Appendix H. Metric Parameterizations.

The following appendix is from the report "Conservation Assessment and Prioritization System (CAPS) Preliminary Statewide Massachusetts Assessment", June 2, 2009. Kevin McGarigal, Bradley W. Compton, Scott D. Jackson, and Kasey Rolih. Landscape Ecology Program, Department of Natural Resources Conservation, University of Massachusetts, Amherst.

This table gives relative weights for each metric by community.

	Development & roads	Habitat loss	Watershed habitat loss	Wetland buffer insults	Road traffic intensity	Microclimate alterations	Pollution	Road salt intensity	Sedimentation	Nutrient loading	Point-source pollution	Biotic alterations	Domestic predators	Edge predators	Non-native invasive plants	Non-native invasive earthworms	Hydrological alterations	Imperviousness	Percent impounded	Upstream road crossings	Dam intensity	Resiliency metrics	Connectedness	Similarity
Terrestrial																								
Forest		2			2	1							1	2	2	2							5	3
Deciduous forested wetland		2		1	2	1		1	1	1	1			1	2	1							4	2
Mixed forested wetland		2		1	2	1		1	1	1	1			1	2	1							4	2
Coniferous forested wetland		2		1	2	1		1	1	1	1			1	2	1							4	2
Powerlines		4			2								1	2	2	1							5	3
Open land		4			2								1	2	2	1							5	3
Pasture		4			2								1	2	2								5	4
Sea cliff		4												1	1								2	1
Barrier beach system		4			2									2	1								2	1
Coastal dune		4			2									3	1								2	1
Barrier beach coastal beach		4			2									3	1								2	1
Barrier beach coastal dune		4			2									3	1								2	1
Palustrine																								
Bog		2		2	1			2	1	2	1			1	1			1					4	2
Deep marsh		2		2	2			1	1	1	1			1	2			1					4	2
Shallow marsh		2		2	2			1	1	1	1			1	2			1					4	2
Shrub swamp		2		2	2			1	1	1	1			1	2			1					4	2

	Development & roads	Habitat loss	Watershed habitat loss	Wetland buffer insults	Road traffic intensity	Microclimate alterations	Pollution	Road salt intensity	Sedimentation	Nutrient loading	Point-source pollution	Biotic alterations	Domestic predators	Edge predators	Non-native invasive plants	Non-native invasive earthworms	Hydrological alterations	Imperviousness	Percent impounded	Upstream road crossings	Dam intensity	Resiliency metrics	Connectedness	Similarity
Pond		2		2	2			1	1	2	1			1	1			1					4	2
Vernal pool		2			2			2	1	1	1			1	1			1					4	2
Cranberry bog		2		2	2			2	1	2	1			1	2			1					4	2
Lacustrine																								
Lake		2		2	1			1	1	2	2			1	1			1					4	2
Reservoir		2		2	1			1	1	2	2			1	1			1					4	2
Riverine																								
First order streams					1	1			1	1	1			1	1			2	1	1	1		6	
Second order streams					1	1			1	1	1			1	1			2	1	1	1		6	
Third order streams					1	1			1	1	1			1	1			2	1	1	1		6	
Fourth order streams					1				1	1	1			1	1			2	1	1	2		6	
Fifth order streams					1				1	1	1			1	1			2	1	1	2		6	
Sixth order streams					1				1	1	1			1	1			2	1	1	2		6	
Estuarine																								
First order estuary					1				1	1	1			1	1			1	1	1	1		6	
Second order estuary					1				1	1	1			1	1			1	1	1	1		6	
Third order estuary					1				1	1	1			1	1			1	1	1	1		6	
Fourth order estuary					1				1	1	1			1	1			1	1	1	2		6	
Fifth order estuary					1				1	1	1			1	1			1	1	1	2		6	
Sixth order estuary					1				1	1	1			1	1			1	1	1	2		6	
Salt pond		2		2	2				1	2	1			1				1					4	2
Bay					1				1	1	3												6	
Barrier beach pond		2		2	2				1	2	1			1	1			1					4	2
Salt marsh		2	2	2	1				1		2			1				1					3	3
Barrier beach bog		2		2	1				1	2	1			1	1			1					4	2
Barrier beach deep marsh		2		2	2				1	1	1			1	2			1					4	2
Barrier beach marsh		2		2	2				1	1	1			1	2			1					4	2
Barrier beach shrub swamp		2		2	2				1	1	1			1	2			1					4	2
Barrier beach deciduous		1		1	2	1			1	1	1			1	2								4	2

	Development & roads	Habitat loss	Watershed habitat loss	Wetland buffer insults	Road traffic intensity	Microclimate alterations	Pollution	Road salt intensity	Sedimentation	Nutrient loading	Point-source pollution	Biotic alterations	Domestic predators	Edge predators	Non-native invasive plants	Non-native invasive earthworms	Hydrological alterations	Imperviousness	Percent impounded	Upstream road crossings	Dam intensity	Resiliency metrics	Connectedness	Similarity
forested wetland																								
Barrier beach mixed forested wetland		2		1	2	1			1	1	1			1	2								4	2
Barrier beach coniferous forested wetland		2		1	2	1			1	1	1			1	2								4	2
Barrier beach salt marsh		2	2	2	1				1		2			1				1					3	3
Marine																								
Coastal beach		4			2									3	1								2	1
Rocky intertidal		2							1		1												2	1
Tidal flat		2							1	1	3												1	2