Appendix B – Assessment of Predictive Models

Precision – What percent of predictions were correct?

Precision is the ability of a classifier not to label an instance positive that is negative. For each class it is defined as the ratio of true positives to the sum of true and false positives.

TP – True Positives  
FP – False Positives

Precision – Accuracy of positive predictions  
Precision = TP/(TP + FP)

Recall – What percent of the positive cases did you catch?

Recall is the ability of a classifier to find all positive instances. For each class it is defined as the ratio of true positives to the sum of true positives and false negatives.

FN – False Negatives

Recall: Fraction of positives that were correctly identified  
Recall = TP/(TP+FN)

