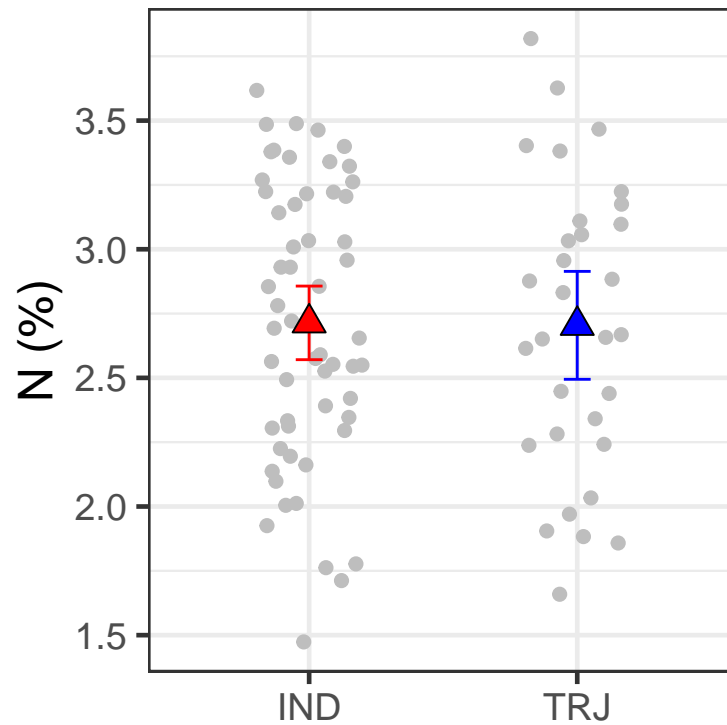


Use side-view HSI data to predict N from Indica data

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



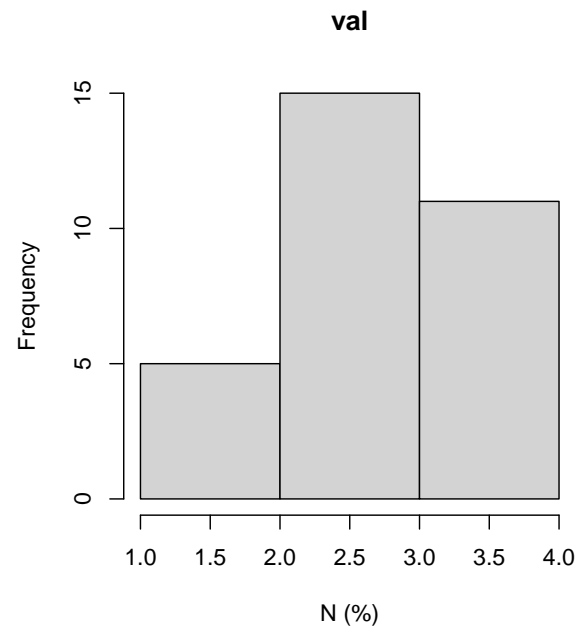
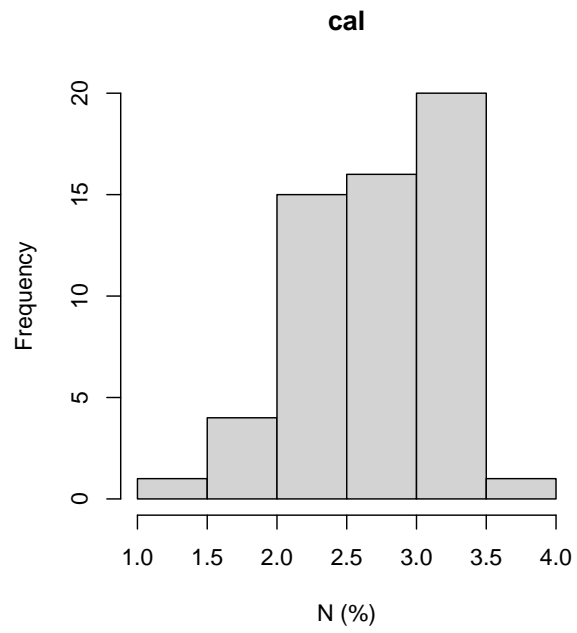
```
## $plsralg
## [1] "oscorespls"
```

```
## [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"
```

