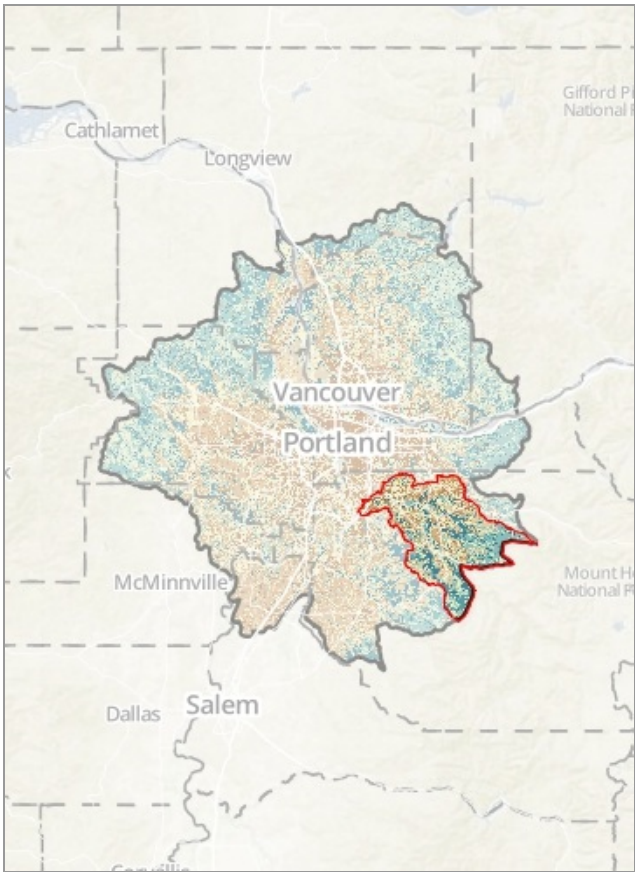
Regional Conservation Strategy

Area Report

About This Report

The data contained in this report resulted from an effort by the Intertwine Alliance to identify habitat locations of high conservation value in the Portland-Vancouver metropolitan region. This Regional Conservation Strategy data is unique for our area because it covers the whole Portland-Vancouver metropolitan region, scores habitat quality according to parameters important to our region, includes urban areas, and uses new, high quality, high spatial resolution data.

Selection Overview:
Clackamas Sub Basin (partial)



