

Forest Pest Outreach and Survey Project FY2011

Cooperator:	Maine Department of Agriculture Conservation and Forestry, Division of Animal and Plant Health
State:	Maine
Project:	Forest Pest Outreach and Survey Project (FPOSP) FY2011
Project Coordinator:	Karen Coluzzi
Agreement Number:	11-8223-0662-CA
Reporting Period:	Final (September 20, 2011 – January 31, 2013)

1. Approach

a. Describe specific activities and accomplishments...

The FY11 FPOSP Project in Maine focused its outreach on K-12 education. Two formal train-the-trainer workshops were conducted (5-hour trainings), two survey trainings were conducted (5-hour trainings), three refresher trainings were conducted (3-hours), and three K-12 survey trainings were held. This resulted in about 294 new volunteers. Approximately 100 outreach events were recorded, with an estimated 72,000 people reached.

We requested an extension for this project so that we could accomplish the goal of producing a mini-documentary on invasive forest pests.

1st Quarter Highlights:

- Lorraine presented a workshop on invasive forest pests at the Maine School Teachers Association Annual Conference, which resulted in a number of requests to work in and out of schools with children.
- China School Forest Day; Lorraine presented to 140 students of the China primary and middle schools about invasive forest pests, which led to the development of a children's book about the Asian longhorned beetle by the China Middle School's 5th grade class. The FPOSP grant purchased 200 copies that have been distributed to various libraries, and used as raffle items at events. The book can be seen and purchased here... <http://www.amazon.com/Look-out-Maine-here-come/dp/1469980959>
- The Maine Bug Watch facebook page was created (now has over 100 "friends").
- The Emerald Ash Borer Resource page was created and is hosted on the Department's, Division of Animal and Plant Health's website; www.maine.gov/eab

2nd Quarter Highlights:

- NISAW week. We coordinated a number of events during National Invasive Species Awareness Week to help promote invasive forest pest awareness in the state. See 2nd quarter report for details.
- University of Scouting. Lorraine and three of our volunteers staffed an outreach booth at the statewide Boyscout University event. Connections were made with some troop leaders who would like to include invasive forest pest training with the insect merit badge requirements.
- Forest Products Information Mailing. FPOSP helped the Wood Fiber Manager for Irving Woodlands put together information packets on invasive forest pests that included ALB, EAB,

HWA, brown spruce longhorned beetle, siren woodwasp, and firewood, and sent them to his purchase wood suppliers in Northern Maine.

3rd Quarter Highlights:

- LOTS of events centered on K-12 outreach. See 3rd quarter report for details.
- Ferry Beach State Park Survey and Training with homeschool families. Data entered in Beetle Detectives.
- Lorraine's involvement with the University of Maine's Center on Aging, Senior Volunteer Program (ENCorps) has led to numerous speaking engagements and additional FPOSP volunteers, as well as a feature photo on their website banner. She was invited to attend the Community Experience Project's NE Conference hosted by UMaine's ENcorp program, and was one of three senior volunteers asked to present their projects to conference participants who came from all over the country. Lorraine's feedback: "*FPOSP received the most questions and interest...several people are very interested in Maine's approach to engaging residents and visitors in the problem presented by the invasive insects...*" She was also interviewed and filmed by former CNN correspondent James Hattori, to be part of a documentary that highlights the goals and accomplishments of nine CEP projects across the country.
- An article about ALB, EAB, and HWA was included in the Sebago Lake Watershed Newsletter, which reaches over 2000 people.
- *Always worth mentioning over and over again:* FPOSP Volunteer and Saco River Recreational Council Education Specialist, Michelle Broyer, spends countless hours during the summer at a popular boat launch near the Maine-New Hampshire border (Swans Falls Campground in Fryeburg), making sure visitors are in compliance with the out-of-state firewood ban. She talks to an average of 70 people a day, and has confiscated numerous loads of out-of-state firewood. Approximately 90% of visitors are from Massachusetts. She has also persuaded a local firewood dealer to label his firewood so that it can be allowed in the campground.

4th Quarter Highlights:

- We continued to focus our outreach efforts to kids by participating in a number of summer camp programs and educational fairs. We maintained outreach booths at five large Agricultural Fairs, with the majority of staffing provided by our trained volunteers. Numerous presentations were given by MDA staff as well as trained volunteers; one by an 11 year old boy at the Topsham Fair. We provided three appreciation/re-training events, which helped to reinvigorate the volunteer base. A new nature center opened up at Ferry Beach State Park, which contains FPOSP outreach materials and displays. We also emphasized the firewood message, and provided support to those who encounter out-of-state firewood. See 4th quarter report for details.
- Lorraine spoke with Island Institute fellows to help disseminate the FPOSP message to the many island communities in Maine.
- Lorraine and FPOSP outreach coordinators of MA, NH, and VT met in Portsmouth, NH to share ideas and develop a support system for conducting FPOSP outreach in the new grant year.