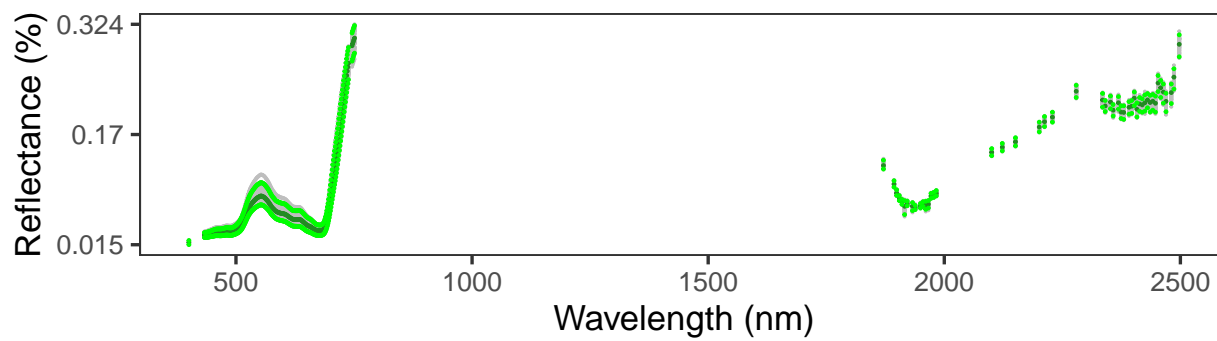
```
## [1] "902" "903" "909" "912" "914" "915" "917" "919" "920" "925" "927" "943"
## [13] "945" "946" "948" "950" "952" "954" "957" "960" "963" "967" "971" "973"
## [25] "974" "977" "978" "983" "985" "991" "993"
```

```
##          value      wv
## 283 0.02565546 751.0609
## 741 0.02544024 2480.7600
```

