Variable	Response (DCW, 9 months)		Response (CCW, 9 months)	
	Spearman rank correlation	Increase in node purity	Spearman rank correlation	Increase in node purity
Autocovariate	0.79*	0.081	0.53*	0.108
Proportion (%) DCW is of total surface water	0.42*	0.012	−0.11	0.334[1]
Stream density	−0.64*	0.036[1]	−0.15	0.060
Wetland density	0.52*	0.048[1]	0.27	0.057[1]
Wetland areal abundance	0.51*	0.017[1]	0.48*	0.855[1]
Portion of total water from large features	−0.01	0.004	0.30	0.556[1]
Moisture index (average)	−0.03	0.005	−0.28	0.053[1]
Precipitation (average)	−0.10	0.008[1]	−0.33*	0.039[1]
PET (average)	−0.06	0.011[1]	−0.13	0.034
Available water storage (0–150 cm)	0.27	0.007	−0.01	0.061
Annual minimum depth to water table	0.56*	0.027[1]	0.09	0.046
K_{sat}	0.04	0.004	−0.08	0.070[1]
Slope gradient, weighted average	−0.59*	0.025[1]	−0.22	0.072
Agricultural land cover	0.31	0.005	−0.05	0.035
Percent drained by anthropogenic means	0.22	0.004	−0.04	0.020

[1] Variables selected by the random forest model selection process, using the R package rfUtilities, when the autocovariate was not included.
* Significant correlations ($p < 0.05$).