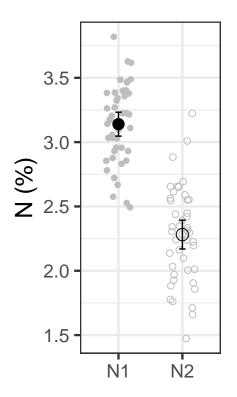
Use side-view HSI data to predict N from N2 (high-level) data

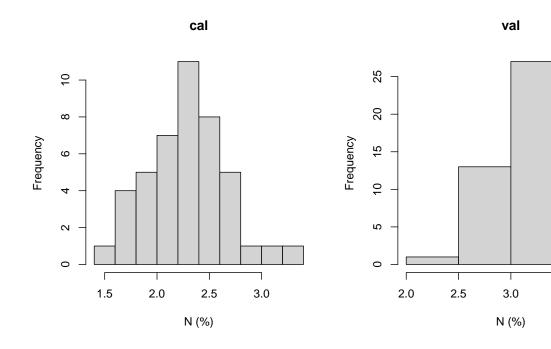
```
## N1 N2
## 44 44
```



Treatment

- N1
- N2

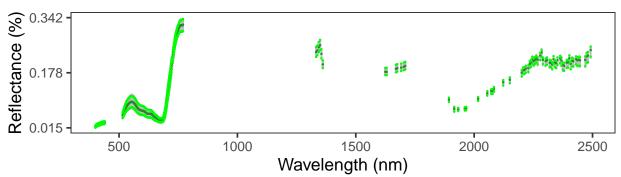
```
## 298 -0.006178570 770.2809
## 588 -0.006553739 1624.7600
## 261 -0.006643067 722.9753
## 536 -0.006687526 1332.3800
```



