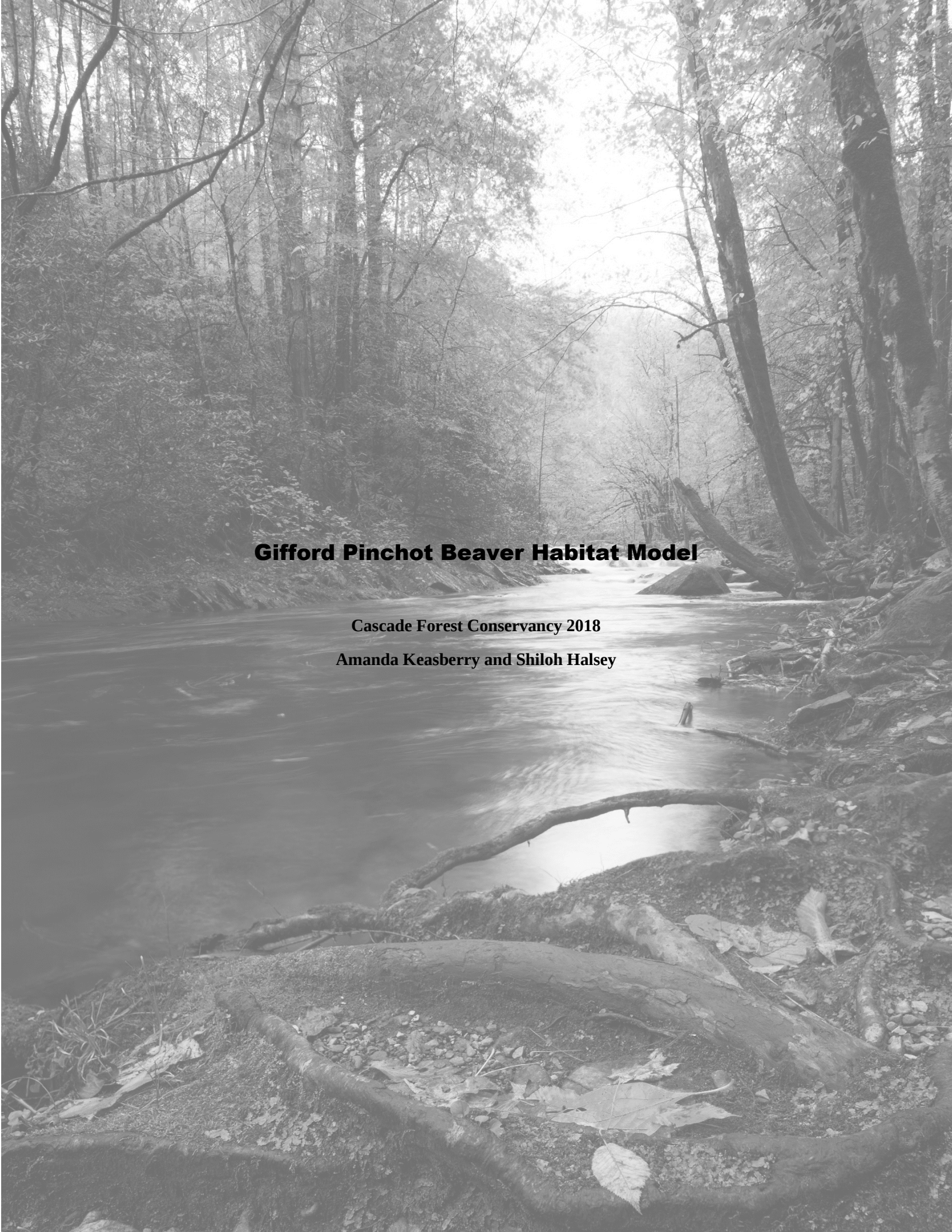


A black and white photograph of a forest stream. In the foreground, a large, weathered log lies horizontally across the lower third of the frame. The stream flows from the background towards the viewer, with some ripples visible. The banks are covered in rocks, fallen leaves, and more logs. The background is filled with a dense forest of tall, thin trees, some with bare branches, suggesting a late autumn or winter setting. The lighting is soft, with some brighter patches where light hits the water or the forest floor.

Gifford Pinchot Beaver Habitat Model

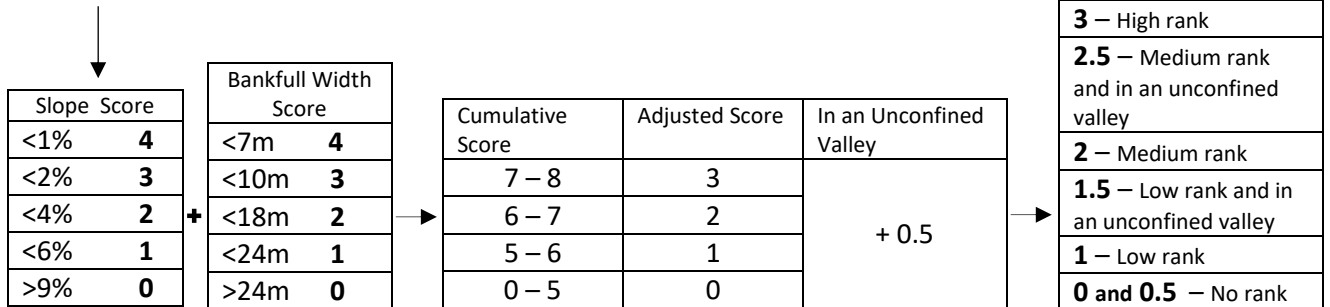
Cascade Forest Conservancy 2018

Amanda Keasberry and Shiloh Halsey

Analysis steps for Gifford Pinchot Beaver Habitat Model

Calculate slope and bankfull width on perennial streams.

