

**Table 1: Sensitivity of the different predictor variables on the accuracy for the training sets, the test sets and the final application of the model to the entire study area. The standard deviation of accuracy on training and test sets was of 0.01 for all the models, while the range of the 95 % confidence interval of AUC was of 0.02 for all the models.**

GAM model	Mean accuracy of training sets (-)	Mean accuracy of test sets (-)	Mean AUC of the model (-)
1	0.71	0.70	0.74
2	0.90	0.90	0.94
3	0.82	0.82	0.83
2 - (CURV, HEI, TWI) [threshold of selection equal to 90%]	0.84	0.84	0.88
2 + (CA) [threshold of selection equal to 50%]	0.90	0.90	0.94
2 - (SL)	0.74	0.74	0.78
2 - (CURV)	0.87	0.87	0.92
2 - (HEI)	0.85	0.77	0.91
2 - (CS)	0.79	0.79	0.83
2 - (TWI)	0.88	0.88	0.92
2 - (DIST)	0.75	0.75	0.78
2 - (GEO)	0.84	0.85	0.88
2 + (ASP)	0.90	0.90	0.94
2 + (LEN)	0.90	0.91	0.95