Canadian Food Inspection Agency



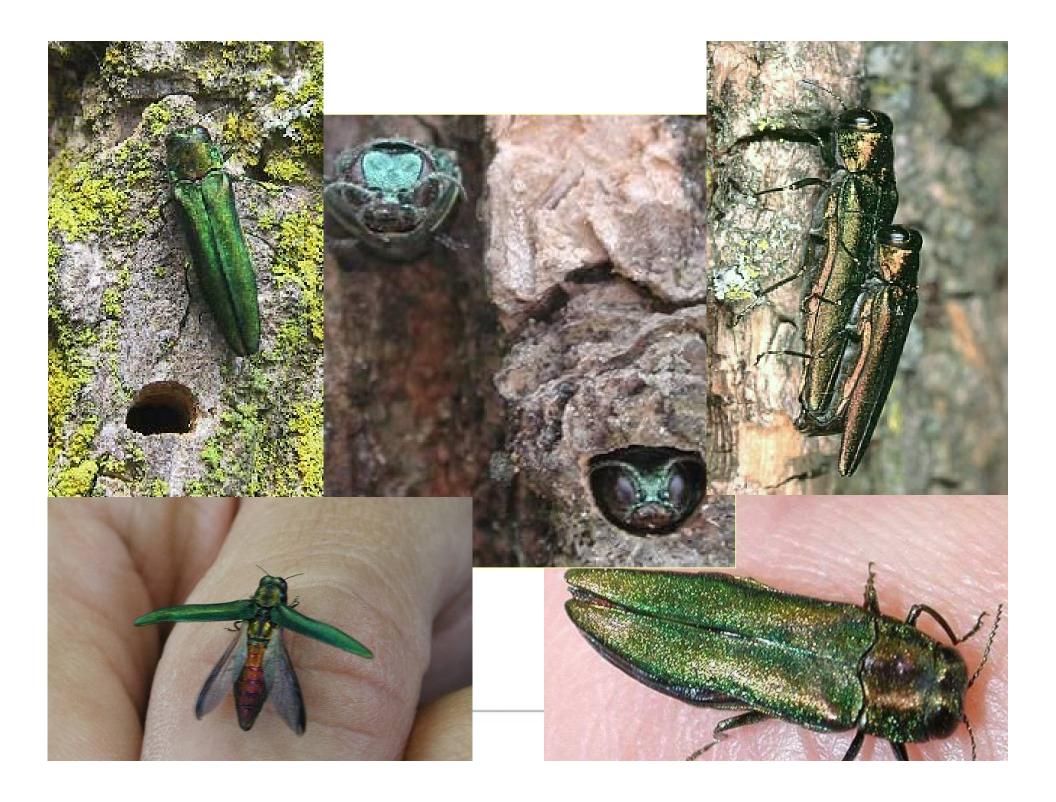
Science and regulation...

