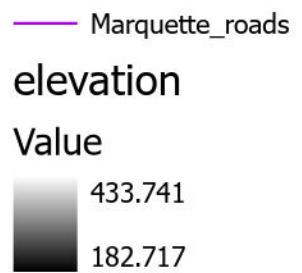
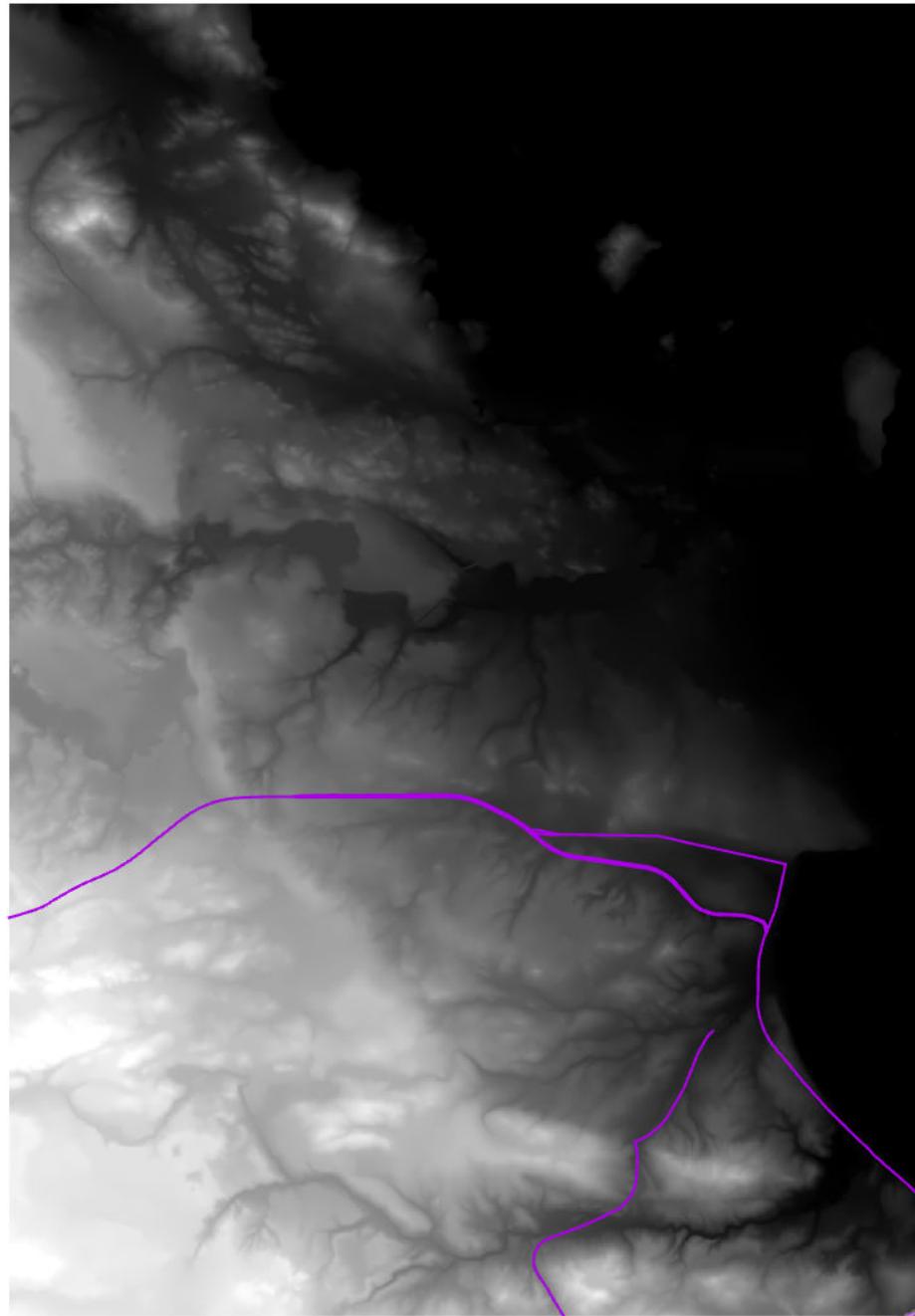