5th Quarter Highlights:

- We sent out a request for proposals in July 2012 to have a video produced about Asian longhorned beetle, emerald ash borer and hemlock woolly adelgid, and what the impacts would mean to Maine. Two film makers responded to the RFP and a contract was eventually finalized in September. A request to the SPHD to extend the time on the grant to complete this project was approved, and the film maker was able to begin work in October. The video

was completed by the end of the grant period, January 31, 2013. It has been available for viewing on various websites and YouTube, and copies have been made and distributed at FY12 FPOSP events and trainings. The video can be viewed here; www.maine.gov/alb, and dvds are available upon request.

b. Data to be collected and maintained (and reported!)

- If formal surveys are conducted, data will include (but not be limited to) GPS information on high risk site location, numbers and species of host trees inspected, and inspection results.

**Bradbury Mountain State Park 2/28/2012
Survey for ALB, EAB, HWA**

lat	long	host trees	# inspected	# positive	% positive
43.89937	-70.17886	maple	120	0	0
		birch	30	0	0
		poplar	21	0	0
		ash	55	0	0
		hemlock	76	0	0

**Ferry Beach State Park 4/11/2012
Survey for ALB, EAB, HWA**

lat	long	host trees	# inspected	# positive	% positive
43.47081	-70.38885	maple	221	0	0
		ash (none in park)	0	0	0
		hemlock	390	17	4.36

- For Train the Trainer sessions include list of the dates, locations, organizations (if applicable) and the number of people trained. Maine Department of Agriculture and FPOSP organized and conducted all events.

Date	Location	Organization 1	Organization 2	Organization 3	Organization 4	# trained
12/1/2011	Harrington	Narraguagus High School	USDA APHIS PPQ	Maine Forest Service	FPOSP Volunteer	70
5/4/2012	Gorham	Gorham Middle School				75
5/29/2012	Lincolnville	Lincolnville Central School				70
6/6/2012	North Yarmouth	Royal River Conservation Trust	Coastal Maine Botanical Gardens	Kennebec Estuary Land Trust	Americorps	18
7/25/2012	Pownal	Maine Conservation Corps	Pownal Public Works	Bureau of Parks and Lands	Portland Trails	17
9/6/2012	Freeport	Bureau of Parks and Lands	FPOSP Volunteers			7
9/15/2012	Fryeburg	Saco River Recreational Council	FPOSP Volunteers			12
9/26/2012	Ellsworth	Birdsacre Sanctuary	FPOSP Volunteers			15

Forest Pest Outreach and Survey Project FY2011 - 3rd Quarter Report

Cooperator:	Maine Department of Agriculture, Division of Animal and Plant Health
State:	Maine
Project:	Forest Pest Outreach and Survey Project (FPOSP) FY2011
Project Coordinator:	Karen Coluzzi
Agreement Number:	11-8223-0662-CA
Reporting Period:	3rd Quarter Report: April 1, 2012 – June 30, 2012

1. Approach

a. Describe specific activities and accomplishments...

We continued to focus our outreach efforts on kids, participating in a number of camp programs and educational fairs. We provided one FPOSP train-the-trainer, and two FPOSP student trainings. The student trainings focused primarily on survey techniques for ALB, EAB, and HWA, but also showed students how to conduct outreach. We also emphasized the firewood message, and provided support to those who encounter out-of-state firewood.

K-12 Activity Highlights:

