Farm Bill Accomplishment Report Template

Year:	FY2014
State:	Maine
Cooperative Agreement Name:	Forest Pest Outreach and Survey Project
Cooperative Agreement Number:	14-8223-0662-CA
Project Funding Period:	9/20/2014 – 9/19/2015
Project Report:	Farm Bill FPOSP Final Report
Project Document Date:	12/15/2015
Cooperators Project Coordinator:	State Survey Coordinator
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Farm Bill Final Accomplishment Report

Quarterly Report	
Semi-Annual Accomplishment Report	
Annual Accomplishment Report	\boxtimes

1. Approach

a. Describe specific activities and accomplishments...

The cooperator will accomplish the following goals by the end of the agreement period:

1. Identify two communities within the state that are high risk for forest pest introduction and work with these communities to ensure that they are better prepared for the possible arrival of Asian longhorned beetle, emerald ash borer, and other invasive forest pests and pathogens. An effort will be made to select communities that are deemed high risk due to characteristics suitable for easy introduction. Maine will also focus on select geographic areas that have not previously received a significant amount of outreach.

We have met and communicated with active members in two communities (Camden and Belfast) who are planning to develop emerald ash borer management plans and facilitate municipality involvement. After meeting with Belfast, organizers and area high school students developed a plan to replace the ash trees in public areas of the city, a plan that was entered into the High School Envirothon Competition. They came in 4th place for the state (**poster attached**). Although three presentations were made to the Camden Conservation Board and public members of the community, no management plan has been developed as far as we know. We continue to work with the town's nature center (Merryspring) to provide programs and presentations to the public concerning tree health and invasive forest pests. On a positive note, we heard from a participant from our Lewiston training who presented to the Winslow Agricultural Commission the idea of developing an "Invasive Pest Plan" for their community. Developing a Community Action Plan (**template attached**) was an agenda item for our trainings this grant period.

- 2. Collaborate with the national Don't Move Firewood campaign to create a clear and consistent regionally specific message to be distributed at the state level. Cooperation with DMF will allow states to:
 - Work with DMF to design state-specific electronic printable versions of DMF posters, brochures, and postcards
 - Receive bulk quantities of DMF pre-printed educational materials (e.g. brochures, stickers, DVDs)
 - Utilize the DMF resource library to find campaign materials to build upon (i.e. prevent "reinventing the wheel")
 - Guest post local information and press releases to DMF's blog and facebook account
 - Access the FPOSP website, now hosted via TNC's contractors' non-profit Google account

We developed state-specific rack cards and large-size stand-alone posters through the Don't Move Firewood resource page, but we did not get them printed. We collaborated on hashtag titles so that all Facebook and Twitter posts can be organized by topic. We continue to share posts and cross-post on each other's Facebook pages. We have disseminated Don't Move Firewood materials to our trained volunteers for distribution amongst their constituents. 3. Design and implement outreach targeting employees of industries handling potentially regulated materials that are considered to be high risk pathways for the spread of forest pests and pathogens. This could include people who work in and around warehouses and storage facilities, nursery and garden centers, saw mills and other vulnerable points of pest introduction.

We have chosen to communicate with industry and the public through the Invasive Pest Outreach newsletter that we developed through our Department (**example attached**), and that we promote at our trainings. The number of subscribers has more than doubled since its inception (June 2014), and combined with the Maine Bug Watch Facebook and Twitter pages, interested parties are continuously updated on invasive forest pest information. Many of the participants at our trainings (see #4 below) represent the target audiences we had intended to reach.

