

Ecosystem Services Mapping in Puget Sound, Washington, USA

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updated May 27th, 2009



Action Agenda

The Puget Sound Action Agenda is a strategy for cleaning up, restoring, and protecting Puget Sound by 2020

PugetSoundPartnership
our sound, our community, our chance

InVEST Tool

- Developed by Natural Capital Project
- Multiple services
- Spatially explicit (mapped)
- Biophysical or economic results
- Tiered design: simple or complex
- Comparison of scenarios



Services Modeled

- **Water retention**
- **Sediment Retention**
- **Carbon Storage**
- Water Yield
- Water Quality (pollution regulation)
 - PCB's
 - Copper
 - PAH's
 - Cadmium
 - PBDE's

InVEST Water & Carbon Models

Data inputs

- Land cover
- Topography (DEM)
- Soil characteristics
- Precipitation
- Land use management

Land Cover

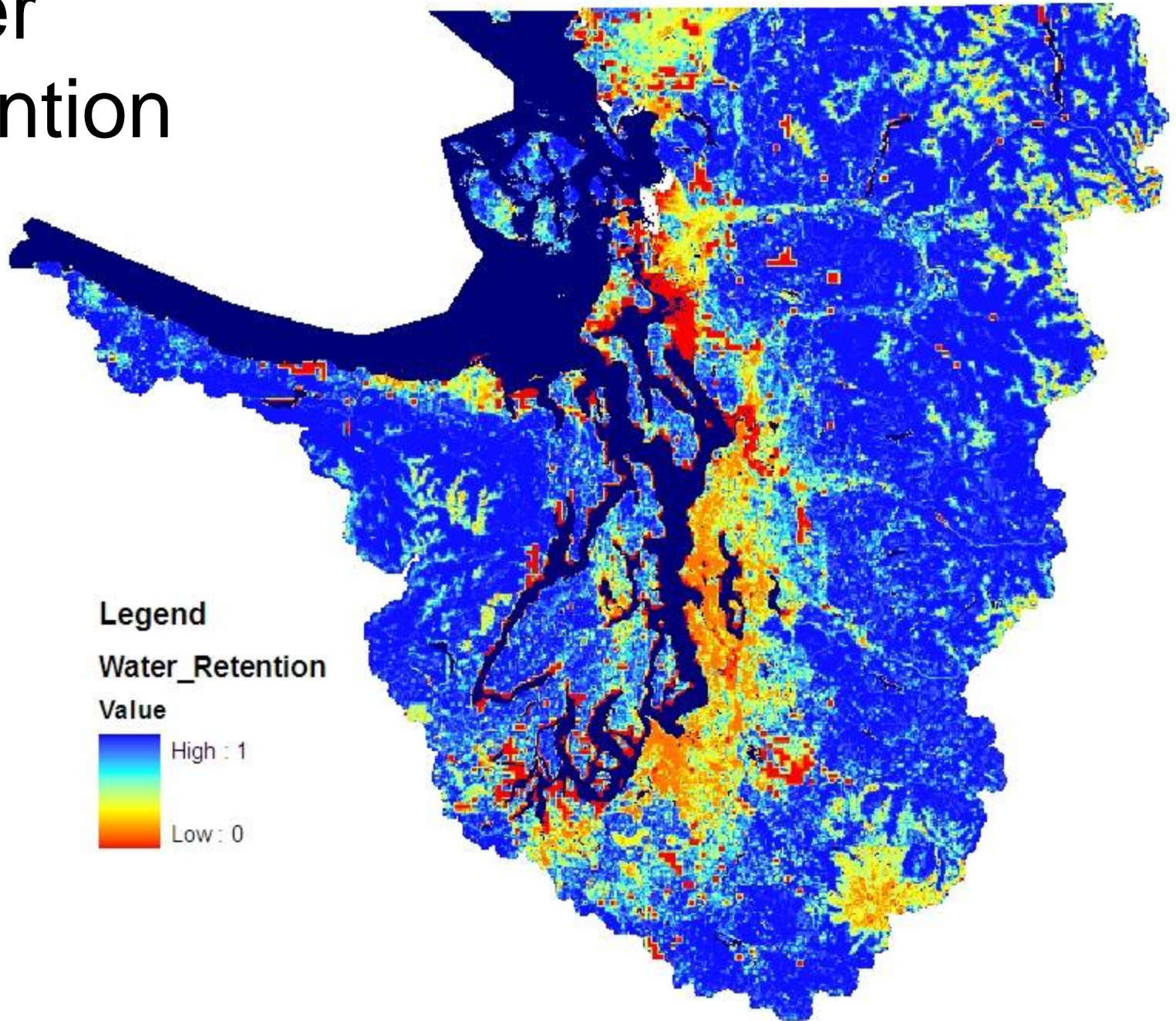


Mount
Baker

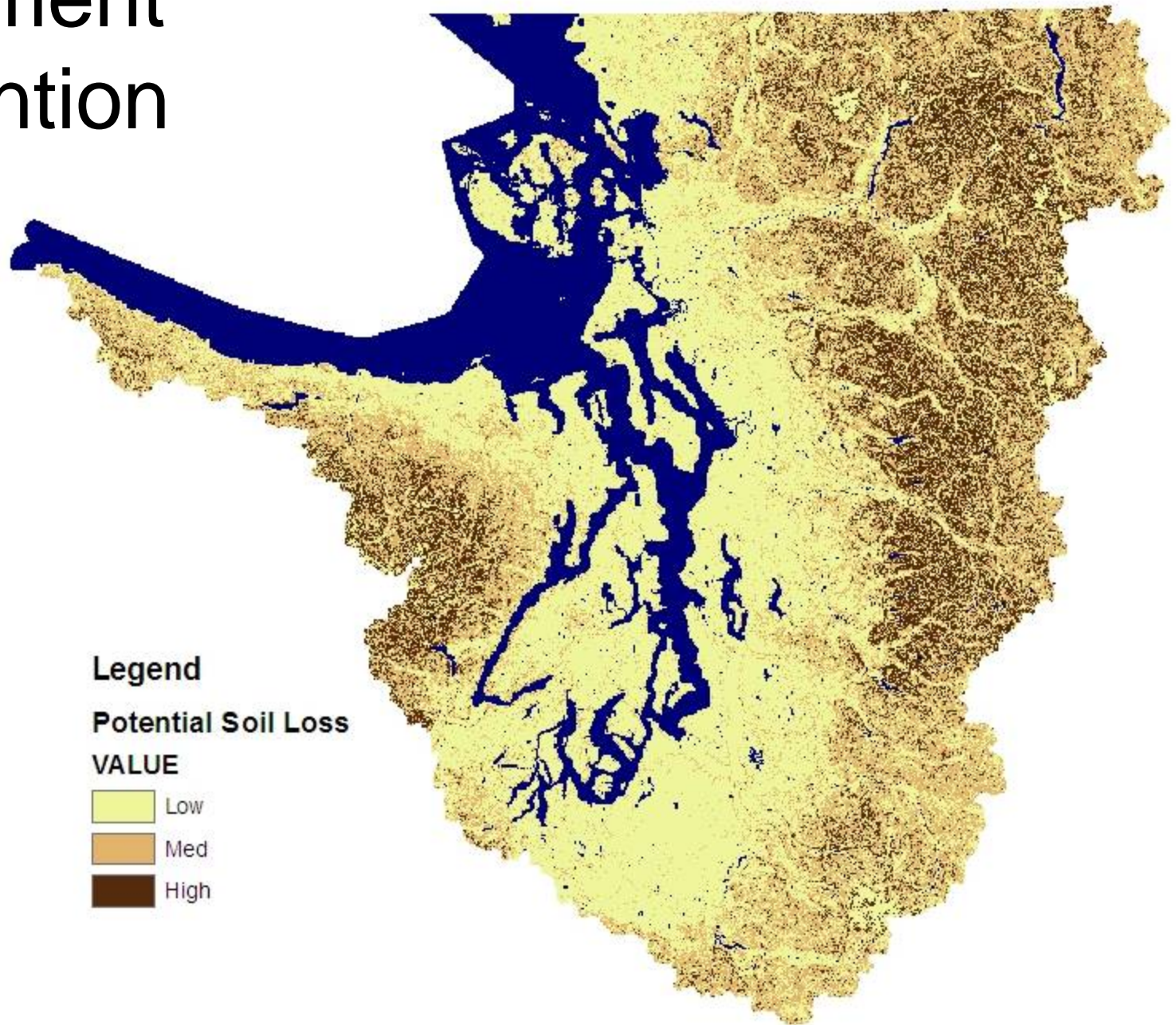
Seattle

Mount Rainier

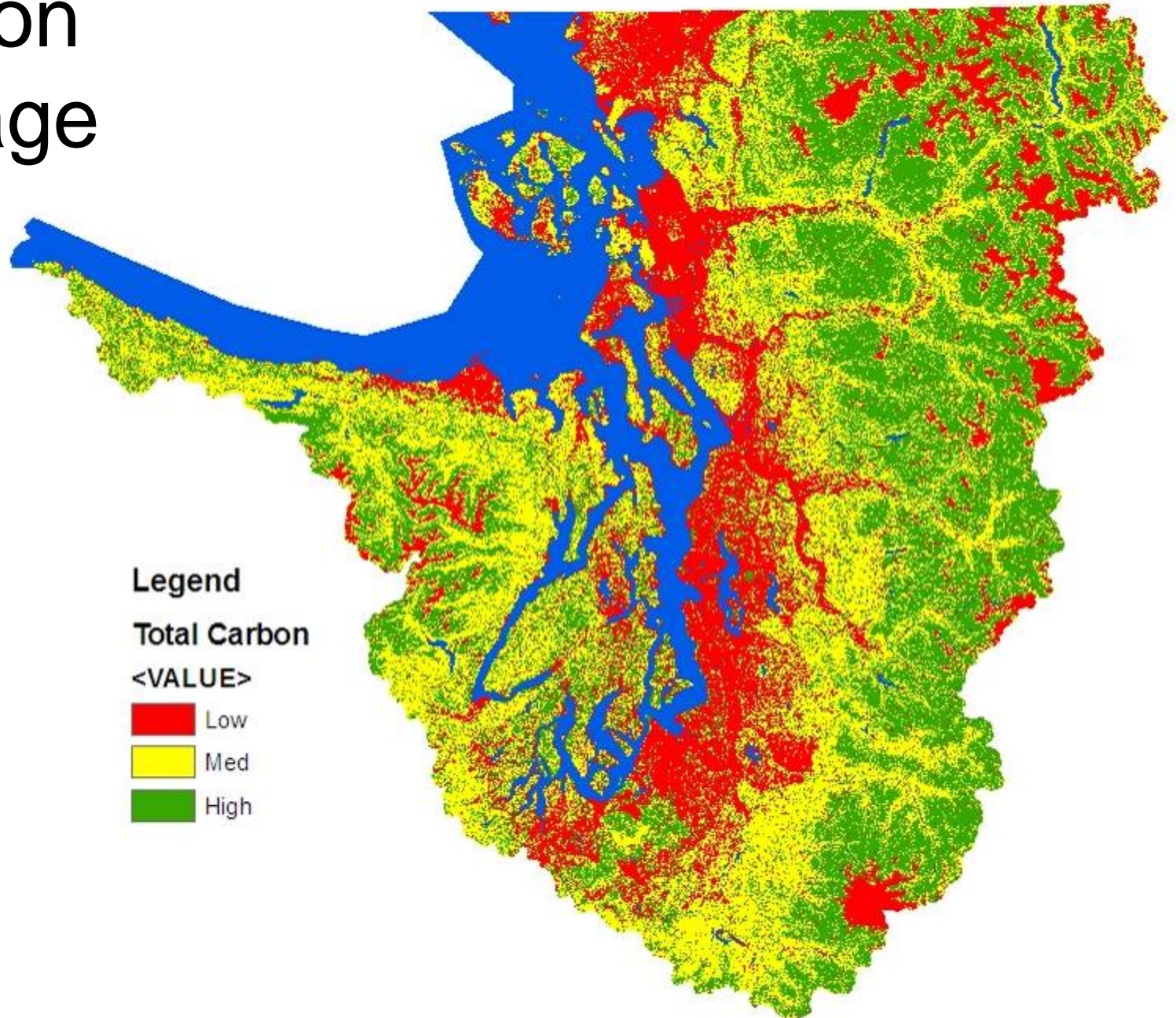
Water Retention