- Student FPOSP Training:
 - Gorham Middle School; Seventy 7th grade students and teachers learned about ALB, EAB, and HWA. Feedback from teacher Angela Godsparek: *"Wanted to let you know I am sending an ambassador to talk with the 3rd graders at one and possibly 2 of our elementary schools. My son requested tattoos and information to share with his class next Thursday during his share time. I am giving him cards, tattoos, info sheets and pencils to take into his class. He already knows a bit about the ALB, but we will review before he goes. We are also having a community service day next Friday at one of the other elementary schools. I am taking some kids over to do some activities with the third graders."*
 - Lincolnville Central School; Sixty-three 6-8th grade students and five science teachers participated in the training for ALB, EAB, and HWA.
- FPOSP Volunteer and City of South Portland Arborist, Mary Lou Fathke did a number of invasive forest pest presentations to students during Arbor Week.
- Lorraine began ongoing involvement with a summer camp program in Albion to teach camp-goers about ALB, EAB, and HWA, and how to look for them.
- Lorraine tabled the Thomaston Children's Festival, which drew over 300 people. Her FPOSP booth attracted a lot of kids (games and insects), as well as concerned citizens expressing experiences with out-of-state firewood.
- Boyscouts. Lorraine taught about invasive forest pests to a group of boyscouts and their leaders as part of their insect merit badge requirements.
- Karen participated in a Conservation Fair to educate middle-school kids (80) from various schools about invasive species and ALB, EAB, HWA.
- Ferry Beach State Park. MDA staff organized a training and survey of the park for homeschooled families. Approximately 40 people came out to learn how to survey for ALB, EAB, and HWA. Maine Forest Service and Parks and Land personnel assisted with the

training. Data below. Data also entered into Beetle Detectives. A twelve-year-old boy was so influenced that he surveys trees almost everyday, and is setting up displays and making presentations at various fairs.

Other Outreach Highlights:

- An article about ALB, EAB, and HWA was included in the Sebago Lake Watershed Newsletter, which reaches over 2000 people. **(attached)**.
- FPOSP Volunteer and Saco River Recreational Council Education Specialist, Michelle Broyer, spends countless hours during the summer at a popular boat launch near the Maine-New Hampshire border (Swans Falls Campground in Fryeburg), making sure visitors are in compliance with the out-of-state firewood ban. She talks to an average of 70 people a day, and has confiscated numerous loads of out-of-state firewood. Approximately 90% of visitors are from Massachusetts. She has also persuaded a local firewood dealer to label his firewood so that it can be allowed in the campground.
- Development of new small poster and survey cheat sheets **(attached)** .
- Lorraine’s involvement with the University of Maine’s Center on Aging, Senior Volunteer Program (ENCORPS) has led to numerous speaking engagements and additional FPOSP volunteers, as well as a feature photo on their website banner **(attached)**. She was invited to attend the Community Experience Project’s NE Conference hosted by UMaine’s ENCORPS program, and was one of three senior volunteers asked to present their projects to conference participants who came from all over the country. Lorraine’s feedback: *“FPOSP received the most questions and interest. The panel presentation was from 11:00 to 12:15, and then 3 of us set up displays for our projects and were asked to be available to talk with the participants in detail during the reception, from 5:30 to 7:30. ...several people are very interested in Maine’s approach to engaging residents and visitors in the problem presented by the invasive insects. I gave out our website as a beginning for them to start conversations about how they can do a similar program for their communities.”* She was also interviewed and filmed by former CNN correspondent James Hattori, to be part of a documentary that highlights the goals and accomplishments of nine CEP projects across the country.

b. Data to be collected and maintained (and reported!)

- If formal surveys are conducted, data will include (but not be limited to) GPS information on high risk site location, numbers and species of host trees inspected, and inspection results.

**Ferry Beach State Park 4/11/2012
Survey for ALB, EAB, HWA**

lat	long	host trees	# inspected	# positive	% positive
43.47081	-70.38885	maple	221	0	0
		ash (none in park)	0	0	0
		hemlock	390	17	4.36

- For Train the Trainer sessions include list of the dates, locations, organizations (if applicable) and the number of people trained.

Date	Location	Organization 1	Organization 2	Organization 3	Organization 4	# trained
5/4/2012	Gorham	Gorham Middle School				75
5/29/2012	Lincolnville	Lincolnville Central School				70
6/6/2012	North Yarmouth	Royal River Conservation Trust	Coastal Maine Botanical Gardens	Kennebec Estuary Land Trust	Americorps	18

List of Outreach Activities:

