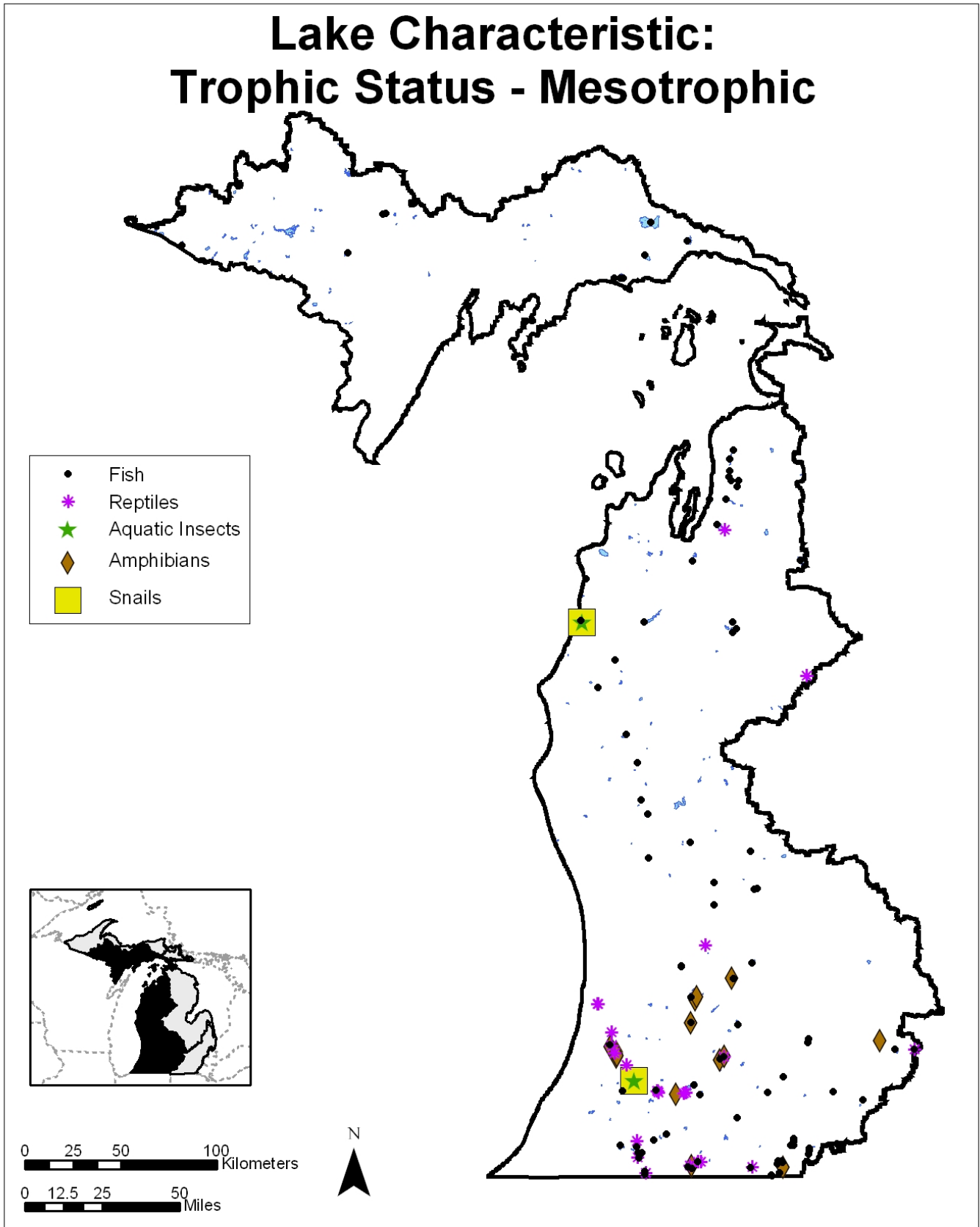


Lake Characteristic: Trophic Status - Mesotrophic



Lake Characteristic: Trophic Status – Mesotrophic

Description

Mesotrophic lakes have moderate concentrations of nutrients (total phosphorus = 15-25 µg/L) resulting in generally moderate biomass of algae. They generally have lower water clarity and potentially lower oxygen concentrations in the hypolimnion than oligotrophic lakes. They are not likely to have low winter oxygen concentrations under the ice unless the lakes are particularly shallow.

General Condition of Feature

No data available.

Associated Species of Greatest Conservation Need

SNAILS

Specific associations with this landscape feature were not found in the literature

INSECTS

Specific associations with this landscape feature were not found in the literature

FISH

spotted gar (*Lepisosteus oculatus*)
brown bullhead (*Ameiurus nebulosus*)

FISH cont.

cisco or lake herring (*Coregonus artedii*)

AMPHIBIANS

Specific associations with this landscape feature were not found in the literature

REPTILES

Specific associations with this landscape feature were not found in the literature

Associated Threats

- No data available

Conservation Actions Needed (Threats addressed)

- No data available

Research and Survey Needs

- Track the amount of wetlands under 5 acres that are being converted to other use
- Aquatic invasive species (control, how to prevent establishment, affect on native communities)
- Conduct lake surveys to determine mesotrophic lakes status and condition
- Determine threats to mesotrophic lakes
- Determine conservation actions needed for mesotrophic lakes
- Determine use of mesotrophic lakes by snail, aquatic insect, amphibian, and reptile SGCN
- Determine what monitoring should be implemented to determine trends in mesotrophic lakes
- Establish effective methods of communicating with the public and their stewardship role

Monitoring

- Aquatic invasive species
- Beach grooming
- Effluent discharges: waste water treatment plants, septic systems
- Nutrients
- Riparian modification
- Water temperature