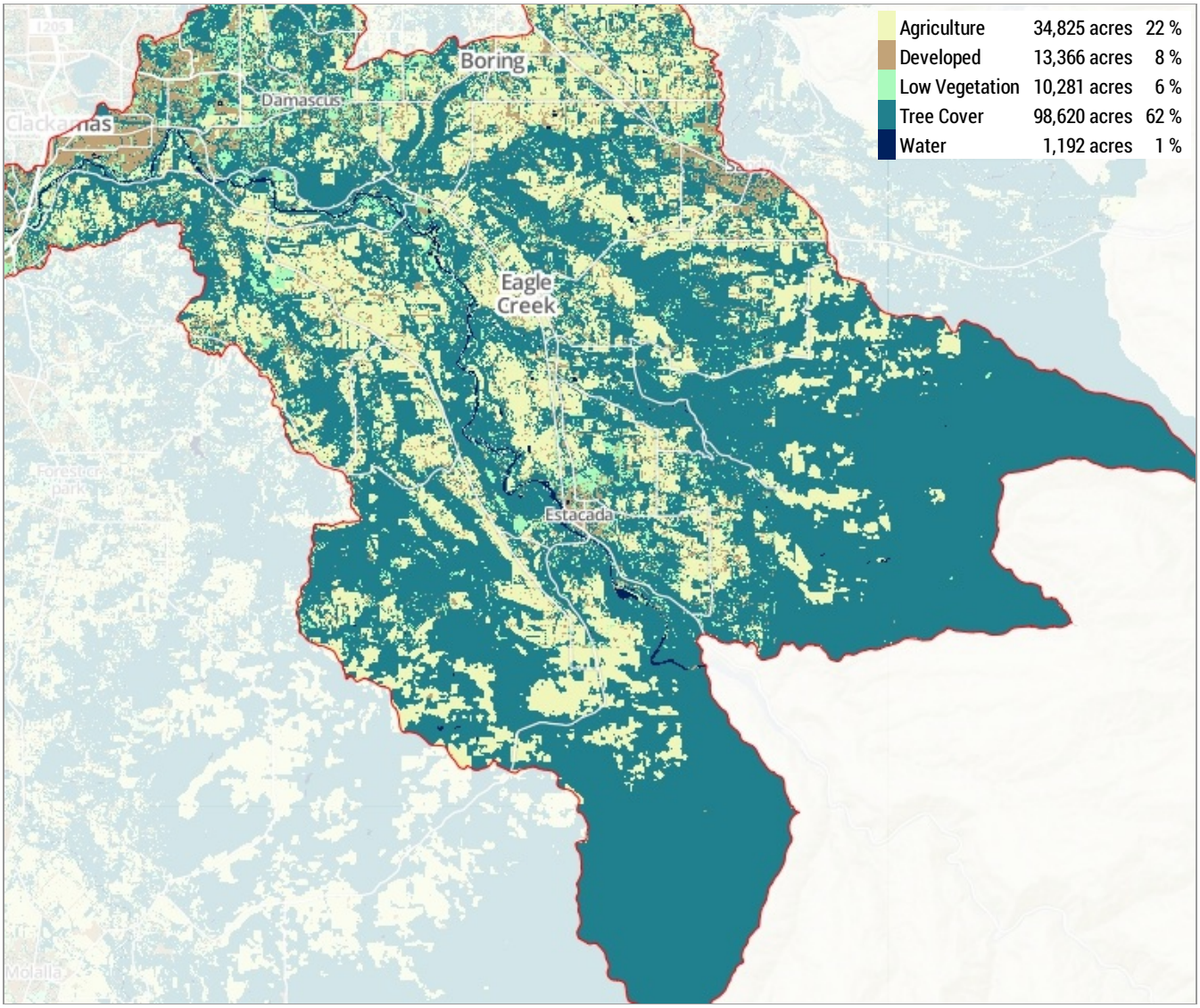
Clackamas Sub Basin (partial)

The selected area is 158,284 acres within the RCS extent.

This makes up 8.7% of the RCS region.

- The RCS region is 1,829,640 acres and was delineated using Watershed and Sub Watershed boundaries.
- The RCS region spans two states and has portions of ten counties within it.
- Elevation within the RCS region ranges from sea level to just over 4,000 feet.

Land Cover



The land cover is summarized at 5 meter pixels. The land cover layer was derived by combining LiDAR with other types of remote sensing imagery and classifying similar signatures into five land cover classes.

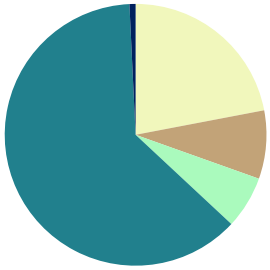
Some quirks of how the data was classified to keep in mind include: lawns, recreational fields, golf courses, and vineyards were usually classified as low vegetation; orchards, tree farms, and street trees were included in the tree cover category; and native prairie, oaks, and old-growth forest were not specifically called out.

For more information, see Appendix A of the Regional Conservation Strategy.

Land Cover

Clackamas Sub Basin (partial)

	Acres	Percent
Agriculture	34,825 acres	22 %
Developed	13,366 acres	8 %
Low Vegetation	10,281 acres	6 %
Tree Cover	98,620 acres	62 %
Water	1,192 acres	1 %



