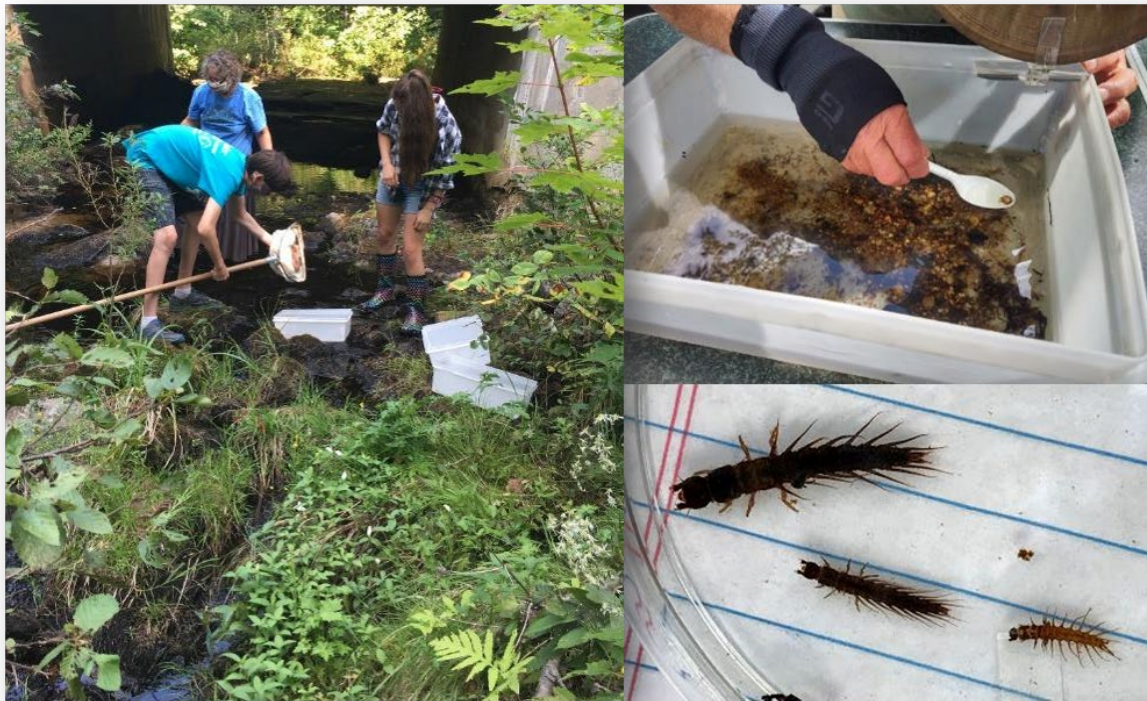




Stream Explorers

Recruit, train, and support volunteers and educators to collect and identify stream macroinvertebrates

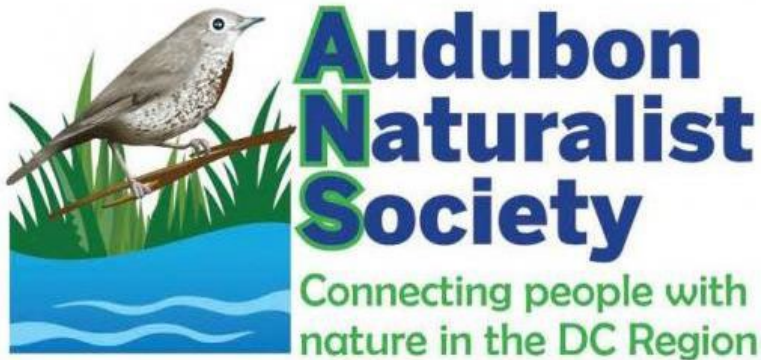


Inspired by Successful Volunteer Monitoring Programs



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

Riffle Bioassessment by
Volunteers (RBV)



