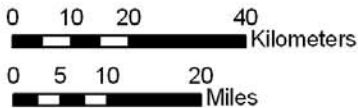
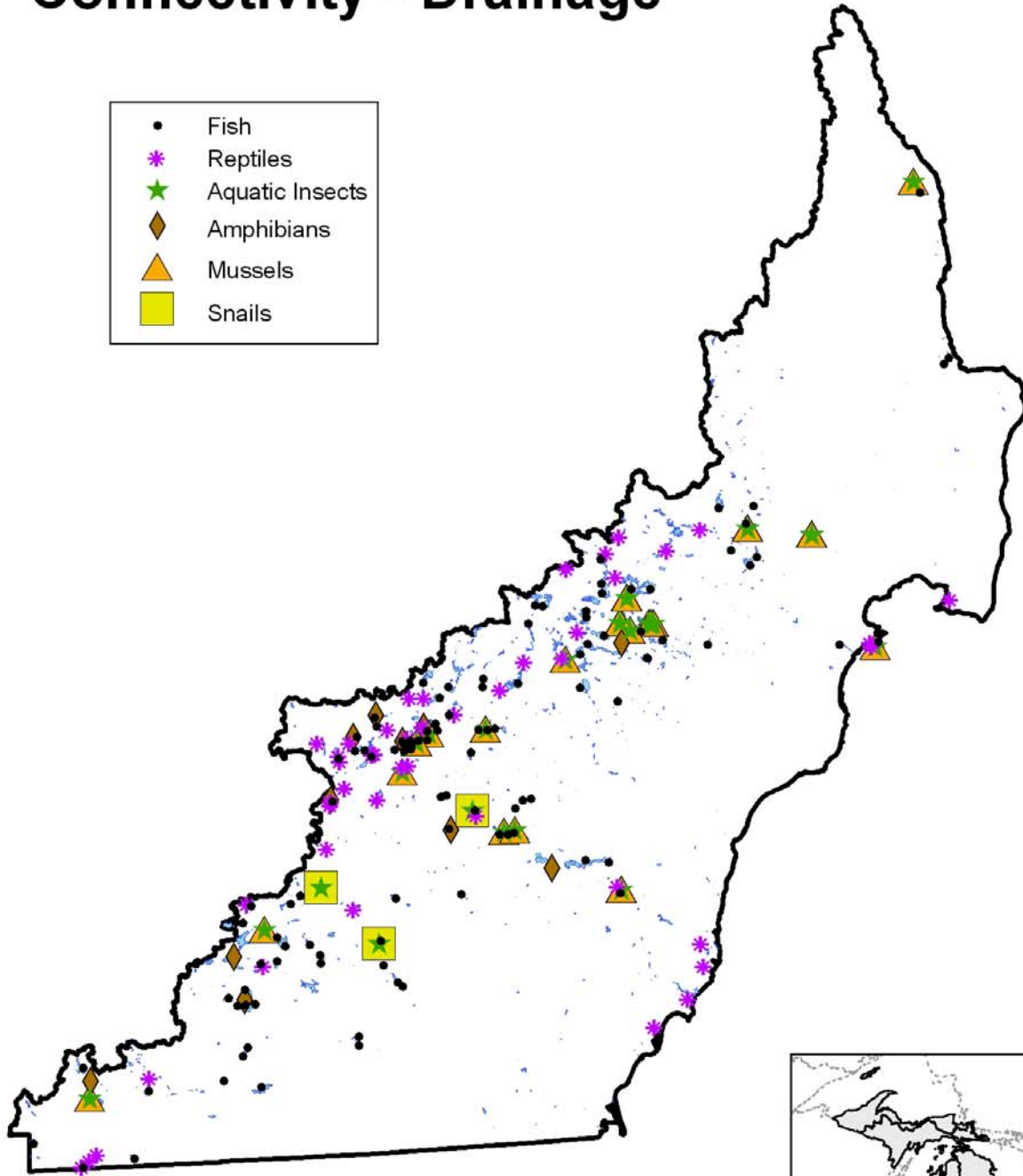


Lake Characteristic: Connectivity - Drainage

- Fish
- * Reptiles
- ★ Aquatic Insects
- ◆ Amphibians
- ▲ Mussels
- Snails



Lake Characteristic: Connectivity – Drainage

Description

Drainage lakes have permanent or temporary stream connections, which allow for the movement of aquatic species. These lakes are more likely to have high buffering capacity (and so higher alkalinity) relative to seepage lakes.

General Condition of Feature

No data available.

Associated Species of Greatest Conservation Need

In the literature examined for species habitat information, drainage lakes were not mentioned.

Associated Threats

MODIFICATION OF NATURAL PROCESSES

- Fragmentation: lake-level control structures and dams

HABITAT CONVERSION

- Wetland modification: destroy wetlands through dredge and fills
- Dredging: lake outlets, outflow and inflow wetlands

Conservation Actions Needed (Threats addressed)

LAND, WATER & SPECIES MANAGEMENT

- Allow seasonal flooding (altered hydrologic regimes)
- Operate remaining dams and lake-level control structures as run-of-the-river (altered hydrologic regimes, dams)
- Remove unnecessary dams and lake-level control structures (altered hydrologic regimes, dams)

LAW & POLICY

- Protect the public trust by requiring dam owners to make appropriate financial provision for future dam removal (dams)
- Work with Drain Commissioners to allow or closely mimic natural hydrologic processes on legally controlled lake-level control structures (altered hydrologic regimes)
- Work with Drain Commissioners to use natural channel processes to allow a river to manage sediment and water flow and decrease the amount of channelization needed (altered hydrologic regimes, altered sediment loads)

EDUCATION & AWARENESS

- Educate riparian land owners on the value of the natural habitat and the ecological services it provides (riparian modification, social attitudes)

Research and Survey Needs

- Determine the condition of drainage
- Determine the number of lakes in Michigan that have drainage
- Determine the species that use drainage lakes and the relative importance of the habitat to species

Monitoring

- Hydrologic affects on drainages that are controlled by lake-level control structures or dams
- Loss of natural inflow and outflows