

Filtering, niche partitioning, and riparian guilds

Appendix C. Goodness-of-fit statistics for environmental filters and riparian guilds fit to the NMDS ordination solution for guild assemblages. These filters and guilds are plotted to the ordination solution in figure three. Filters followed by ^ were not used in conditional inference trees or generalized linear models due to collinearity with other variables or a lack of initial hypotheses on how the filter would correlate to riparian guild distributions.

Scale	Variable	R^2	P
Landscape -scale filters	AnnPrecip	0.04	0.0001
	AvgPrecip^	0.05	0.0001
	AvgTemp	0.03	0.0001
	MeanElev^	0.08	0.0001
	MinElev	0.12	0.0001
	MaxElev^	0.08	0.0001
Watershed - and buffer- scale filters	StreamDens^	0.01	0.1793
	BufRoads	0.03	0.0004
	BufForested	0.06	0.0001
	BufSlope	0.15	0.0001
	BufGrazed	0.04	0.0001
	Watershed Area	0.03	0.0003
	Watershed Burned	<0.01	0.6537
	AvgWaterTable	0.01	0.0221
	AvgSoilThick	0.01	0.0480
Stream- scale filters	BankStability^	0.02	0.0078
	Gradient	0.08	0.0001
	Sinuosity	0.09	0.0001
	BFWidth	0.04	0.0001
	Hydraulic Radius	0.02	0.0041
	Bank Angle	0.02	0.0123
	WetWDRatio	0.02	0.0053
	UndercutBank	0.01	0.0174
Riparian guilds	Evergreen tree	0.06	0.0001
	Upland disturbance	0.35	0.0001
	Mesic shrub	0.09	0.0001
	Understory shrub	0.32	0.0001
	Mesoriparian shrub and tree	0.33	0.0001