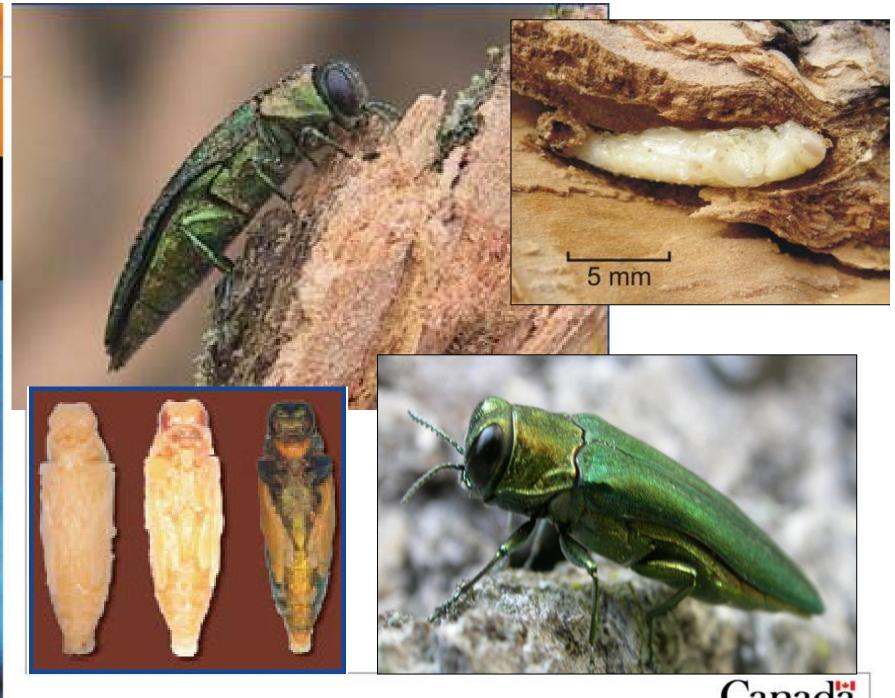
working together for Canadians

Emerald Ash Borer (EAB) update Bayfield, ON December 16, 2008

Brian Hamilton, EAB Program Specialist



