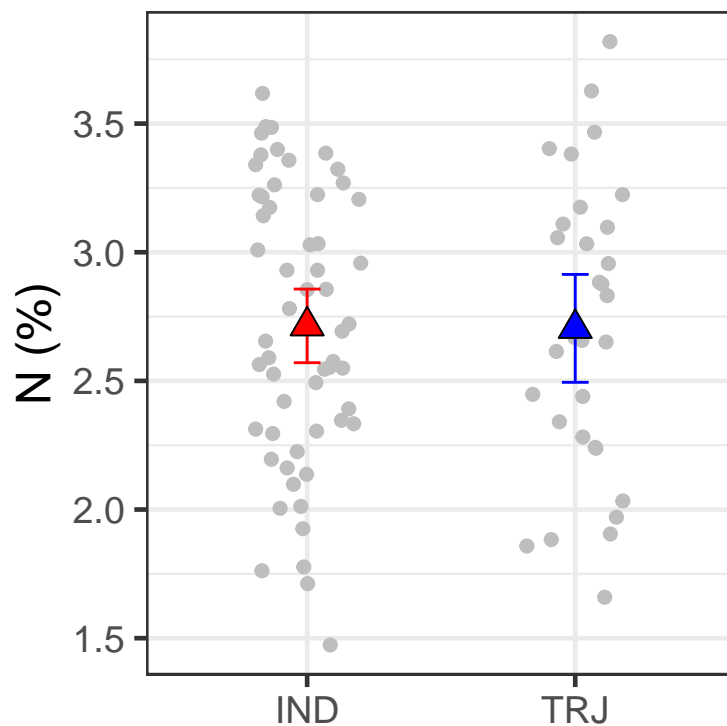


Use side-view HSI data to predict N from Tropical japonica data

```
##
## IND TRJ
## 57 31
```



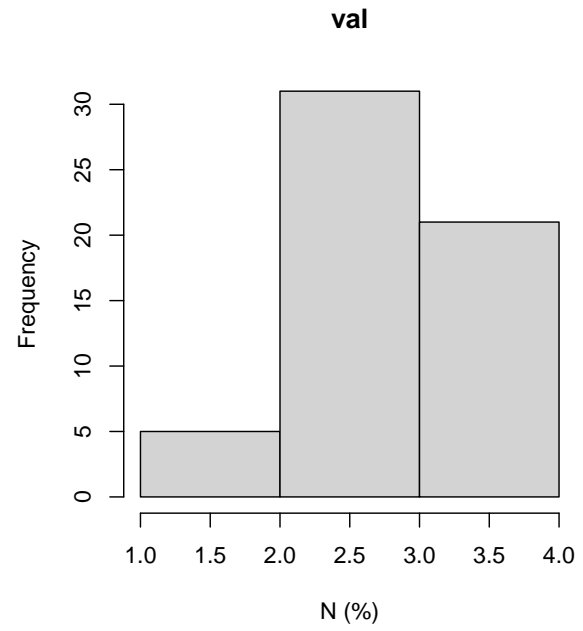
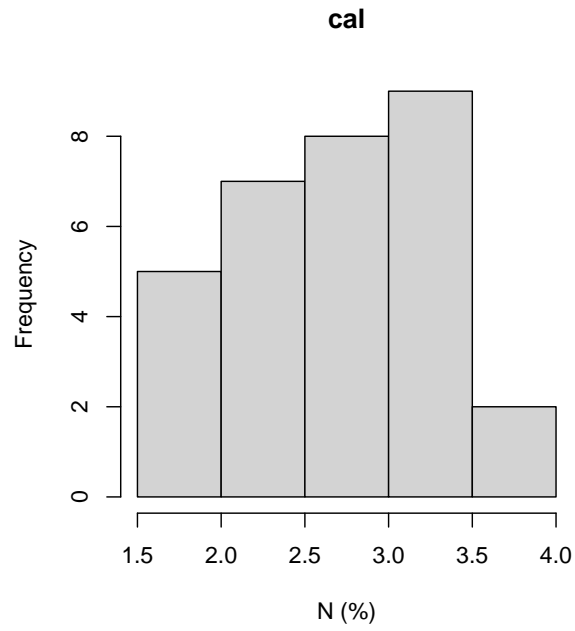
```
## $plsralg
## [1] "oscorespls"
```

```
## [1] "902" "903" "909" "912" "914" "915" "917" "919" "920" "925" "927" "943"
