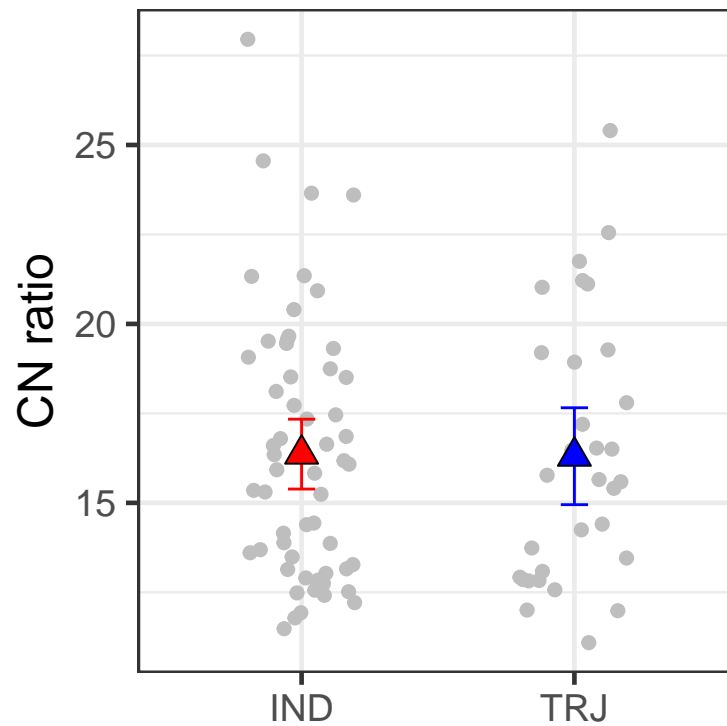


Use side-view HSI data to predict CN ratio from Tropical japonica data

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



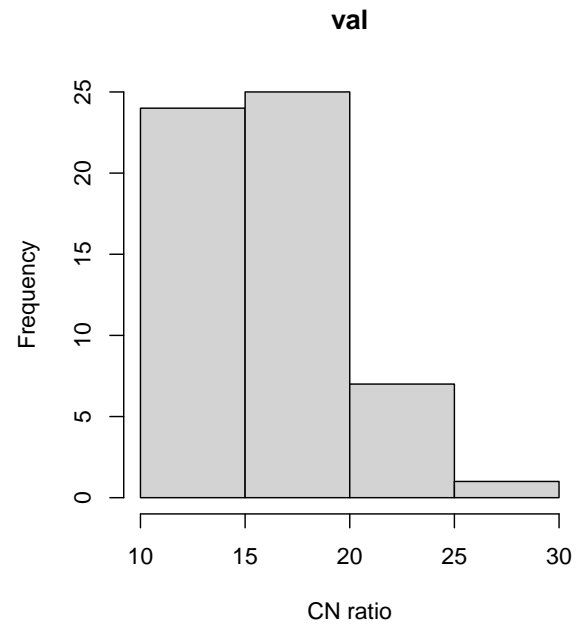
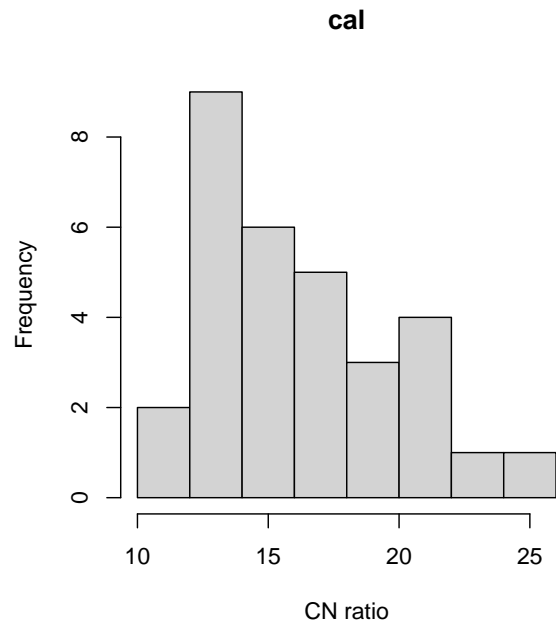
```
## $plsralg
## [1] "oscorespls"
```

```
## [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"
```

