

Lake Stewards of Maine



Casco Bay Monitoring Network

20230511

Lake Stewards of Maine (LSM) Mission

is to protect Maine lakes and to promote lake stewardship through widespread citizen participation in the gathering and dissemination of credible scientific information pertaining to lake health.



LSM General Info

The oldest, and one of the largest state-wide citizen lake monitoring programs in the U.S.

Training and technical support for thousands of volunteer citizen scientists statewide

539 lakes are actively monitored by over 1,200 certified monitors



Collect water quality data on ~85% of all Maine lake acreage



LSM Water Quality (WQ) Monitoring 2022

Held over 60 WQ training sessions

Over 70 new volunteers trained; over 350 volunteers recertified

Approximately 3,000 WQ sampling events took place

Performed monitoring activities during alum application for Long Pond in Parsonfield

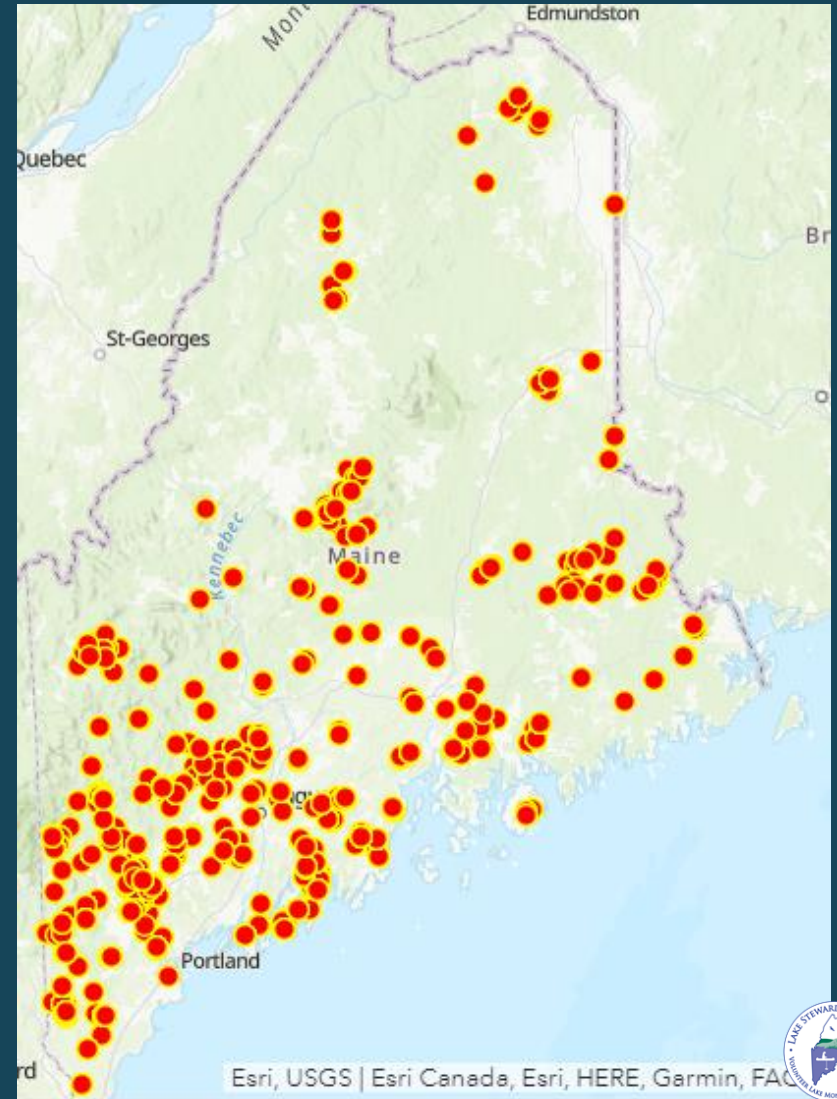


LSM Water Quality (WQ) Monitoring 2022

Warm, dry summer

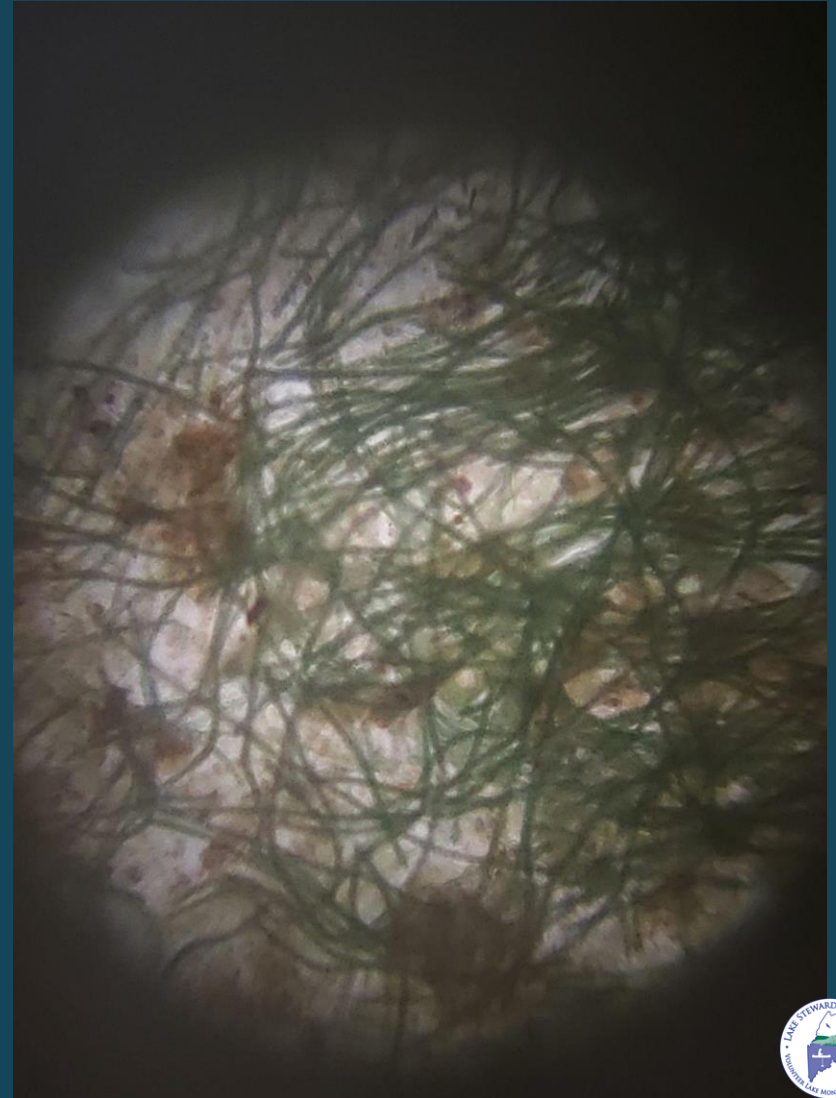
Average temp for all sampling in surface water 21.27°C. Bias with condition, location, and time periods.

Generalized increase in WQ transparency during the summer months, with significant negative rebound in autumn



LSM Water Quality (WQ) Monitoring 2022

Several (relatively) new cyanoblooms in the state:
Brewer Lake, Orlington;
Clary Lake, Jefferson;
Damariscotta Lake, Lincoln Co;
Hobbs pond, Norway; and,
Indian Lake, Whiting.

