



Keeping a watchful eye on the health of Maine lakes since 1971



Our Mission ~ 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



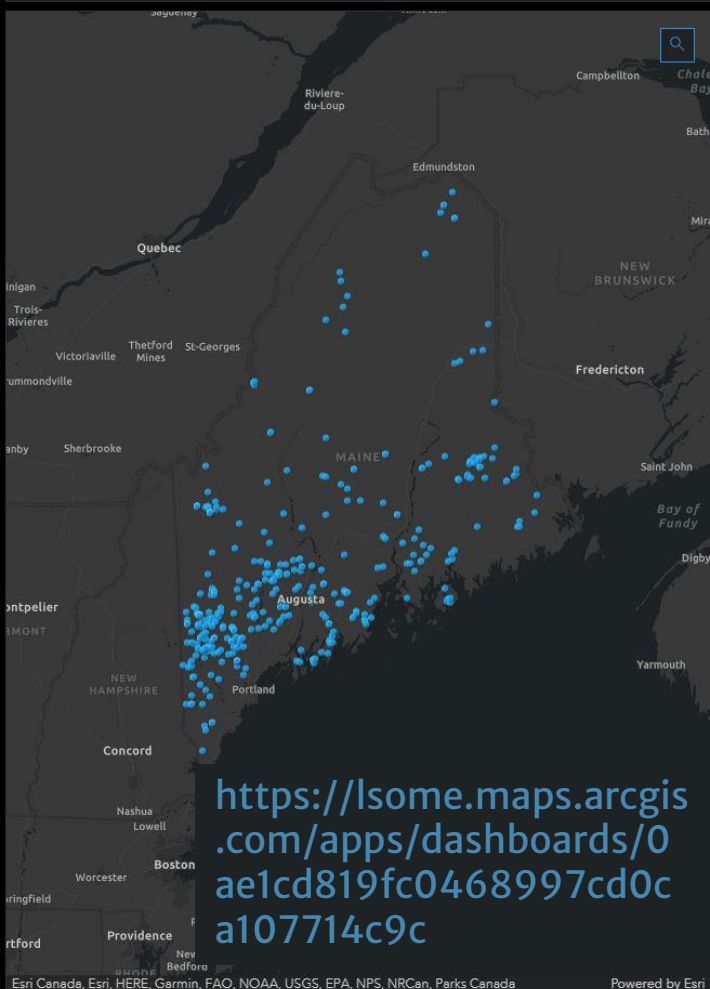
WHAT DO LSM STEWARDS DO?

- Monitor a wide range of indicators of water quality
- Alum treatment monitoring
- Assess watershed health and function
- Lake ice cover tracking (in and out)
- Screen lakes for invasive aquatic plants and animals
- Inventory native aquatic plants
- Help track the effects of climate change on lakes
- Develop and lead conservation efforts in their lake communities
- Play key leadership roles in communities & LSM



2020/21 WATER QUALITY DATA COLLECTION

LSM Water Quality Collection Range
sample years 2020 - 2021

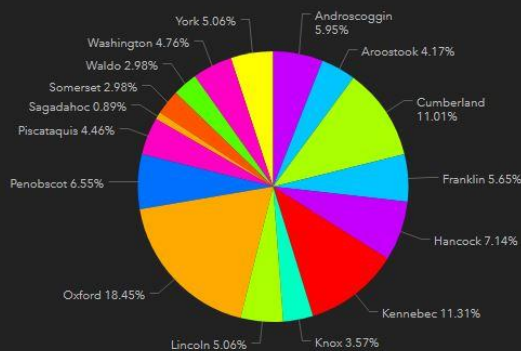


Individual sites sampled*

351

*This number does not include multiple instances where several sites were sampled from but they were not captured as separate geospatial instances.

Distribution between counties**



**This graph does not include several instances where a lake is within multiple counties.

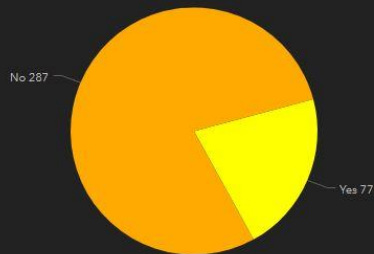
New near-real time data process will be launched in 2022. Integration of Survey123 and ArcGIS with our QA/QC process to address temporal lag.

We have already launched this initiative with the IAS program.

2021 INVASIVE AQUATIC SPECIES/NATIVE AQUATIC PLANT DATA COLLECTION

Lake Stewards of Maine Invasive Plant Survey Data

Presence of an Invasive Aquatic Plant

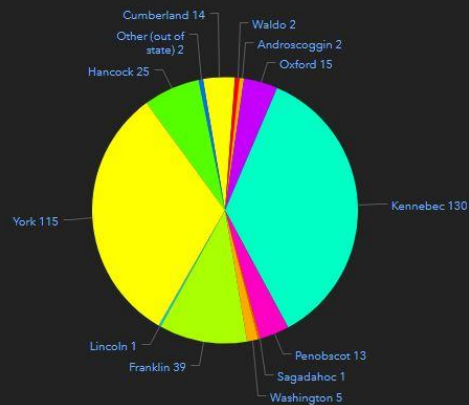


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Invasive Aquatic Plants

Species of concern

Surveys in each county



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Total number of surveys performed in 2021