Regional

	Acres	Percent
Agriculture	34,825 acres	22 %
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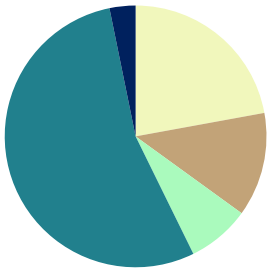
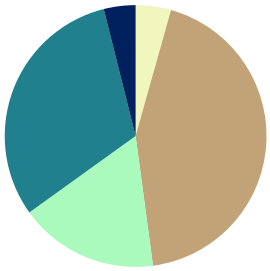
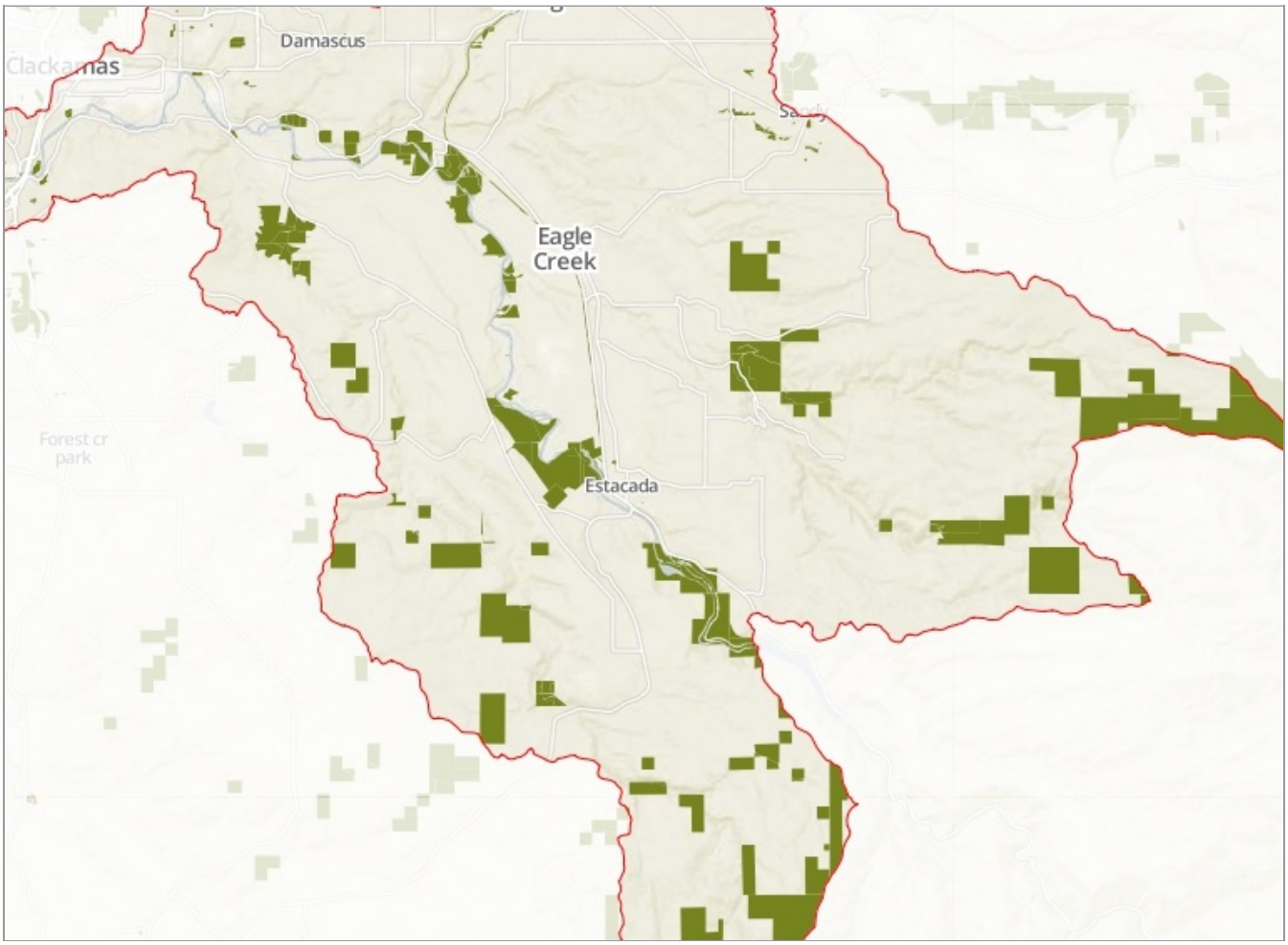


Urban

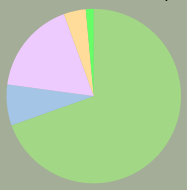
	Acres	Percent
Agriculture	34,825 acres	22 %
Developed	13,366 acres	8 %
Low Vegetation	10,281 acres	6 %
Tree Cover	98,620 acres	62 %
Water	1,192 acres	1 %