Invasive Pest Outreach Newsletter Metrics for FY14			
Title	date sent	# subscribers	% that opened
Fall	10/17/2014	777	32%
Winter	1/29/2015	1019	28%
Spring I	3/25/2015	1138	29%
Spring II	5/15/2015	1201	28%
IFP Trainings	7/14/2015	1207	28%
IFP Training-Saco	9/8/2015	1218	26%

In addition to industry outreach, we continued working with the K-12 community. We developed education kits that have been requested by a number of different schools (**photo in midyear report**), and we worked with a 4th grade class to write, illustrate and publish a book on the emerald ash borer (available on Amazon). We also designed ash tree and maple tree tags and held numerous events where trees were tagged for awareness (tags and event photos attached)

4. Design and administer a training program for volunteer first detectors that targets environmental organizations, the tree care industry, utility companies, educators and concerned community members. First detectors will learn about forest pests of concern, how to respond to potential detections, and who to contact in the event of detection.

We have a well-developed training program for first detectors in the "green"-industry sector. We have partnered with Soil and Water Conservation Districts around the state to host the trainings and provide logistical support (e.g. registrations). We originally planned to do five trainings but demand resulted in an additional two, for a total of seven trainings with 152 people trained this grant period. This year we included a presentation on developing a Community Action Plan, and examples of community-oriented outreach that folks with all different skill levels and experiences can conduct. An **agenda** of one of our trainings is attached, as well as examples of **training binder materials**. Below is a table of the trainings we conducted.

Date	Location	Trainer	Host	Other organizations represented	# trained
2/11/15	Greenville, Piscataquis Co.	ME DACF	Piscataquis Co. SWCD	Licensed private foresters, District forester, hardwood dealers, SWCD directors, forest rangers, master gardeners, Student Envirothon competitors	26
3/18/15	Waldoboro, Knox Co.	ME DACF	Knox-Lincoln SWCD	Licensed private foresters, District forester, Bureau of Parks and Lands, Coastal Mountains Land Trust, SWCD staff, Merryspring Nature Center, woodlot owners, tree farm managers	25
4/1/15	Lewiston, Androscoggin Co.	ME DACF	Androscoggin Valley SWCD	Licensed private foresters, The Nature Conservancy, Winthrop Town Forest, SWCD staff, science teacher, Winslow Agricultural Commission	15
5/5/15	Baxter State Park, Millinockett, Penobscot Co.	ME DACF		Department of Transportation, Licensed foresters, Wildlife consultant, Baxter State Park staff, MSAD 70 Envirothon students…	25
7/22/15	Whitneyville, Washington, Co.	ME DACF	Washington Co. SWCD	DPW, Lucas Tree Experts, private and public foresters, Machias Land Trust, woodlot owners…	16
8/25/15	Farmington, Franklin Co.	ME DACF	University of Maine, Farmington	Private and public licensed foresters, Envirothon students, Sebasticook River Land Trust, Maine State Museum, AFM forester, University staff	30
9/15/15	Saco, York Co.	ME DACF	York Co. SWCD	Saco Parks & Rec, District Forester, private licensed foresters, Lucas Tree Experts, USFS WMNF, York Water District, private landscape architect	15

5. Maintain statistics about the numbers of events, estimated numbers of attendees at events, types of materials generated and distributed numbers of volunteers recruited and community preparedness plans or activities. This information will be included in reports based on the suggestion's reporting requirements.

A database of all trained volunteers from 2009 to the present was created in 2009 and is updated frequently. Currently, there are approximately 580 names in the database. The FPOSP volunteer coordinator, Lorraine Taft, sends monthly to quarterly emails of program updates, upcoming events, solicitation of feedback, words of encouragement, etc. to all the contacts in the database. Most of the outreach events we participate in include volunteers from this database. We also maintain <u>Facebook</u> and <u>Twitter</u> pages that not only inform followers of pest updates, but help to solicit volunteers and set up new outreach events. We have continued to solicit feedback from the FPOSP volunteers, but only a select few respond. Included below are <u>some</u> events we were involved in or have been informed of.

