

Who is the Target Audience for your Educational Efforts? (19 responses)

Audience	Percent Responding	Number Responding
K-12 Students	79	15
Teachers	47	9
Adults/General Public	95	18
Town or Local Officials	47	9
Peers/Professionals (Train the trainer)	21	4
Land Managers/Loggers	5	1

In what geographic area (within the lower Penobscot River Watershed) do you offer educational programs?

Location	Percent Responding	Number Responding
Anywhere in Lower Penobscot River Watershed	42	8
Only in Penobscot County portions of the Watershed	16	3
Only in Hancock County portions of the Watershed	16	3
Only in Waldo County portions of the Watershed	26	5
Bagaduce River Watershed	5	1
Brewer	5	1
Hampden and Winterport	5	1
Estuary/Marine parts of the River	5	1
Belfast	5	1

What type of educational experience do you offer? (note: did not include website/publications, as these are not experiences, but these should be captured)

Experience	Percent Responding	Number Responding
Presentation	95	18
Workshop	42	8
Training	26	5
One-Time Event	37	7
Series or Longer-Term Event	42	8
In-School	68	13
At other events (fairs, festivals)	47	9
At my location	26	5
Field Trips	11	2

Primary area of expertise

Area of Expertise	Percent Responding	Number Responding
Freshwater ecology	50	9
Marine ecology	11	2
Fisheries	28	5
Stormwater Management	17	3
Land Use Planning	11	2
Municipal Issues/programs	5	1
History/Wabanaki Culture	5	1
Forest Ecology	11	2
Regulatory	5	1
General/systems Ecology	11	2
Watershed dynamics/management	11	2
Wildlife Ecology	1	1
Sustainable Living	1	1

My Key Message Is:

The evidence of Wabanaki in Maine goes back 10,000 plus years. Wabanaki presence is inextricable from Maine history.

We want to involve the general public with the resource (Saltwater estuary) that they have.

Be Woods Wise - landowners and others should make informed decisions about the choices they make regarding trees and forests. Maine is 90% forested - we all depend on the forest.

School audiences: watershed concept, pollution prevention watershed associations: watershed protection measures, understanding lakes & ponds general Adults: understanding DEP regulations

Nonpoint source (stormwater) pollution is the primary threat to water quality in Maine as well as in the United States

Maine Sea Grant: The Penobscot River watershed is connected to the Gulf of Maine.

GMC: general water info.

Currently: We need to protect the Cove Brook Watershed and we all live in a watershed For the LPWC: The Penobscot River Watershed is worth another look, we live in it and we should protect it.

Maine Audubon connects people with nature

Everything on earth is interdependent, based on a web of relationships. These relationships are crucial to understand, instead of breaking them and interfering with them.

Making available to students and interested parties the physical location of the historic Penobscot Salmon Club, its environs, history and culture.

My Desired Outcome Is: (as the result of my environmental effort...)

participants will have a sense of the rich and immense history, and contributions that Wabanaki have made to regional history. And most importantly, they will know that Wabanaki are still a presence in Maine.

Those who love the River will spread the word and involve more people.

seek professional assistance (MFS, professional foresters, professional loggers) in land use activities landowners and other decision makers develop plans for long term conservation

Students: will know 3 things they can do to protect local waters

watershed associations: know resources for protecting their resources, know 2 things they can do to protect waters

adults: understand DEP regulations or know who to call for help

Participants will understand the threat to water from nonpoint (stormwater) pollution. Participants will be able to name three things they can personally do to reduce the threat from NPS pollution. Participants will change their lawn care behavior (fertilizer use) to reduce phosphorus and nitrogen inputs to the Penobscot River watershed streams.

As a result of our educational events, participants will know that there are Atlantic salmon in the Penobscot River, they are in danger of extirpation, and that research and management are occurring to prevent their extirpation.

Maine Sea Grant: Maine residents and visitors will understand freshwater connections to the Gulf of Maine.

Our desired outcome is that the citizens of Hampden and Winterport feel connected to the Cove Brook and Penobscot River watersheds, culturally and they think about their affects locally.

will want to protect the environment

Participants will be motivated to take better care of the earth, locally and globally.

All the above. Have a better total education/ understanding of their river and bay. It's impact/ importance to themselves. Empowered to understand/ know.

What resources do you have available?

Resource	Percent Responding	Number Responding
Curricula	47	9
Models	32	6
Displays	58	11
Field Trip Opportunities	53	10
Web-based Information	42	8
People	89	17
Facilities	63	12
Other	63	12

k-12 curriculum units regarding Wabanaki history in Maine.