Elevation and Roads of Marquette, Michigan

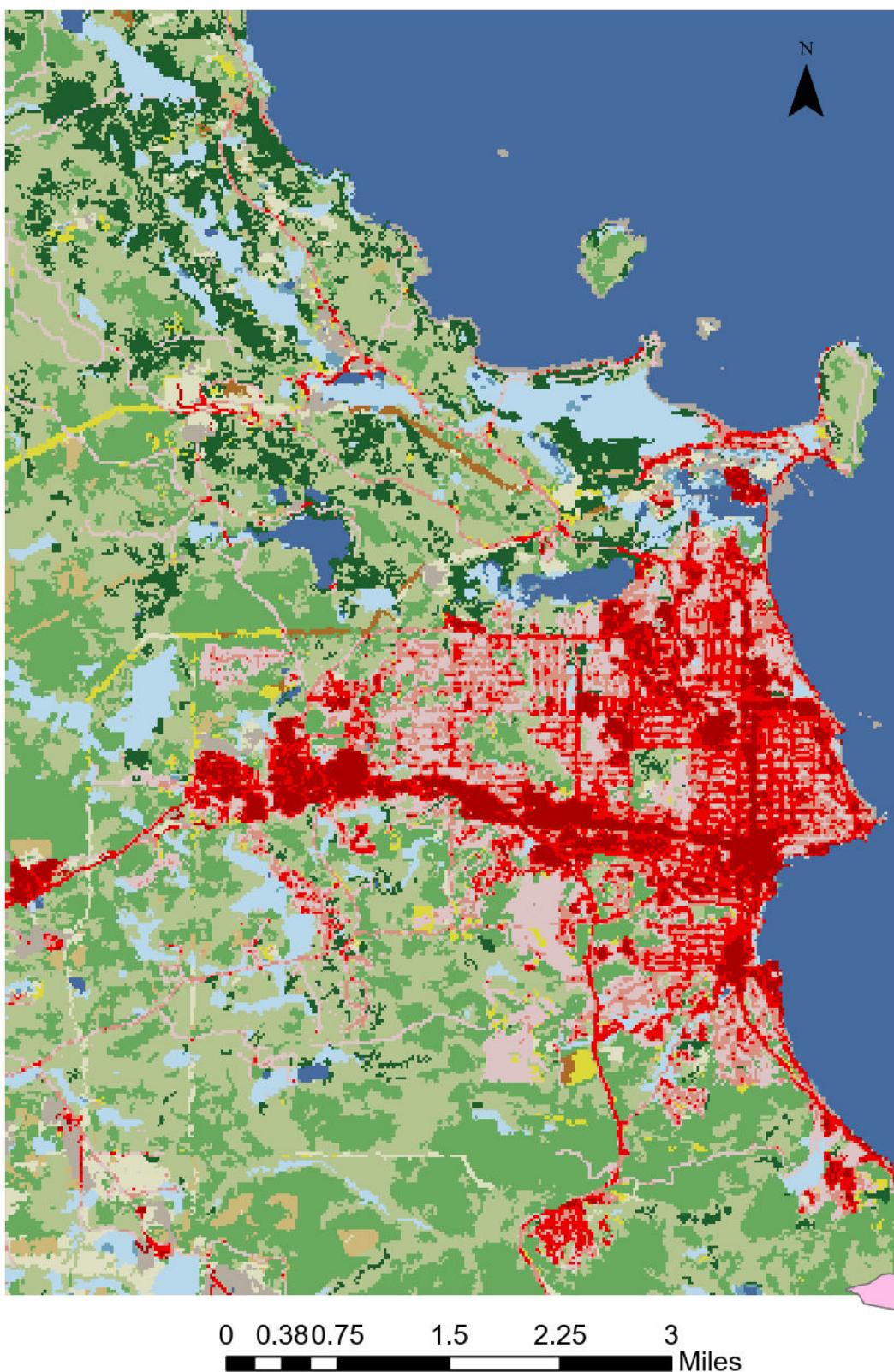


0 0.380.75 1.5 2.25 3 Miles

A horizontal scale bar with tick marks at 0, 0.380.75, 1.5, 2.25, and 3 miles. The text "Miles" is written below the scale bar.