Tabling - Maine Bug Watch/Invasive Forest Pests:

Late September 2014 - Common Ground Fair – tens of thousands of people October 2015 – Fryeburg Fair – thousands of people November 2014 – Invasive Species Forum; Massabesic Middle School January 2015 – Maine Agricultural Trades Show – hundreds of people March 2015 – Eastern Maine Sportsmen's Show – hundreds of people May 2015 – Knox County Conservation District Shrub Sale - ~100 May 2015 – NE Livestock Expo – thousands, mostly kids August 2015 – Natural Resources Day, Union Fair - ~100, mostly kids

Presentations/Outreach:

October 2014 – Utility Arborist Workshop Day November 2014 – Belgrade Lakes Association November 2014 – Blue Hill/Ellsworth March 2015 – Hidden Valley Nature Center April 2015 – EAB Presentation and Ash Tree Tagging Event at Merryspring, Camden May 2015 – Ash Tree Tagging Event, Farmington

Volunteer Efforts:

Oxford Co. SWCD – monthly outreach to community via fairs, schools, workshops, community planning

City of South Portland Parks Department – community outreach, esp. K-12

Tree-Tagging Events:

Acadia National Park, RSU19 (ash for EAB and maple for ALB), Canton Town Forest, Belfast City Park, Thomaston Town Mall

Fair Tabling:

Mic Mac Health Fair, Union Fair, Ossippee Valley Fair, Belfast Street Fair (ALB and EAB costumes), Farmington Fair, Fryeburg Fair...

Articles/Displays:

Downeast Lakes Land Trust – newsletters, displays

Quoddy Tides (Washington Co.) article on EAB

Lewiston Sun Journal – article on EAB and Oxford Co.'s efforts to be vigilant Material Distribution:

Damariscotta Chamber of Commerce

Topsham/Brunswick Farmer's Market

Jefferson Town Office (public meetings and voting)

Washington Co. – public libraries, guest cottages, campgrounds, granges, etc.

Other:

ALB/EAB Education Kits – loaned to 5 middle and high schools Children's Book on EAB – Cascade Brooks Elementary School (worked with a 4th grade class to research, write, and illustrate a book on emerald ash borer, 54pp); <u>article in</u> <u>Franklin Co. news</u>



6. Other

After five years of being the FPOSP Volunteer and Outreach Coordinator, Lorraine Taft decided to re-retire. Her dedication and passion to protecting Maine's trees and forests from invasive insects has no rival in the state. Therefore, we decided to announce a Request for Proposals in hopes that some of the groups we have trained over the years would be interested in spreading invasive forest pest awareness in new and interesting ways. For FY15, the FPOSP has contracted with two groups, the Saco River Recreational Council and the Maine Association of Conservation Districts. Both groups have been dedicated to invasive forest pest outreach for years and we are confident awareness will continue to spread throughout the state.

Approved and signed by

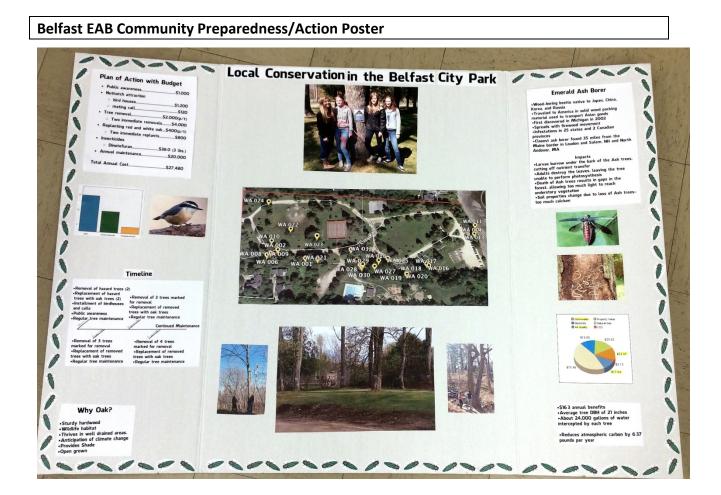
E. Am Gills

Cooperator

Date: <u>12/16/2015</u>

Date: _____

ADODR



Community Action Plan Preparing for Emerald Ash Borer

Purpose: Participants in the Forest Pest Outreach and Survey Project's Train-the-Trainers Program will learn the benefits of a Community Action Plan; initiate conversations within their own communities; and assist in developing a community centered plan to manage the emerald ash borer (EAB).