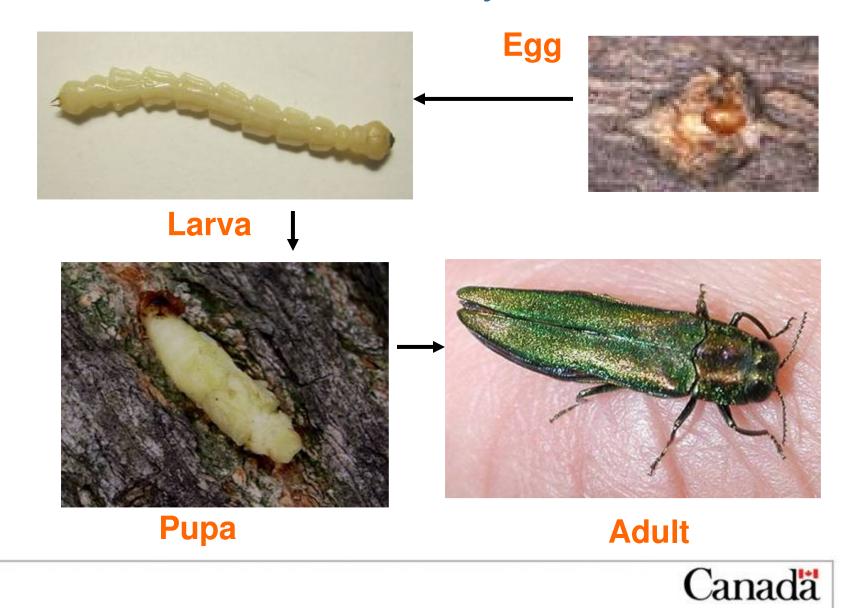


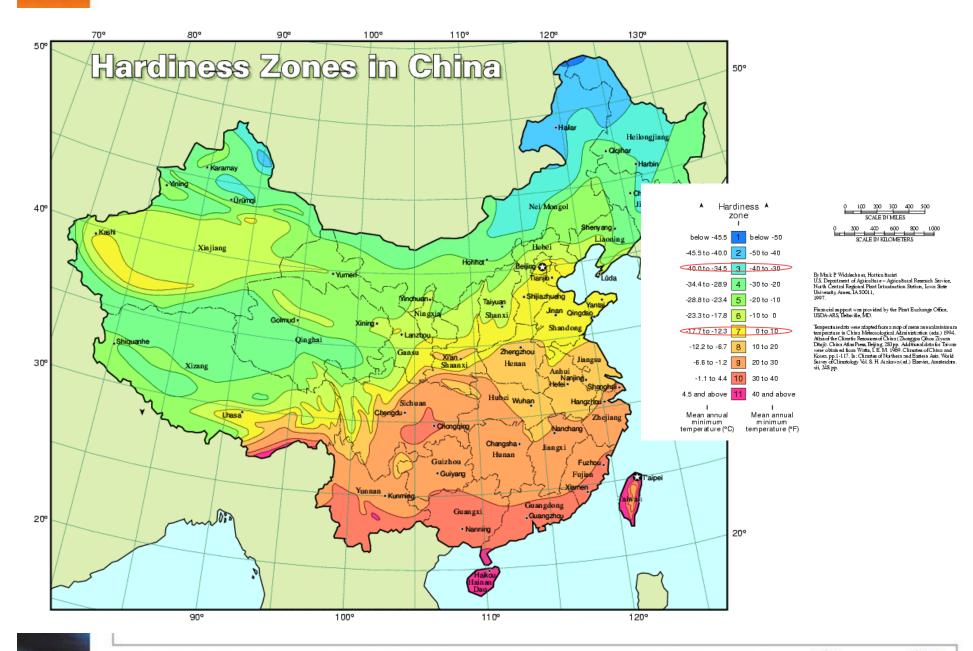


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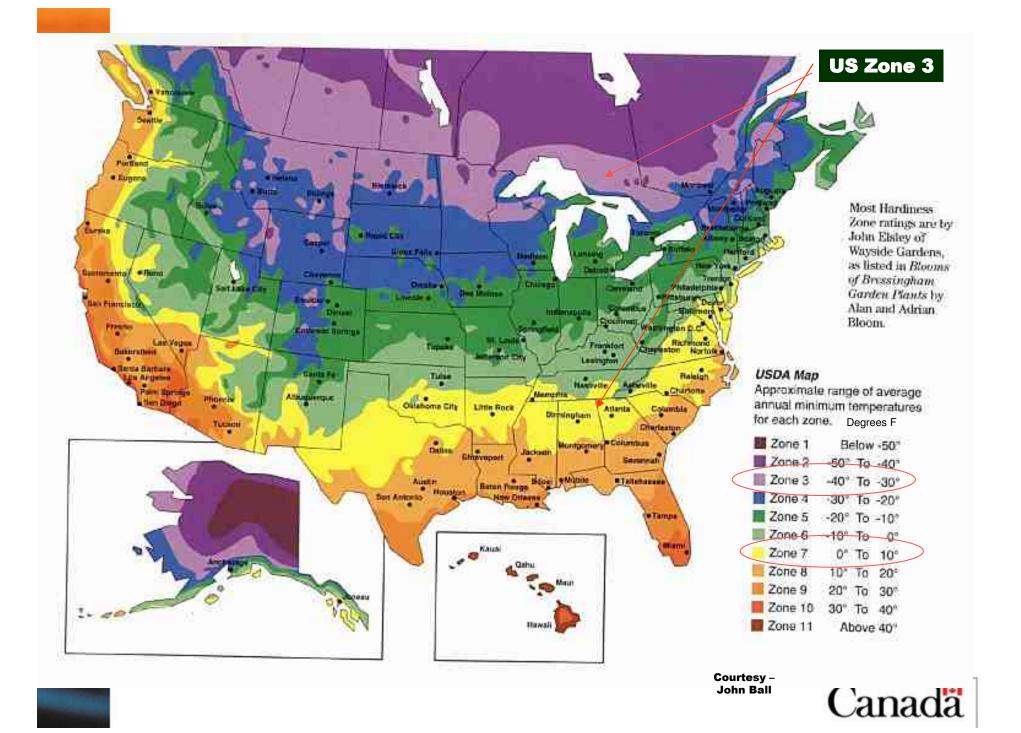