Megan Hoover
Tuesday 8AM Lab
Coordinate System: NAD 1983
Projected Coordinate System: NAD 1983 UTM Zone 16N
Projection: Transverse Mercator
Source: Geospatial Data Gateway

Land Use Map of Marquette, Michigan



Megan Hoover
Tuesday 8AM Lab
Coordinate System: NAD 1983
Projected Coordinate System: NAD 1983 UTM Zone 16N
Projection: Transverse Mercator
Source: Geospatial Data Gateway

Megan Hoover

Tuesday 8AM Lab

Data Theme	Geographic Location	Data source	URL
Transportation	Marquette, Michigan	Geospatial Data Gateway	https://gdg.sc.egov.usda.gov
Land cover	Marquette, Michigan	Geospatial Data Gateway	https://gdg.sc.egov.usda.gov
Elevation	Marquette, Michigan	Geospatial Data Gateway	https://gdg.sc.egov.usda.gov

Story Problem:

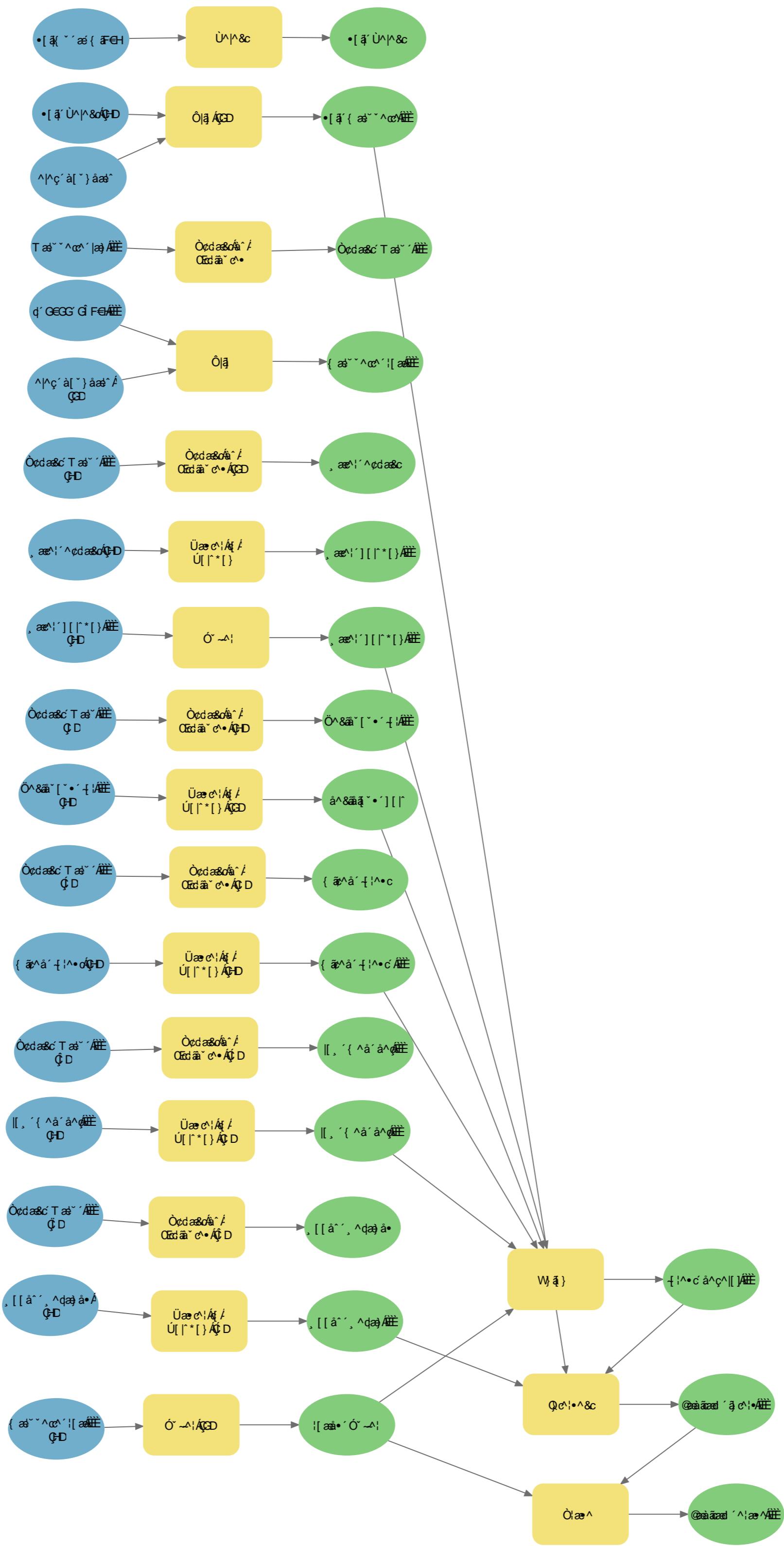


The Blue-Spotted Salamander: Blue-Spotted Salamanders can be found in wet Woodland habitats within a deciduous or coniferous forest. They like areas with sandy soils and organic matter to hide under. Due to the continuous loss of wetland habitats, they are becoming less common in a lot of states. They need to be around water sources such as lakes and small ponds for breeding. Marquette, Michigan is a popular area to find the Blue-Spotted Salamander. The Blue-Spotted Salamander is tolerant of some human disturbance and can sometimes be found in backyards or crossing roads during the breeding season to lay their eggs in water.

Blue Spotted salamander habitat: Needs to be within 150 m of water for breeding, within a wetland, in a deciduous or coniferous/ mixed forest, have sandy soils/ soils that support wetlands, can live within 10 ft from roads, and can tolerate low developed spaces if the first four criteria are met.

Data needed:

- Land use data- deciduous, coniferous/mixed, wetlands, water, developed spaced (low/medium disturbance)
- Soil data- loamy sands, silty loams, organic sand that supports wetlands and forest habitat.
- Roads- County and local roads
- Elevation- elevation areas
- select Marquette roads by clipping Tolerant (can be on or near) can include