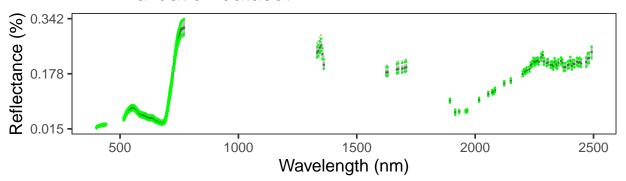
3.5

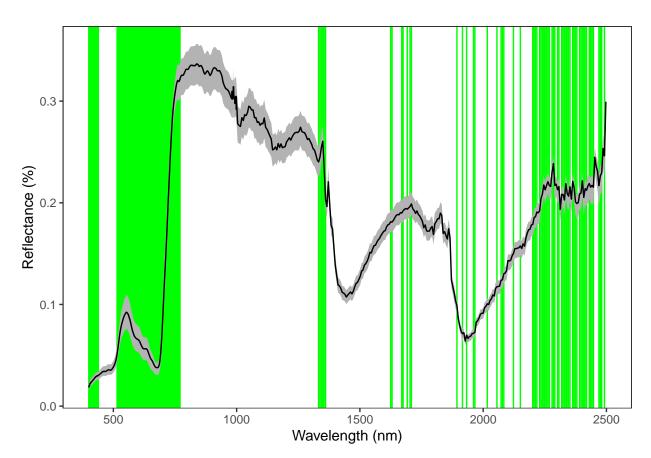
4.0

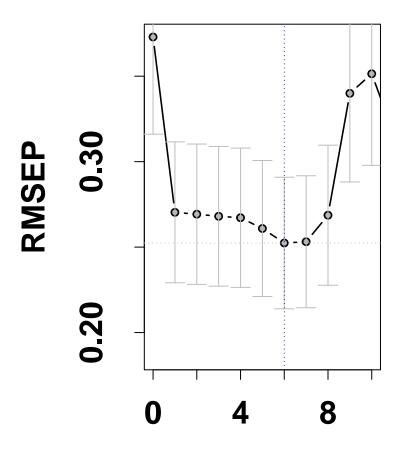
N N2 calibration dataset



N N1 validation dataset

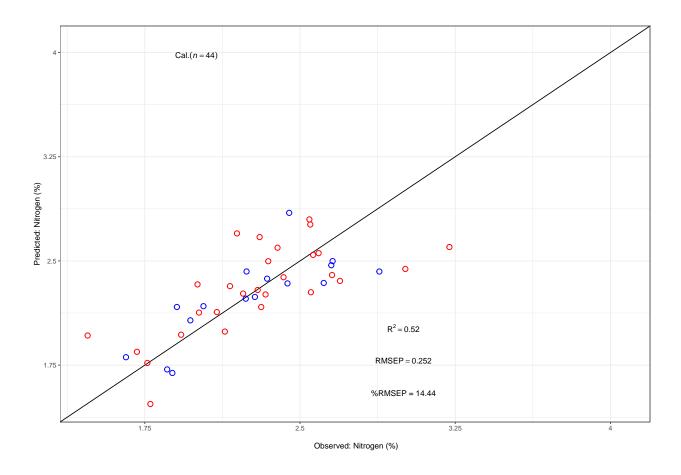


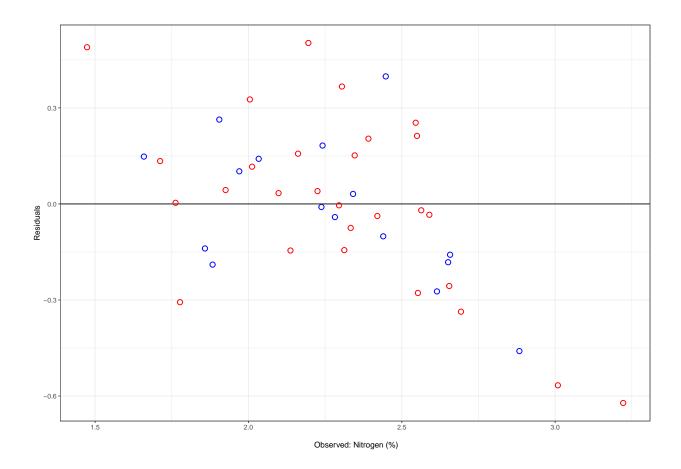


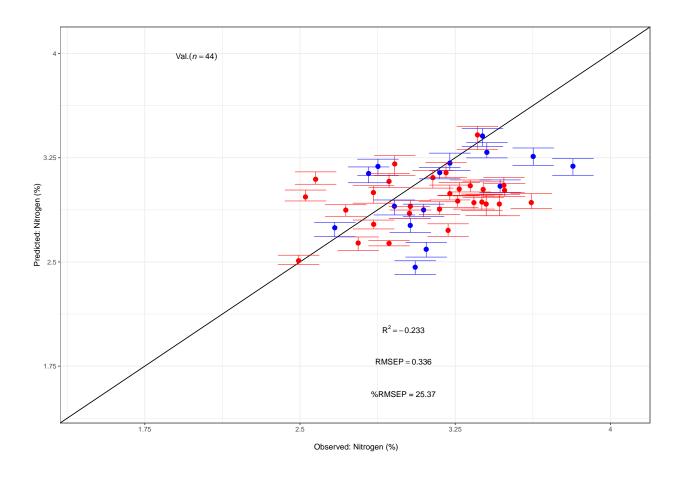


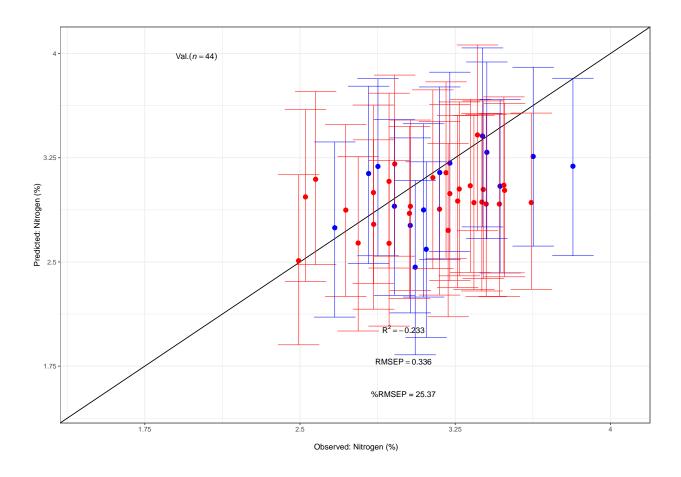
Number of compone

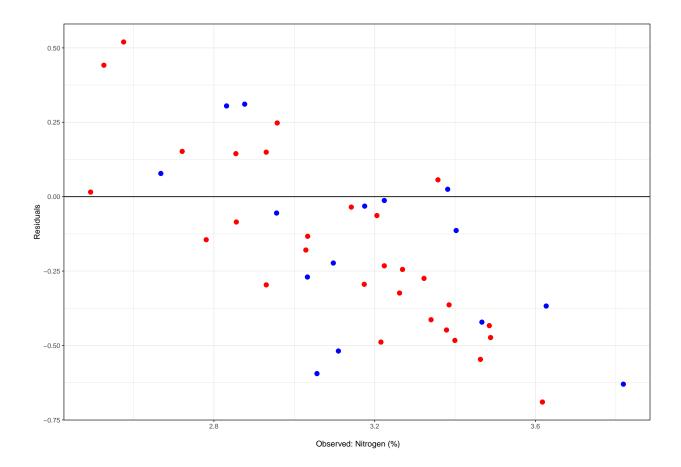
```
data_set
                 R2 RMSEP NRMSEP
## 1
          cal 0.520 0.252 14.438
## 2
         val -0.233 0.336 25.374
     Observed Predicted Residuals Treatment Subpop
                                                                  lci
## 1 3.22395 3.211133 -0.0128165
                                         N1
                                                TRJ 3.283246 3.156722 3.865977
## 2 3.03270
              2.762739 -0.2699613
                                         N1
                                                TRJ 2.813835 2.711992 3.392672
## 3 3.26930
              3.024843 -0.2444567
                                         N1
                                                IND 3.072215 2.979151 3.651566
## 4 2.57540 3.095151 0.5197507
                                         N1
                                                IND 3.148112 3.059428 3.727085
                                                IND 2.984225 2.832078 3.565565
## 5 3.46310
              2.916490 -0.5466097
                                         N1
    3.17410
              2.879677 -0.2944228
                                         N1
                                                IND 2.932831 2.841095 3.512463
##
          lpi
## 1 2.573990
## 2 2.133155
## 3 2.399799
## 4 2.480455
## 5 2.250738
## 6 2.261463
```











```
Iteration Intercept X698.81871 X697.54987 X700.08782 X696.28128
## Seg 1 1 0.6109406 -0.3817508 -0.18410656 -0.5734880 -0.007796566
## Seg 2
              2 0.6575994 -0.2413458 -0.05393606 -0.4241096 0.102504791
## Seg 3
              3 1.3469449 -0.3357308 -0.13746313 -0.5274233 0.035781035
## Seg 4
              4 1.7111459 -0.2732896 -0.06734761 -0.4761471 0.119883428
## Seg 5
                5 0.8932487 -0.3834100 -0.18122778 -0.5786795 -0.002140741
## Seg 6
                6 0.8640388 -0.3274001 -0.12331211 -0.5240077 0.056116699
                 coefs
## 698.81871 -0.3177016
## 697.54987 -0.1192144
## 700.08782 -0.5100813
## 696.28128 0.0557575
## 695.01293 0.2446219
## 701.35718 -0.6902870
```