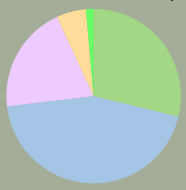
Parks & Natural Areas



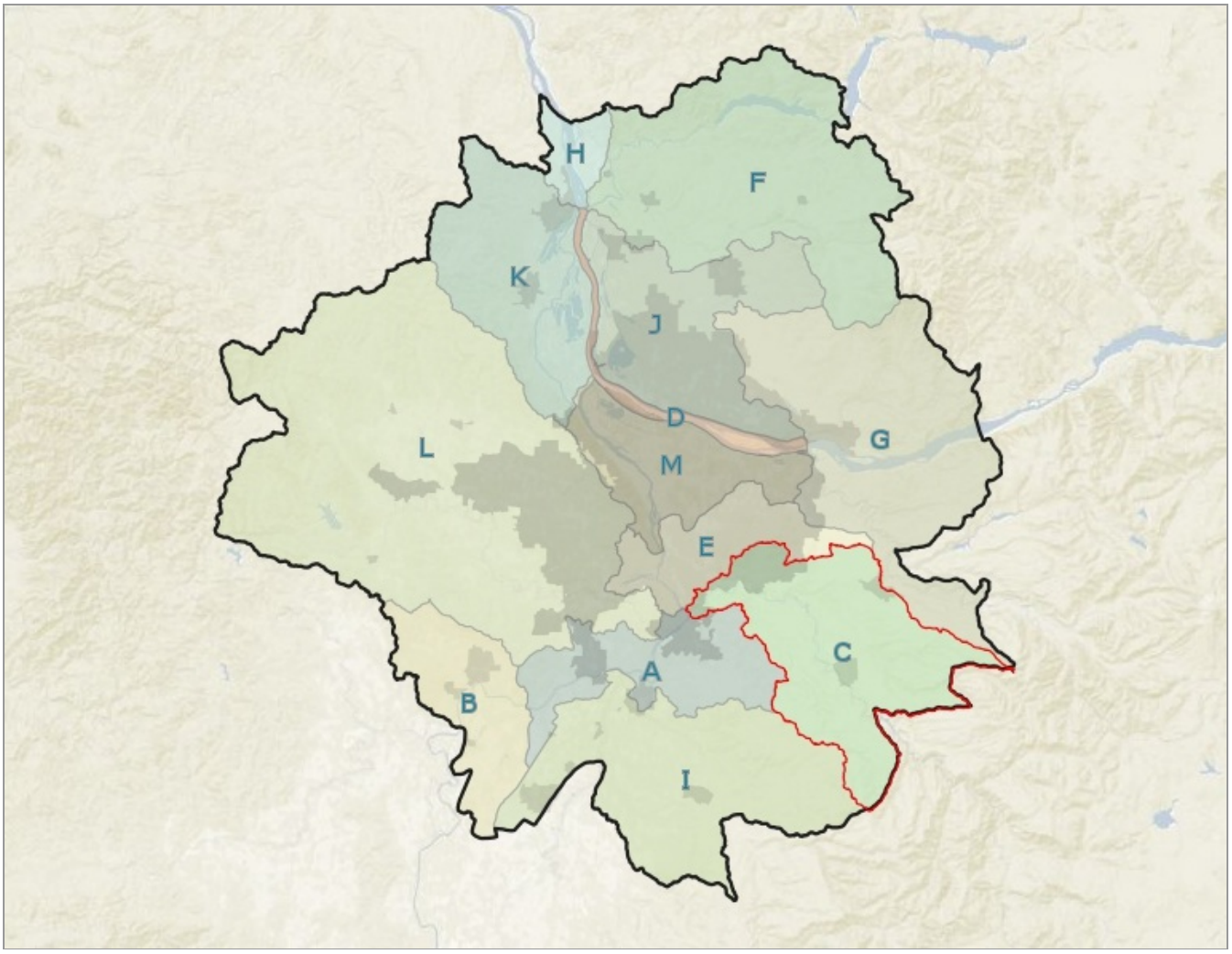
Clackamas Sub Basin (partial)	Acres	Percent
Parks & Natural Areas	16,032 acres	10 %
Public and/or Protected Lands	15,639 acres	10 %
Federal	10,880 acres	7 %
Local	2,707 acres	2 %
Non-Profit	229 acres	0 %
Special District	639 acres	0 %
State	1,184 acres	1 %