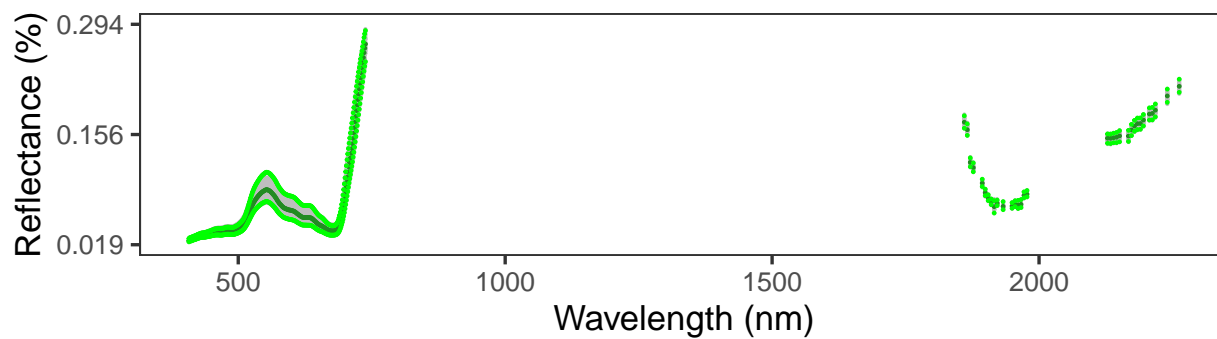
```
## [1] "904" "905" "906" "907" "908" "910" "911" "916" "918" "921" "922" "923"
## [13] "924" "926" "928" "929" "930" "931" "932" "933" "934" "935" "936" "937"
## [25] "940" "941" "942" "944" "947" "951" "953" "955" "956" "958" "959" "962"