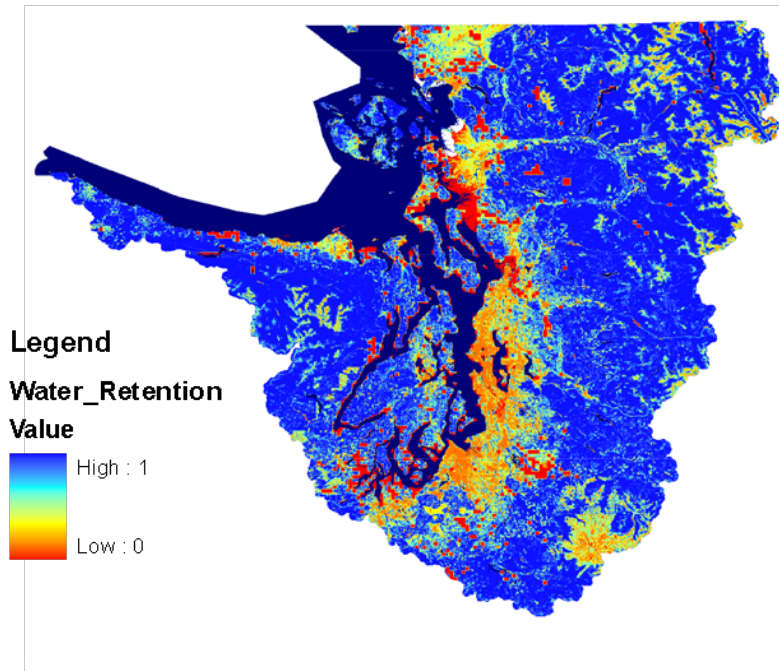
Sediment Retention



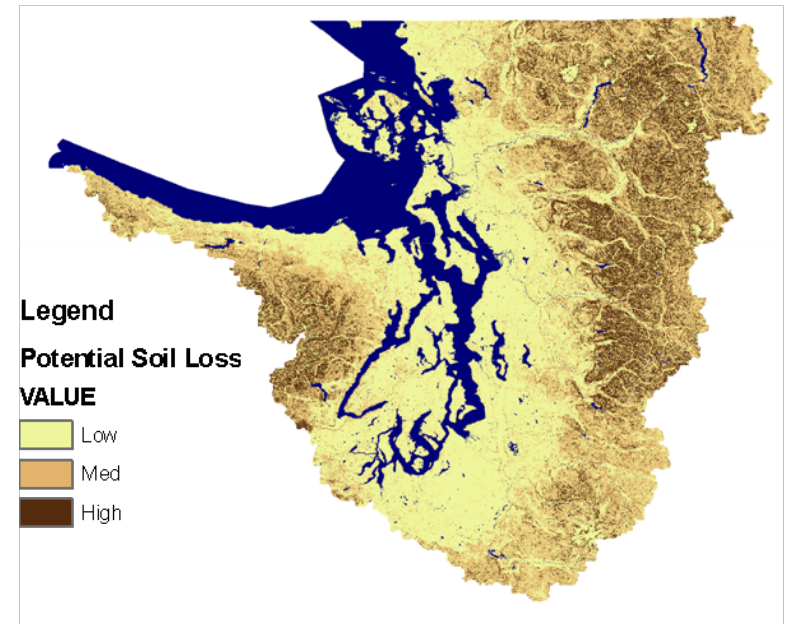
Carbon Storage



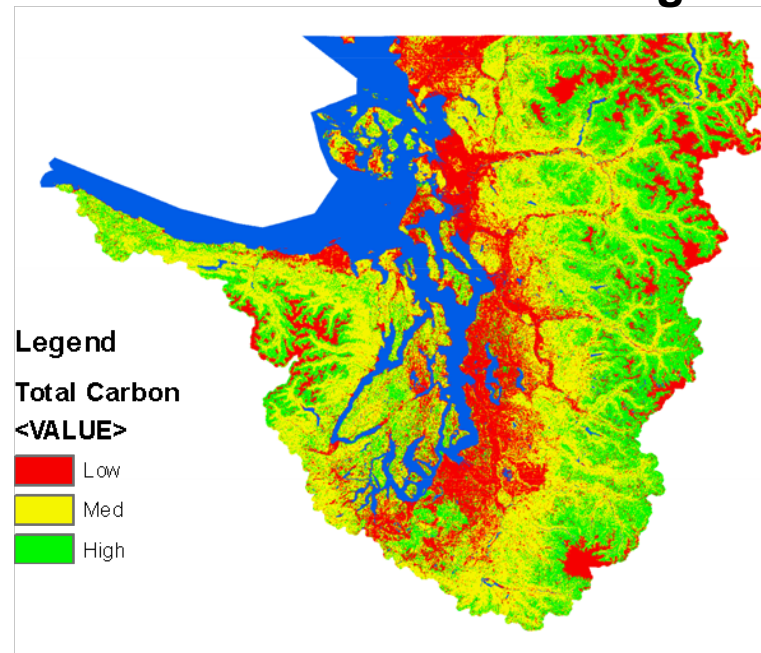
Water Retention



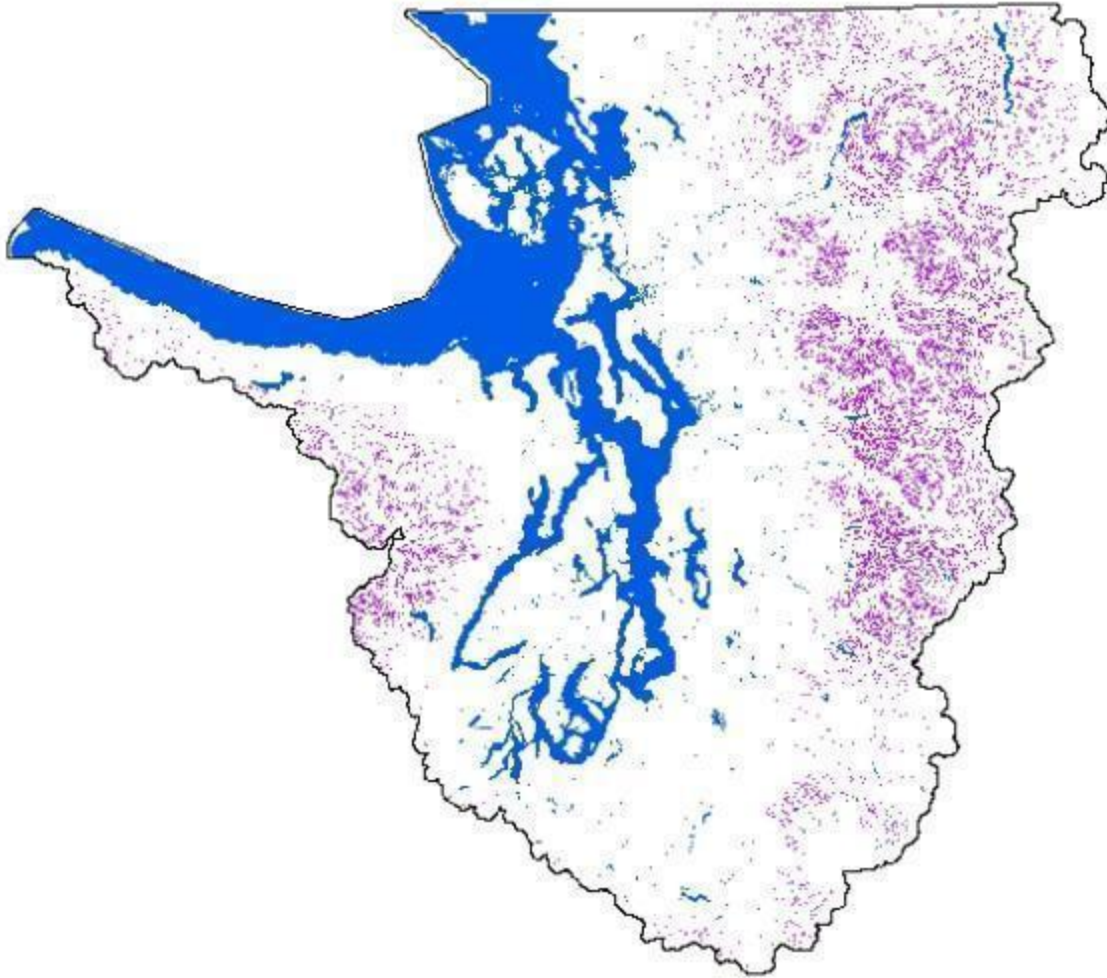
Sediment Retention



Carbon Storage



Stacking multiple services



Water retention + Sediment retention + Carbon

Working with:

Washington State Parcel Database

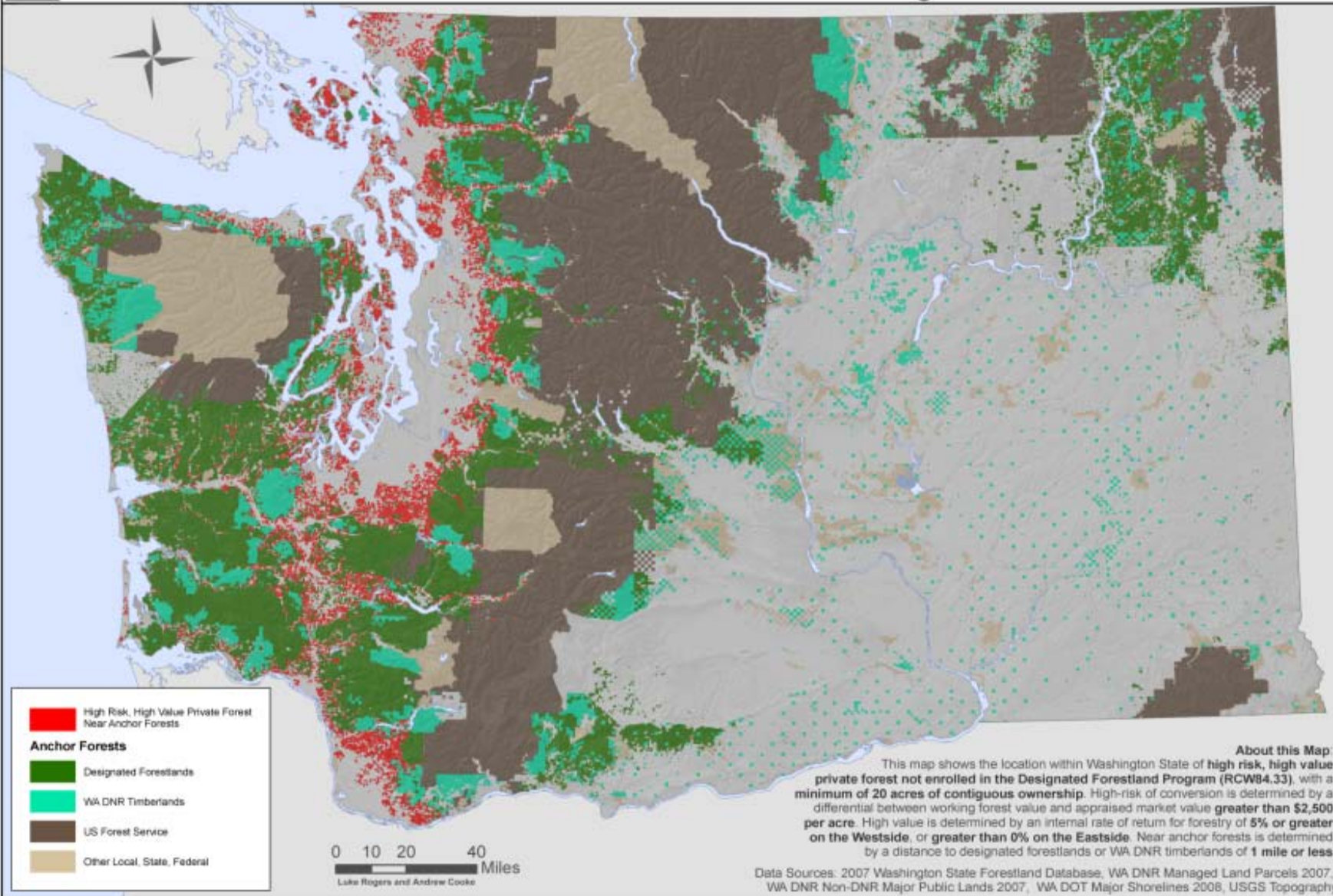
Luke Rogers

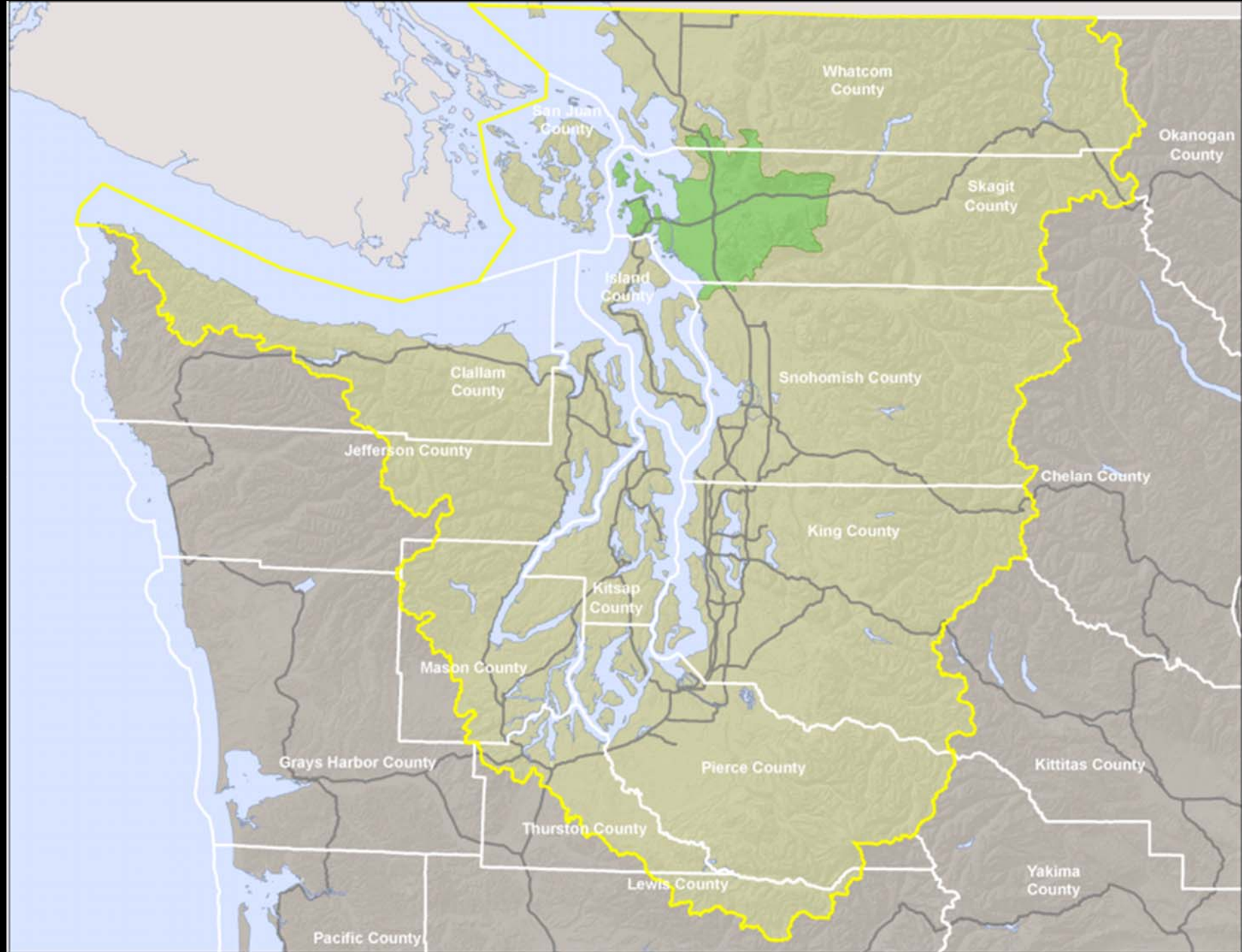