Regional	Acres	Percent
Parks & Natural Areas	236,473 acres	13 %
Public and/or Protected Lands	253,684 acres	14 %
Federal	73,056 acres	4 %
Local	50,715 acres	3 %
Non-Profit	3,595 acres	0 %
Special District	13,871 acres	1 %
State	112,446 acres	6 %



Watershed Map



RCS Defined Watersheds

A - Abernethy Creek-Willamette River Watershed (87,000 ac)
See page 290 of the Biodiversity Guide

B - Chehalem Creek-Willamette River Watershed (78,000 ac)
See page 294 of the Biodiversity Guide

C - Clackamas Sub Basin * (158,500 ac)
See page 235 of the Biodiversity Guide

D - Hayden Island-Columbia River Watershed (18,500 ac)
See page 284 of the Biodiversity Guide

E - Johnson Creek Watershed (60,000 ac)
See page 272 of the Biodiversity Guide

L - Tualatin Sub Basin (453,500 ac)
See page 303 of the Biodiversity Guide

* Represents a partial sub-basin

F - Lewis Sub Basin * (210,000 ac)
See page 240 of the Biodiversity Guide

G - Lower Columbia-Sandy Sub Basin * (217,500 ac)
See page 246 of the Biodiversity Guide

H - Lower Columbia-Slatskanie Sub Basin * (22,000 ac)
See page 246 of the Biodiversity Guide

I - Molalla-Pudding Sub Basin * (181,000 ac)
See page 297 of the Biodiversity Guide

J - Salmon Creek-Frontal Columbia River Watershed (131,500 ac)
See page 276 of the Biodiversity Guide

K - Scappoose Creek-Frontal Columbia River Watershed (181,000 ac)
See page 280 of the Biodiversity Guide

M - Willamette River-Frontal Columbia River Watershed (78,000 ac)
See page 284 of the Biodiversity Guide

High Value Habitat Data

The Regional Conservation Strategy High Value Habitat maps show the locations of the best available habitat in your area using criteria important to the region as a whole.

The underlying habitat scores were determined using a model and data that reflects the Regional Conservation Strategy. The model that produced the habitat scores took into account both riparian areas and habitats across the whole region. Across the whole region, the model assigned scores based on the presence of habitat interior, influence of roads, total patch area, relative patch area, habitat permeability to wildlife, wetlands, and hydric soils. The scores for the riparian areas took into account surface runoff with land cover types, floodplains, distance from streams, and distance from wetlands. The riparian and whole region habitat scores were combined into one dataset using a weight of 0.25 for the riparian layer and 0.75 for the whole region layer. See page 172 of the Biodiversity Guide for more information.