## [37] "965" "966" "968" "969" "970" "972" "975" "979" "980"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

```
##          value      wv
```

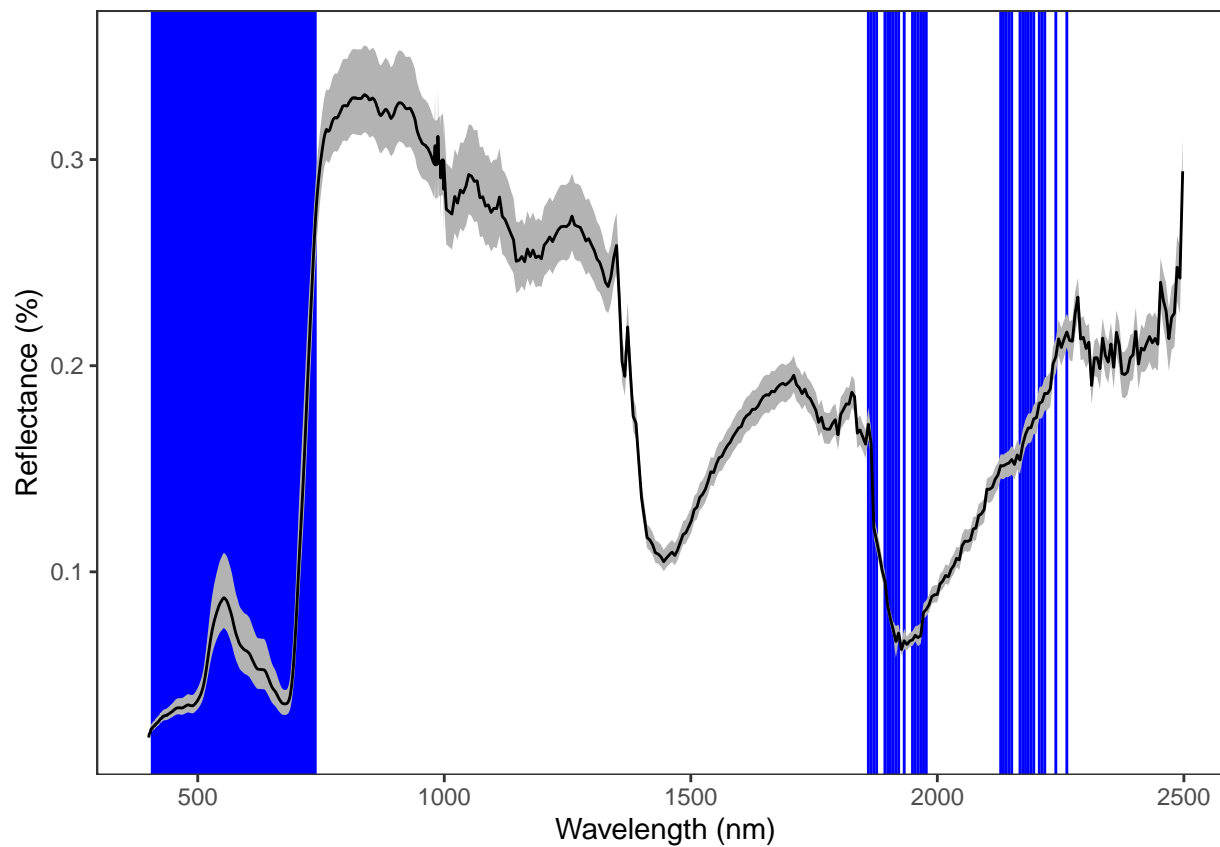
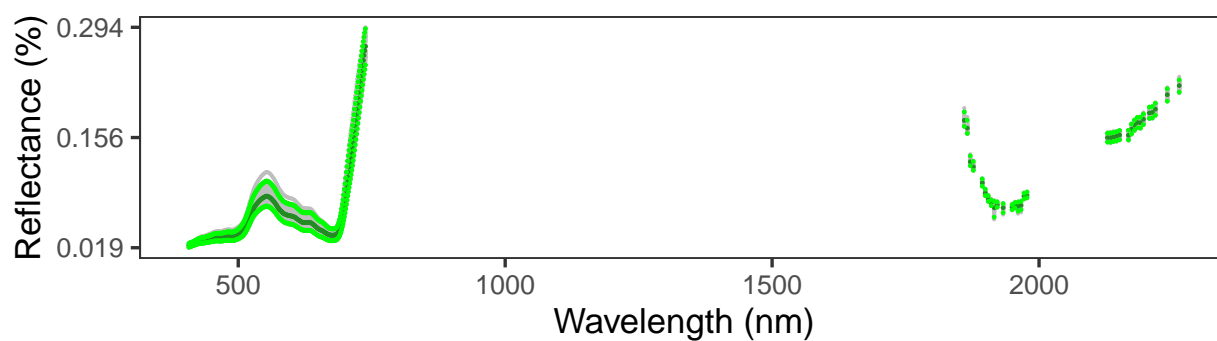
```
## 646 0.05043659 1949.55
## 685 0.04855972 2167.58
## 631 0.04763477 1865.64
## 682 0.04714212 2150.81
## 633 0.04689325 1876.83
## 698 0.04664752 2240.25
```

