

Northern Ontario First Nations Environmental Conference September 30, 2014

Shelley Vescio – EAB Task Force for NWO



Emerald Ash Borer Task Force - Northwestern Ontario

- Formed in 2011
- Members:
 - Canadian Food Inspection Agency (CFIA)
 - OMNR, City of Thunder Bay, Independent FN Alliance, Treaty 9
 - OFAH, Master Gardeners, Lakehead U, Confederation College, Invasive Species Centre, community members
- To provide a coordinated regional approach to preventing the arrival and spread of EAB in NWO



Emerald Ash Borer Task Force Northwestern Ontario Goal

To prevent the introduction of Emerald Ash Borer into Northwestern Ontario

If introduced, to slow the spread of Emerald Ash Borer in all Northwestern Ontario forests, including the urban trees in our communities.



Building Awareness of Threat of EAB



EAB Display Events



Hymers Fall Fair



Lake Superior Days











EAB Display Events



NO First Nations

Environmental Conference













EAB Display Events



EAB Awareness Day





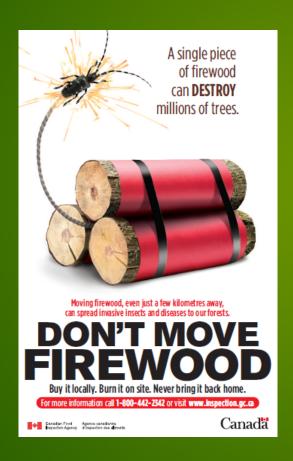








CFIA Materials Mailed to Stakeholders















Northern Ontario Municipal Association

36 Member Municipalities















Northwestern Ontario First Nations and Metis Councils

- Union of Ontario Indians
- Nishnawbe Aski Nation (NAN) -Treaty 9
- Grand Council Treaty 3
- Red Sky Metis Nation
- Thunder Bay Métis Council
- Atikokan & Surrounding Area Interim Métis Council
- Kenora Métis Council
- Northwest Métis Nation of Ontario Council
- Sunset County Métis Council











2013 EAB Awareness Campaign

- \$25,000 from Invasive Species Centre
- Ads in media outlets (including newspapers, radio and websites) for municipalities and First Nations across Northwestern Ontario
- Numerous articles in magazines and newspapers



'Don't Move Firewood' Billboards



Dawson Road













Pigeon River Border Crossing

















Fort Frances





Rainy River





Ontario Youth Rangers



Lake Superior Provincial Park













2014 EAB Ribbon Campaign







- Funded by the MNR
- \$2200
- 3 templates and 18 rolls of tape (500' ea)
- 3 messages
- Bug costume
- www.invasiveinsects.ca
- Bar code



2014 EAB Ribbon Campaign







Fight EAB!











2014 EAB Ribbon Campaign















invasiveinsects.ca



Emerald ash borer is here, now what do I do?

A toolkit for Canadian landowners and land managers

Information for:	Identify:	Municipal planning:
Municipalities	Ash trees	Tree inventory
Homeowners	EAB-infested trees	Survey for EAB
Woodlot owners	Emerald ash borer	Planning for EAB
Land managers	Resources	Insecticide options

Current, science-based Emerald Ash Borer information for:

- . Municipal delegates tasked with finding out more about emerald ash borer (EAB), how it may affect their community, and options for dealing with it.
- . Homeowners trying to decide what to do about the ash tree in the yard.
- · Rural landowners making decisions about how to manage ash trees in their woodlot, windbreak or vard.
- · Land managers responsible for trees on private land such as school grounds, golf courses, or businesses.

Thunder Bay's ribbon campaign

New research: controlling EAB with natural enemies









From left: healthy ash tree; EAB adult; EAB larva; ash trees dying of EAB attack. Images: Silv-Econ Ltd.

If you think you have found EAB in Canada outside of an EAB regulated area, contact the Canadian Food Inspection Agency: 1-866-463-6017.

Contact us to to give us your feedback.

Development of this initiative funded by:







Thunder Bay ties on green ribbons for EAB awareness

Green Ribbons can be seen on hundreds of ash trees in the City of Thunder Bay this summer. The green ribbons show residents the trees that could be killed by EAB when it arrives, and shows the extent of the impact this beetle will have on Thunder Bay's urban forest - about one quarter of all City of Thunder Bay street trees are ash trees. This public awareness campaign is being organized by the EAB Task Force of Northwestern Ontario with assistance from the Grade 7 class of Mr. Charles at Westmount School, and Mrs. Canuel's Grade 9 class from St Ignatius High School.



City of Thunder Bay launches EAB ribbon campaign.