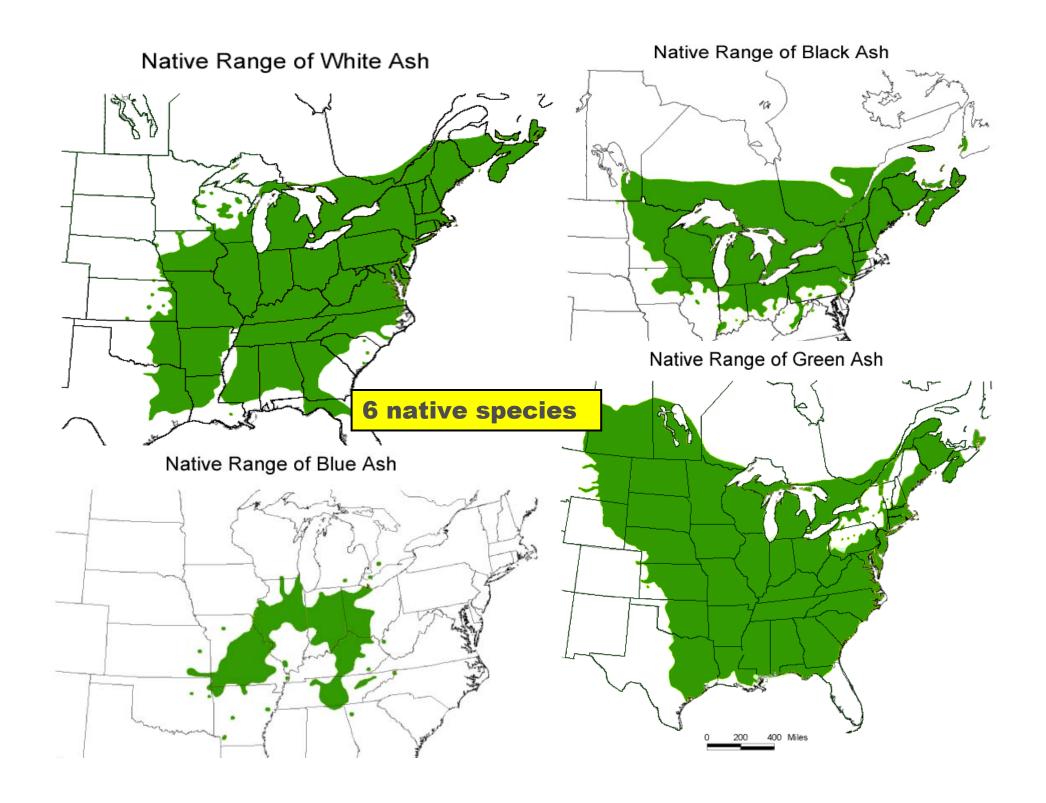
EAB Life Cycle







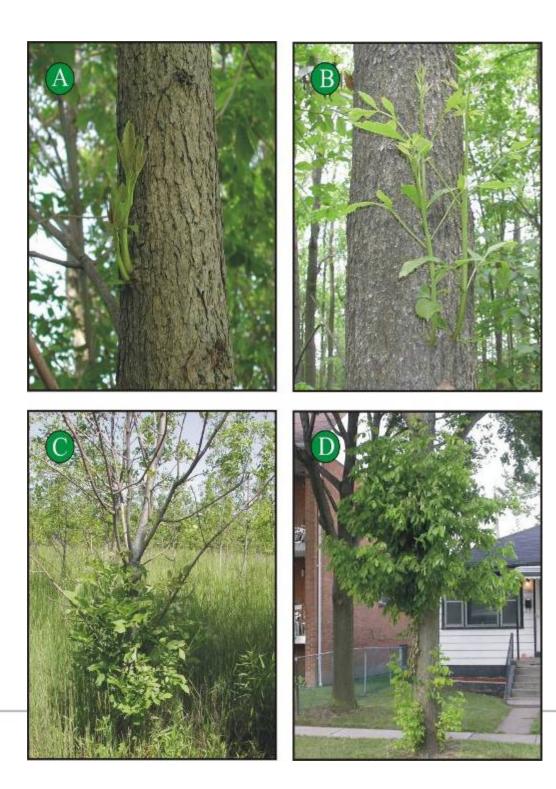