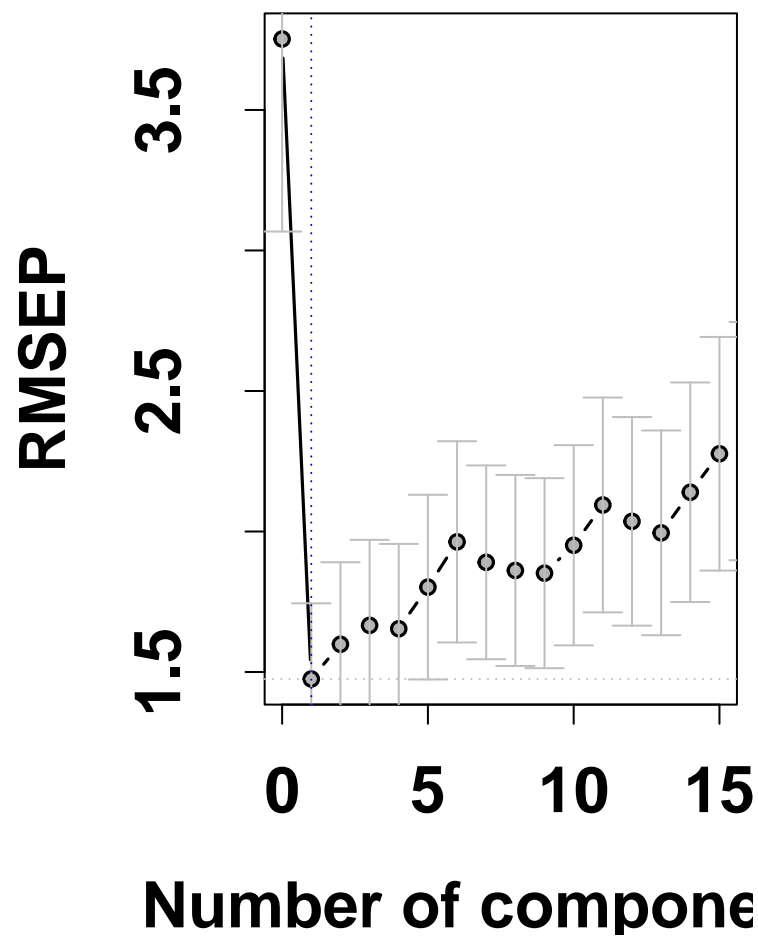


CN TRJ calibration dataset



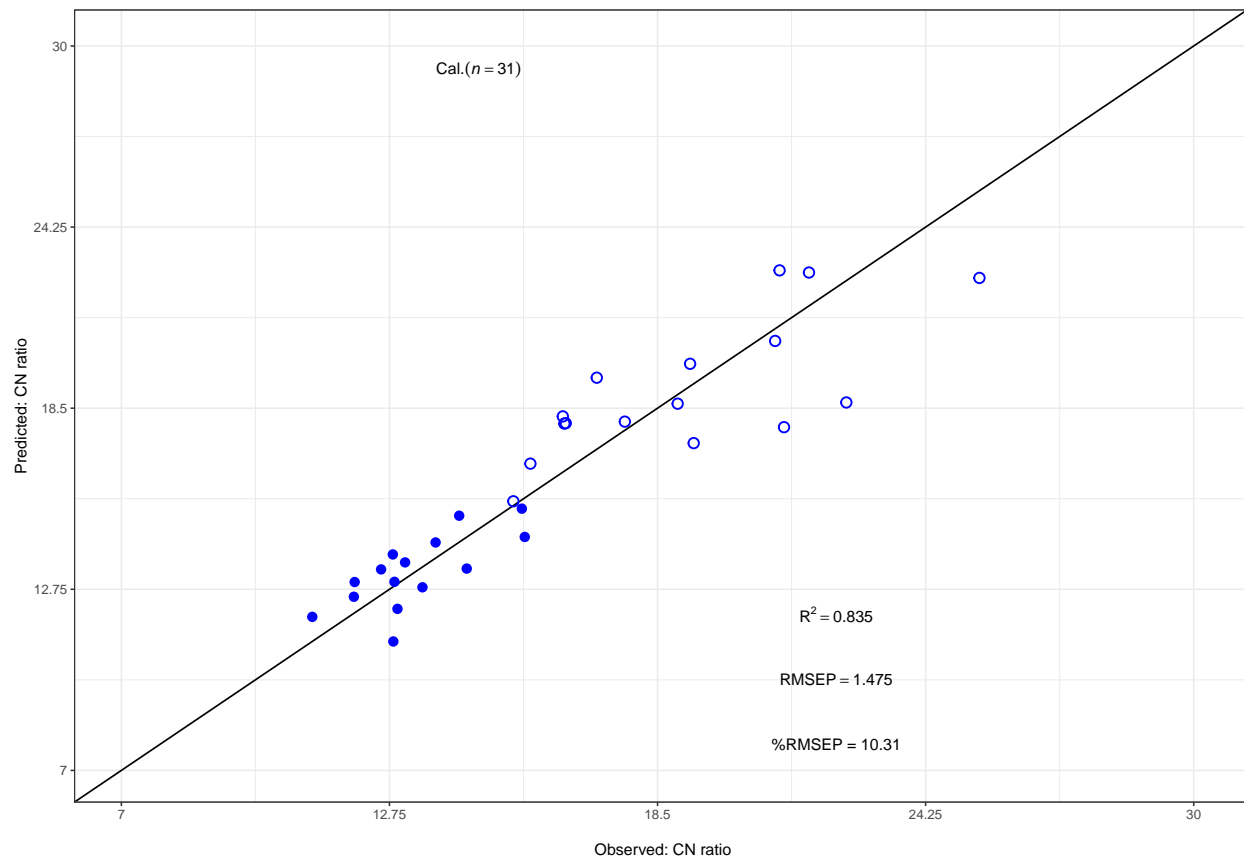
CN TRJ validation dataset

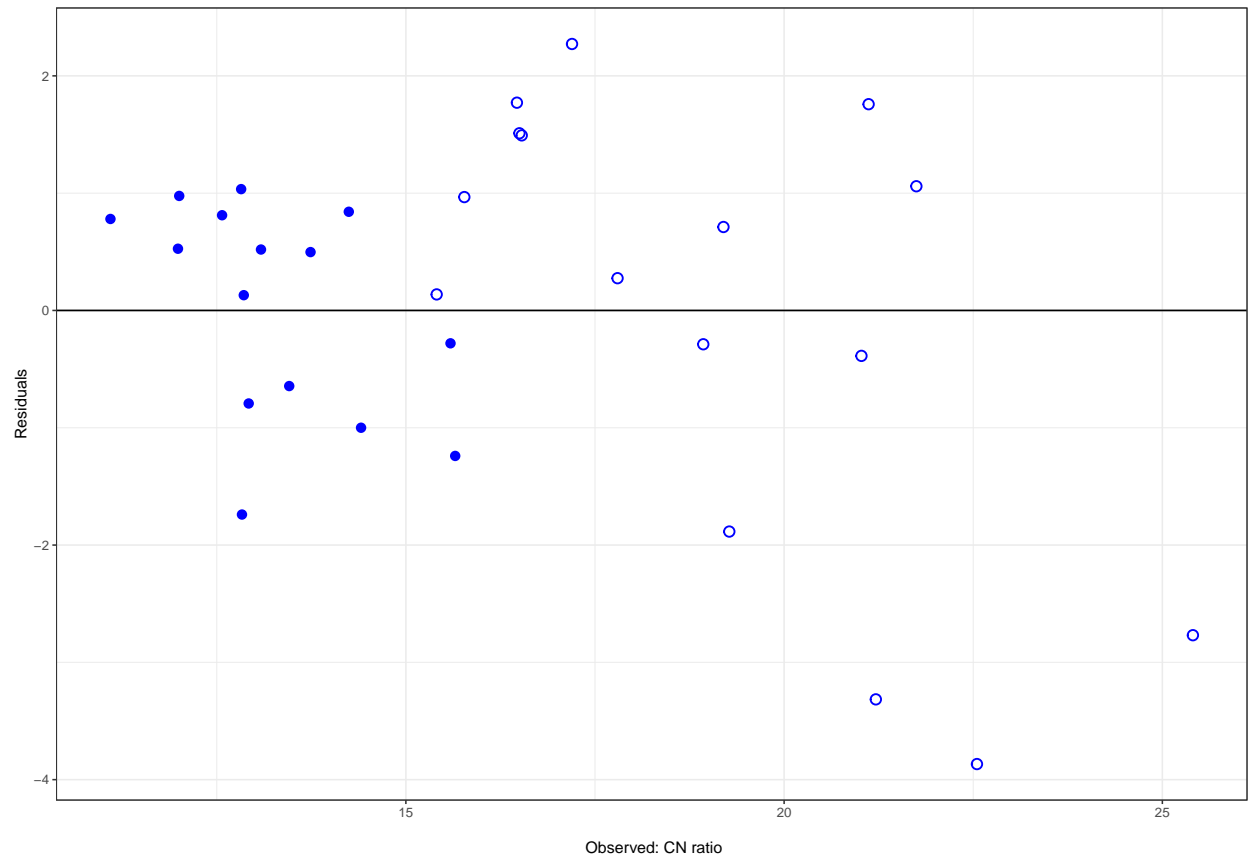


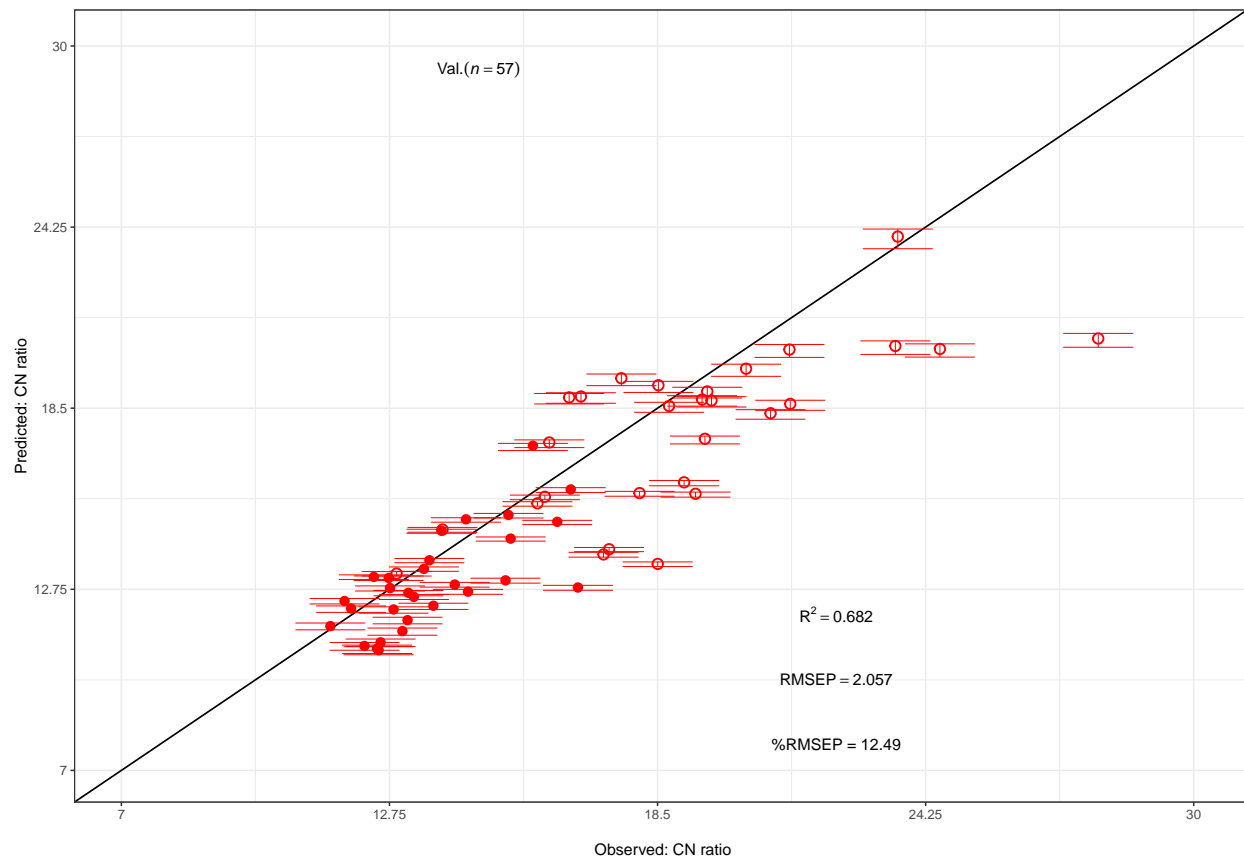


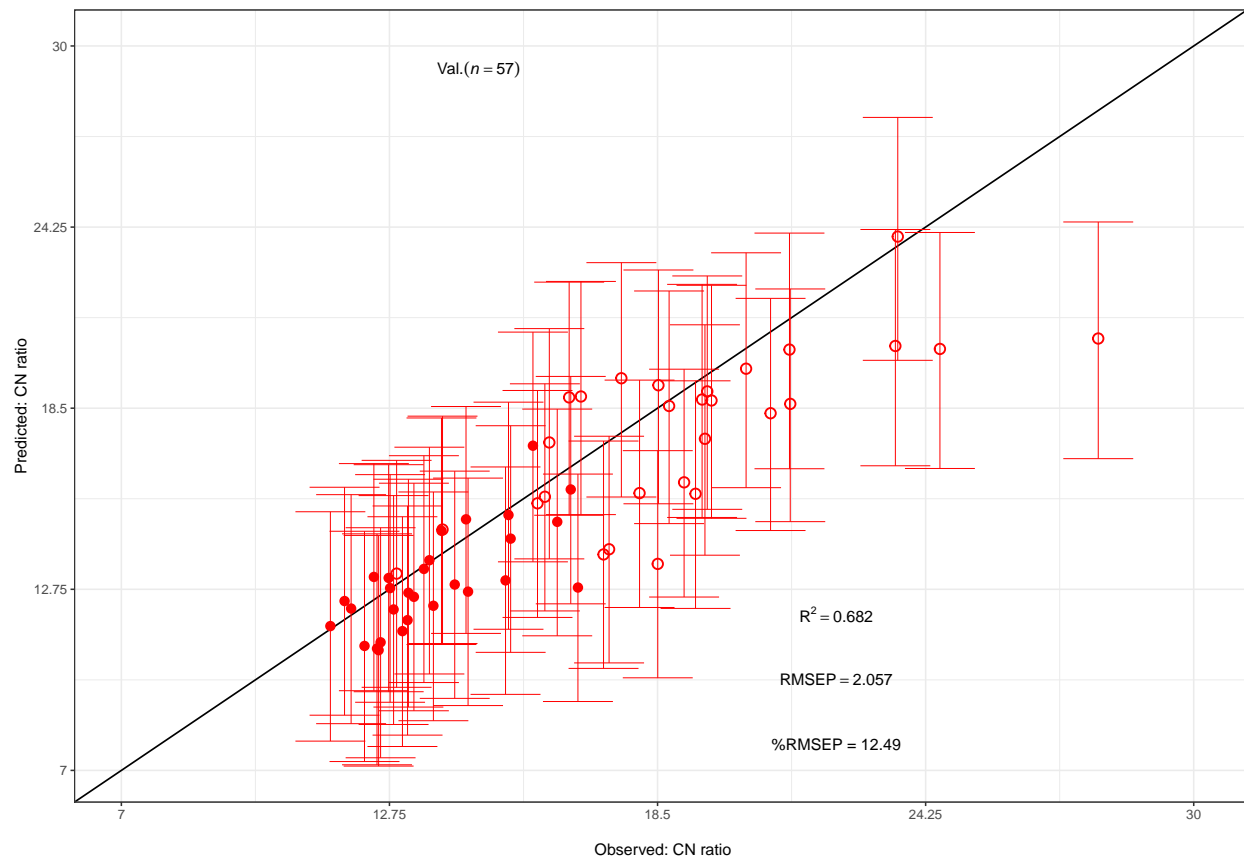
```