Background: The likelihood that emerald ash borer will be found in Maine is continually increasing. Federal funds are diminishing and Maine's EAB management strategy will include monitoring and regulatory activities rather than state-wide eradication efforts. Communities will need to understand and be prepared to manage an EAB infestation, which will likely result in the mortality of thousands of its ash trees.

Introduction: Take steps on planning to manage EAB response within your community by: assessing the severity of impact prior to infestation; planning to address the impact; identifying and locating resources to manage the plan...

Steps:

- Inventory the community ash trees
- Removal and replacement cost estimate
- Disposal plan and cost estimate
- Removal criteria
- Planting criteria
- Public education strategies
- Review town policies that impact ability to implement this plan
- Determine the scope of the plan, i.e. public tree or include privately owned trees also
- Plan for implementation
- Review Local/County/State resources, including but not limited to:
- Local and Community resources
- Department of Agriculture, Conservation and Forestry resources: Urban Forester, <<u>Jan.Santerre@maine.gov</u>> District Forester <<u>www.maine.gov/dacf/mfs/index.shtml</u>> Forest Pest Outreach Project <<u>www.maine.gov/eab</u>> MFS Forest Health and Monitoring <<u>www.maineforestservice.gov</u>> List of licensed arborists <<u>www.maine.gov/dacf/php/arborist/ArboristList.shtml</u>> List of licensed foresters <<u>pfr.informe.org/almsonline/almsquery/SearchIndividual.aspx</u>>
- Soil & Water Conservation Districts
- U Maine Cooperative Extension Offices

You can find a Draft of the Maine Municipal Emerald Ash Borer Management Plan on the EAB Resource Page at: <<u>www.maine.gov/dacf/php/caps/EAB/EABashtag.shtml</u>>

(FPOSP 2/2015)

Invasive Pest Outreach newsletter example:

MAINE DEPARTMENT OF

AGRICULTURE, CONSERVATION & FORESTRY

PLANT HEALTH

Invasive Pest Outreach Information

- News on Emerald Ash Borer
- <u>New Tree Pest Discovery</u>
- Learning Opportunities Workshops & Webinars
- Maine's Forest & Tree Pest Emergency Action Plan

News on Emerald Ash Borer

New Host Species for Emerald Ash Borer A researcher at Wright State University in Ohio recently discovered that the emerald ash borer does not colonize only ash trees (*Fraxinus spp.*). The white fringetree (*Chionanthus retusus*), a close relative of ash, apparently makes a nice host also. This discovery was confirmed by the USDA this week.



The natural range of white fringetree is from New Jersey south to Florida, but there are some plantings of this tree in warmer zones of Maine.



Emerald ash borer (EAB) has been found in <u>Rockingham</u> <u>County, New Hampshire</u>. This county borders Maine.

EAB has not been detected in Maine to this date. A number of survey methods are being used to try to detect this insect early. Recognizing the signs of an infested tree is key to early detection. This <u>website</u> has good information on what EAB looks like and the signs of infestation on its host trees.

New Tree Pest Discovery



Red pine scale was discovered for the first time in Maine this fall in Mount Desert (Hancock County) on dying red pine trees.

National Park Service (NPS) biologists are working with the Maine Forest Service and US Forest Service entomologists and other conservation