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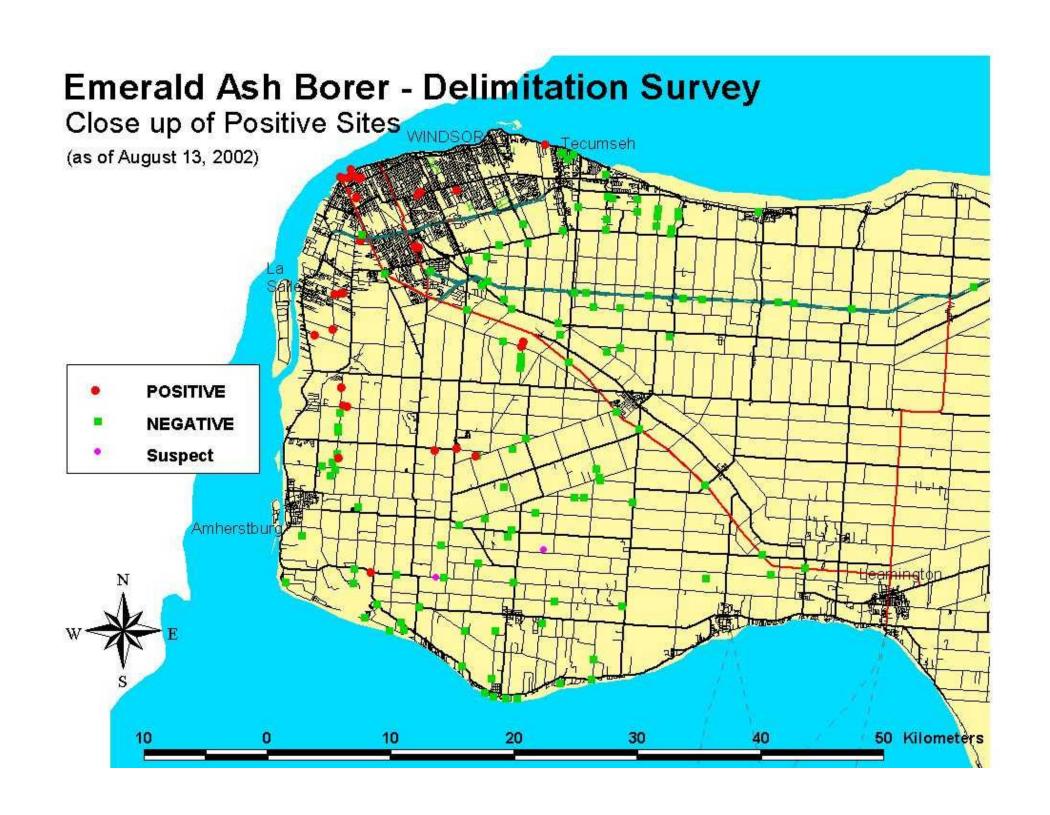


