070842
## burntAreas	1.077781	1	1.038162
## rootMass	1.127726	1	1.061945
## humanFootprint	1.395534	1	1.181327
## forestIntegrity	1.934879	1	1.390999
## intactLandscapes	1.269034	1	1.126514
## growingSeason	7.692195	1	2.773481
## biome	80.520986	12	1.200640
## managed	1.094047	1	1.045967
## FDis:FDiv	920.028708	1	30.331975
## FDis:FEve	201.150838	1	14.182766
## FDiv:FEve	633.259876	1	25.164655
## meanEVI:FDis	1601.510553	1	40.018877
## meanEVI:FDiv	630.161422	1	25.103016
## meanEVI:FEve	1092.461224	1	33.052401
## meanEVI:FDis:FDiv	1465.938371	1	38.287575
## meanEVI:FDis:FEve	312.617768	1	17.681000
## meanEVI:FDiv:FEve	1133.194643	1	33.662957

AIC(lm1, lm2, lm3)

##	df	AIC
## lm1	45	-164334.5
## lm2	45	672198.8
## lm3	50	671369.7