Andrew Cooke

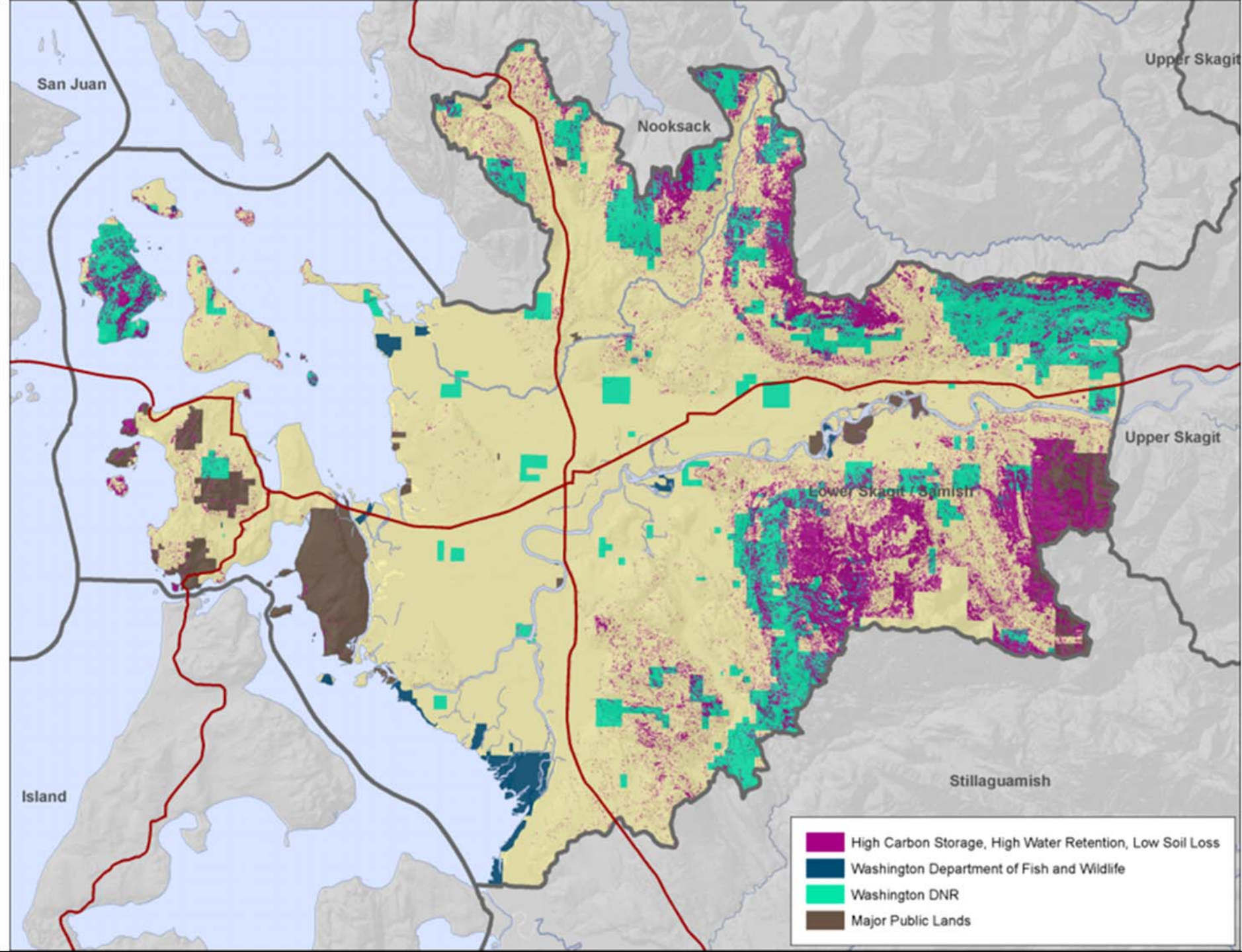
lwrogers@u.washington.edu