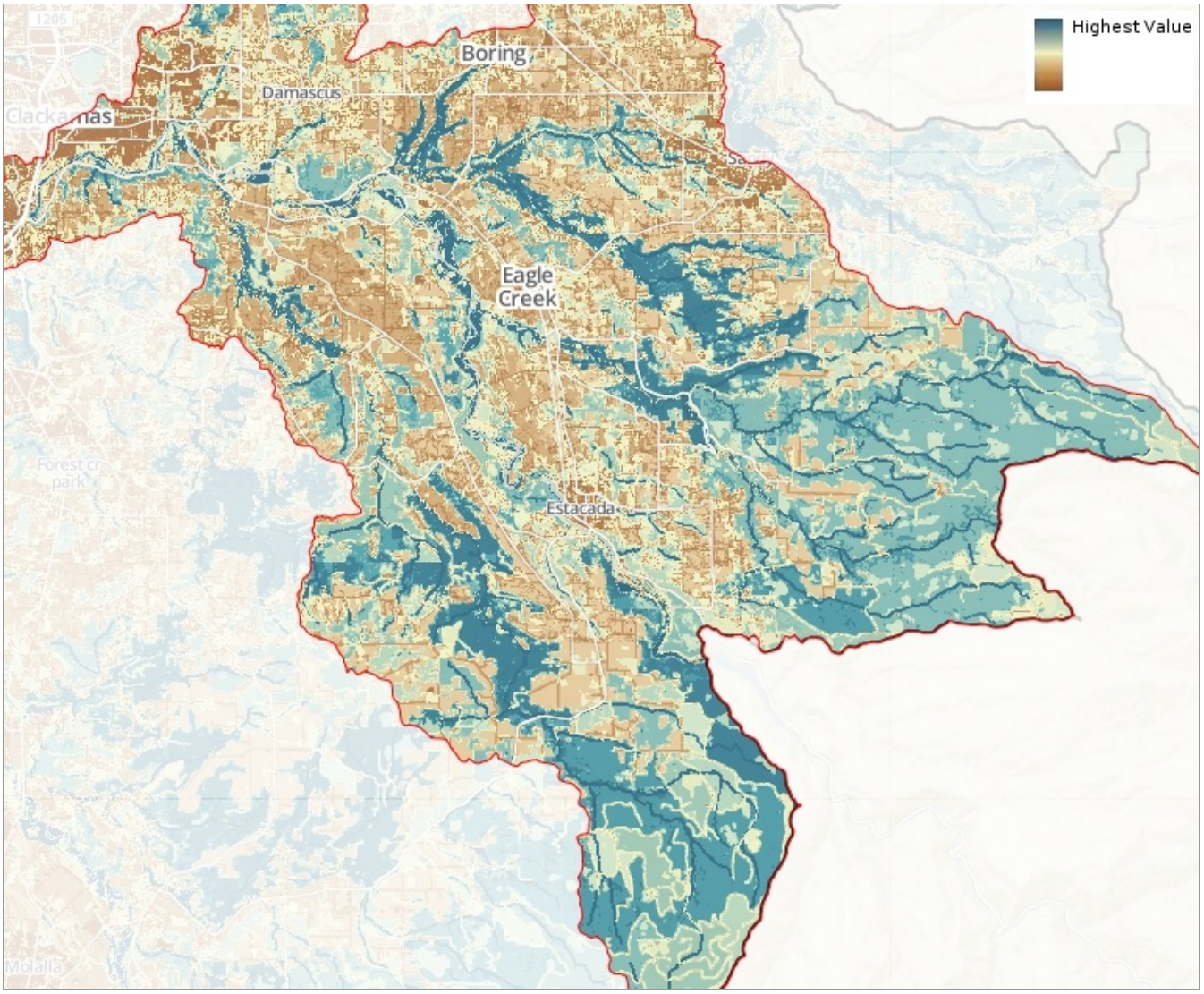
The resulting dataset is a raster - a grid of pixels, each with one value. We chose not to create uniform polygons representing conservation priority areas because what each organization would consider a priority area depends upon the scale as well as the location of where they are working. We instead wanted organizations to be able to see the highest value habitats specific to their area of interest.

Therefore, the colors on the web viewer are showing percentages by area, instead of the raw habitat scores on which the percentages are based. In this way, you are viewing the habitat scores relative only to the other habitats in the area. For example, the high value habitat layer, which we defined as being the top 25% of habitat, will always be about 25% of the area of a selected area.

Some limitations of the model used to create the habitat scores to keep in mind include:

- This data is a snapshot in time of high value habitat.
- The data has a resolution of 5 meters. For a region-wide effort, this is fine-scale data. In some places in the region, data being compiled for the model inputs was available at an even finer resolution. However, since data at this scale wasn't available everywhere, data across the region had to be summarized into 5m pixels.
- Since the high value habitat scores were calculated using one model for the whole region, this data is intended to complement local efforts to prioritize areas for conservation.
- The land cover data was not able to differentiate some important habitat types, including prairie and oak, from similar land cover.