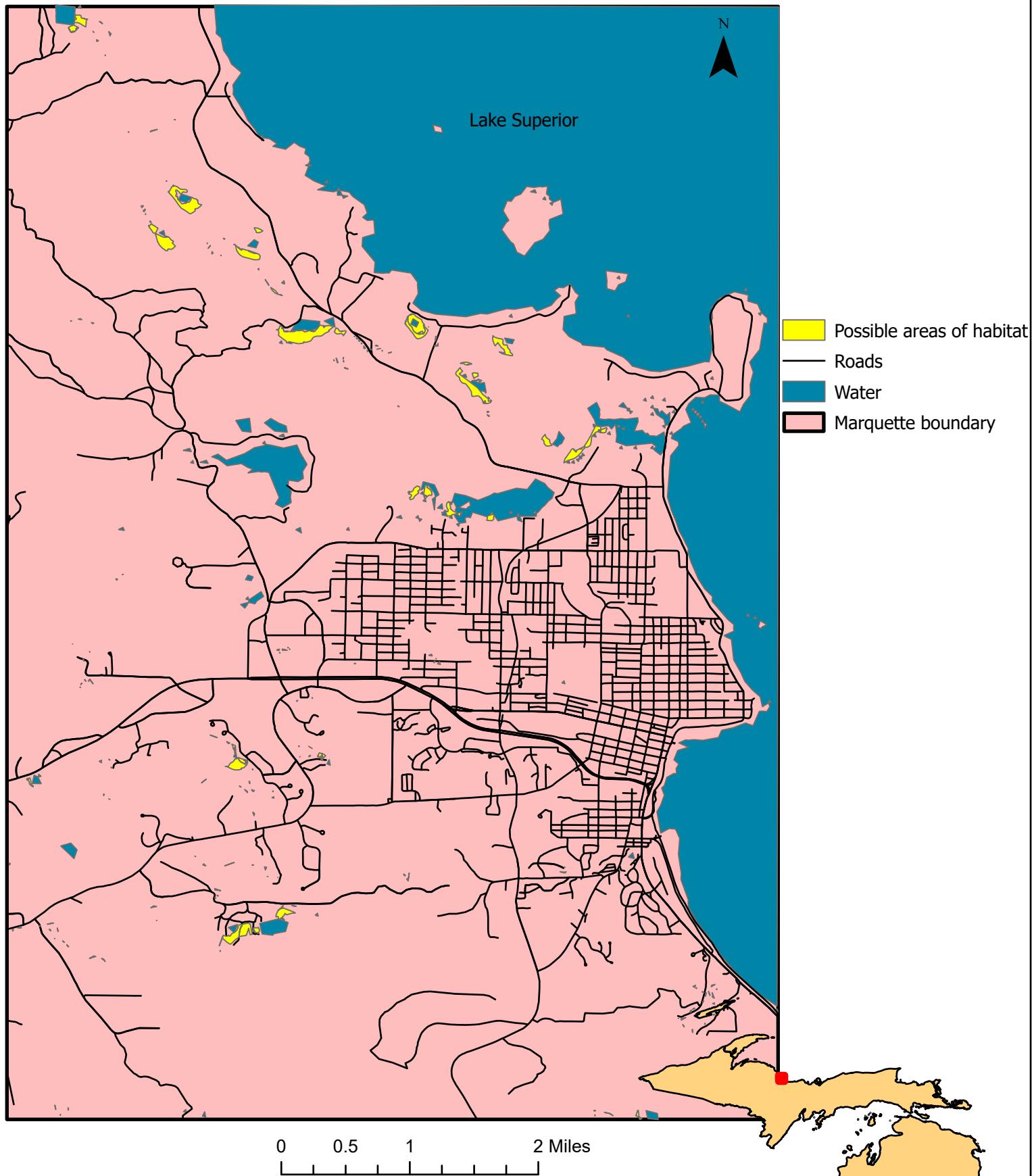


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Data Theme	Geographic Location	Data source	URL	Column1
Transportation	Marquette, Michigan	US Census Bureau	TIGER/Line Shapefile, Current, County, Marquette County, MI, All Roads - Catalog (data.gov)	
Land cover	Marquette, Michigan	Geospatial Data Gateway	https://gdg.sc.egov.usda.gov	
Elevation	Marquette, Michigan	Geospatial Data Gateway	https://gdg.sc.egov.usda.gov	
Soil	Marquette, Michigan	USDA Soil Survey	https://websoilsurvey.ncs.usda.gov/app/WebSoilSurvey.aspx	

Blue Spotted Salamander Habitat

Marquette, Michigan



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Coordinate System: NAD 1983 UTM Zone 16N