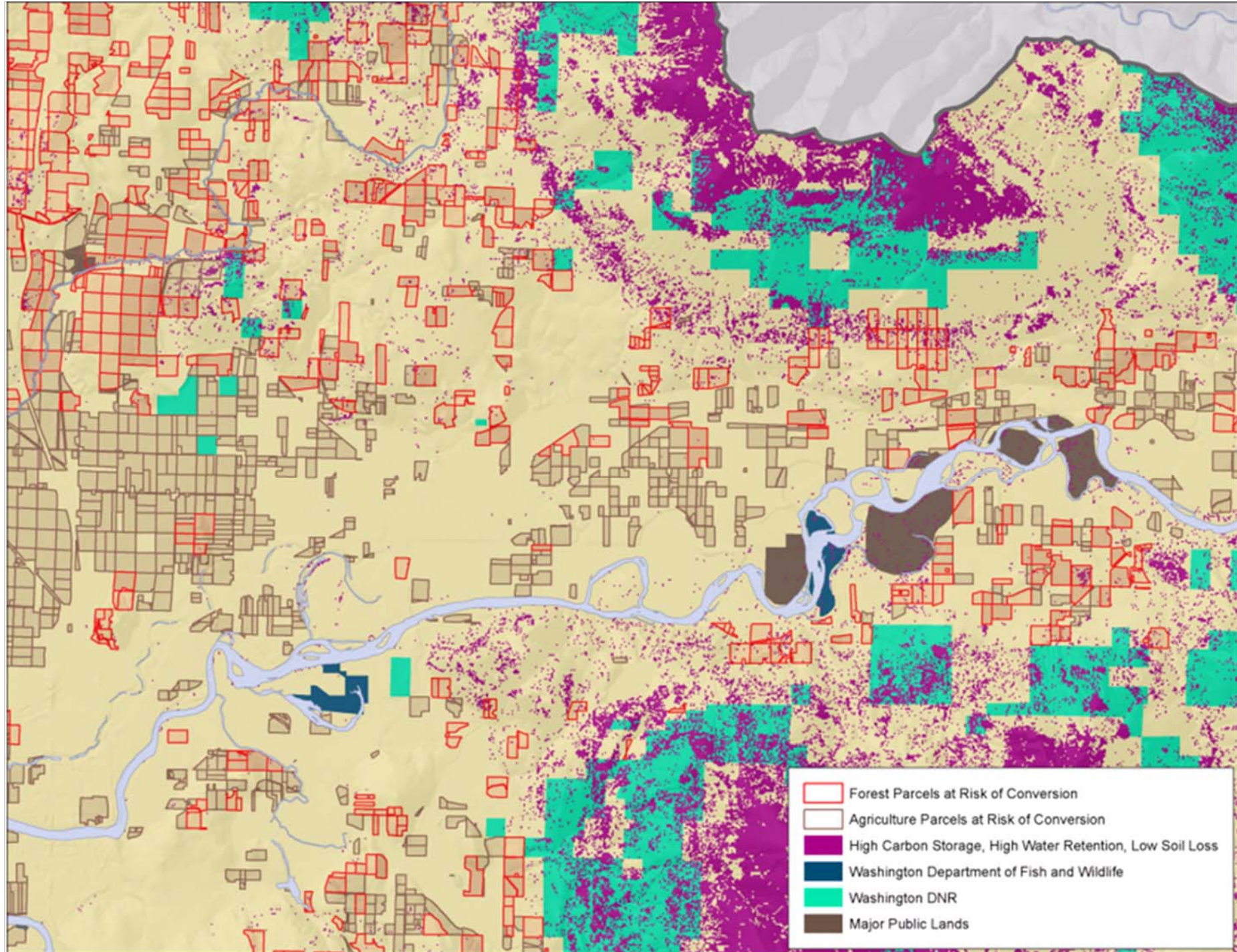


High Conversion Risk, High Value Private Forestland Near Anchor Forests