STROUDTM
WATER RESEARCH CENTER

MAINE 
AUDUBON

Strong Partnerships



Portland
Water
District



Strong Partnerships

- Maine Audubon
 - **Hannah Young** (Coordinator)
 - Sally Stockwell
- Maine DEP
 - Tom Danielson (Guides & Keys)
 - Doug Suitor (Survey 123 app & ArcGIS Online project)

Funding



Equipment donated and loaned by partnering organizations

Project Goals

1. Provide screening-level macroinvertebrate data for streams

- Maine DEP will use the data to target streams for follow up biological assessments

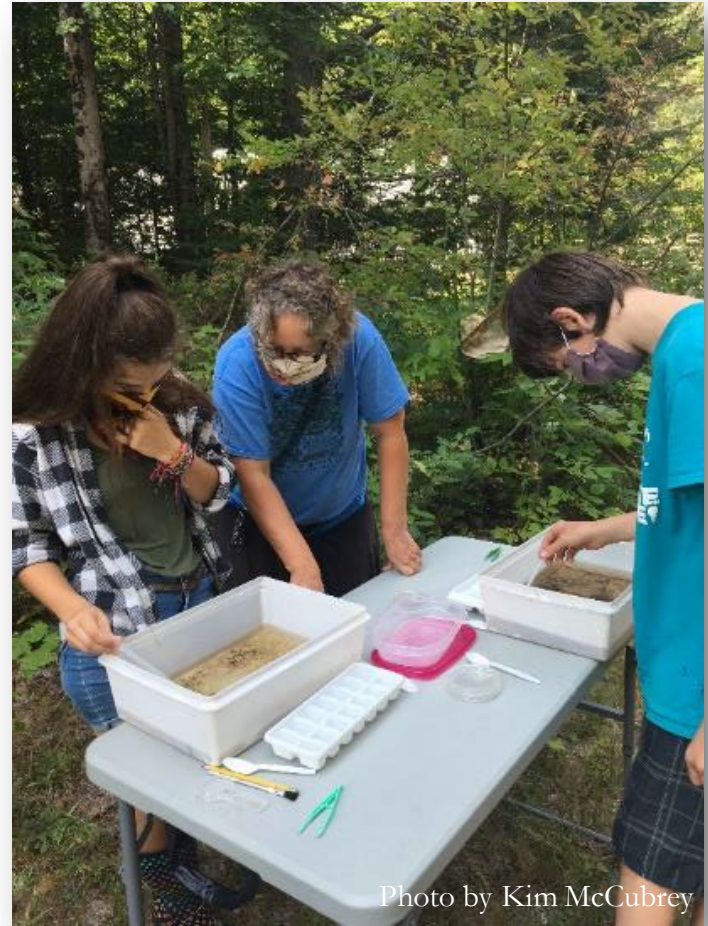


Photo by Kim McCubrey

Project Goals

2. Environmental education
3. Build public support for the protection and restoration of streams



Photo by Bill Keller



Photos by Kim McGubrey



Robichaud



McEachen



Robbins



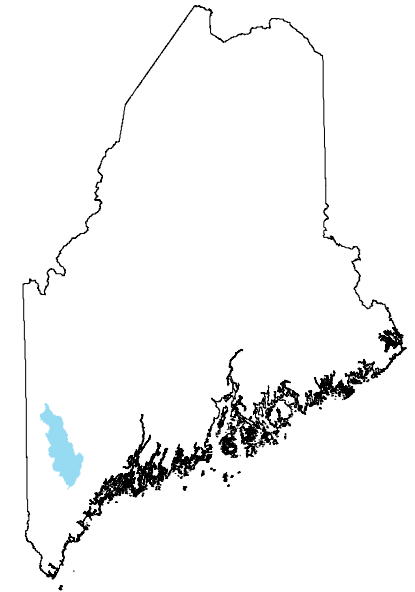
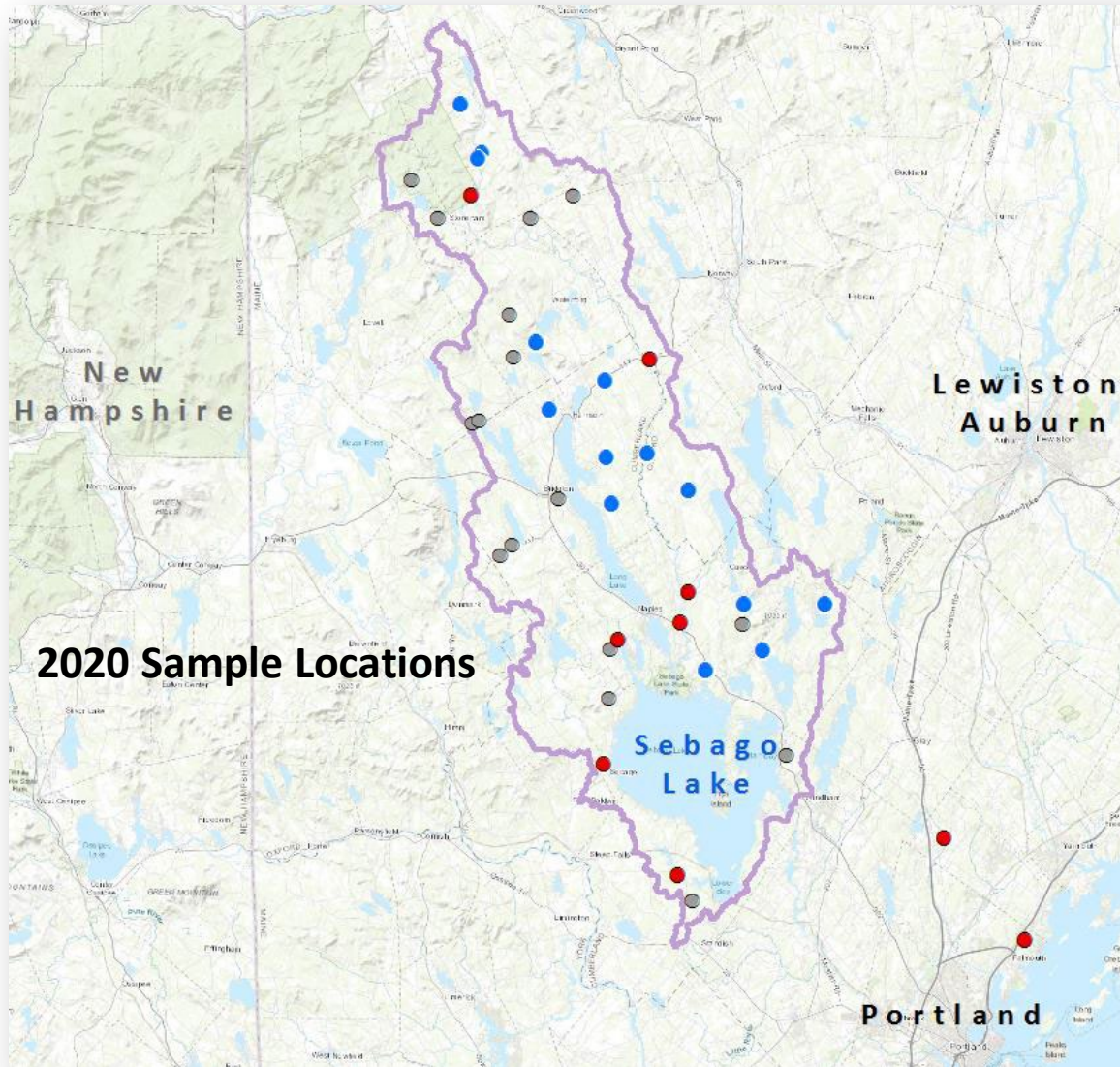
Mailloux