Slope was derived from a digital elevation model. Bankfull width was determined through a regression equation using drainage area and average annual precipitation as inputs. All intermittent and ephemeral streams were removed from analysis.



Remove points that are difficult to access, i.e., points beyond 0.5 miles of a road or 0.25 miles of a trail. Remove points that are within 0.5 miles of a highway.

Run kernel density analysis to highlight areas with dense aggregations of suitable habitat points (with higher ranks having more weight)

Using vegetation layers, determine where areas with a lack of hardwoods overlap with dense collections of suitable habitat points

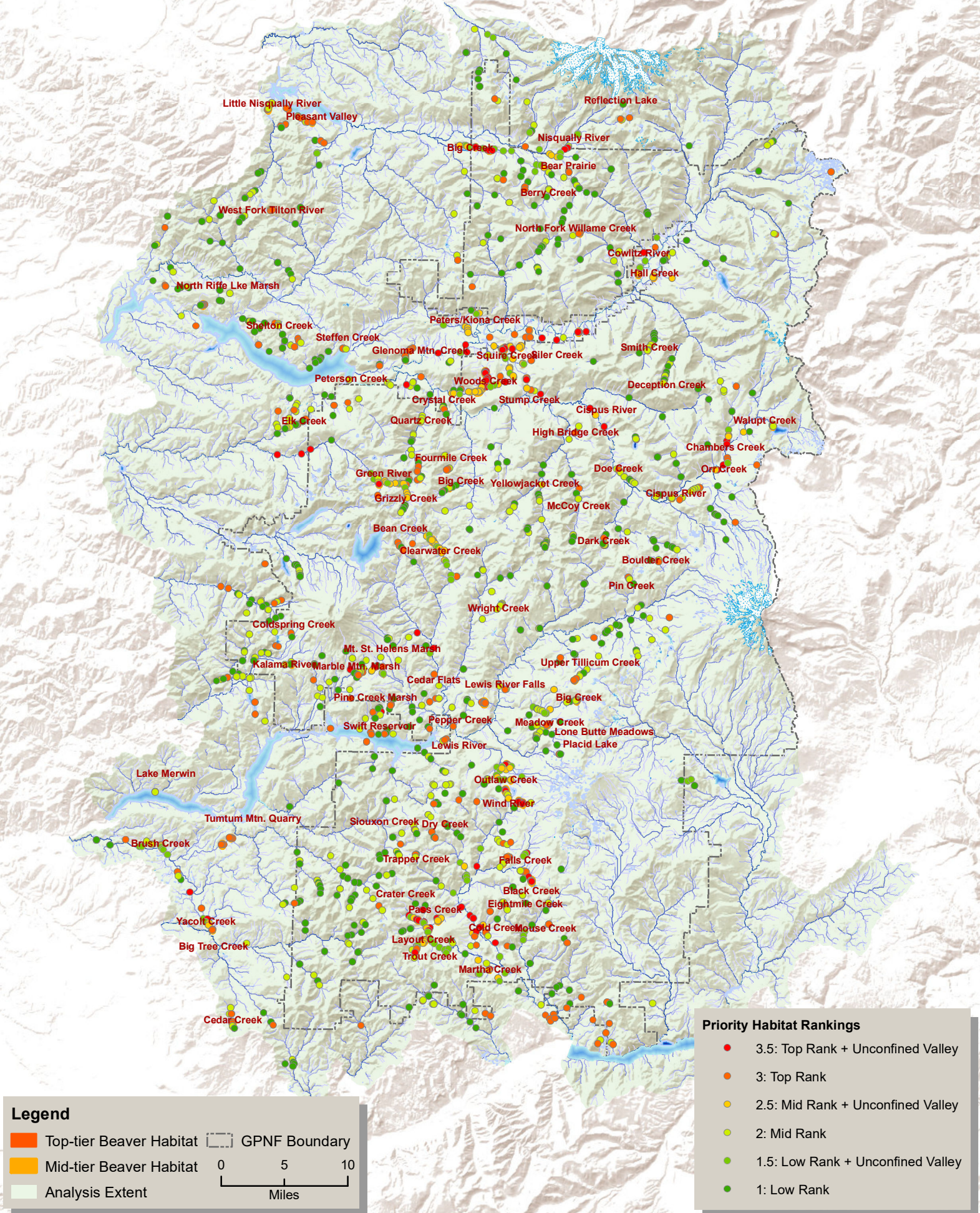
Beaver Habitat Spatial Analysis

Full Extent: Priority Beaver Habitat