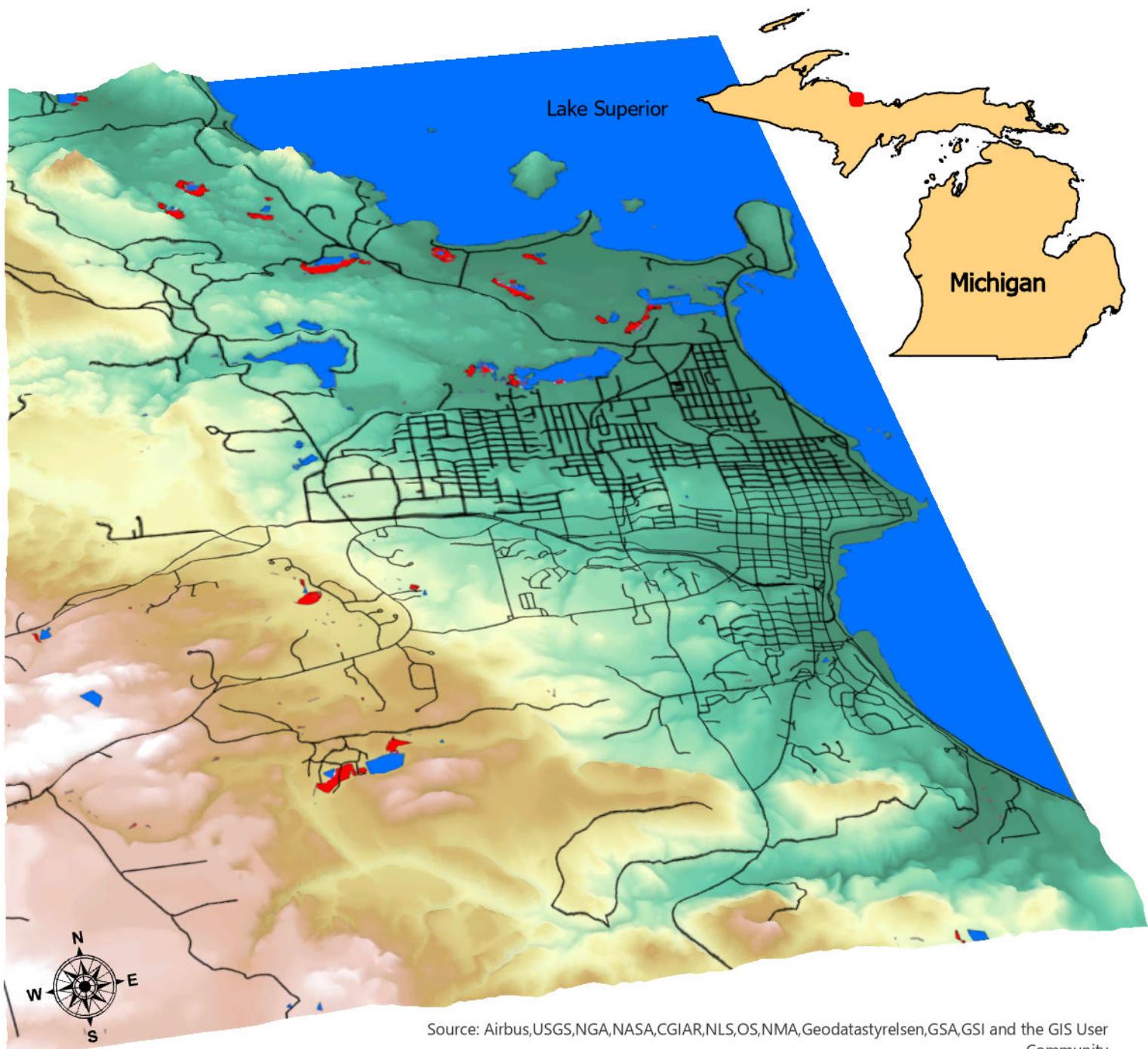
Projection: Transverse Mercator

Sources: US Geospatial Gateway Data, US Census Bureau Data, USDA Soil Survey Data

Michigan

Blue Spotted Salamander Habitat

Marquette, Michigan



Source: Airbus, USGS, NGA, NASA, CGIAR, NLS, OS, NMA, Geodatistyrelsen, GSA, GSI and the GIS User Community

- Roads
- Habitat areas
- water

Elevation

meters