## [13] "945" "946" "948" "950" "952" "954" "957" "960" "963" "967" "971" "973"
## [25] "974" "977" "978" "983" "985" "991" "993"
```

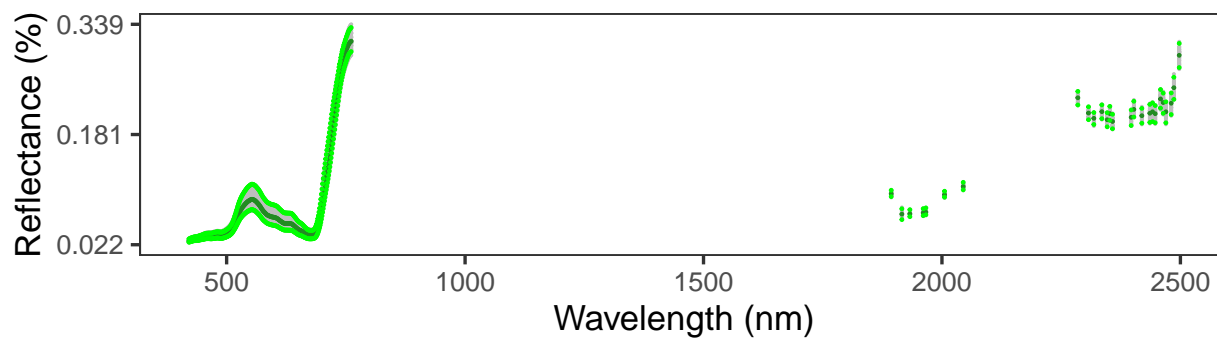
```
## [1] "904" "905" "906" "907" "908" "910" "911" "916" "918" "921" "922" "923"
## [13] "924" "926" "928" "929" "930" "931" "932" "933" "934" "935" "936" "937"
