

Hodunk-Messenger Lake Board

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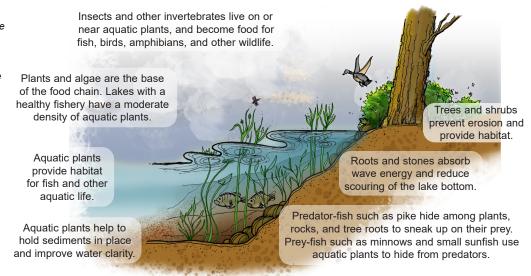
Branch County Commissioner

Hodunk-Messenger Lake Chain Aquatic Plant Control Program 2022 Activity Summary

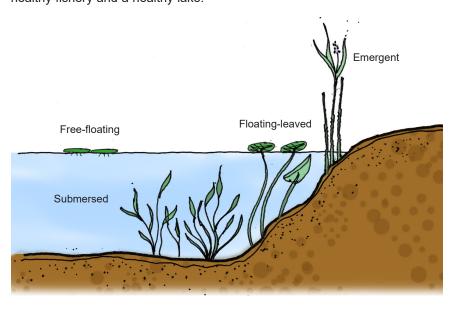
A publication of the Hodunk-Messenger Lake Improvement Board

For many years, a nuisance plant control program has been ongoing on the Hodunk-Messenger Lake Chain. The primary objective of the program is to prevent the spread of invasive aquatic plants while preserving beneficial plant species. This report contains an overview of plant control activities conducted on the Hodunk-Messenger Lake Chain in 2022.

Aquatic plants are an important component of lakes. They produce oxygen during photosynthesis, provide food, habitat and cover for fish, and help stabilize shoreline and bottom sediments.



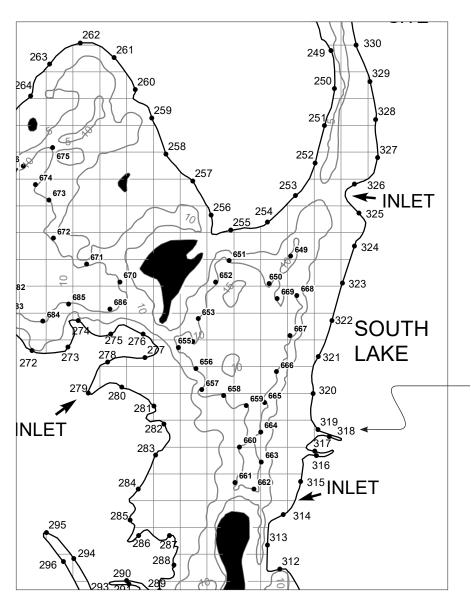
There are four main aquatic plant groups: submersed, floating-leaved, free-floating, and emergent. Each plant group provides important ecological functions. Maintaining a diversity of aquatic plants is important to sustaining a healthy fishery and a healthy lake.



Environmental Consultant
Progressive AE

Herbicide and Harvesting Contractor
PLM Lake and Land Management Corp.

Plant control activities are coordinated under the direction of an environmental consultant, Progressive AE. Biologists from Progressive conduct GPS-guided surveys of the lake to identify problem areas, and georeferenced plant control maps are provided to the plant control contractor. Follow-up surveys are conducted throughout the growing season to evaluate results and the need for additional treatments and harvests. In 2022, surveys of the lake were conducted on May 11, June 13, June 16, July 18, August 10, and August 22.



GPS reference points established along the shoreline and drop-off areas of the Hodunk-Messenger Lake Chain are used to guide plant surveys and to accurately identify the location of nuisance plant growth areas.

Plant control in the Hodunk-Messenger Lake Chain involves the select use of herbicides and mechanical harvesting to control invasive plant growth. Primary plants targeted for control in the Hodunk-Messenger Lake Chain include Eurasian milfoil and starry stonewort. Both of these plants are non-native (exotic) species that tend to be highly invasive and have the potential to spread quickly if left unchecked.





Eurasian milfoil (*Myriophyllum spicatum*)

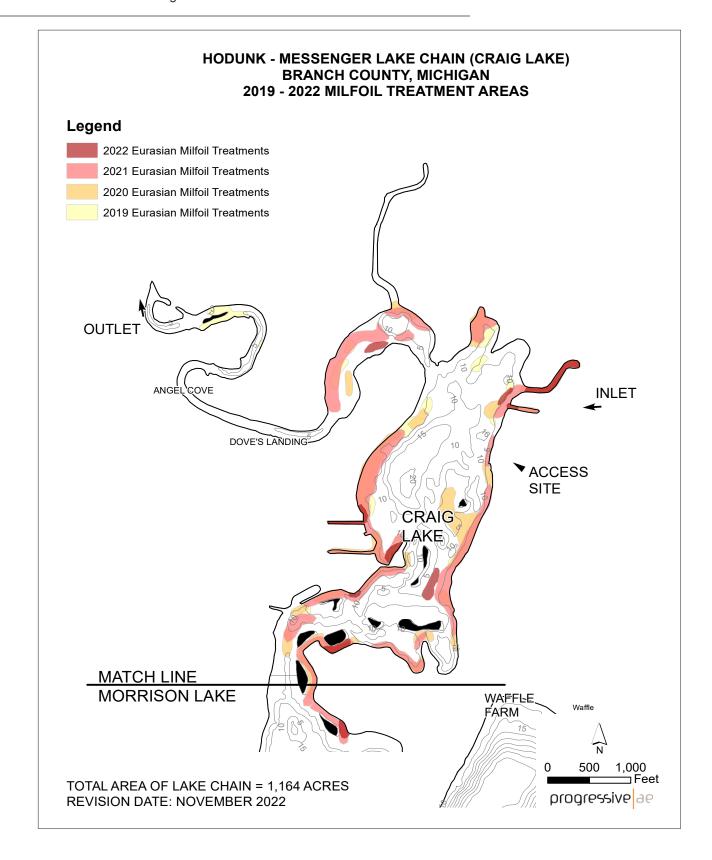
Starry stonewort (Nitellopsis obtusa)

Plant control activities conducted on the Hodunk-Messneger Lake Chain in 2022 are summarized in the table below.

HODUNK-MESSENGER LAKE CHAIN 2022 NUISANCE AQUATIC PLANT CONTROL SUMMARY

Date	Work Type Acres Treated/Ha	Acres Treated/Harvested	
April 28	Herbicide: Algae	38.75	
May 11	Survey		
May 19	Herbicide: Algae, E. milfoil, curly-leaf, starry stonewort	33.00	
June 13	Survey		
June 13-16	Harvest: Starry stonewort, natives	52.50	
June 16	Survey		
June 23	Herbicide: E. milfoil, curly-leaf, starry stonewort, natives	34.25	
June 30	Herbicide: Algae	44.00	
July 7	Herbicide: Natives	1.50	
July 18	Survey		
July 27	Herbicide: Algae, E. milfoil, starry stonewort, natives	52.50	
August 8-10	Harvest: Natives	15.25	
August 10	Survey		
August 22	Survey		
August 30	Herbicide: Algae, E. milfoil, starry stonewort, natives	42.50	
Total		314.25	

Eurasian milfoil distribution from 2019 to 2022 is shown in the figures on pages 4 through 7. Eurasian milfoil continues to be a top priority for control on the Hodunk-Messenger Lake Chain.



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