## data_set R2 RMSEP NRMSEP
## 1 cal 0.835 1.475 10.309
## 2 val 0.682 2.057 12.489
```

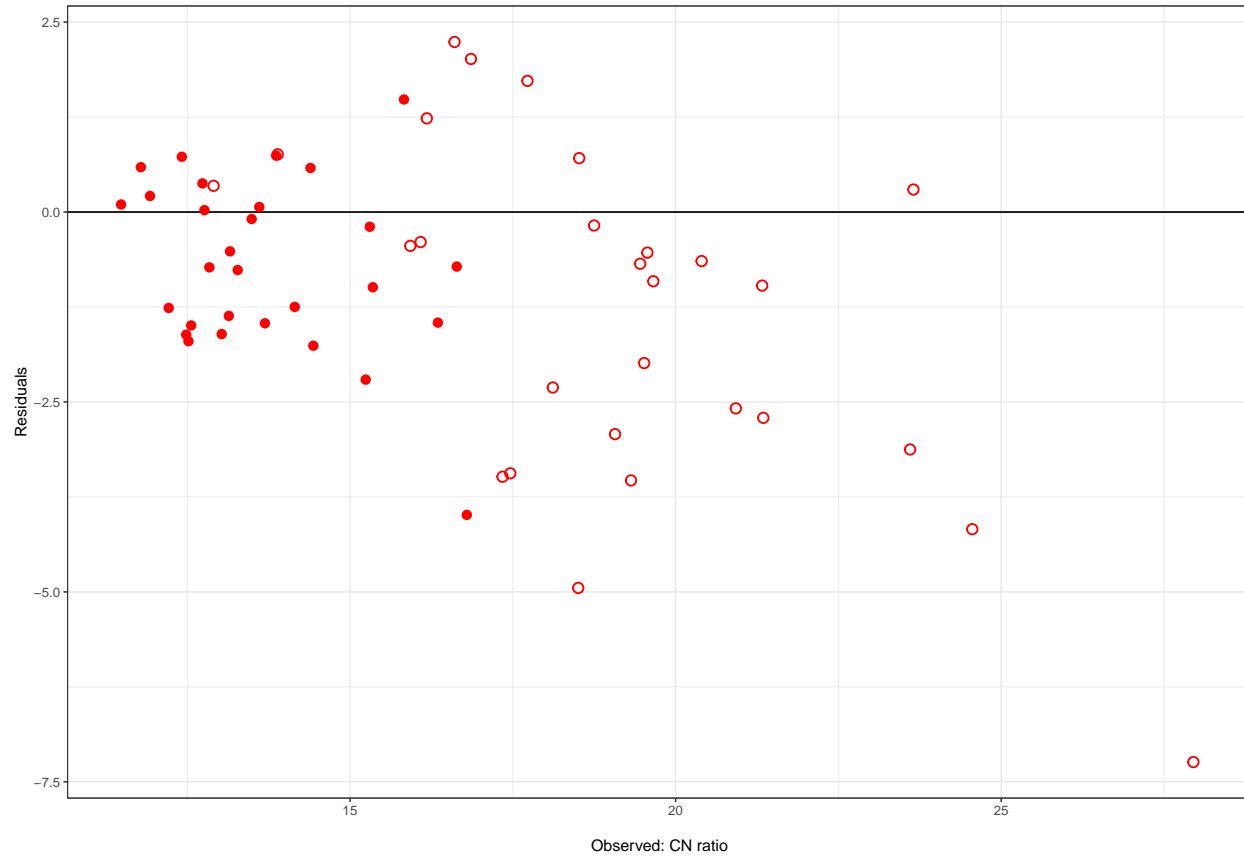
```
## Observed Predicted Residuals Treatment Subpop uci lci upi
## 1 13.13801 11.77061 -1.36740057 N1 IND 11.86256 11.65315 15.39561
## 2 16.79262 12.80589 -3.98672582 N1 IND 12.87593 12.71948 16.40833
## 3 12.51760 10.81713 -1.70047118 N1 IND 