## [25] "940" "941" "942" "944" "947" "951" "953" "955" "956" "958" "959" "962"
## [37] "965" "966" "968" "969" "970" "972" "975" "979" "980" "981" "982" "984"
## [49] "986" "987" "988" "989" "990" "992" "994" "995" "996"
```

```
##          value      wv
## 719 0.04623748 2357.6700
## 663 0.04492871 2044.6000
```

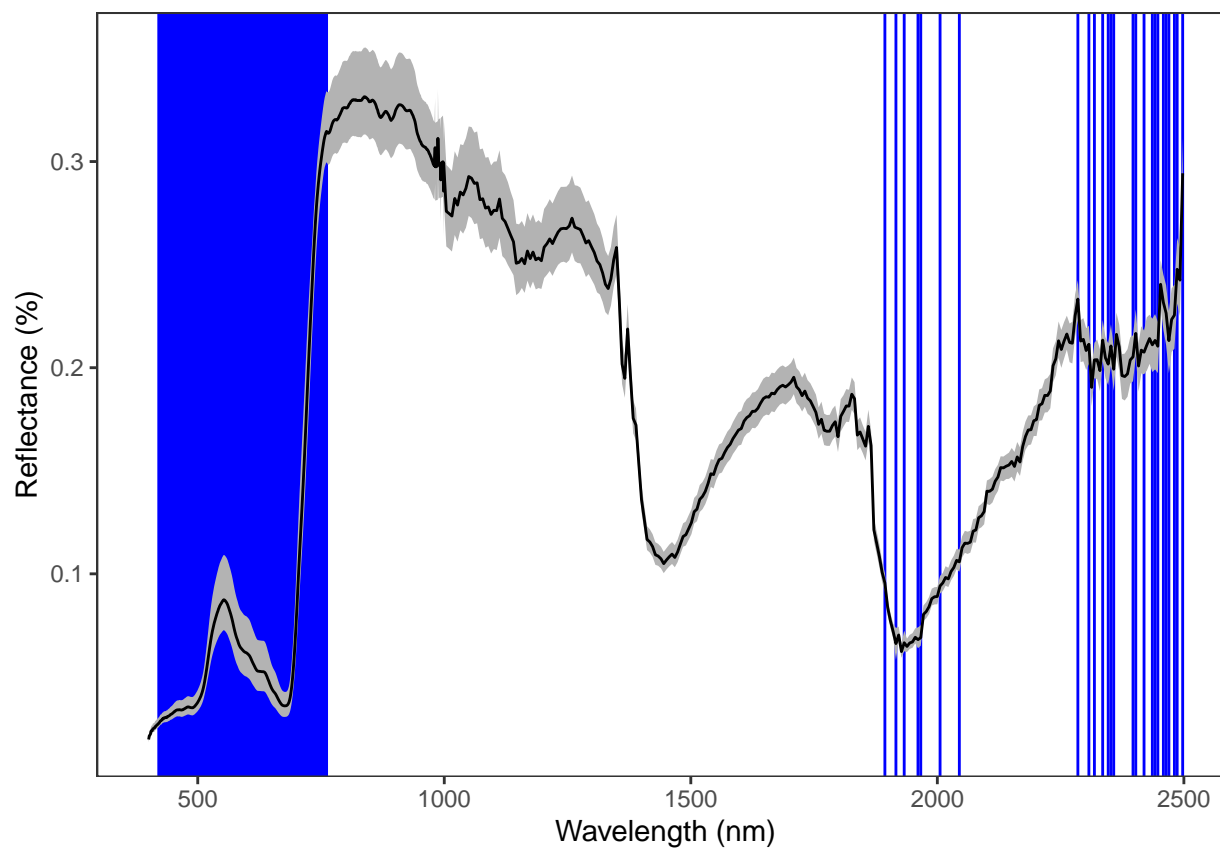
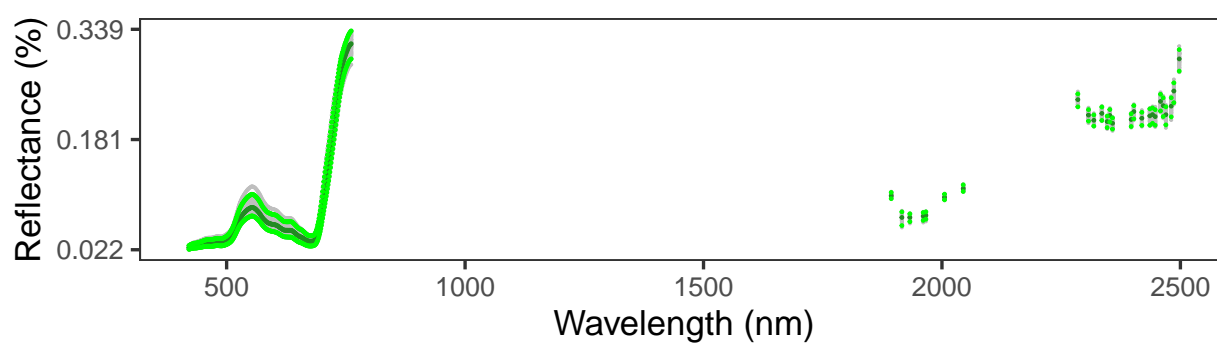