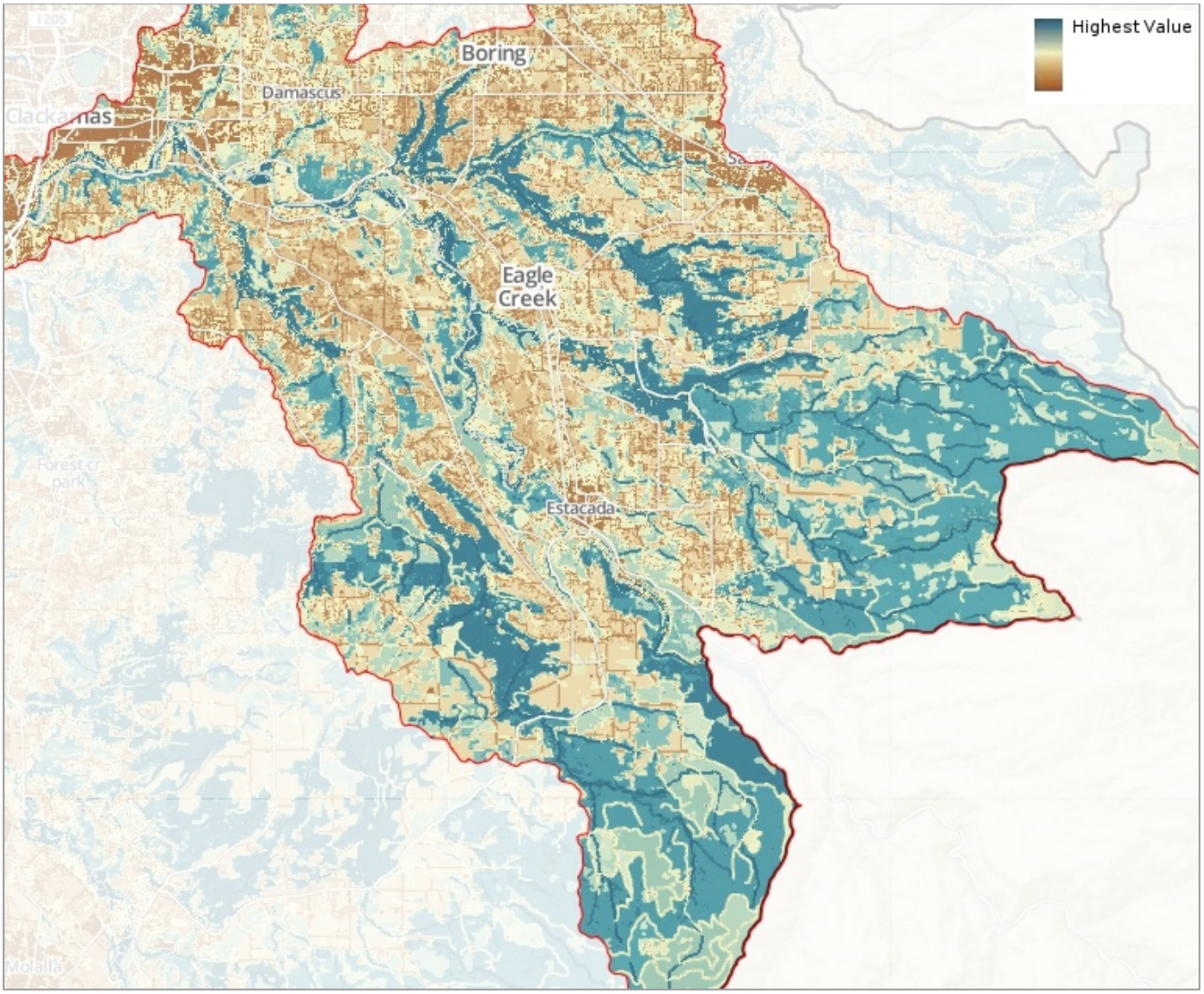
High Value Habitats: Regional



This map shows the habitat values scaled to region-wide habitat scores. The highest value habitat shows at most the top 10% of habitat relative to the habitat scores in your selected area, and the high value habitat shows at most the top 25% of habitat relative to the habitat scores in your selected area.

See Appendix B, Page 72, of the Regional Conservation Strategy for more information on the model used to score habitat.