10.92710 10.67160 14.46091
## 4 12.41584 13.14272 0.72687449 N1 IND 13.20839 13.06261 16.74066
## 5 11.48295 11.58230 0.09934689 N1 IND 11.67878 11.46279 15.21197
## 6 11.78692 12.37717 0.59024429 N1 IND 12.45736 12.28529 15.98999
## lpi
## 1 8.120103
## 2 9.187076
## 3 7.137785
## 4 9.530345
## 5 7.929597
## 6 8.752661
```











```
##      Iteration Intercept X517.49509 X516.26319 X518.72726 X515.03152
## Seg 1          1 -16.59539   1.297257   1.229301   1.366277   1.166143
## Seg 2          2 -16.24219   1.272135   1.203861   1.341438   1.140553
## Seg 3          3 -16.38347   1.269388   1.200831   1.339062   1.137166
## Seg 4          4 -16.48503   1.275286   1.206927   1.344724   1.143449
## Seg 5          5 -16.62236   1.278465   1.209872   1.348187   1.146114
## Seg 6          6 -17.18156   1.317953   1.248216   1.388643   1.183455
```

```
##      coefs
## 517.49509 1.273888
## 516.26319 1.205818
## 518.72726 1.343074
## 515.03152 1.142592
## 519.95968 1.411430
## 513.80012 1.079847
```