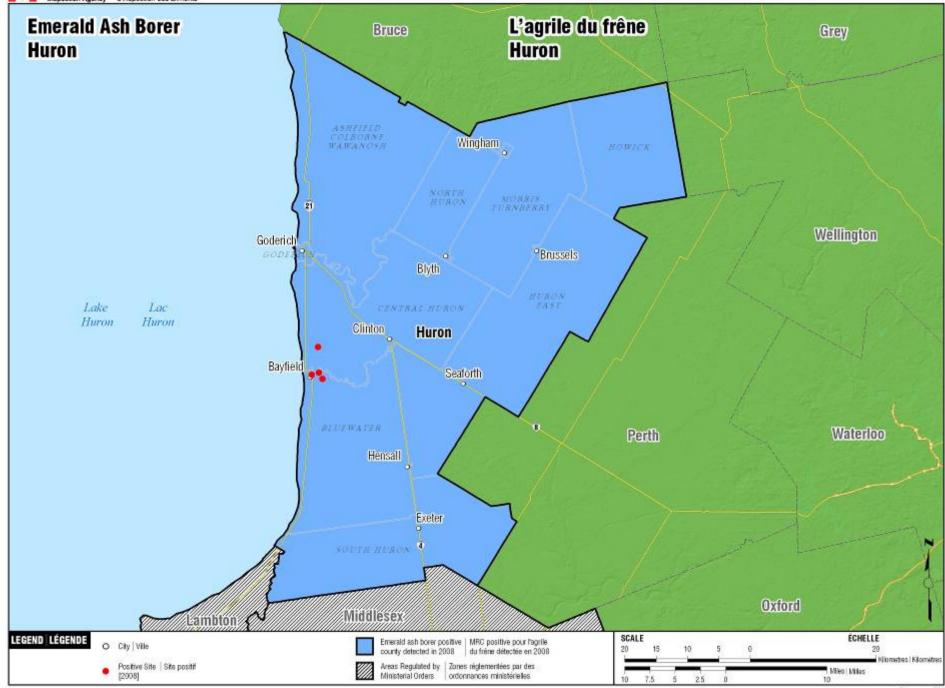


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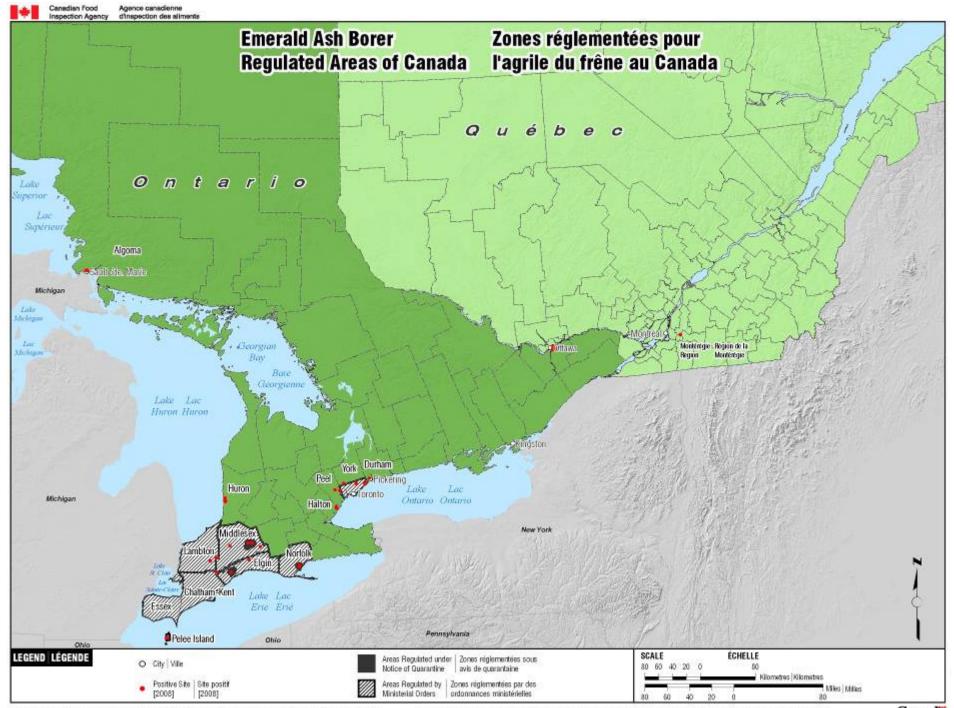