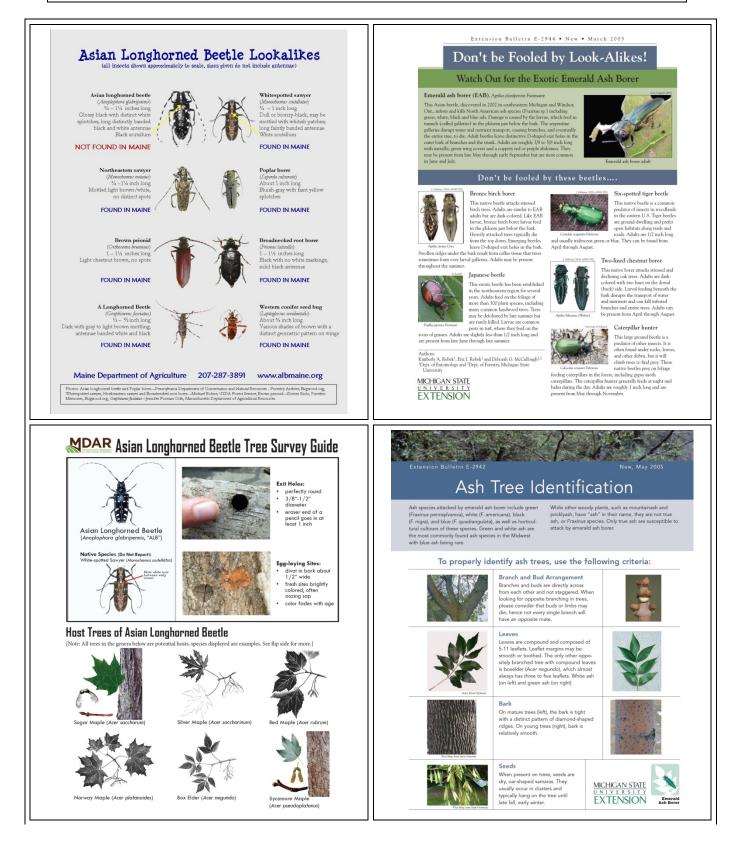
partners on response planning, including gathering more information about the extent of the infestation.

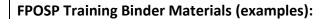
Please report any suspect infestation of red pine scale to the Maine Forest Service.

Learning Opportunities - Workshops & Webinars

Webinar - Today, October 17, 2014, 2:00 PM ET "What Works? Evaluating Forest Pest Outreach Efforts" http://stateofmaine.adobeconnect.com/r1gs7cen94v/ Г

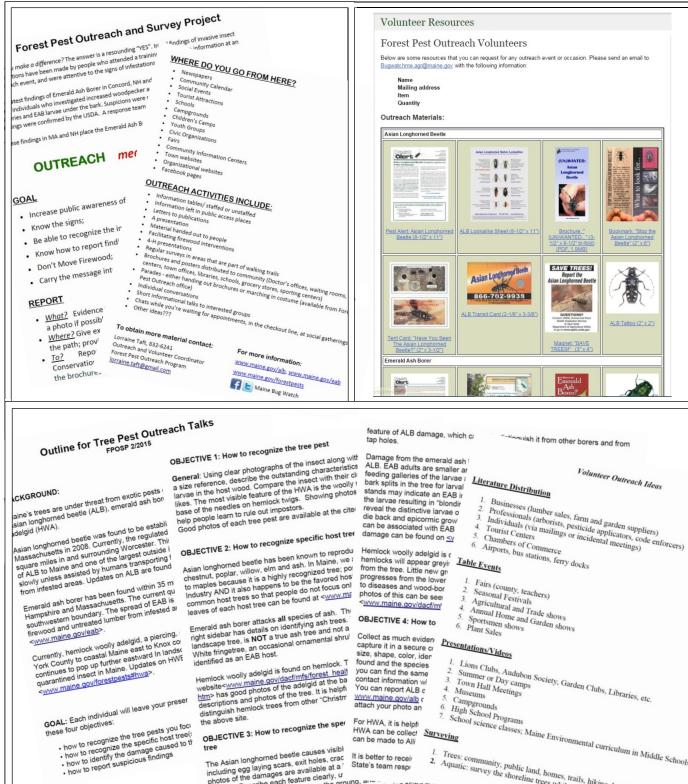
N	Forest Pest Outreach and Survey Project, laine Department of Agriculture, Conservation and Forestry (DACF) York County Soil & Water Conservation District September 15, 2015 Saco City Hall, 300 Main St., Saco, Maine 04072	
11:00 - 11:15	Introductions, Goals	
11:15 – 12:15	What are invasive species; how do they get here Invasive wood boring tree pests History in US, Canada Pathways of spread Identification & life cycle Symptoms and signs of infestation Current management activities How, when & where to look	
12:30 - 1:30	Hemlock woolly adelgid and others of concern History in US Pathways of spread Current management activities Identification & life cycle Symptoms and signs of infestations How, when & where to look	
1:45 - 2:30	Advanced Community Planning Surveys Reporting Community Outreach Materials and samples available Plans, partnerships	
2:30 - 3:30	What Happens When Invasive Pest is Found: Personal Experience of Responding Forester: Working the ALB infestation in Worcester, MA Discovery, Survey, Eradication Efforts, Rules & Regulations Discussion/ Questions	
Workshop presenters: Karen Coluzzi, MS, Entomologist, DACF, Animal & Plant Health Lorraine R. Taft, M.Ed, FPOSP Outreach and Volunteer Coordinator Oliver Markewicz, District Forester-York Co., DACF, Maine Forest Service		