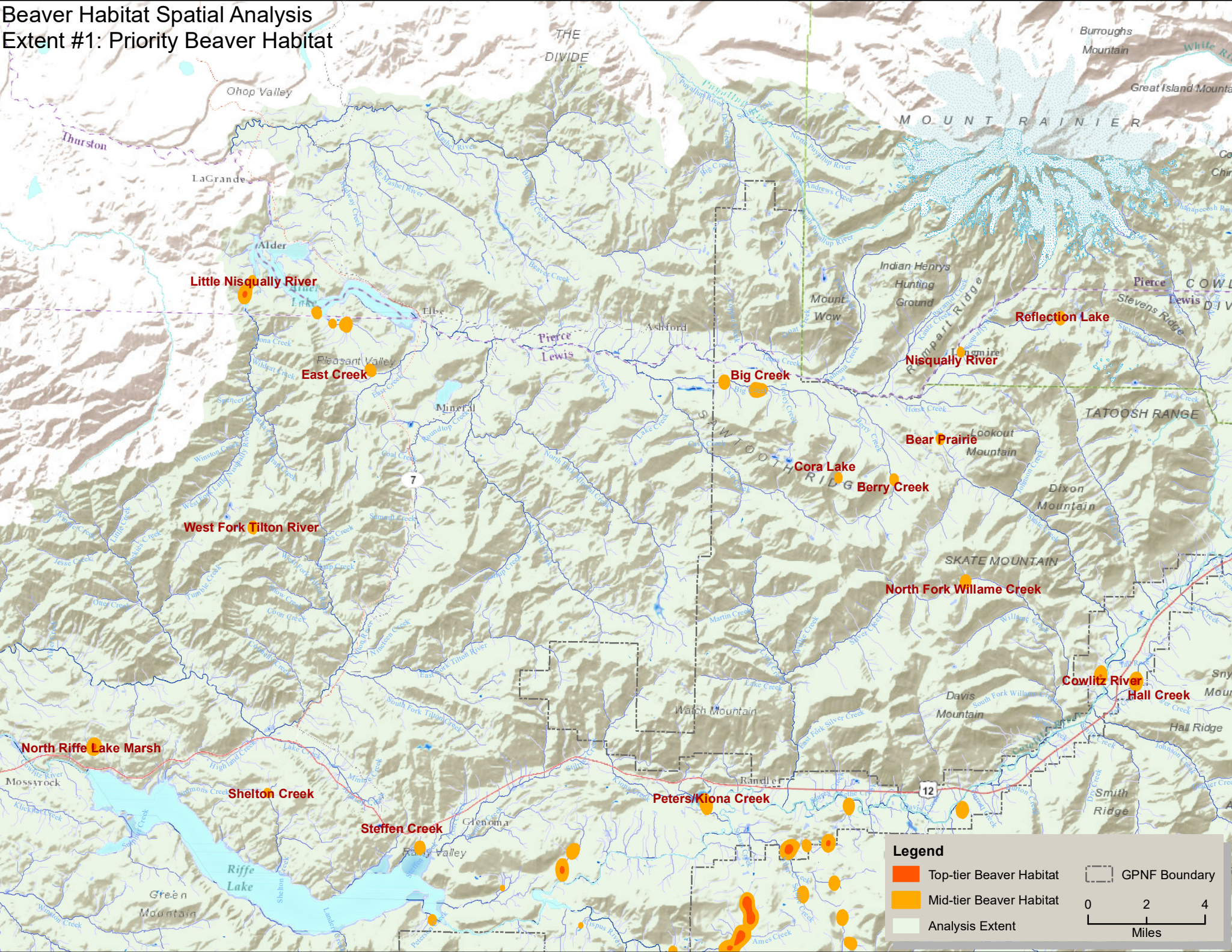


Beaver Habitat Spatial Analysis

Full Extent: Ranked Beaver Habitat

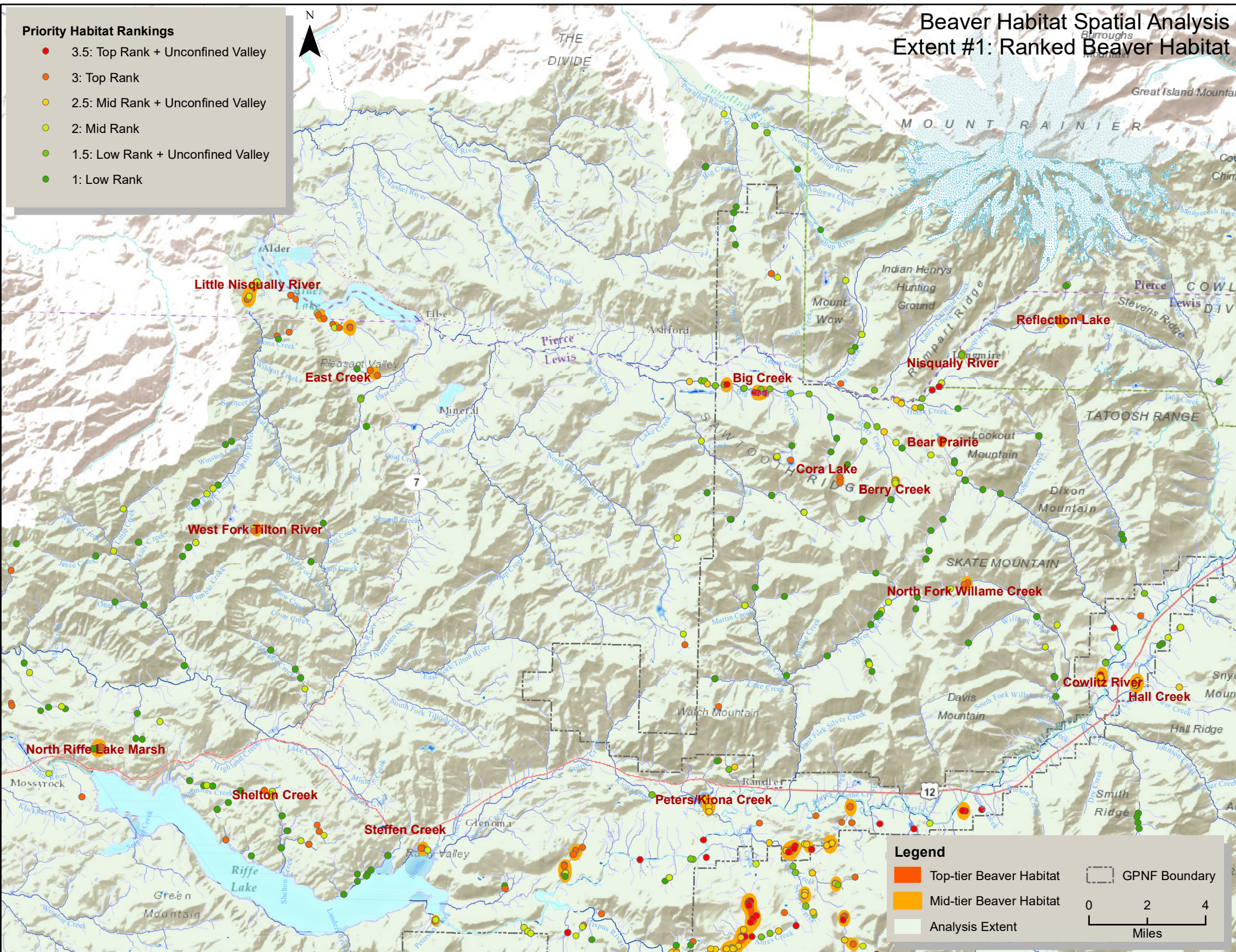


Beaver Habitat Spatial Analysis
Extent #1: Priority Beaver Habitat



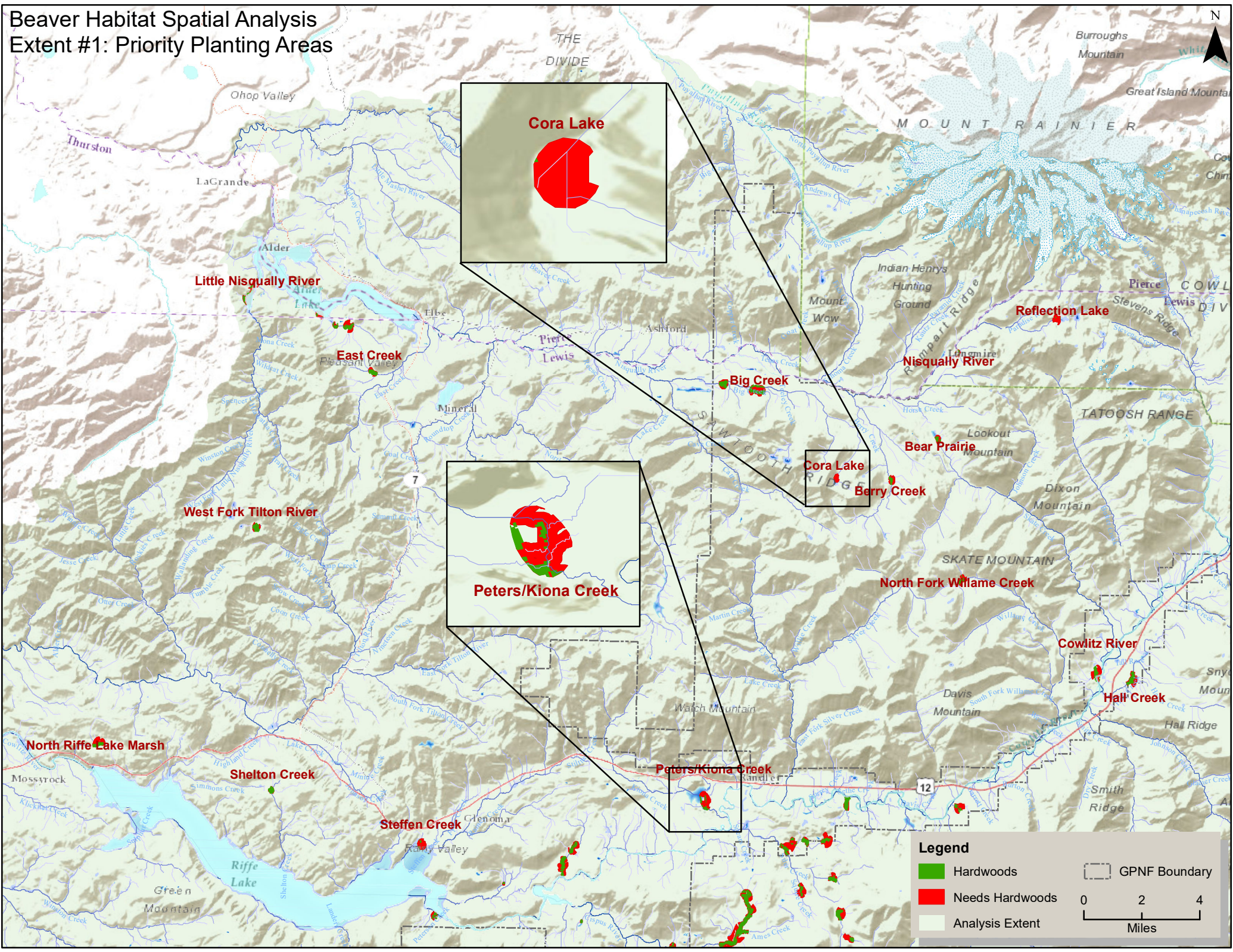