Emerald Ash Borer has not yet been found in the Thunder Bay region. However, it is close - it is in Sault Saint Marie ON to the east and Superior WI to the south. This year there will again be dozens of green prism traps hanging in ash trees all around the region and in the City, to monitor for the beetle's arrival.



Ash tree with EAB survey trap

Find more information about EAB and the City of Thunder Bay.



Slow The Spread:

EAB hitchhikes in firewood, and on vehicles and people: *Use local firewood. *Check your car and clothing for adult beetles before leaving EAB-infested areas



Go to:

Ash tree ID

Options for ash trees

Deciding whether to treat

About EAB

Learn more

Resources & links:

Resources page

CFIA

NRCan

EAB Info

LIVING >

VISITING ▶

DOING BUSINESS >

CITY GOVERNMENT >

Online Services **About Thunder Bay** Accessibility City Services & Info Art, Culture and Heritage Recreation & Parks Children & Youth Older Adults Adopt-a-Road Air Quality Flood Prevention Measures Just for Kids Pesticides Recycling & Waste Management, Landfill Urban Forestry

Standards for Planting Trees

Tree Protection Standards Water Quality & Conservation >

Water - Drinking Water

Water - Waste Water Transit & Getting Around

House & Yard

Public Safety

Life Events Awards

Animal Services

Pruning Guide

Request a Tree

Public Tree By-taw

> Home > Living > Environment > Urban Forestry > Common Tree Concerns > Emerald Ash Borer in the Region - Help Prevent its Arrival

EMERALD ASH BORER IN THE REGION -HELP PREVENT ITS ARRIVAL

The Emerald Ash Borer (EAB) has devastated ash trees in southwestern Ontario and parts of the United States since its discovery in Detroit, Michigan in 2002. EAB is an introduced insect pest from Asia that attacks and kills all species of ash (Fraxinus) trees. Note that the mountain ash tree is not a true ash tree (Sorbus americana) and is not threatened by this pest.

If you think you have found an EAB beetle please call the CFIA at 1-866-463-6017.

DON'T MOVE FIREWOOD





Hitchhiking insects like the Emerald Ash Borer can kill forests

www.dontmovefirewood.ca

EAB and Ash Tree Identification Guide Adobe PDF, 1 page, 31 5KB

EAB Ribbon Campaign Launch Address June 2014 Adobe PDF, 3 pages, 188 KB









EAB is a major economic and environmental threat that has killed more than 20 million ash trees in Ontario. Currently EAB has not been detected in Northwestern Ontario. In Thunder Bay, with over 25% of our city's municipal trees (and an unknown number of private trees) being ash, the invasion of this pest is of great concern. EAB's rapid spread has brought it as close to Northwestern Ontario as Sault Ste. Marie, Ontario and St. Paul, Minnesota in only a few short years.

FEATURED VIDEOS

www.thunderbay.ca/eab www.dontmovefirewood.ca



http://www.nmai.si.edu/environment/akwesasne/Strategies.aspx











Early Detection



Training for Early Detection Branch Sampling Technique



2011













Training for Early Detection Branch Sampling Technique



NOTICE TO THE ANISHINAABEG OF TREATY #3

Grand Council Treaty #3
And
Emerald Ash Borer Task Force - Northwestern Ontario
And
Ontario Ministry of Natural Resources

INVITES YOU TO AN:

Emerald Ash Borer Early Detection Branch Sampling Training Session

> Date: May 17, 2012 Location: 510 9th Street North, Kenora, On Time: 9:00am – 12:00pm

Who should sign up for the session? The session is open to individuals who wish to learn more about emerald ash borer, its life cycle, damage impacts and survey techniques. An update of the current situation in Ontario will be provided.

The first part of the session will be held indoors from 9 – 10 am with an emerald ash borer presentation, followed by a question and answer period.

The second portion of the session will be held outdoors where a demonstration will occur of the branch sampling methodology that is used to detect early infestations of Emerald ash borer.

This field session will be informal and a great opportunity to ask any further questions, Please wear appropriate field dothing.

Travel expenses will NOT be covered

For additional information, contact Brad Wesley at GCT#3 807-548-4214 or email: Brad Wesley@treaty3.co

2012











Branch Sampling in 2011 and 2013









Canadian Forest Service - Sault Ste. Marie

Technical Note No. 111

Detection of Emerald Ash Borer in Urban Environments Using Branch Sampling

K. L. Ryall, J. G. Fldgen, J.J. Turgeon

The emerald wh borer (EAB), Aeriku planipouris Fairmaire (Fig. 1), a non-naire insect peat of Asian origin, presently infeats large numbers of suh (Praciesse app.) trees in Ontario and Québec and could soon spread to other provinces.