in Washington





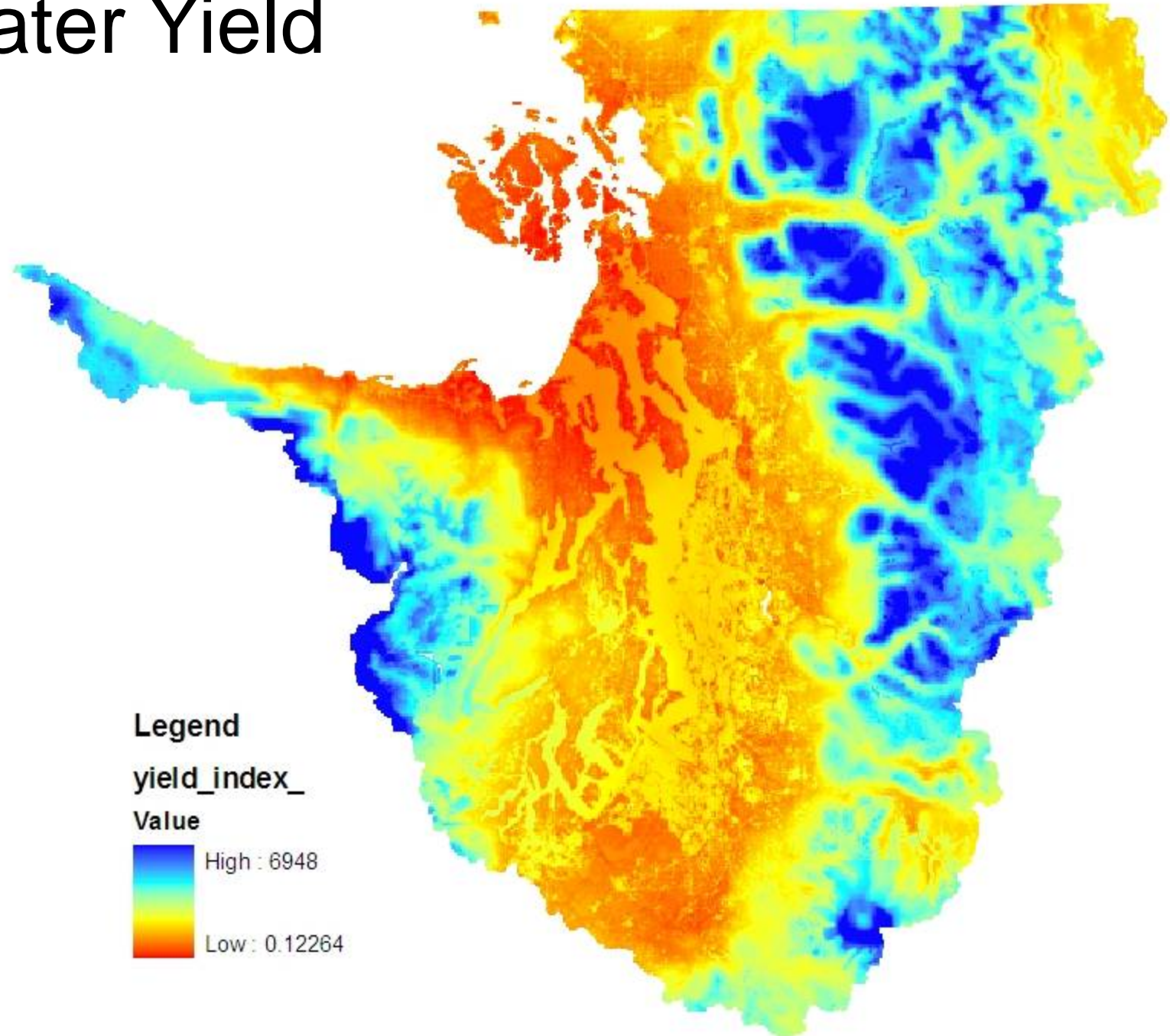




Thank You



Water Yield



Water Filtration