Beaver Habitat Spatial Analysis

Extent #1: Ranked Beaver Habitat



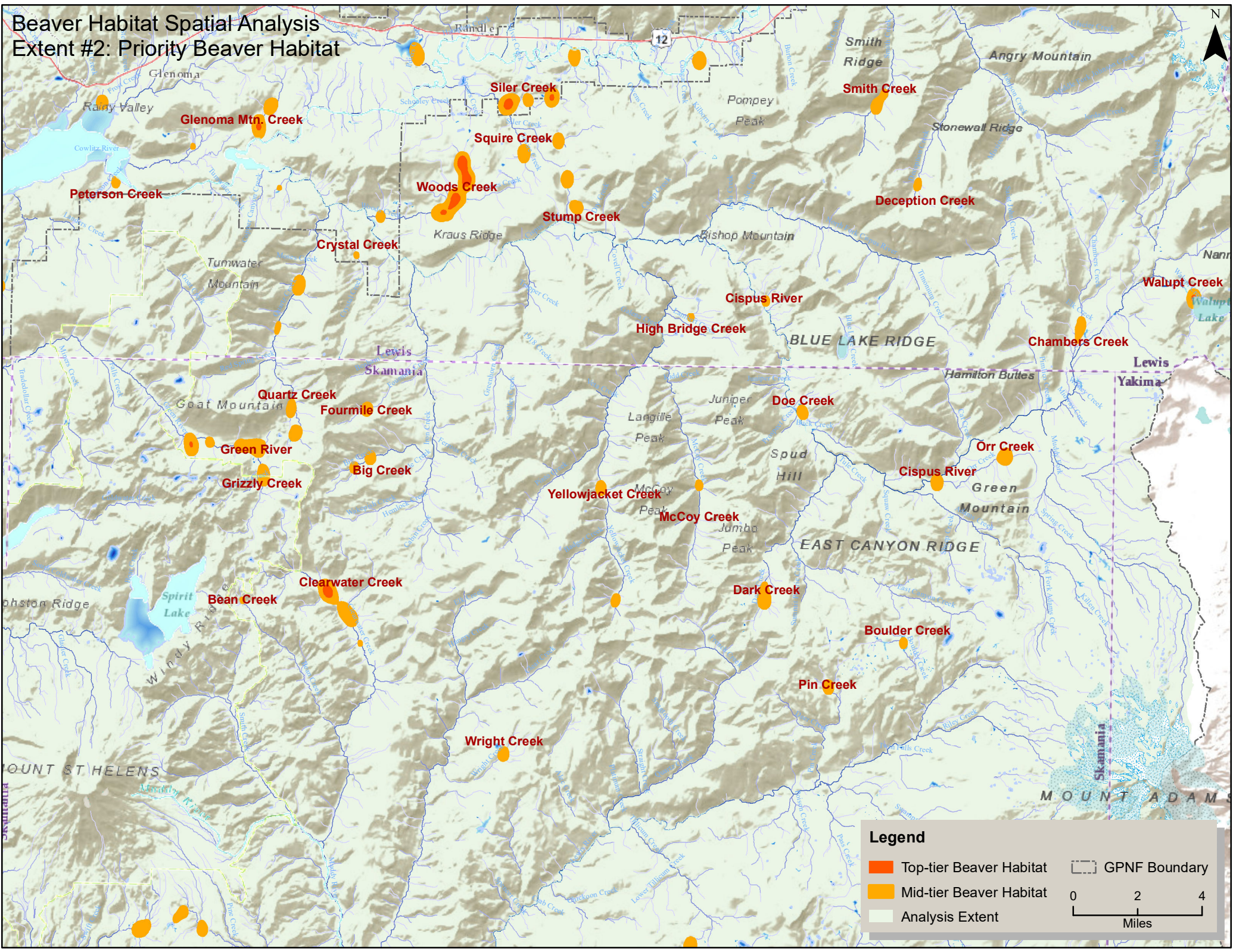
Beaver Habitat Spatial Analysis

Extent #1: Priority Planting Areas



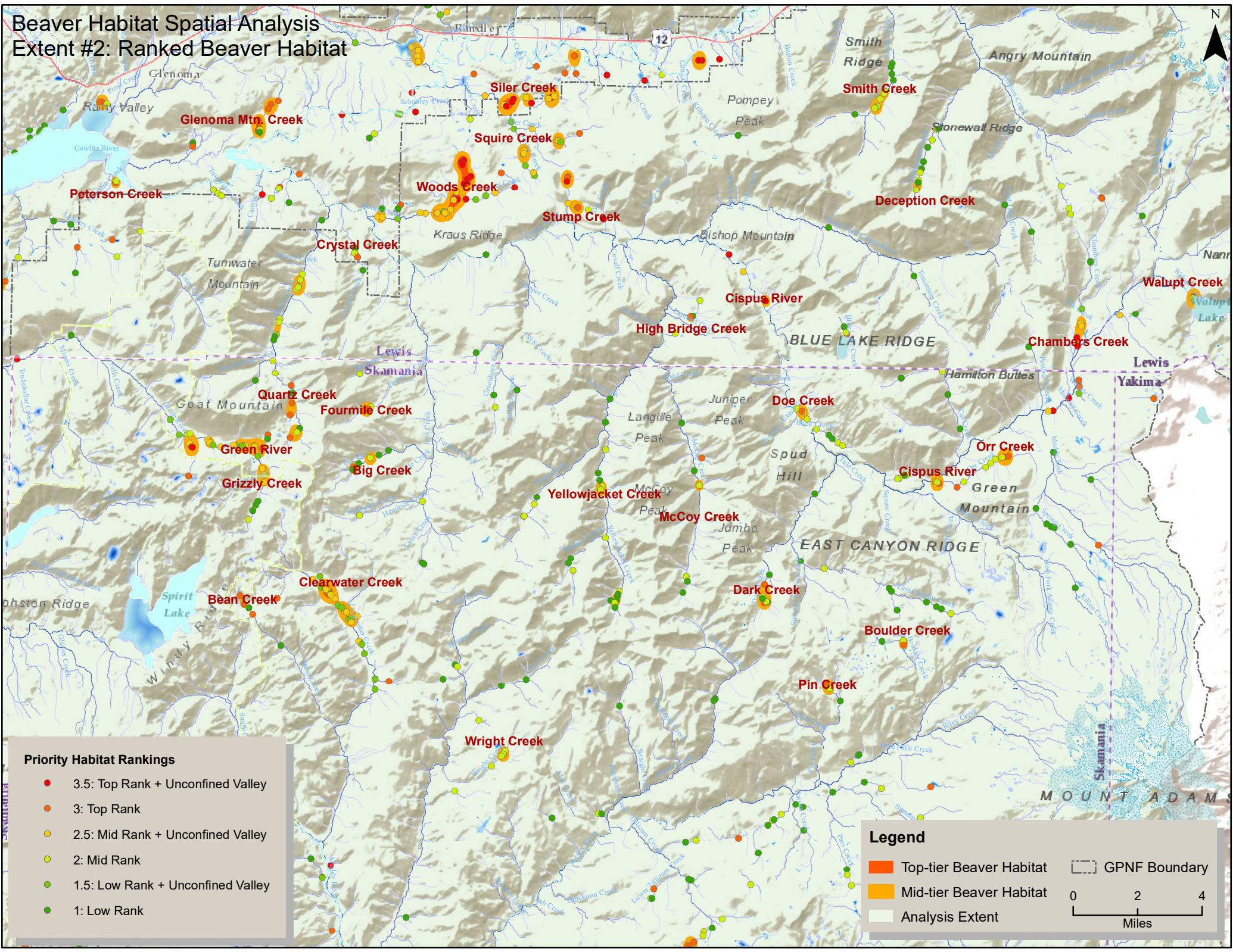
Beaver Habitat Spatial Analysis