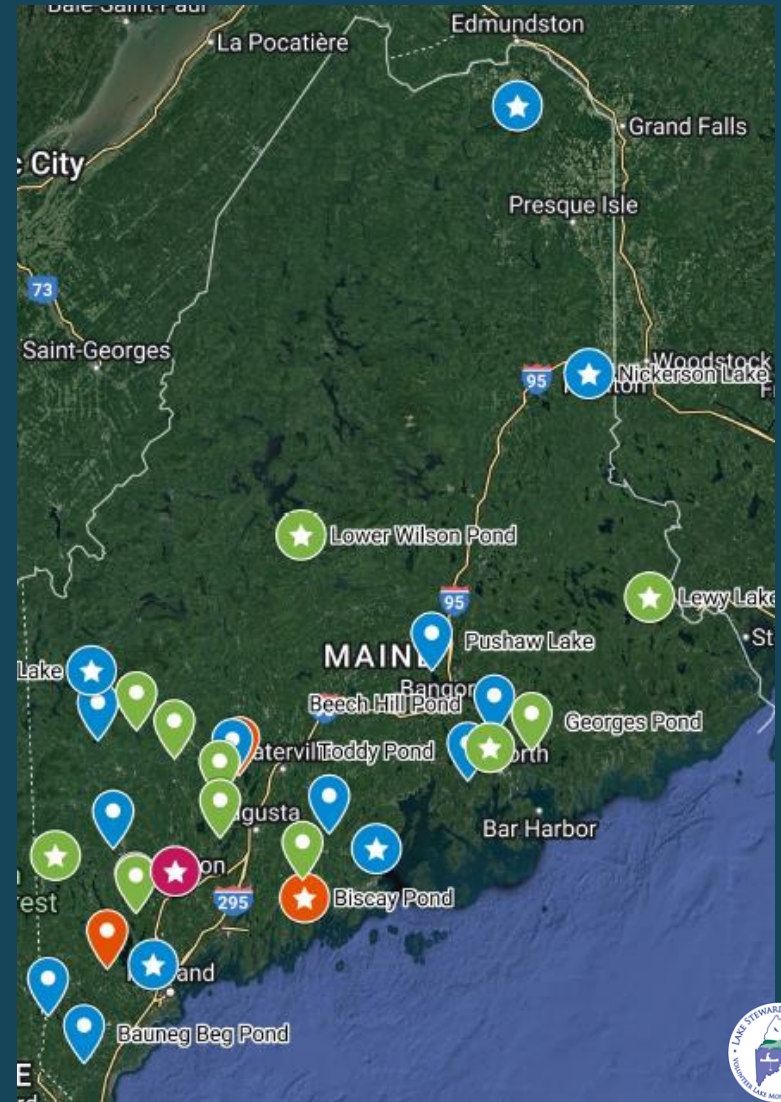


Looking Ahead: WQ Monitoring 2023

Over 40 WQ training sessions planned (map to right)

Cyanobacteria monitoring testing strips as response measure

Pilot study with Maine Lakes and Maine DEP for Freshwater Healthy Beaches Program