Keller

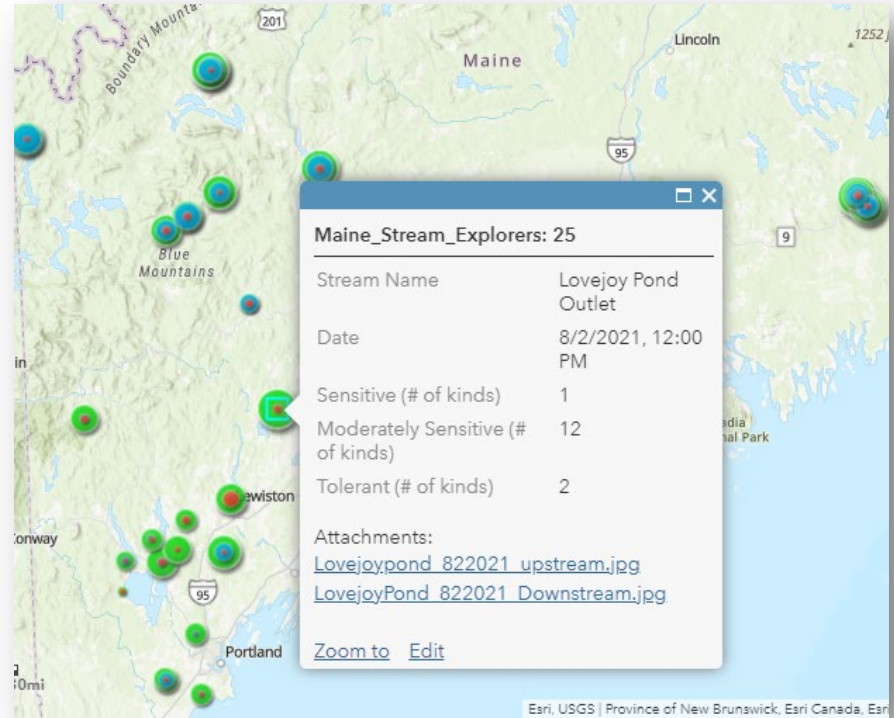
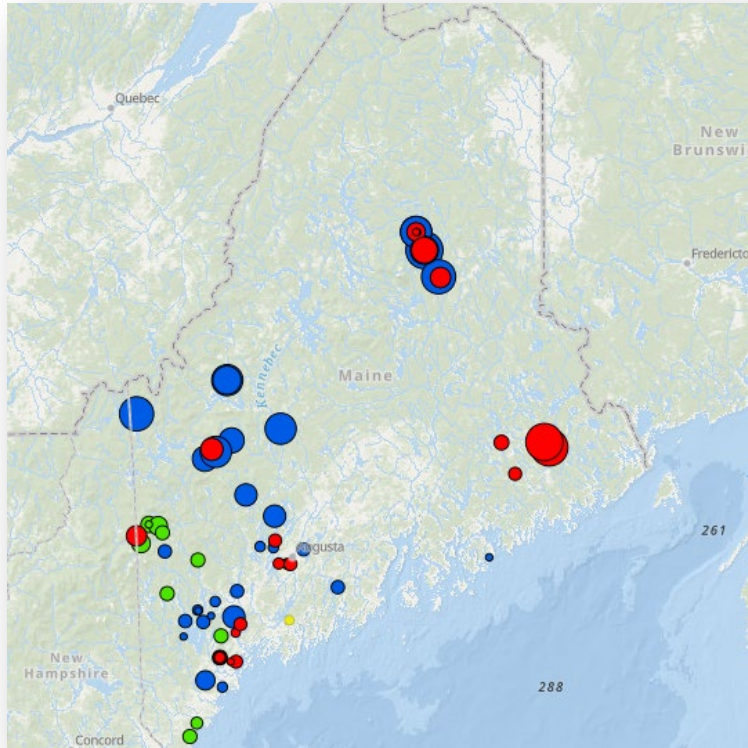


Initial Project Area: Sebago Lake Watershed



-  Scouted but not sampled yet
-  Stream Explorers
-  Stream Explorers & DEP Methods

2021/2022/2023 Sample Locations



What's in a Sampling Kit?



This is a typical Stream Explorers kit. We will adjust the number of materials based on the number of students - we don't expect 20 students to share one net!