```
## 715 0.04395948 2335.3000
## 718 0.04324683 2352.0800
## 291 0.04029708 761.3044
## 744 0.03818494 2497.5600
```

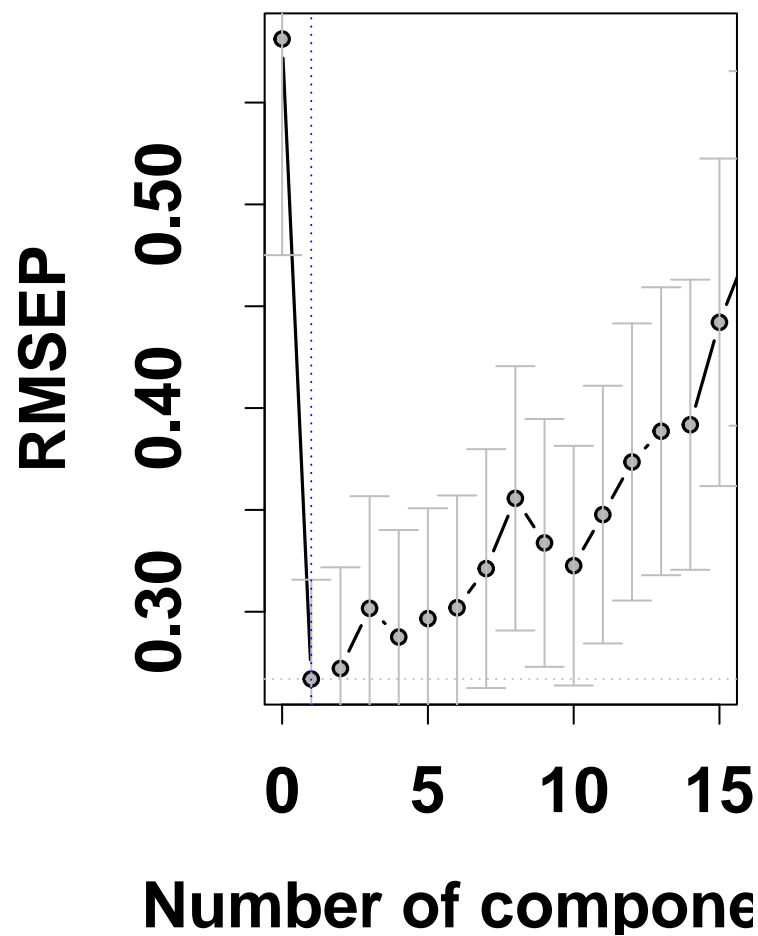


N TRJ calibration dataset



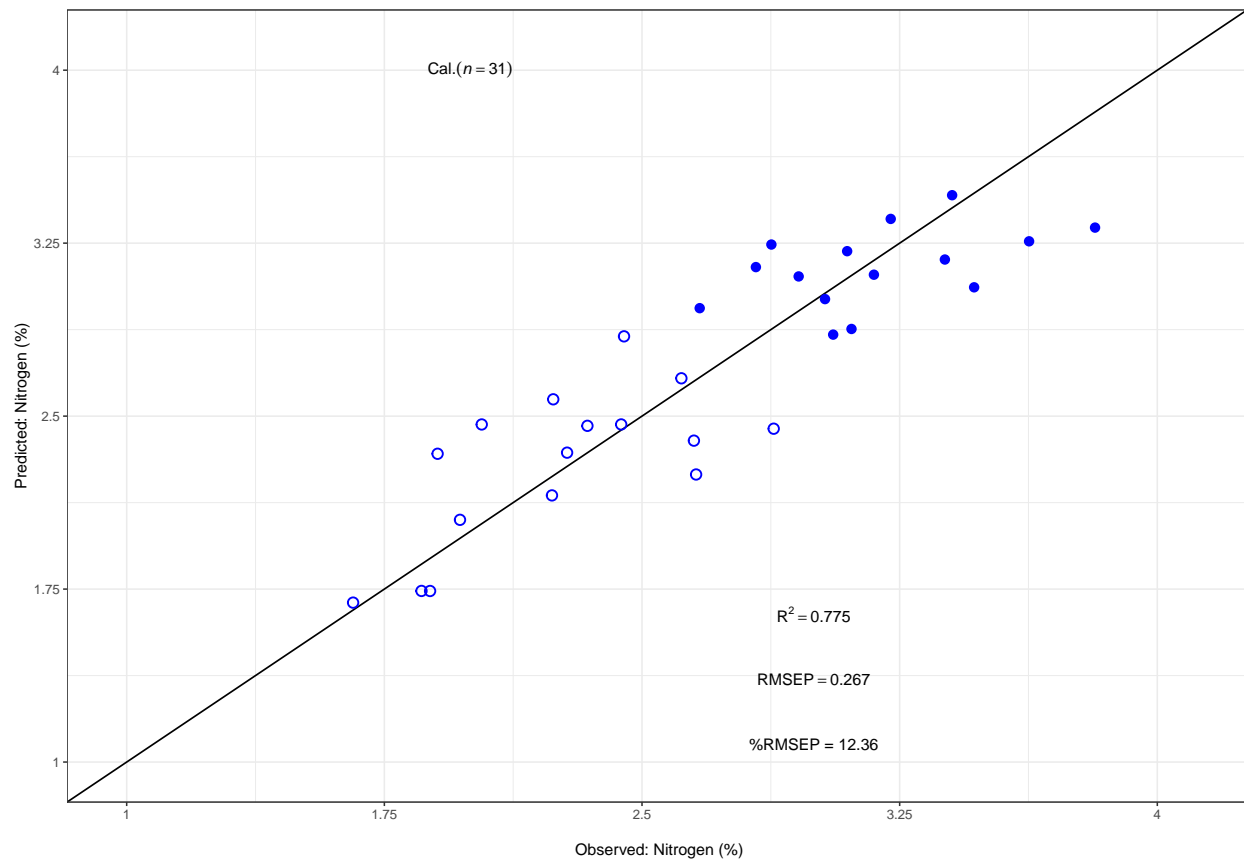
N TRJ validation dataset

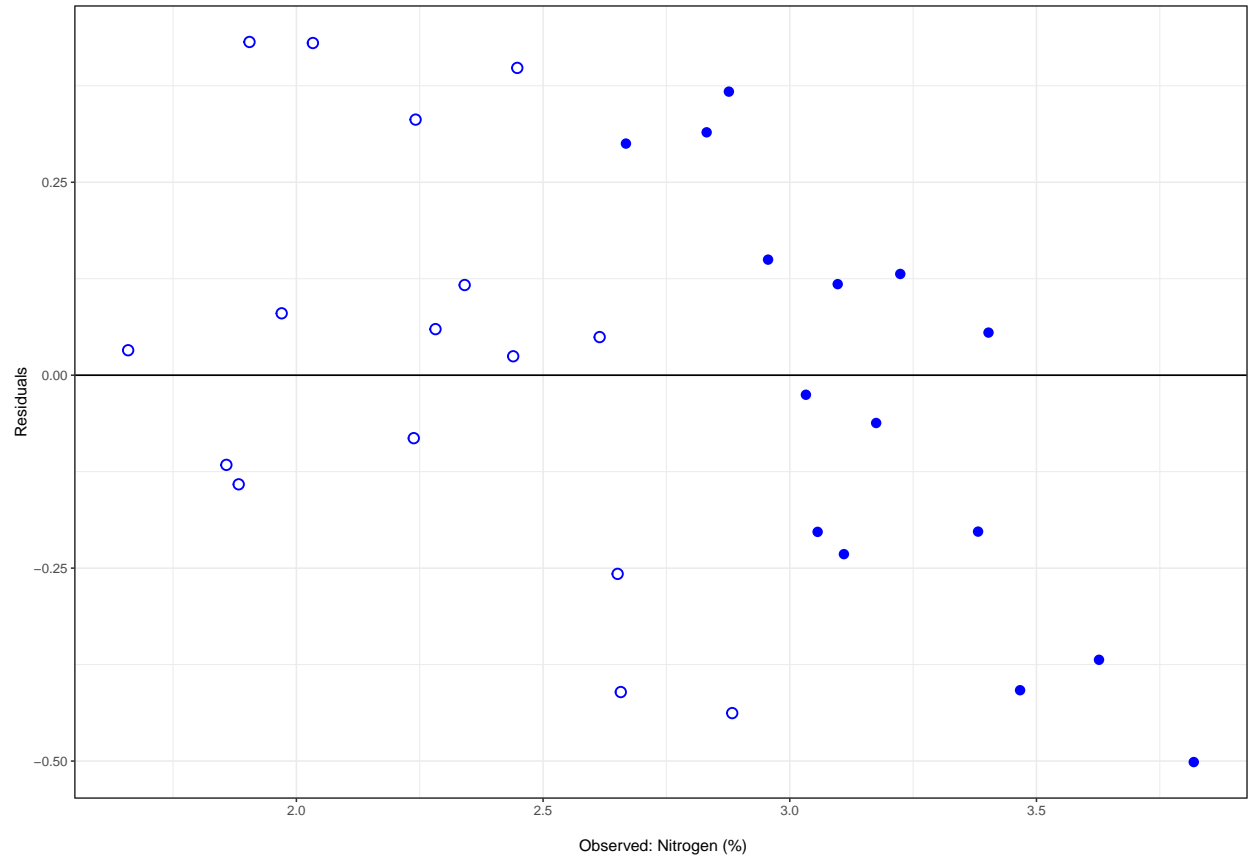


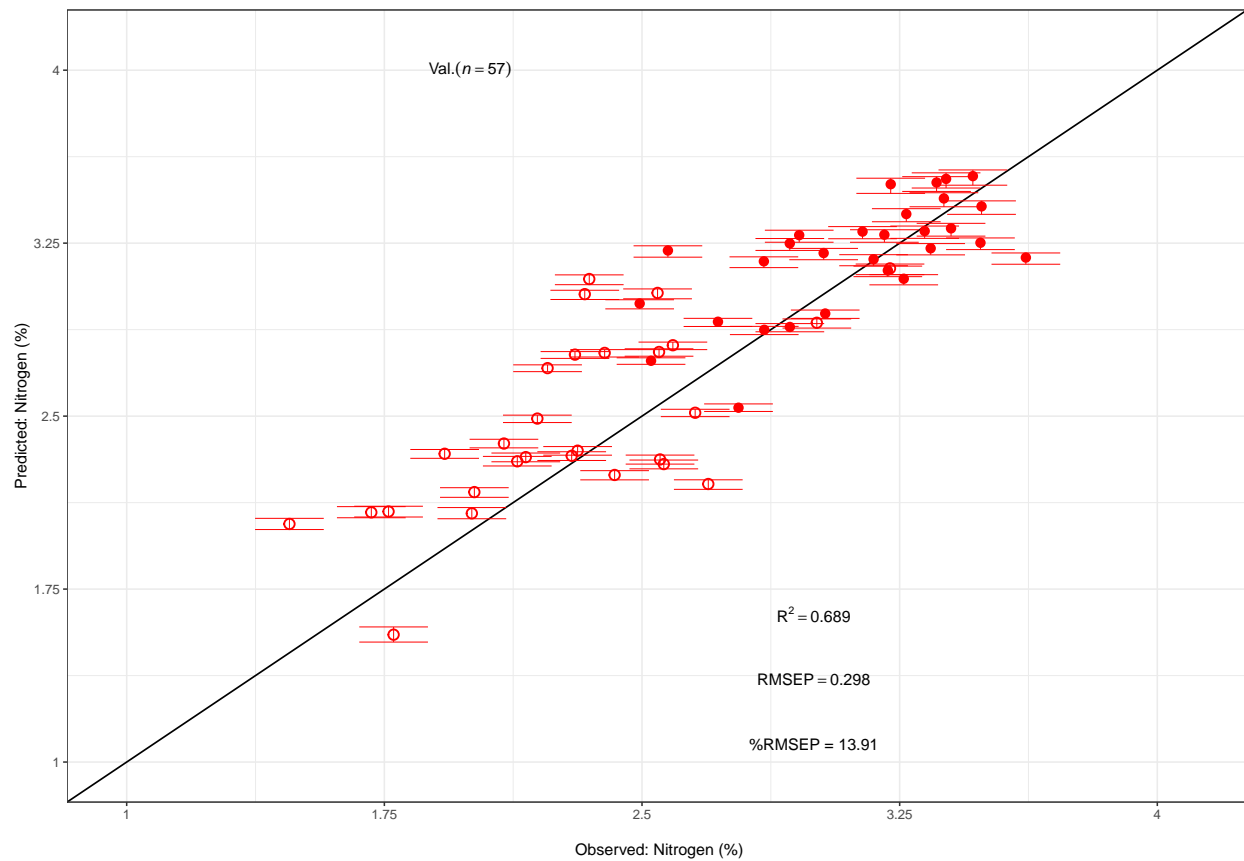