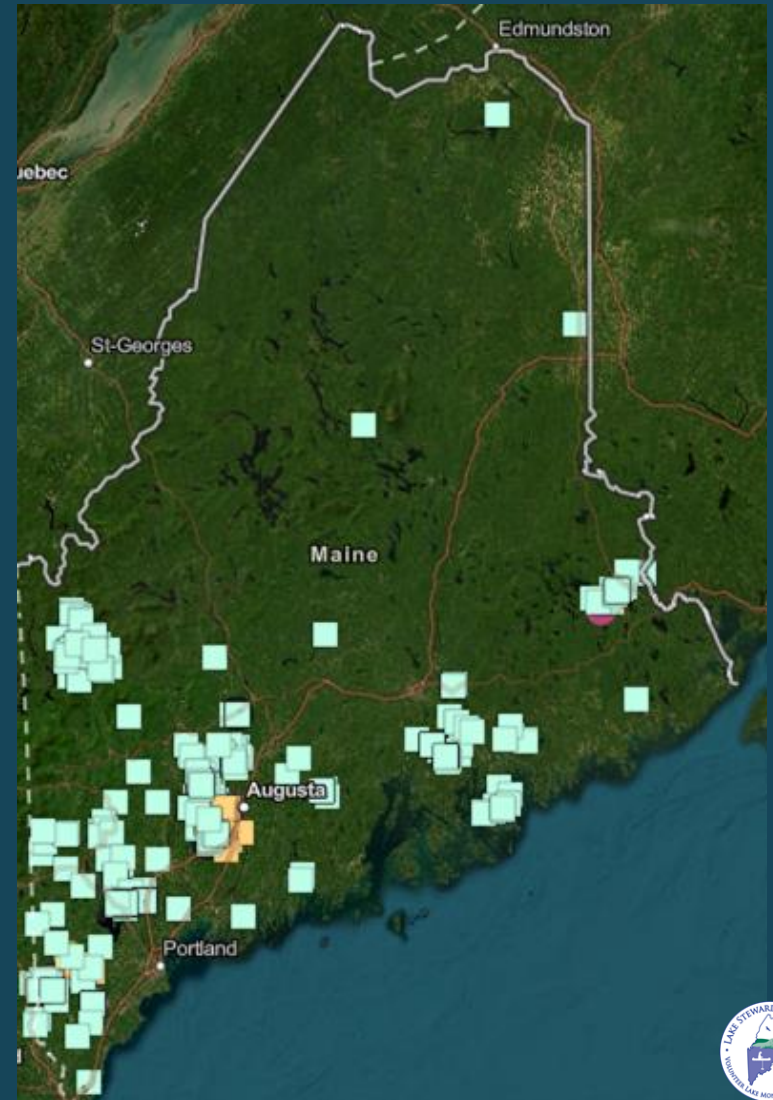


LSM Aquatic Invasive Species (AIS) 2022

508 AIS surveys were conducted by LSM volunteers in 2022

17 in-person workshops in 14 of Maine's counties. 180+ volunteers participated.

LSM organized volunteers (over 150) to assist in surveys on 2 infestations (Alamoosook, Hancock; Big, Washington).



Looking Ahead: LSM AIS 2023

New AIS Program Director,
Brett Willard. Christine
Guerette, Program Manager

Virtual & in-person workshops
will be held across the state,
June through September

New certification system with
tiers so that every volunteer
can be certified at a level they
are comfortable with.



Looking Ahead: LSM AIS 2023

Continue plant identification services and DNA testing

Continue support to infested lake communities

Northern Maine Initiative: LSM volunteers will survey lakes in Aroostook County and LSM staff is working with local organizations to build AIS capacity in Northern Maine. Scheduled for late August.



LSM Field Guide



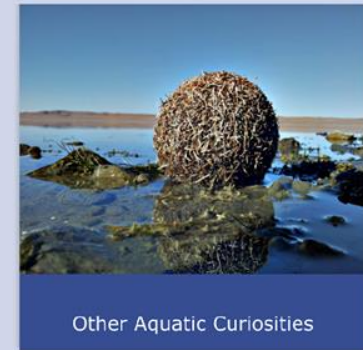
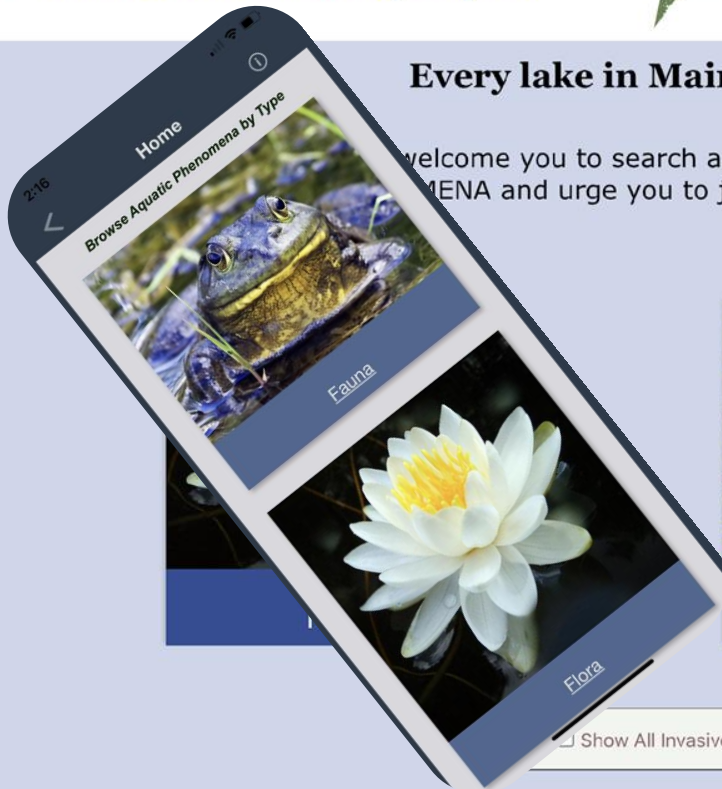
MAINE FIELD GUIDE TO AQUATIC PHENOMENA