One of the many requirements for officiers management of EAB is really described in detautation, when feature are tell new soft described reductions of the detautation, when described as and symptome, excit block, laved unastice antenaughe reads to last, feating by woodpeckers or required) that may not be noticeable 2×10 are more years after the surised of the population, positionally if the infeation begins in the upper part of the tree. Subject years have been also such as a streams have the potentials to describe AB adults in on area before rigge or symptoms become visible, but may not necessarily provide information on the infractions transact following the contraction of the con



Fig. 2. Healthy-looking sub trees with no visible sign or symptom, b

Ryall et al. (2010) sampled many sub trees with <u>his</u> obvious sign or symptom of EAB strack (Fig. 2) and showed that fracts strapting was an effective method of detecting EAB-infested trees; indeed, 74% of the infested trees would have been discovered if the method dearshed below had been used. The purpose of this note is to describe this busic sampling sechnique.

Canada











Prism Trapping In Thunder Bay and Region





Prism Traps Numbers

- CFIA
- MNR
- City Of Thunder Bay

Location	CFIA	MNR	City TBay
Atikokan	3		
Barwick	1		
Dryden	1	2	
Emo	1		
Fort Frances	3	2	
Ignace	1		
Kenora	3	1	
Lenore Lake	1		
Nestor Falls	1		
Nipigon	1	1	
Pigeon River	1	1	
Quetico		1	
Rainy River	1		
Red Rock	1		
Schreiber		1	
Thunder Bay	22		48
Upsula	1		
Whitefish Resort		1	
Total	42	10	48

Trap/Lure Distributors and Costs

- 3 distributors in Canada
 - Synergy Semiochemicals Corp. (BC)
 - Distributions Solida (QUE)
 - Sylvar Technologies (NB)



- green leaf volatile lure (3Z-hexenol)
- pheromone lure (3Z-lactone)



Trap and Lure Distributors 2014 Prices

	Trap + Hook +	+ Pheromone
	Leaf Lure	Lure
Synergy	\$26.32	\$52.31
Solida	\$25.85	\$51.24
Sylvar		\$49.99

- Shipping costs
- Discounts available for bulk orders
- City of Thunder Bay Sylvar Technologies
 - 50 complete traps bulk discount to \$39.99 ea
 - \$235 (shipping)
 - Total = \$2525
- Case of Tanglefoot Aerosol Spray 12/\$165.24



EAB Trap Survey Protocol

- Account for costs of setting up, assessing and removal
- CFIA protocol
- Install traps by June1 and remove byAugust 31
- Check mid-July for insects



Influencing Decision Makers & Management



2013 Meetings with Ontario Provincial Ministers/MPP



Minister Michael Gravelle



Minister David Orazietti



Invasive Species Act

Hon Bill Mauro, MPP



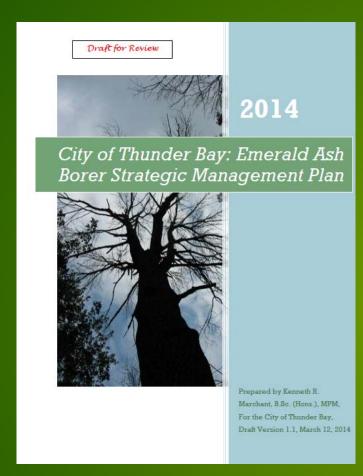












City of Thunder Bay

 6,500 street and park ash trees

Passive

- Remove and replace as ash trees die
- \$6.7 million (over 10 yr)

Active

- Treat 30% or 50% of eligible trees (>20cm dbh)
- Remove and replace untreated as they die
- \$6.4 million for 30%
- \$6.1 million for 50%

















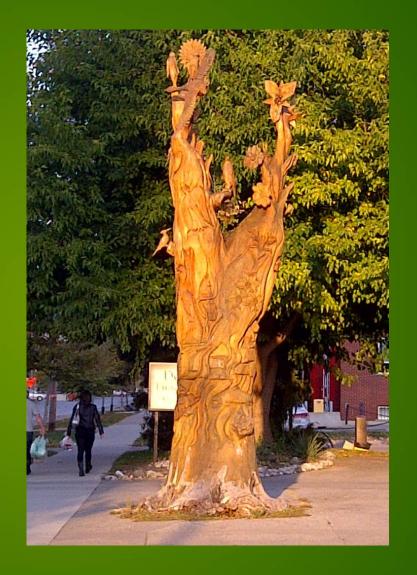






Next Steps?

- Wood disposal
- Update tree inventory
- Wait



Shelley Vescio svescio@thunderbay.ca (807) 625-2473