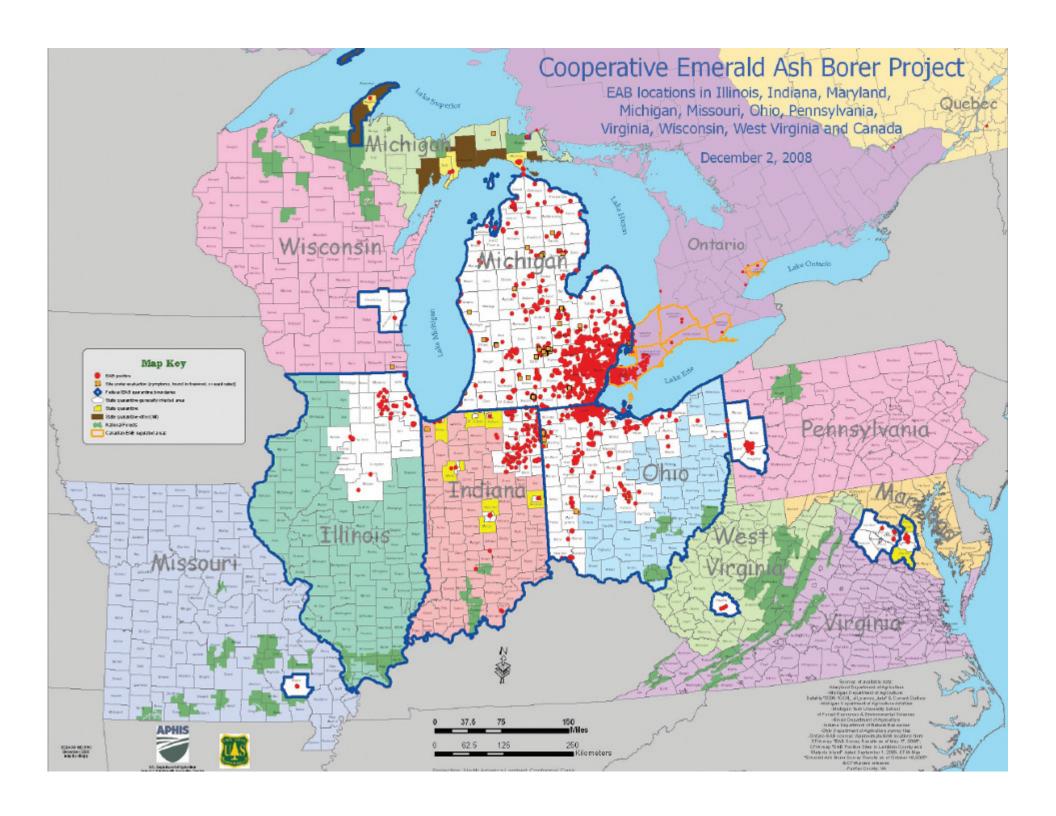












CFIA's Slow the Spread Strategy

- Survey
 - Detection surveys to find where EAB is present
 - Delimitation to determine extent of infestation
 - Challenges of surveying
 - EAB is difficult to detect
 - No viable traps or lures developed to date
 - EAB is often present in an area 3-4 years prior to detection



CFIA's Slow the Spread Strategy

Communications

- Attend forest and outdoors shows
- Engage stakeholders
- Notices, online, in print and on radio
- Many products have been made available
- Toll free line 1-866-463-6017

Regulation

- Individual properties
- Larger area to be defined
- Enforcement



CFIA's role is defined by legislation and policy:

- Plant Protection Act & Plant Protection Regulations
- EAB Infested Places Order (Ministerial Order)
- D-03-08 (EAB Policy)
- Canada is a signatory to the International Plant Protection Convention (IPPC) and other agreements that set the rules for dealing with pests of Quarantine Significance such as EAB



Regulated Articles

 Any ash (nursery stock, lumber, wood packaging, logs, wood/bark chips) and firewood of all species

 Articles can't move outside of a regulated area, but can move within.

 Further information regarding regulated articles can be found in D-03-08



D-03-08

- Rules regarding ash movement from the US (import), and from infested areas to non infested areas of Canada (domestic) are defined throughout
- Provides guidelines on how to deal with Regulated Articles, including:
- EAB Approved Facility Compliance Program
 - Facilities producing product in a regulated area
 - •Facilities acquiring material from regulated areas (only during the no-flight period Oct1 Mar 31)



EABAFCP: Key Points

- Facilities must develop a plan (ISO-based) to make product CONSISTENTLY compliant
- CFIA inspects a minimum of once per month
- In non-regulated areas facilities must state how:
 - segregation will be maintained
 - waste material will be disposed of
 - Compliant = Heat Treated (not Kiln Dried),
 incinerated, bark free (plus 1" of cambium)



How can you help?

- Know your by-laws and policies
 - Do harvest permits capture information on what is being harvested and where it is going?
 - •What about the tops/fuelwood?

 The CFIA regulates the movement of wood, but we can't regulate what we don't know about.



Enforcement Actions

- Prohibition of Movement: halt the movement of materials
- Notice of Quarantine: to determine pest presence
- Notice of Disposal: materials to be destroyed
- Notice of Detention: A violation has occurred; materials can be moved, seized, disposed of made compliant



Enforcement Actions

Plant Protection Act:

• For those who violate the Act a penalty of up to \$200,000 and/or to imprisonment for a term not exceeding 2 years is possible