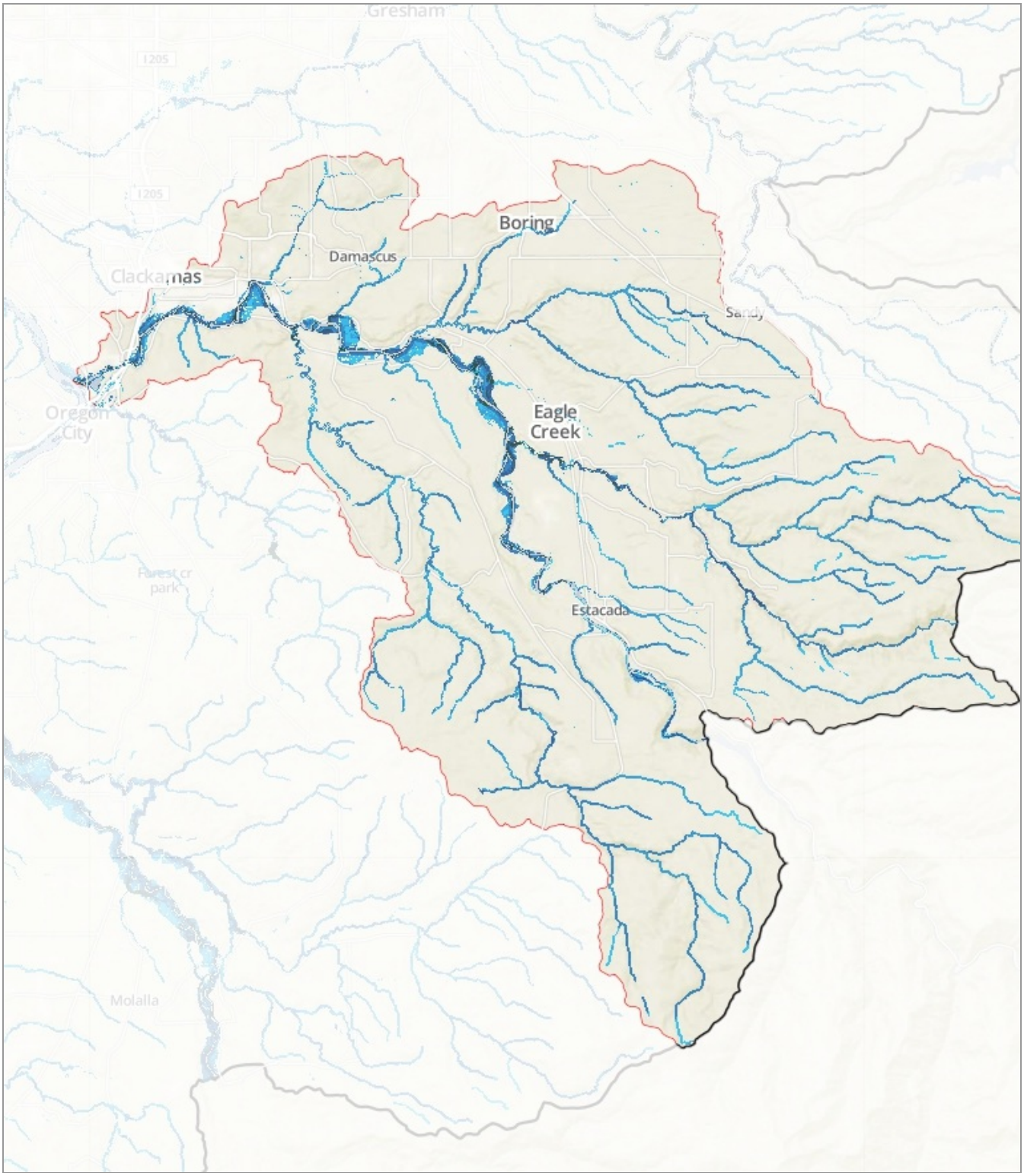
High Value Habitats: Local



This map shows the habitat values scaled to the habitat scores within your selected area. The highest value habitat shows at most the top 10% of habitat relative to the habitat scores in your selected area, and the high value habitat shows at most the top 25% of habitat relative to the habitat scores in your selected area.

See Appendix B, Page 72, of the Regional Conservation Strategy for more information on the model used to score habitat.

Custom Map


Gresham
1205
1205
Boring
Damascus
Clackamas
Sandy
Oregon City
Eagle Creek
Forest cr park
Estacada
Molalla