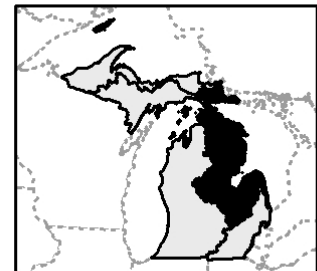


Aquatic Characteristic: Woody Structure

No Data

0 15 30 60
Kilometers

0 5 10 20
Miles



Aquatic Characteristic: Woody Structure

Description

Woody structure is the physical structuring under water by woody material of various sizes both live and dead. This can include coarse (logs) and fine (twigs) woody debris, as well as tree or shrub roots within the water.

General Condition of Feature

No data available.

Associated Species of Greatest Conservation Need

INSECTS

- splendid clubtail (*Gomphus lineatifrons*)
- stygian shadowdragon (*Neurocordulia yamaskanensis*)
- a stonefly (*Taeniopteryx burksi*)
- a stonefly (*Taeniopteryx maura*)
- Hungerford's crawling water beetle (*Brychius hungerfordi*)

FISH

- finescale dace (*Phoxinus neogaeus*)
- golden redhorse (*Moxostoma erythrurum*)
- pirate perch (*Aphredoderus sayanus*)

AMPHIBIANS

- blue-spotted salamander (*Ambystoma laterale*)
- four-toed salamander (*Hemidactylium scutatum*)
- mudpuppy (*Necturus maculosus maculosus*)
- Blanchard's cricket frog (*Acris crepitans blanchardi*)
- western chorus frog (*Pseudacris triseriata triseriata*)
- pickerel frog (*Rana palustris*)
- northern leopard frog (*Rana pipiens*)

REPTILES

- queen snake (*Regina septemvittata*)
- Blanding's turtle (*Emydoidea blandingii*)
- wood turtle (*Glyptemys insculpta*)

MAMMALS

- water shrew (*Sorex palustris*)

Associated Threats

HABITAT CONVERSION

- Dredging and channelization: Dredging; Filling
- Riparian modification: Lack of recruitment from riparian due to removal of riparian vegetation; Shoreline development; Land use practices

CONSUMPTIVE BIOLOGICAL RESOURCE USE

- Forestry practices: Logging practices

NON-CONSUMPTIVE BIOLOGICAL RESOURCE USE

- Other structure removal: Removal by people for canoeing, etc.

EDUCATION

- Social attitudes: Education needed on the importance of woody structure

Conservation Actions Needed (Threats addressed)

LAND, WATER & SPECIES MANAGEMENT

- Allow seasonal flooding (riparian modification)
- Discourage log salvage operations, especially where woody structure is limited (forestry practices)
- Educate canoeists and snowmobile users about the importance of woody structure to water bodies and their communities (social attitudes, other structure removal)
- Maintain and rehabilitate woody riparian vegetation in wood-poor systems (dredging and channelization)
- Maintain sufficient riparian buffers (forestry practices, riparian modification)
- Rehabilitate channel diversity (dredging and channelization)

LAW & POLICY

- Continue developing and refining planning and zoning regulations and ordinances (other structure removal)
- Continue to work on forest certification endeavors (forestry practices)
- Encourage green-space planning (riparian modification)
- Restrict dredging and channelization (dredging and channelization)

EDUCATION & AWARENESS

- Educate the public about the importance of woody structure to water bodies (social)
- Work with and educate Drain Commissioners on the use of natural channel processes to allow a river to manage sediment and flow and decrease the amount of channelization needed (dredging and channelization)

Research and Survey Needs

- Determine life history requirements for SGCN associated with woody structure
- Determine the condition of woody structure habitat in watersheds
- Educate the public on the role and value of woody structure

MICHIGAN'S WILDLIFE ACTION PLAN
AQUATIC SYSTEMS: LAKE HURON BASIN

- Work with watershed councils and conservation groups to rehabilitate wood habitats and teach its value

Monitoring

- Dredging and channelization
- Erosion
- Macrophyte and woody structure removals
- Riparian modification
- Stream modification