CAN'T FIND
what you're looking for?

SUBMIT A NEW
SPECIES ENTRY!

Every lake in Maine is a place of wonder and discovery.

Welcome you to search a wide array of aquatic FLORA, FAUNA, and OTHER LAKE PHENOMENA and urge you to join us in the ongoing development of this crowd-sourced compendium.



☐ Show All Invasives

Search by species name

Search

Red indicates a species is invasive; **green** indicates a native species.



LakesOfMaine.org Data Repository

Pageviews (2023): ~900,000

New developments for the site in the next year include: data queries, interactive maps, & navigation (wayfinding, UI/UX) improvements

Notices and advisories

The screenshot shows the homepage of the Lakes of Maine website. At the top, there is a logo for "LAKE STEWARDS OF MAINE" with a map of Maine and the text "Lakes of Maine". To the right of the logo are buttons for "Video Tour", "Donate", and a Facebook icon. Below the logo is a navigation bar with links: "Home", "Your Lake", "Data Visualizations", "Library", "Conservation", "Understanding", "Resources", "About / Contact". The main content area features a large image of sailboats on a frozen lake. To the right of the image is a "SEARCH for YOUR LAKE" form with input fields for "LAKE or TOWN or COUNTY or ZIP or MIDAS" and a "Search" button. Below the image, there is a section for "Damariscotta Lake (Lincoln County)" with a credit to Bill Buchholz. The bottom of the page is divided into three columns: "FEATURED LAKE" featuring Damariscotta Lake with a thank you note to Scott Williams; "WHAT'S NEW?" featuring a "Nearby Lake Navigation Map" with a description of its features and a small map; and "DID YOU KNOW?" featuring a notice about the "LSM / VLMP Celebrates 50 Years!" and a description of the lake data collection project.

LAKE STEWARDS OF MAINE
Lakes of Maine

Home | Your Lake | Data Visualizations | Library | Conservation | Understanding | Resources | About / Contact

SEARCH for YOUR LAKE

LAKE
or
TOWN
or
COUNTY
or
ZIP
or
MIDAS

Damariscotta Lake (Lincoln County)
[Image credit: Bill Buchholz (Chickawaukie Ice Boat Club)]

FEATURED LAKE

Damariscotta Lake
Thanks to Scott Williams for contributing this article!

About Damariscotta Lake
Damariscotta Lake is situated in the towns of Jefferson, Nobleboro and Newcastle, in Lincoln County. This large and diverse lake encompasses a surface area of nearly 4,700 acres, has a perimeter of 21.4 miles, and is among Maine's best known and visited lakes, due in part to a popular State Park at the northern tip of the lake. There is a healthy

WHAT'S NEW?

Nearby Lake Navigation Map
Easy to use navigation!

You may have noticed a new feature on the Lakes of Maine website. On any lake's overview page, you can now access nearby lakes by clicking either on the pink site markers on the map or by selecting one from the nearby lakes listed beneath the map.

DID YOU KNOW?

LSM / VLMP Celebrates 50 Years!

A half-century that has seen thousands of volunteers collecting data from over 1000 Maine lakes!

Over the past 5 decades, volunteers & others throughout Maine have produced an incredibly rich lakes data set - including more than 138,000 Secchi disk measurements, over 44,000 temperature-dissolved oxygen profiles, and many other measurements on lake chemistry & biology.



Questions?