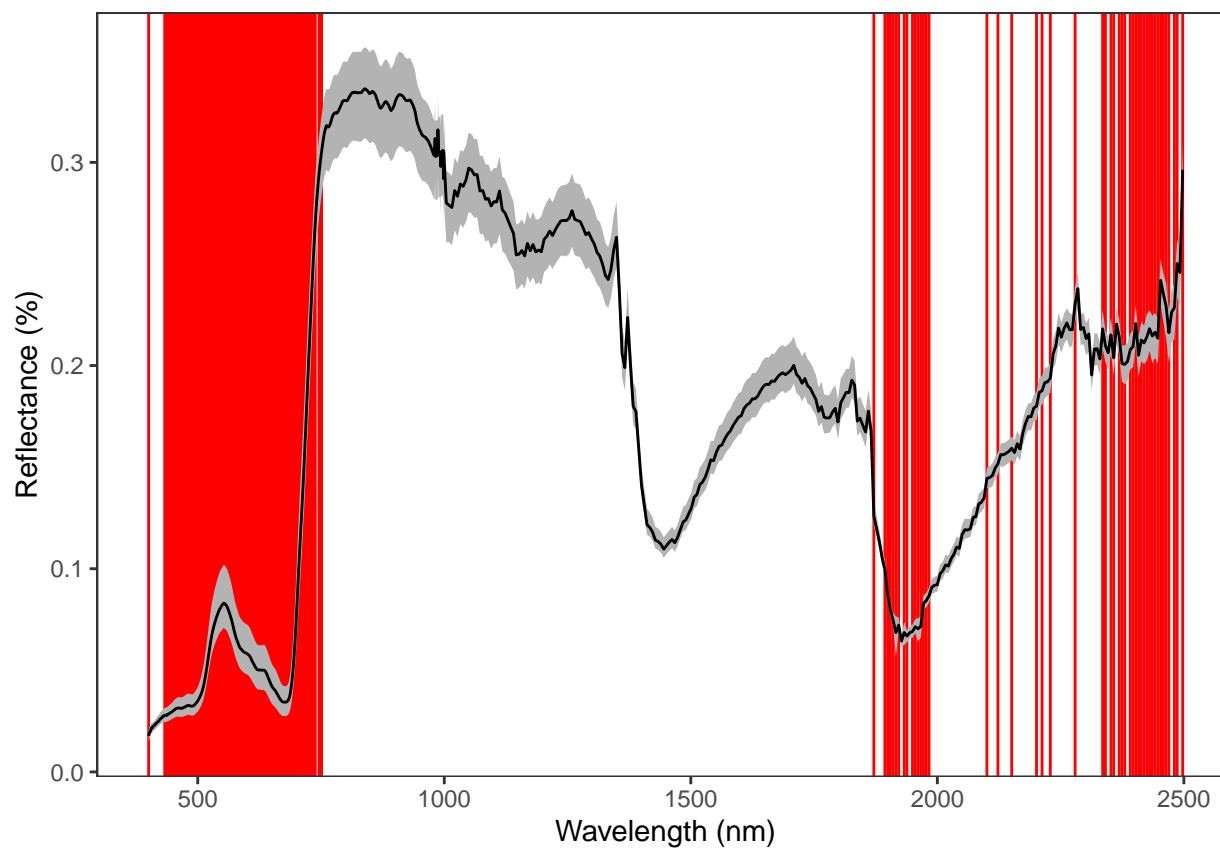
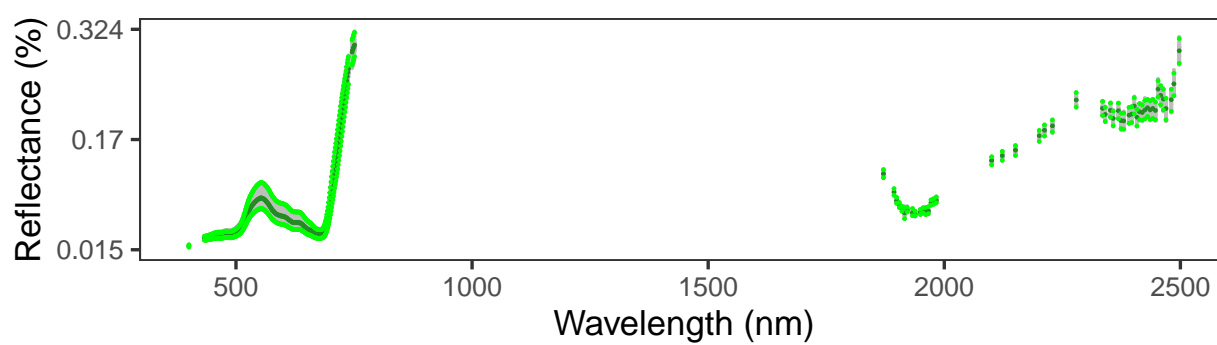
```
## 279 0.02478946 745.9452
## 723 0.02464939 2380.0500
## 632 0.02402334 1871.2300
## 644 0.02376876 1938.3600
```

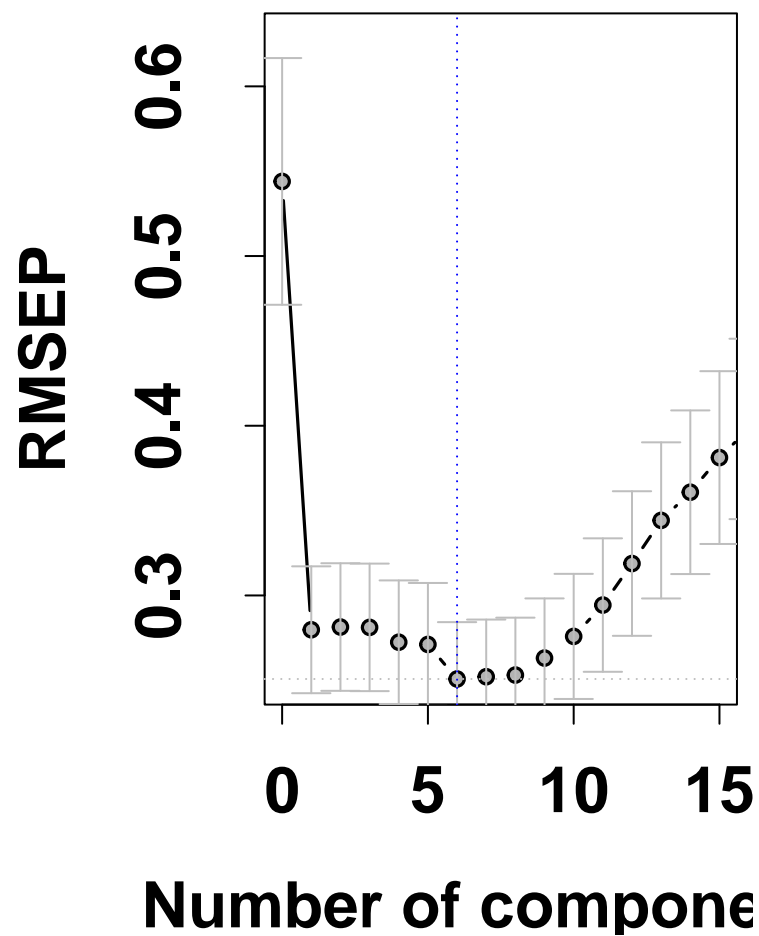


N IND calibration dataset



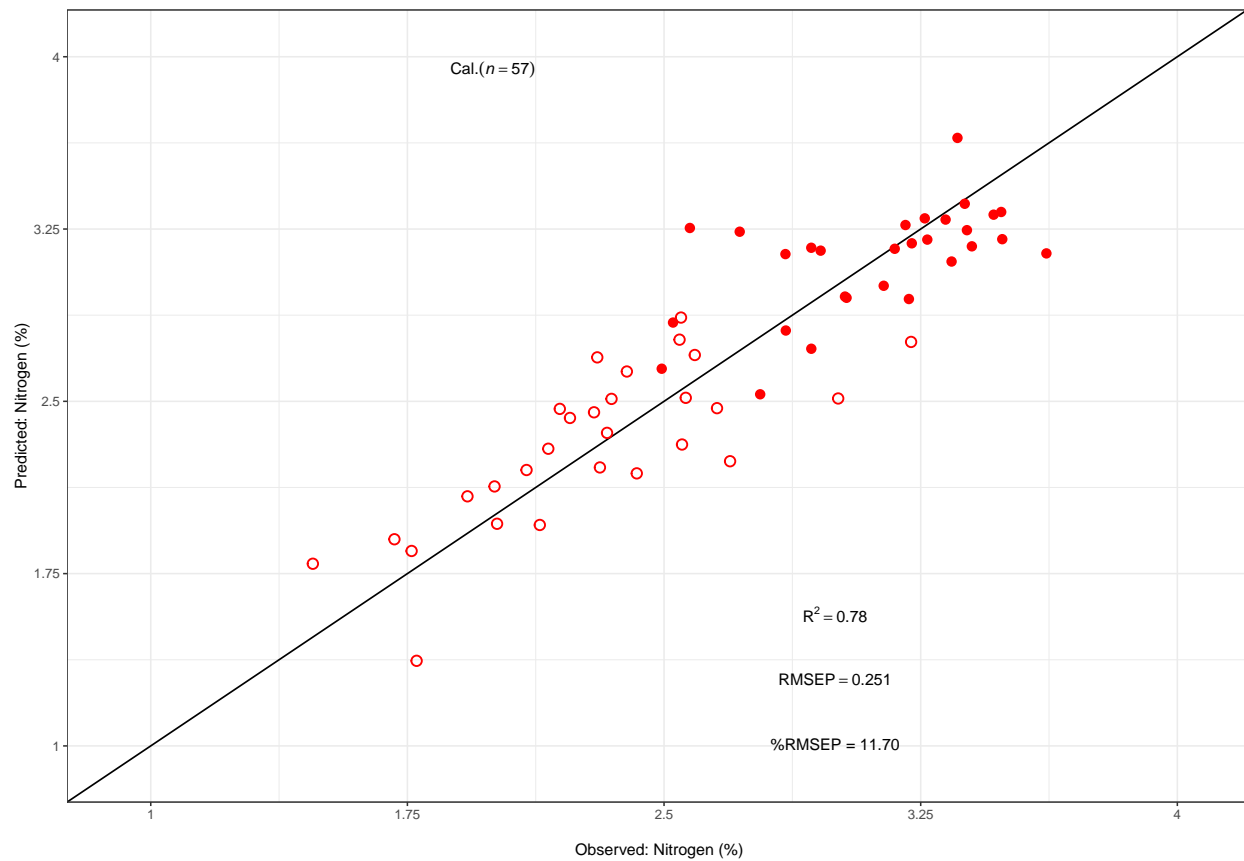