364

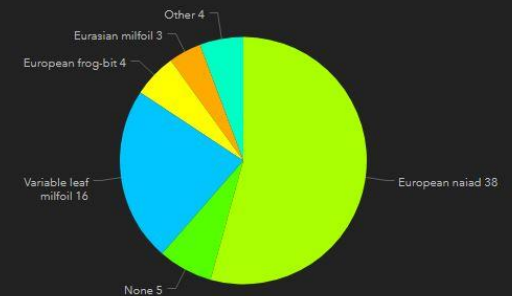
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Survey Count

Avg Time

Group Size

Point observations of IAS



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Point observations

Area observations


LAKE OF MAINE WEBSITE



Pageviews in 2021:
1,030,683



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

FEATURED LAKE	WHAT'S NEW?	DID YOU KNOW?
<p>Damariscotta Lake</p> <p><i>Thanks to Scott Williams for contributing this article!</i></p> <p>About Damariscotta Lake</p> <p>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</p>	<p>Nearby Lake Navigation Map</p> <p><i>Easy to use navigation!</i></p> <p>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.</p> 	<p>LSM / VLMP Celebrates 50 Years!</p> <p><i>A half-century that has seen thousands of volunteers collecting data from over 1000 Maine lakes!</i></p> <p>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.</p>



MAINE FIELD GUIDE TO AQUATIC PHENOMENA

IOS ~ ANDROID ~ WEBSITE

maineaquaticfieldguide.org/#!/



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.

We 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.



Flora

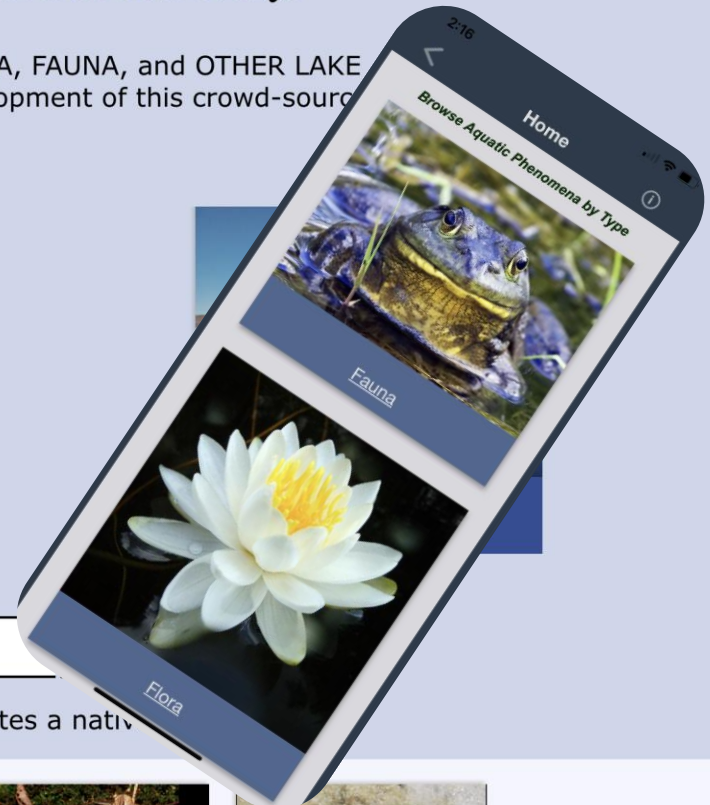


Fauna

☐ Show All Invasives

Search by species name

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





CROWD SOURCING

Users propose and help build new content:
new species, new images, info updates



BIG LAKE MILFOIL RESPONSE



PROJECT GOALS

- to complete (to the extent possible) a comprehensive (Level 3) survey of the lake to determine the extent of the infestation; to extend the survey to other waters of the region;
- to continue to build and strengthen partnerships in the region;
- to train and engage people of the region in the work of prevention and early detection; and,
- to continue milfoil removal efforts in Big Lake.

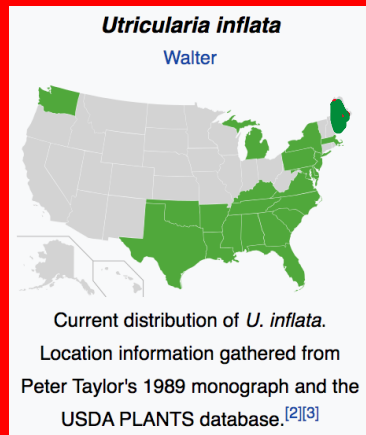


COMMUNITY RESILIENCE



- People power
- Systems thinking & sustainability thinking
- Adaptability & transformability
- Courage & tenacity!





SWOLLEN BLADDERWORT

U. inflata

- Native to SE US
- Populations in WA, NY, MA & ME are most likely the result of recent introductions
- listed as invasive in MA; not yet listed in ME
- Present in Lake Arrowhead and Horseshoe Pond (Chesterville)
- *U. inflata* can tolerate a wider range of habitats and conditions than most carnivorous plant species



Contact Information

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