FPOSP Training Binder Materials (examples):



OBJECTIVE 3: How to recognize the

tree The Asian longhorned beetle causes Ine Asian longnormed beetle causes (including egg laying scars, exit holes, photos of the damages are available a sidebar. Describe each feature clear that damages is difficult to see from the sidebar. Describe each readure clean that damage is difficult to see from the es suspected to

not a		6. Plant Sales
l shru	Collect as much eviden capture it in a secure cr size, shape, color, iden	Presentations/Videor
ock. T	found and the species	Lions Clubs, Audubon Society, Garden Clubs, Libraries, etc. Summer or Day camps Town Hall Meetings Museums Camperous.
healt	you can find the same	2. Summer Audubon S
he ba	contact information wi	3. Town II in Day campo Society, Gard
helpfi	You can report ALB c	3. Town Hall Meetings
nristm	www.maine.gov/alb c	5. Came States and States States
	attach your photo an	
	For HWA, it is helpfi HWA can be collect <u>Sur</u> can be made to Alli	 School Programs School science classes; Maine Environmental
ata	It is better to receive 2. State's team respression	Trees: community, public land, homes, trails, hiking, land trusts, etc. Aquatic: survey the shoreline trees while doing aquatic survey.
e grou have	ALB. Egg laying scale	while doing aquatic surveys, etc.

Tree Tags and Tagging Events:



The Emerald Ash Borer (EAB) is an invasive beetle that has ravaged ash tree populations across North America. Native to Eastern Asia, the small, metallic green beetle was first discovered in Michigan in 2002. The Emerald Ash Borer lays its eggs in the bark of the tree. When the larvae hatch, they begin to chew s-shaped galleries through the outer layers of wood, girlding the tree and cutting off supply of water and food through the trunk. Without any significant native biological control, spread of the borer has gone unchecked and has ravaged populations of all species of native ash trees, including green, brown, and white ash across the United States.

While the EAB has not yet been spotted in Maine, it has been found in neighboring New Hampshire. To raise awareness about this economical and ecological threat, Merryspring teamed up with the Maine Department of Agriculture, Conservation and Forestry. After a short presentation on the implications of the EAB and how to preven its spread, a group of concerned community members took to the Merryspring trails to mark ash trees. Twenty trees were marked with purple signs and tape. Each sign displays the provide environmental worth of the tree, stating how much in dollars worth of environmental benefits each to the ecosystem.

> e relies on public education programs like this one. Learning how to identify our diforer, and signs of infestation are extremely important for early detection. An easy oving firewood —especially across state lines. Insects like the Emerald Ash Borer and tle, hitch rides on downed wood. With so many of Maine's forests composed of ash industry, Maine is at high risk of harboring this dangerous invader.

revent it are immensely important. To get involved, learn more, and find out how of Agriculture, Conservation and Forestry at 287-3200 or <u>www.maine.gov/eab</u>.

Somerset Valley Middle School (RSU19), Hartland, ME – June 2015 Nina's Woods, Farmington, ME May 2015