Maine - FPOSP 2011-2012 3rd Quarter Report

Who	Date	Event / Opportunity	Town	Presentation		Media	Hand	Number
				Display	Cvrg	outs	impacted	
<u>MDA</u>								
	4/28/2012	Boy Scout Insect Study Merit Badge	Monmouth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	100
	5/4/2012	FPOSP Student Training	Gorham	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	75
	5/5/2012	KLCSWCD Annual Shrub Sale and E	Union	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	100
	5/7/2012	Conservation Fair	Lincolntonville	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	80
	5/21/2012	Umaine EnCorps Summit	Northport	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	135
	5/26/2012	Thomaston Children's Fair	Thomaston	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	300
	5/29/2012	FPOSP Student Training	Lincolntonville	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	70
	5/31/2012	Invasive Forest Pest Talk	Camden	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17
	6/5/2012	Listserve Newsletter	Various	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	155
	6/16/2012	MOFGA Homestead Days	Unity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100
	6/22/2012	Listserve Newsletter	Various	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	155
	6/22/2012	4H Farm Days	Windsor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25
	6/25/2012	Community Experience Project's NE	Portland	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	100
	6/29/2012	Summer camp presentation	Albion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30
<u>MDA Volunteer</u>								
	4/1/2012	Portland Water District mailing	Cumberland Co.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3000
	4/5/2012	ALB Book Article	Central Maine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2000
	4/28/2012	Fiddlehead Festival	Farmington	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15
	4/30/2012	Cache In/Trash Out	Biddeford	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25
	5/7/2012	Geocache Program	Casco	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15
	5/19/2012	Land Trust Plant Sale	South Portland	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	270
	5/25/2012	Arbor Week Presentations	South Portland	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	250
	5/26/2012	Coop. Extension Plant sale	Auburn	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	250
	5/27/2012	Boat Launch Outreach	Fryeburg	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7500
	6/11/2012	Science History Museum	Bar Harbor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	65
	6/12/2012	FPOSP Article	Statewide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	350
	6/19/2012	Invasives Forest Pest Article	Statewide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2500
<u>MDA, MFS</u>								
	4/11/2012	Ferry Beach SP Survey	Saco	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	40
	6/6/2012	FPOSP training	North Yarmouth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18
<u>MDA, MFS, PPQ</u>								
	5/3/2012	EAB Survey News articles	Statewide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5000

Total Impact: 22,740

MDA = Maine Department of Agriculture
MFS = Maine Forest Service



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7 Summer Happenings

8 A Step Back in Time

Tree Invaders!

Hopefully NOT Coming to a Forest Near You!

By Karen Coluzzi, State Pest Survey Coordinator, Department of Agriculture and Allison Kanoti, Forest Entomologist, Maine Forest Service

The Asian longhorned beetle and the emerald ash borer are two invasive woodboring beetles that are destroying trees in many states in the eastern U.S. Although neither insect has been found in Maine, we can't be certain that they are not here in low, undetectable levels. The Maine Department of Agriculture and the Maine Forest Service are asking that all citizens report any suspected sightings of these beetles or suspicious tree damage. The Asian longhorned beetle attacks many hardwood trees, primarily maple, birch, elm and willow, while the emerald ash borer attacks only ash trees. Both insects are very hard to control once they become established. To learn more about these beetles, and to report any suspicious sightings, please go to www.maine.gov/alb and www.maine.gov/eab.

Hemlocks are threatened by two invasive sucking insects (related to aphids): hemlock woolly adelgid and elongate hemlock scale. Hemlocks are common trees near surface water and play an important role in reducing the costs of

clean drinking water. They protect the quality of water because they help filter it and hold soil in place along many of Maine's lake, pond, river and stream shorelines. Both elongate hemlock scale and hemlock woolly adelgid have made inroads into the forests of Maine and traveled even farther on planted trees. Together they threaten the long-term viability of our forest and ornamental hemlocks. Learn how to recognize these two destructive insects so you can help to slow their spread into our hemlock resources and please let us know if you think you have found them: www.maineforestservice.gov/HemlockWoollyAdelgid.htm or www.maineforestservice.gov/EH_Scale.htm.

Handy, durable, credit card-sized identification aids are available for all four of these pests. You may request them by e-mail at: bugwatchme.agr@maine.gov or call (207) 287-7551.

For More information, stop by the Sebago Lake Ecology Center, corner of Routes 237 and 35 in Standish.



UNWANTED

Asian Longhorned Beetle



NOT KNOWN TO OCCUR IN MAINE

Asian longhorned beetle (ALB) is a large woodboring beetle that attacks a variety of healthy hardwood trees, primarily MAPLE, ELM, WILLOW, BIRCH, HORSECHESNUT



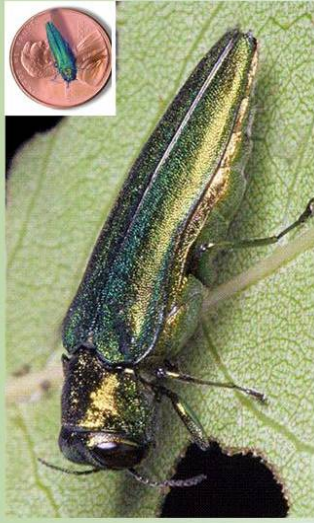
Exit holes
Egg sites

ALB was accidentally introduced from Asia, and has been discovered in 5 states and Toronto, Canada since 1996.

