Appendix 1: Environmental variables, mean and range for both Plains and Ozarks subregions of Missouri, and associated units which were used for the creation of species distribution models.

Variable	Code	Plains	Ozarks	Units
Ecological Drainage Unit	EDU			Categorical
Aquatic Ecological System Type	AES			Categorical
Strahler Stream Order	SO	3.3 (2-5)	3.7 (2-5)	Continuous Categorical
Downstream Size	DS	2.4 (2-4)	2.4 (2-5)	Continuous Categorical
Reach Gradient	RG	1.9 (0-21.9)	2.6 (0-18.2)	m/km
Segment Gradient	SG	1.7 (0-8.6)	2.6 (0-9)	m/km
Local Geological Classification	GEO			Categorical
Urban Landcover- Local	URB_L	0.5 (0-54)	0.8 (0-80)	% of Local Watershed Area
Agricultural Landcover- Local	AG_L	33 (0-100)	6 (0-95)	% of Local Watershed Area
Grassland Landcover- Local	GRS_L	41 (0-100)	42 (0-100)	% of Local Watershed Area
Forest Landcover- Local	FOR_L	24 (0-100)	49 (0-100)	% of Local Watershed Area
Wetland Landcover- Local	WET_L	0.3 (0-31)	0 (0-2)	% of Local Watershed Area
Agricultural Landcover- Upstream	AG_U	34 (1-92)	6 (0-83)	% of Upstream Watershed Area
Grassland Landcover- Upstream	GRS_U	48 (6-92)	45 (1-94)	% of Upstream Watershed Area
Forest Landcover- Upstream	FOR_U	15 (1-57)	48 (2-99)	% of Upstream Watershed Area
Wetland Landcover- Upstream	WET_U	0 (0-2)	0 (0-0.3)	% of Upstream Watershed Area
Number of Springs- Local	SPR_L	0.02 (0-3)	0.13 (0-6)	Count
Number of Springs- Upstream	SPR_U	0.66 (0-66)	9.37 (0-163)	Count
Number of Dams per KM^2- Local	DAM_L	0.01 (0-0.88)	0.01 (0-0.97)	Ratio in Local Watershed Area
Number of Dams per KM^2- Upstream	DAM_U	0.03 (0-0.29)	0.02 (0-0.4)	Ratio in Upstream Watershed Area
% Local Catchment in Headwater Impoundments	HI_L	0.41 (0-30)	0.21 (0-3.8)	% Local Watershed Area
% Upstream Catchment in Headwater Impoundments	HI_U	0.59 (0-1.63)	0.41 (0-2.11)	% Upstream Watershed Area
Number of Road/Stream Crossings per KM^2- Local	RS_L	0.8 (0-74.0)	1.2 (0-65.4)	Ratio in Local Watershed Area
Number of Road/Stream Crossings per KM^2- Upstream	RS_U	0.5 (0-2.0)	0.5 (0-2.1)	Ratio in Upstream Watershed Area
Local Habitat Threat Index Score	HTI_L	32 (4-73)	29 (0-67)	Value
Upstream Habitat Threat Index Score	HTI_U	42 (13-85)	37 (1-83)	Value
Percent of the Local Riparian Intact	LRI	31 (0-100)	56 (0-100)	% of Local Riparian Not Classified as Agriculture or Urban