N IND validation dataset

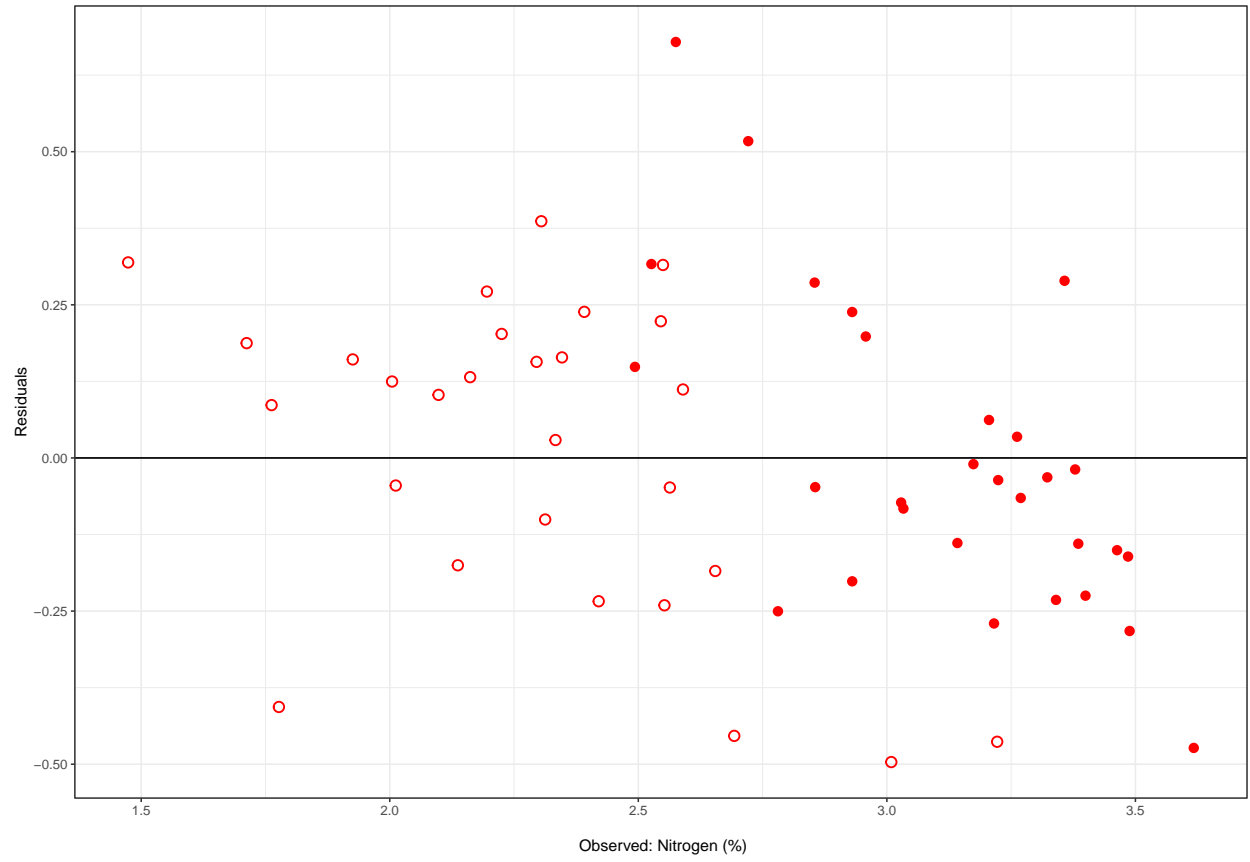


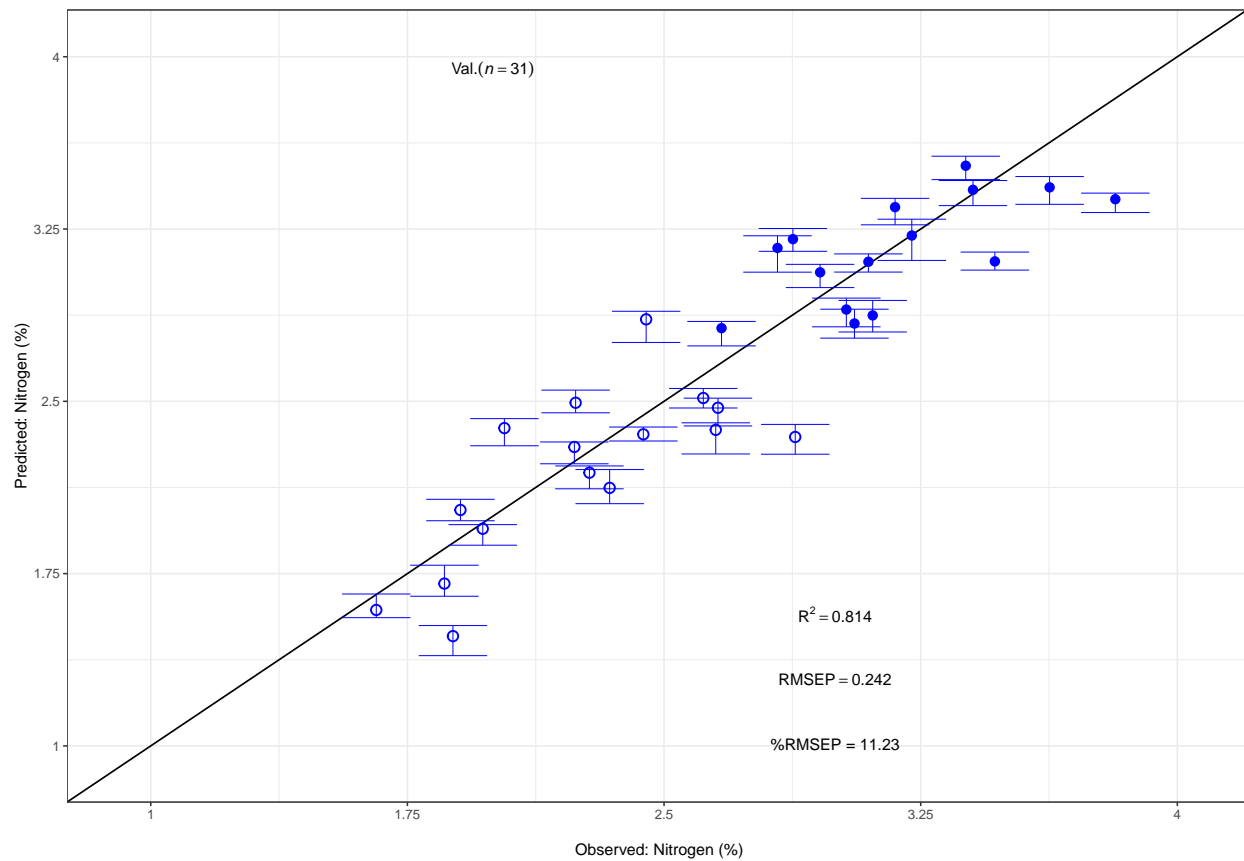


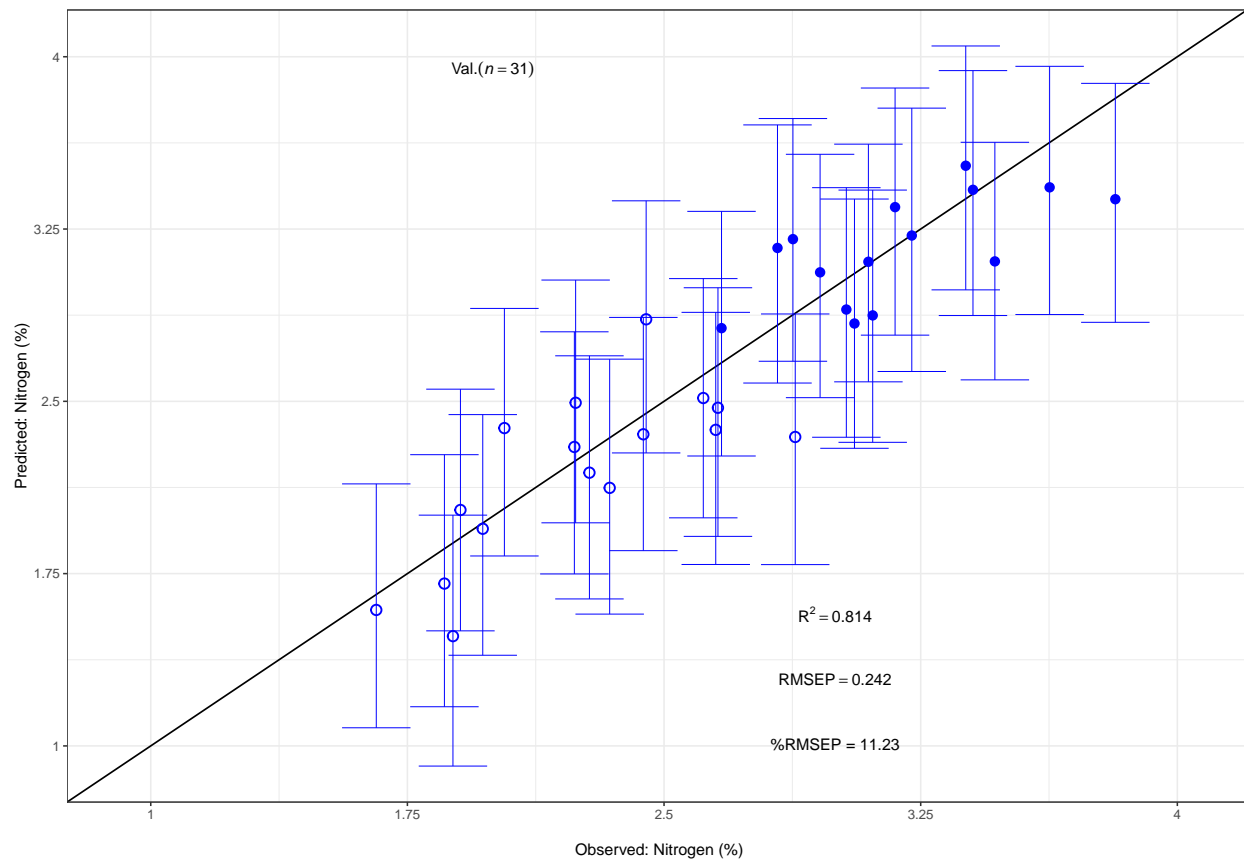
```
## data_set    R2 RMSEP NRMSEP
## 1      cal 0.780 0.251 11.698
## 2      val 0.814 0.242 11.228
```

```
## Observed Predicted Residuals Treatment Subpop    uci    lci    upi
## 1  