Quality Assurance / Quality Control

Materials

Workshops

Webinars

Photographs

Quizzes

Comparison
samples



Images for Quality Control



Hannah Young



Eric Frohberg



Bill Keller



Kelly Pontbriand



Eric Frohberg



Eric Frohberg

Three Groups of Macroinvertebrates

Sensitive
to pollution



Moderately Sensitive
to pollution



Tolerant
of pollution



Survey 123 App for Data Entry

Maine Stream Explorers

Location


Stream Name

Town

Date

Time

First geopoint:



San Bernardino County, Mexico


Let: Lon:

First geopoint X value

First geopoint Y value

Common Stonefly

Ameletus Agrallus Pteronarcys




F

C

A

Giant Stonefly




F

C

A

Tiny Stoneflies


Capnidae (Allacropis)



A

Dobsonfly and Alderfly

Allogamus (Dobsonfly) below Baileya (Alderfly) above below




F

C


A

Tubelet Caddisfly

View of Neurepsia (Polycentropodidae) from the side



View of Clinerea (Phlebotomidae) from the side and taken net



F

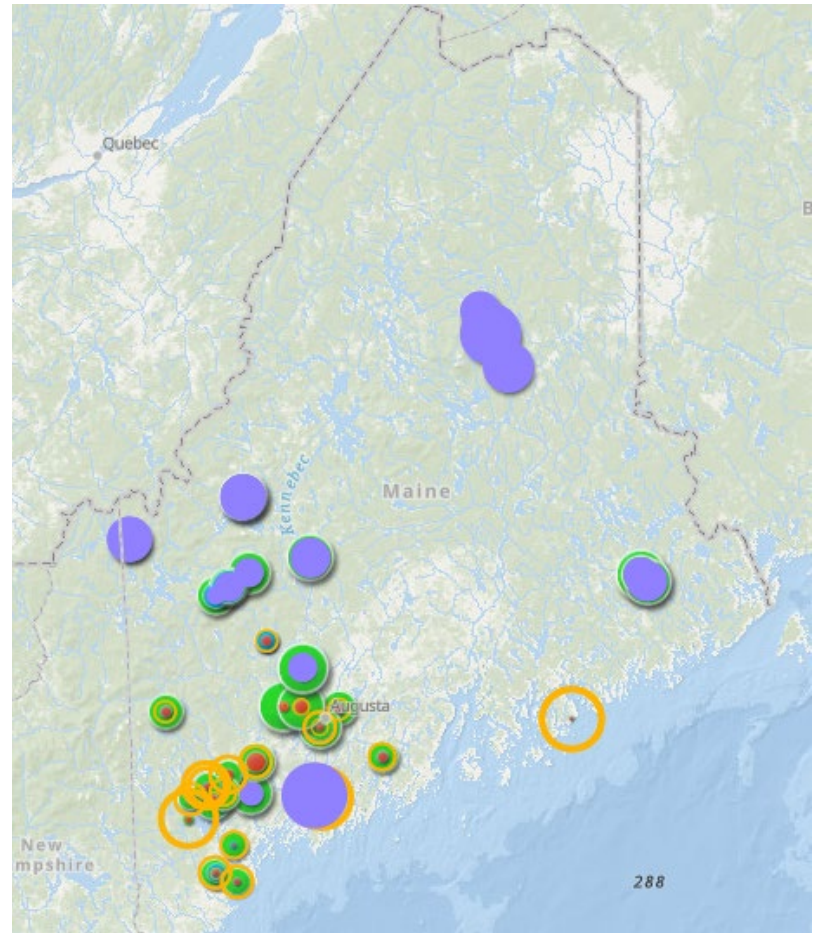
C

A

Map Viewer

See where everyone is surveying!

- <https://bit.ly/3AsYspS>
- Has all data
- 2024 data will feed in automatically if using Survey 123



[www.maineaudubon.org/ stream-explorers](http://www.maineaudubon.org/stream-explorers)