ALB has not been found in Maine.



Emerald Ash Borer



NOT KNOWN TO OCCUR IN MAINE

Emerald ash borer (EAB) is a small woodboring beetle that quickly kills ASH trees. Look for these signs on ash trees...



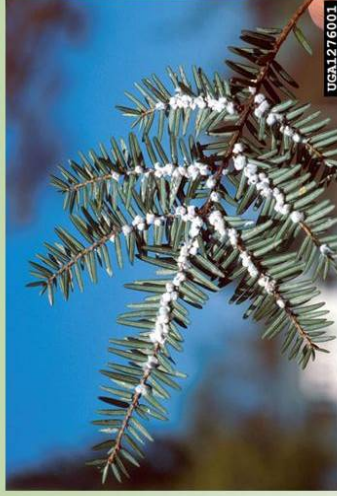
Bark splits
S-shaped tunnels

EAB was accidentally introduced from Asia, and has been discovered in 16 states since 2002.

EAB has not been found in Maine.



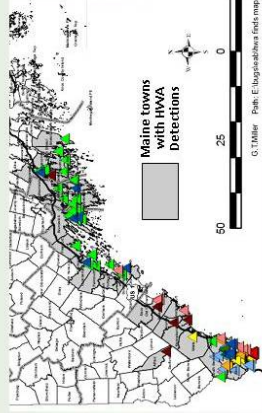
Hemlock Woolly Adelgid



Hemlock woolly adelgid (HWA) is an introduced, aphid-like insect that kills eastern hemlock. HWA pierces the hemlock with long mouthpart, injects the tree with toxic saliva and sucks out nutrient rich plant juices. HWA affects all species of hemlock, but not pine, spruce, fir or other conifers.

On Hemlock, Look For:

- White woolly masses at the base of needles on undersides of hemlock twigs, 1/16-1/8 inch diameter. Most visible late fall – early summer
- Off-color needles, often with a grayish cast
- Premature needle drop and twig dieback



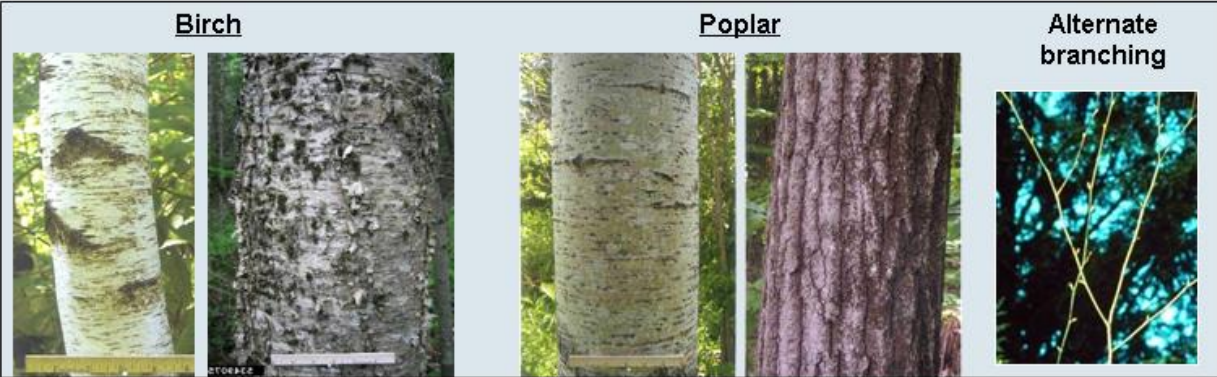
Report

If you think you have seen any of these pests, or the depicted signs on the trees, please report your findings to: bugwatchme.agr@maine.gov or (207) 287-2431



Cheat sheets for surveyors:

ALB HOST TREES – look at maple, birch, and poplar



WHAT TO LOOK FOR: Egg-laying sites – up to 1/2" in diameter



Exit Holes – Round; up to 3/8" in diameter



EAB HOST TREES – look at ash only



WHAT TO LOOK FOR: Bark splitting with S-shaped tunneling



D-shaped exit Holes – 1/4"



Woodpecker damage



HWA HOST TREES – look at hemlock only



WHAT TO LOOK FOR: white cottony balls at base of needles



Also keep an eye out for Elongate hemlock scale



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