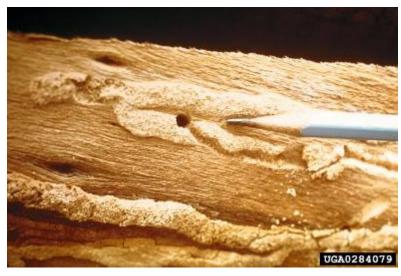
Agriculture and Agri-Food Administrative Monetary Penalties Act:

 For those who violate the Plant Protection Act immediate penalties of up to \$4000 may be issued



Pests of Ash often confused with EAB





Neoclytus acuminatus: Red-headed Ash Borer – native secondary pest







Pests of Ash often confused with EAB



Podesesia syringae: Clearwinged Ash Borer





Hylesinus aculeatus:
Ash Bark Beetle



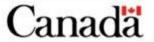
Pests of Ash often confused with EAB



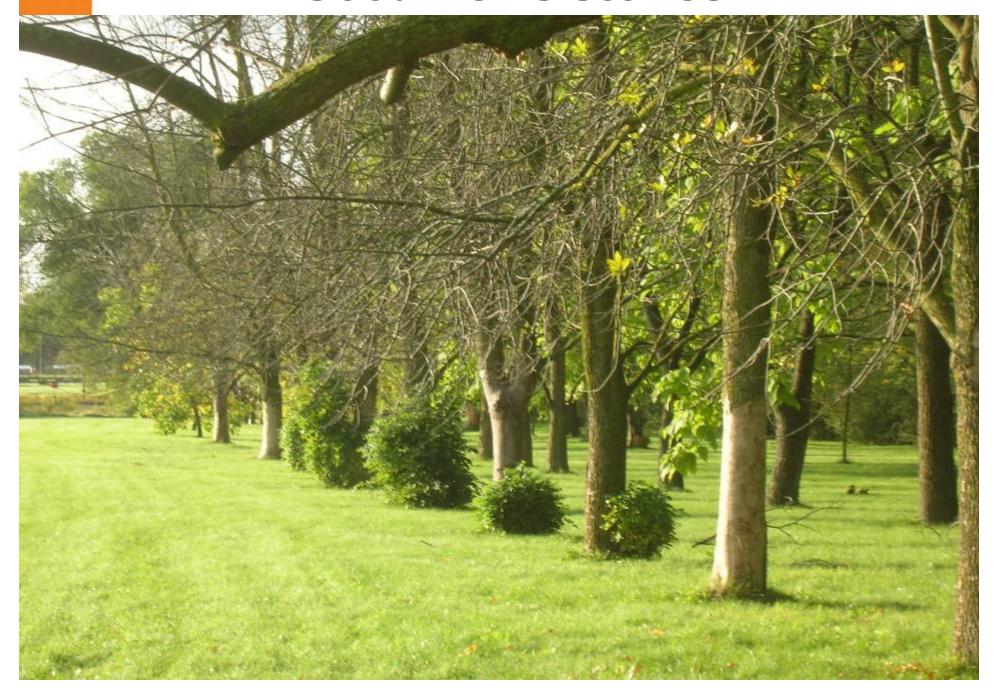
Chrysobothris femorata







Good News stories!











Biological Control of EAB

Potential native predators

Phasgonophora sulcata



Balcha indica

Atanycolus sp.



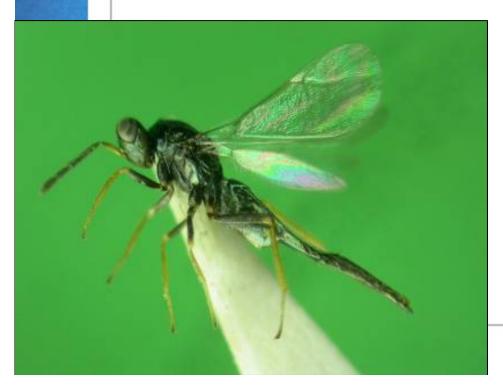




Biological Control of EAB (US release)

Classic Biocontrol - Oobius agrili, Spathius agrili, Tetrastichus planipennisi

Tetrastichus planipennisi





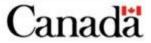
Spathius agrili



Biological Control of EAB

Cerceris fumipennis: Buprestid Hunter – predatory wasp
Potential Survey Tool?





Canada