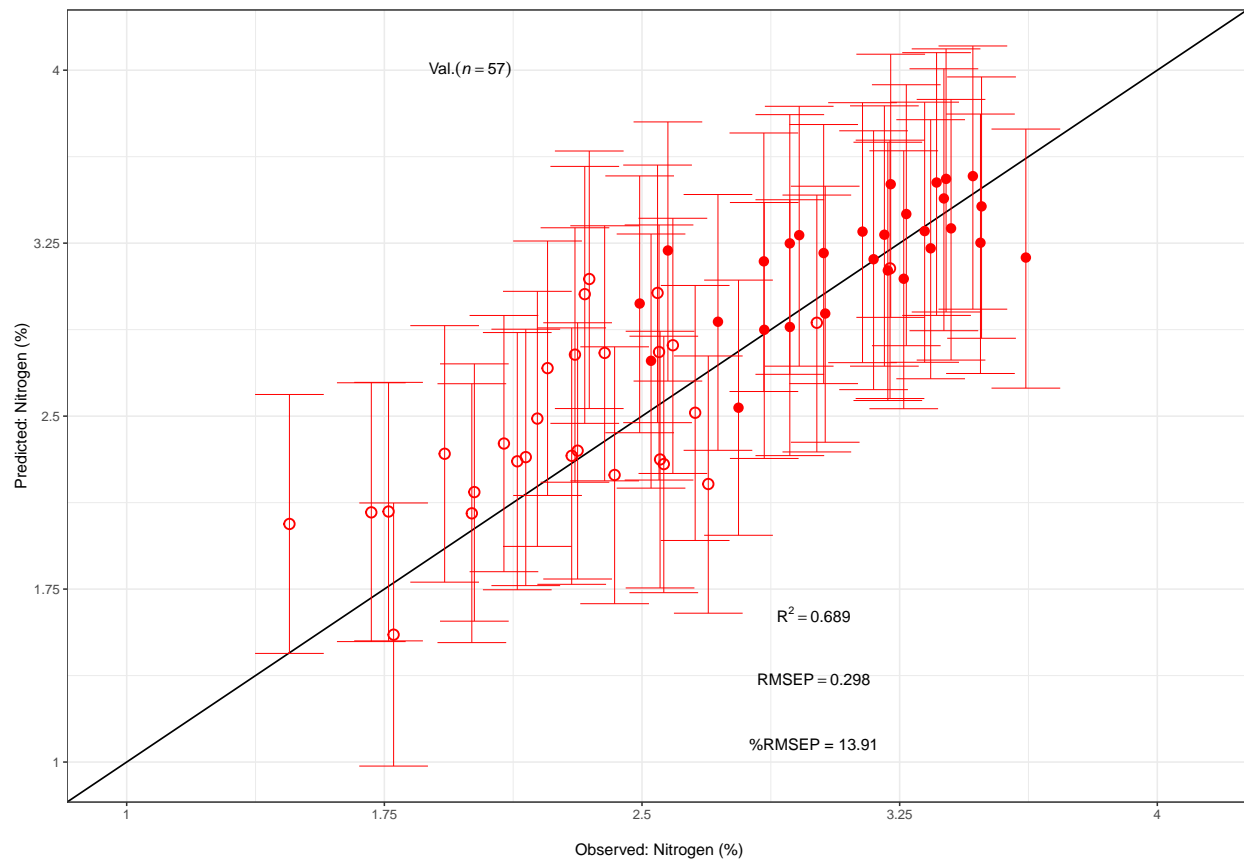
```
## data_set R2 RMSEP NRMSEP
## 1 cal 0.775 0.267 12.362
## 2 val 0.689 0.298 13.909
```

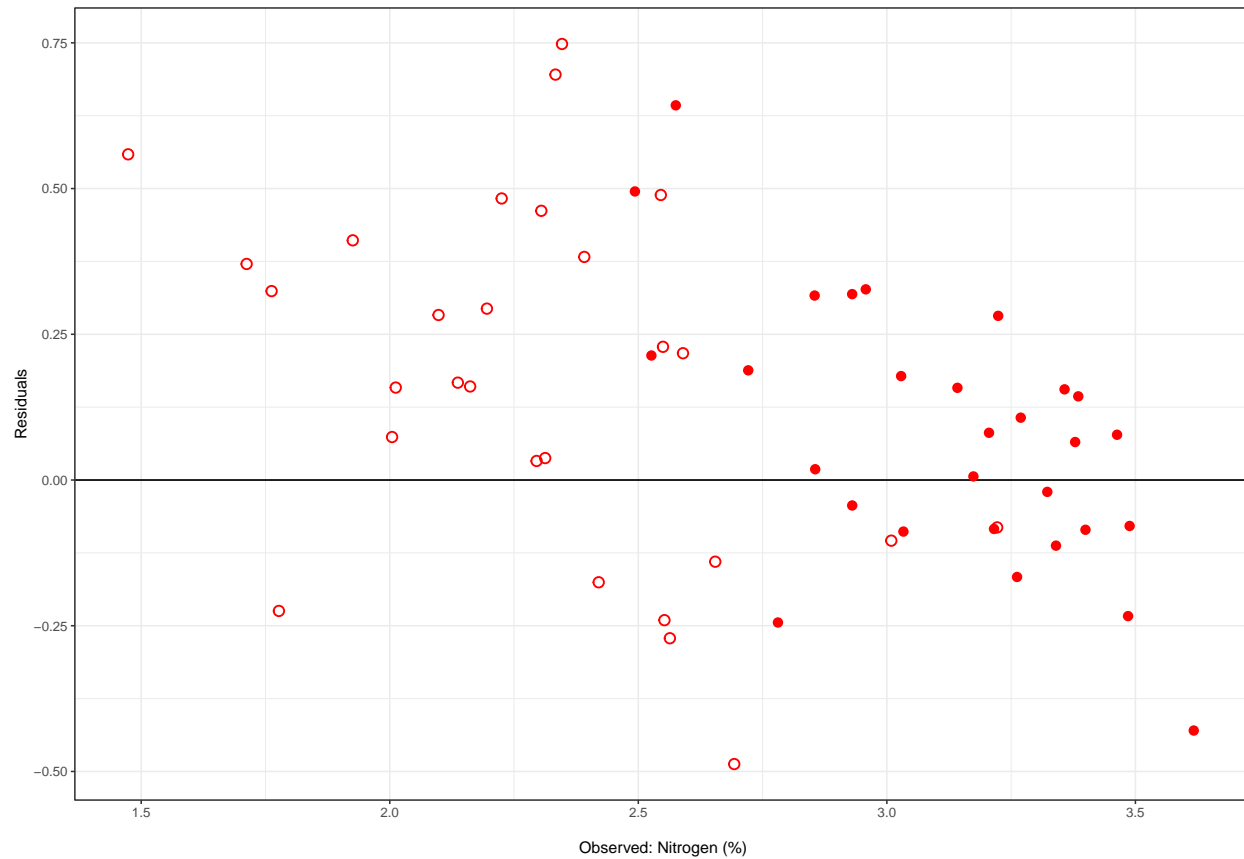
```
## Observed Predicted Residuals Treatment Subpop uci lci upi
## 1 3.26930 3.376277 0.106977425 N1 IND 3.399484 3.342756 3.936866
## 2 2.57540 3.218228 0.642828499 N1 IND 3.238484 3.189237 3.775686