Maine Stream Team Program

publications (available; summary forest land use data (available); some GIS resources in house (may be available to others for specific projects)

curricula - activities, grade appropriate, and person to teach them from grade 3-12 models - groundwater, watershed displays - LakeSmart; lake protection,... web - student activities, resources for teachers, regulations, links to other organizations for references speakers on the regulations, environmental educators to go into the classroom (as demand allows)

Project WET, Northern Maine Children's Water Festival, Maine Water Conference, Spring Running, publications, displays, Web sites (A Field Guide to Aquatic Phenomena, Penobscot Synthesis)

People: speakers, workshop presenters and information resources (available) Facilities: meeting room (available)

Local trails, meeting room at library. These are all in public domain.

People:we make liberal use of human/ governmental resources of the area. Many are fellow members. Facilities: all listed plus local facilities such as the salmon clubs, sewer facilities, etc. You've never had pizza till you've had pizza at Brewer Waste Water Treatment plant. Yummy!!

US Fish & Wildlife Service facility at Craig Brook National Fish Hatchery for any EE use by the public.

- curricula - currently under development related to sustainable living - web - site with links to educational resources for forestry and wildlife, will be adding sustainable living links in future - people - Extension educators across the state with varying expertise - facilities - on UM campus, in county extension offices, at Tanglewood 4-H Camp and Learning Center - for those interested in using extension resources - contact the relevant individual or office

Please list any resources you do not have/gaps you can identify...

Personnel- We are grossly understaffed and are currently performing all the public education that we have time for.

Power point program for laptop Office space grant writer

media/marketing/outreach resources are limited (hence the need to network)

An outreach coordinator

Staff with Web design and GIS expertise.

Access to the river (including trails) Informational brochures Newsletter funds

We sorely need reps to lobby our state legislature on issues of natural resources, trail making, getting people outside in healthy activity, land and habitat conservation, and public access. The Maine Learning Results need to be broadened to encompass sustainable living, systems thinking, and ecological principles.

Qualified paddlers (Riverkeepers) to pilot the 28' vouyenger canoes and could use more "presenters" at land based stations.

Resources already mentioned are available through location and member expertise!

Funding dollars: (We area federal facility; support dollars are appropriated by Congress.)

If you currently offer K-12 school education, which schools and grades are you currently reaching?

Wastewater and Stormwater education is focused on Brewer Middle School 6 and 7 grade Science Classes. WE do in-classroom training, tours and catchbasin stenciling annually. Penobscot Riverkeepers- We host them 4-5 trips per year with Middle School and High School aged students from several schools in the area. We most always host Brewer High School, John Bapst High School, Glenburn Middle School, etc. We perform tours, have a short training and then feed the students before they get back on the river and paddle to Hampden Marina.

Numerous schools throughout Maine, K-12.

Adams School, Castine Penotscot School, Penobscot

Various schools by request; multi-school events sponsored by others; various teacher groups

Belfast grade 4, I think

Any that will listen

Old Town Elementary (Sea Grant/PRRT) Northern Maine 5-6th grades through Children's Water Festival.

all

We help a little at our middle school with service learning projects. We hope to expand this opportunity.

To 10 schools per year out of a list of about two dozen. We turn down schools from away do to lack of "Riverkeepers"

Hampden (4th), Newburgh (3rd), Winterport (2nd), Bangor (5th), Brewer, Orono, Old Town, Milford, Veazie through Bangor Area Stormwater Group's AmeriCorps.

How do you evaluate your educational efforts? Have any measured outcomes?

WE have no measured outcomes but we haven't had any complaints.

No

Total landowners engaged; total hours of contact with various audiences (students, loggers, foresters, landowners, etc.)

We have evaluations for LakeSmart and school activities - available on request.

No evaluation. Mostly feedback from participants themselves.

Still working on it.

School based programs: pre- and post- intervention quizzes show increased knowledge about watershed concept and pollution after demonstrating the watershed model in the classroom. Currently working on parent knowledge and behavior change, using student-administered pre- and post- quizzes. For watershed audiences, have demonstrated increased knowledge about land use and water quality issues over others in their area who did not participate in our program through a mailed-survey—this evaluation will be repeated in the next year.

Currently none

we have post-experience questionnaires; they are qualitative not quantitative.

Our efforts are just beginning. We hope to expand our efforts as we go along. Outcomes would look like healthy people using trails, caring for the land and water in our watershed, preserving habitat, and involved in affecting policy.

Too some extent success is measured by the demand of requests from teachers for us to take them out. We take out 800 to 1,000 kids a yr.