3.22395  3.221745 -0.002204722      N1    TRJ  3.292818  3.113298  3.776286
## 2  3.03270  2.899566 -0.133134205      N1    TRJ  2.949287  2.824341  3.430065
## 3  3.10975  2.874017 -0.235733237      N1    TRJ  2.939264  2.801879  3.419565
## 4  3.05645  2.838731 -0.217719331      N1    TRJ  2.901053  2.775038  3.380530
## 5  2.87660  3.206027  0.329427332      N1    TRJ  3.252311  3.153021  3.730918
## 6  3.40275  3.420694  0.017943764      N1    TRJ  3.461134  3.351941  3.939663
##      lpi
## 1  2.629831
## 2  2.343564
## 3  2.321579
## 4  2.295561
## 5  2.674414
## 6  2.873413
```

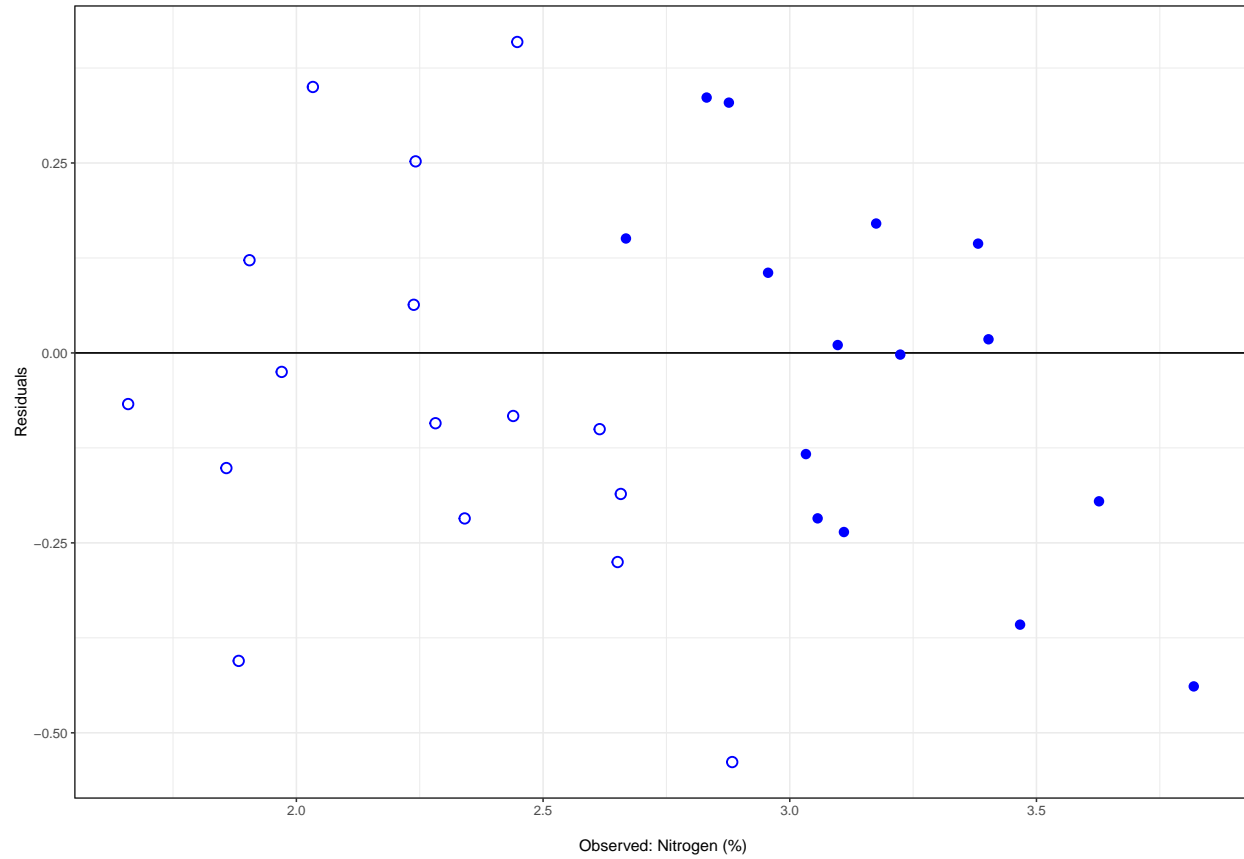












```
##      Iteration Intercept X697.54987 X698.81871 X696.28128 X700.08782
## Seg 1          1  1.1034607 -0.1854878 -0.3373487 -0.06670210 -0.5226478
## Seg 2          2  0.9718074 -0.3357114 -0.5202000 -0.17378459 -0.7436806
## Seg 3          3  0.8761797 -0.1953872 -0.3629867 -0.05865955 -0.5637733
## Seg 4          4  1.0479113 -0.1567190 -0.3050163 -0.04360123 -0.4872011
## Seg 5          5  0.4745579 -0.2674024 -0.4301098 -0.13738736 -0.6210596
## Seg 6          6  1.2729290 -0.1644214 -0.3224268 -0.03953180 -0.5125186
```

```
##      coefs
## 697.54987 -0.17280166
## 698.81871 -0.32709379
## 696.28128 -0.05212379
## 700.08782 -0.51458940
## 695.01293  0.07834226
## 590.62875 -0.60658815
```