Extent #2: Priority Beaver Habitat



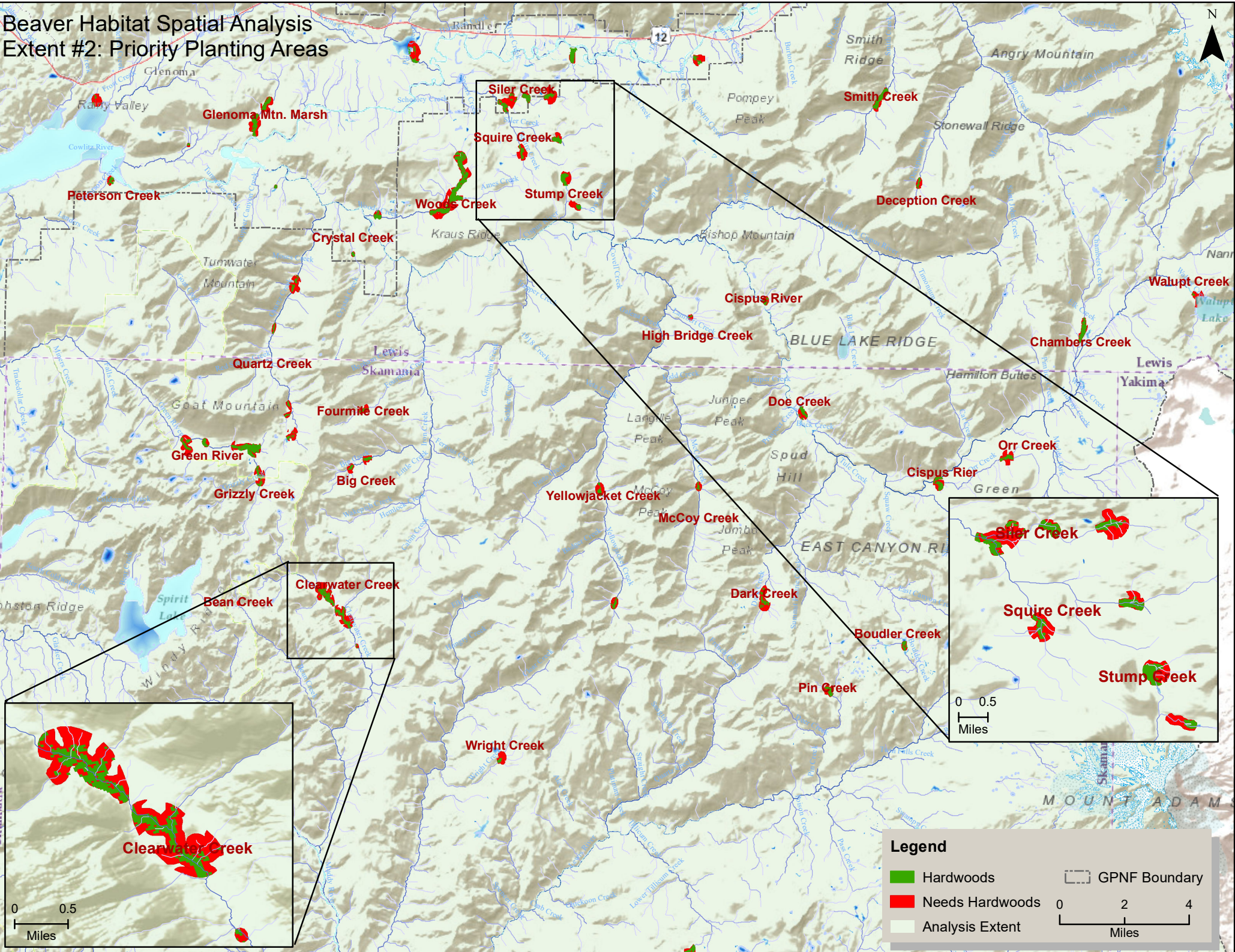
Beaver Habitat Spatial Analysis

Extent #2: Ranked Beaver Habitat

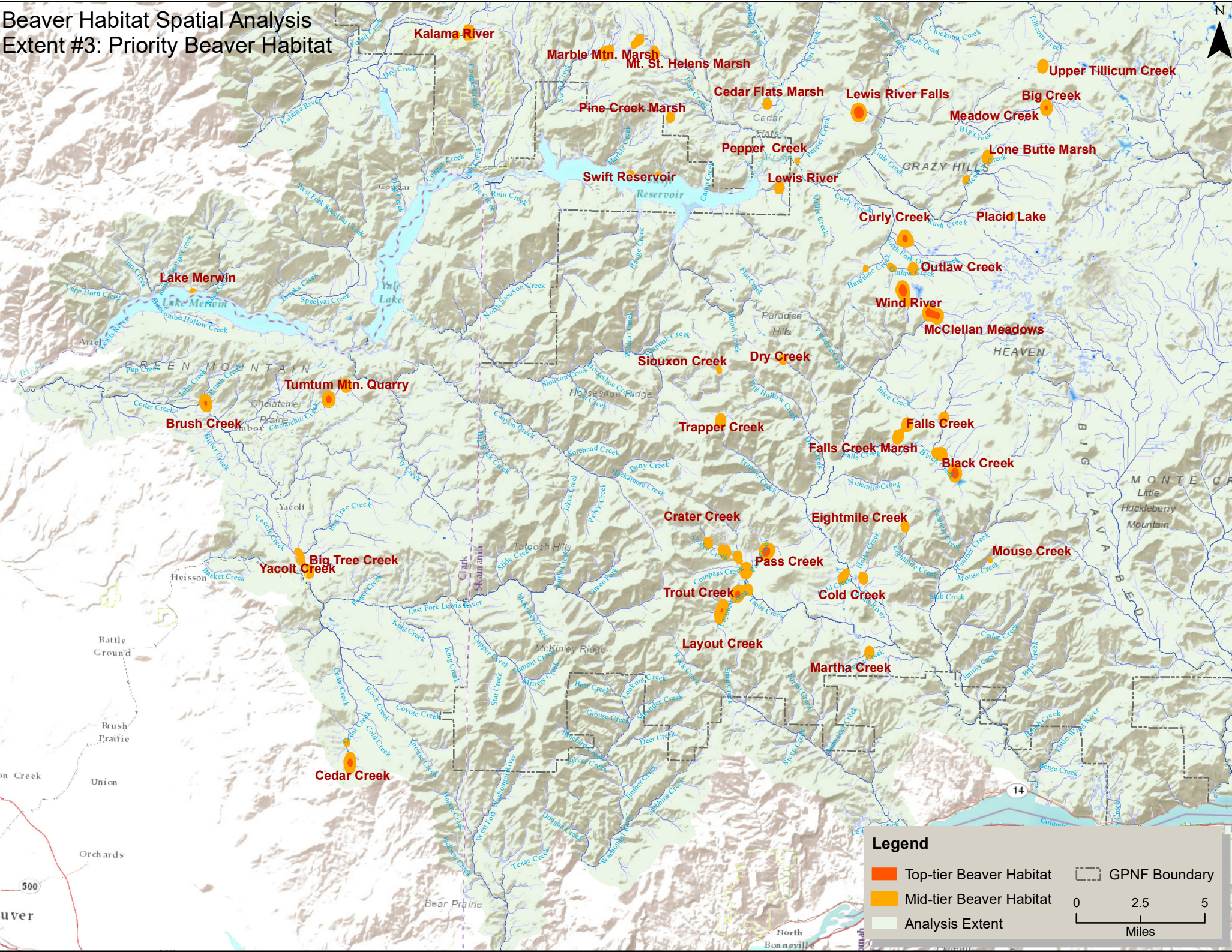


Beaver Habitat Spatial Analysis

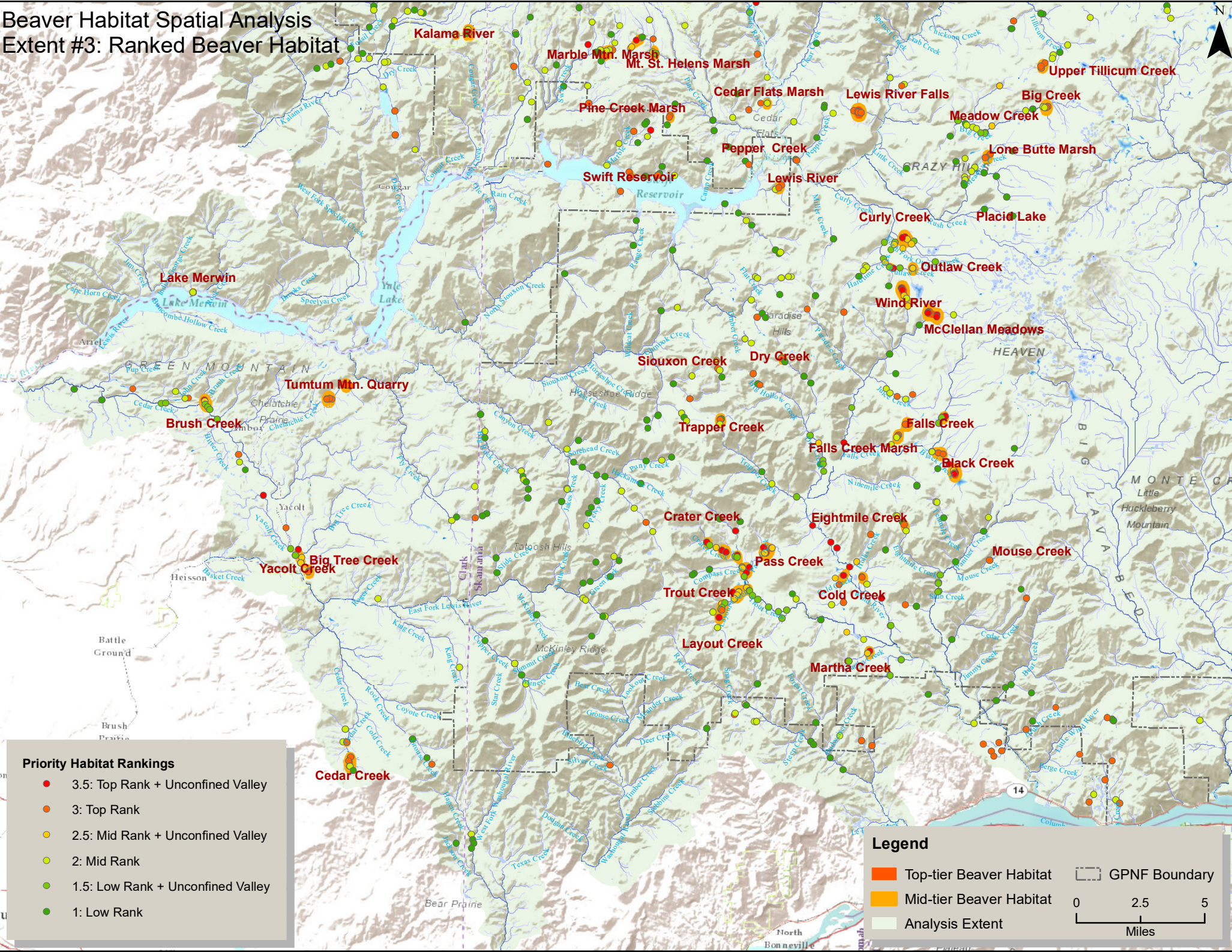
Extent #2: Priority Planting Areas



Beaver Habitat Spatial Analysis
Extent #3: Priority Beaver Habitat



Beaver Habitat Spatial Analysis
Extent #3: Ranked Beaver Habitat



Beaver Habitat Spatial Analysis

Extent #3: Priority Planting Area