## 3 3.46310 3.540728 0.077627992 N1 IND 3.567414 3.501316 4.105009
## 4 3.17410 3.180247 0.006146956 N1 IND 3.199988 3.151982 3.737153
## 5 3.48835 3.409491 -0.078859192 N1 IND 3.433354 3.374984 3.970769
## 6 3.32275 3.302398 -0.020352106 N1 IND 3.324160 3.270735 3.861430
## lpi
## 1 2.805373
## 2 2.652035
## 3 2.963720
## 4 2.614818
## 5 2.837569
## 6 2.733465
```











```
##      Iteration Intercept    X1932.77 X740.83367 X739.55642 X742.11119
## Seg 1          1  8.141890 -0.05610596 -0.1870170 -0.2115456 -0.1639403
## Seg 2          2  8.176482 -0.05432377 -0.1946588 -0.2188055 -0.1719662
## Seg 3          3  8.148813 -0.05421205 -0.1945372 -0.2186880 -0.1717927
## Seg 4          4  8.130894 -0.05390000 -0.1933918 -0.2176496 -0.1705812
## Seg 5          5  8.341435 -0.05609787 -0.2034821 -0.2279476 -0.1805080
## Seg 6          6  8.092201 -0.05286932 -0.1760725 -0.2013354 -0.1522600
```

```
##      coefs
## 1932.77   -0.05483533
## 740.83367 -0.19770356
## 739.55642 -0.22167290
## 742.11119 -0.17520191
## 738.27942 -0.24445221
## 743.38896 -0.15279318
```