

Invasive Forest Insect Update

Brandy Saffell (Forest Conservation Specialist)

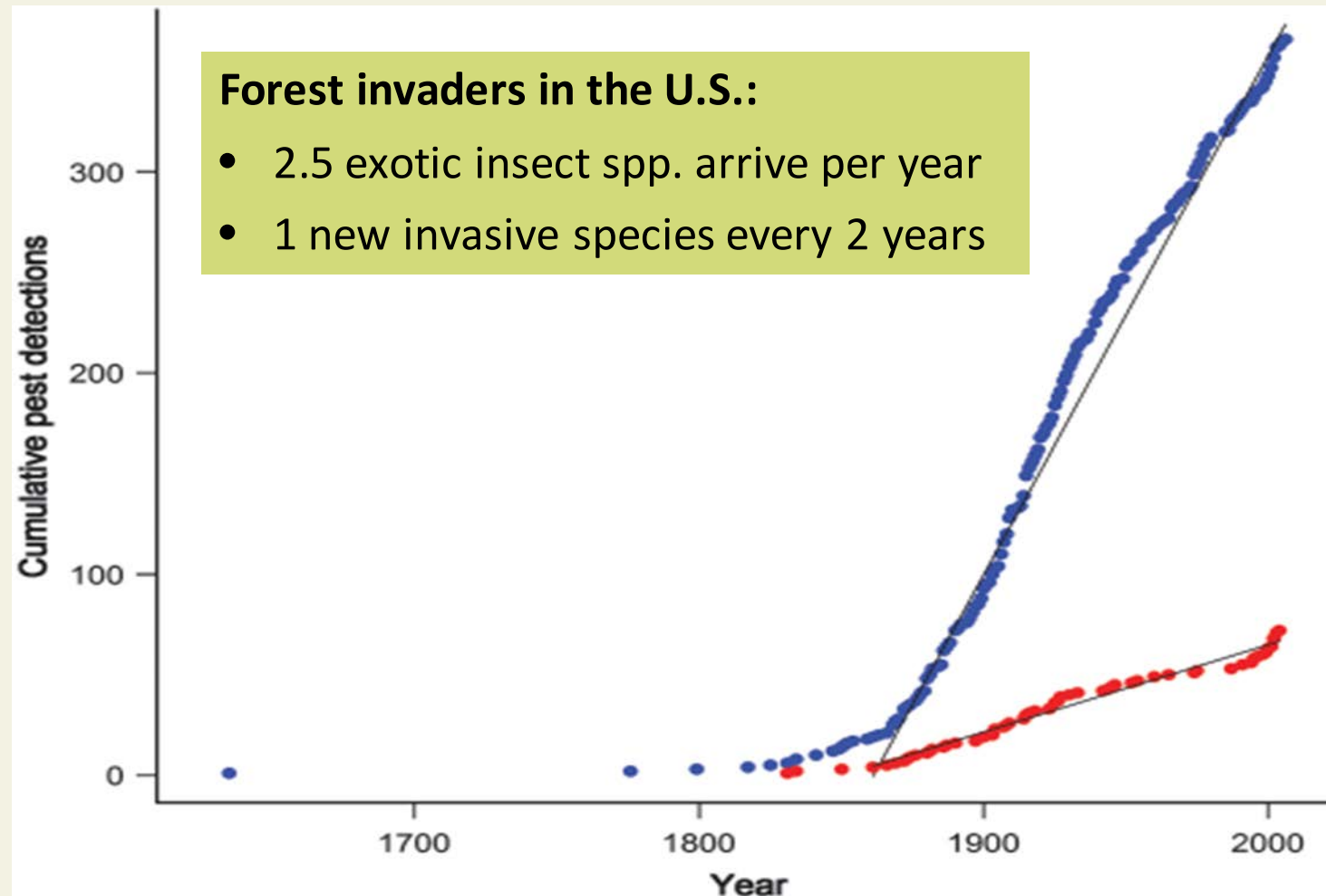


Photos: David Cappaert, E. Richard Hoebeke, Wikimedia Commons



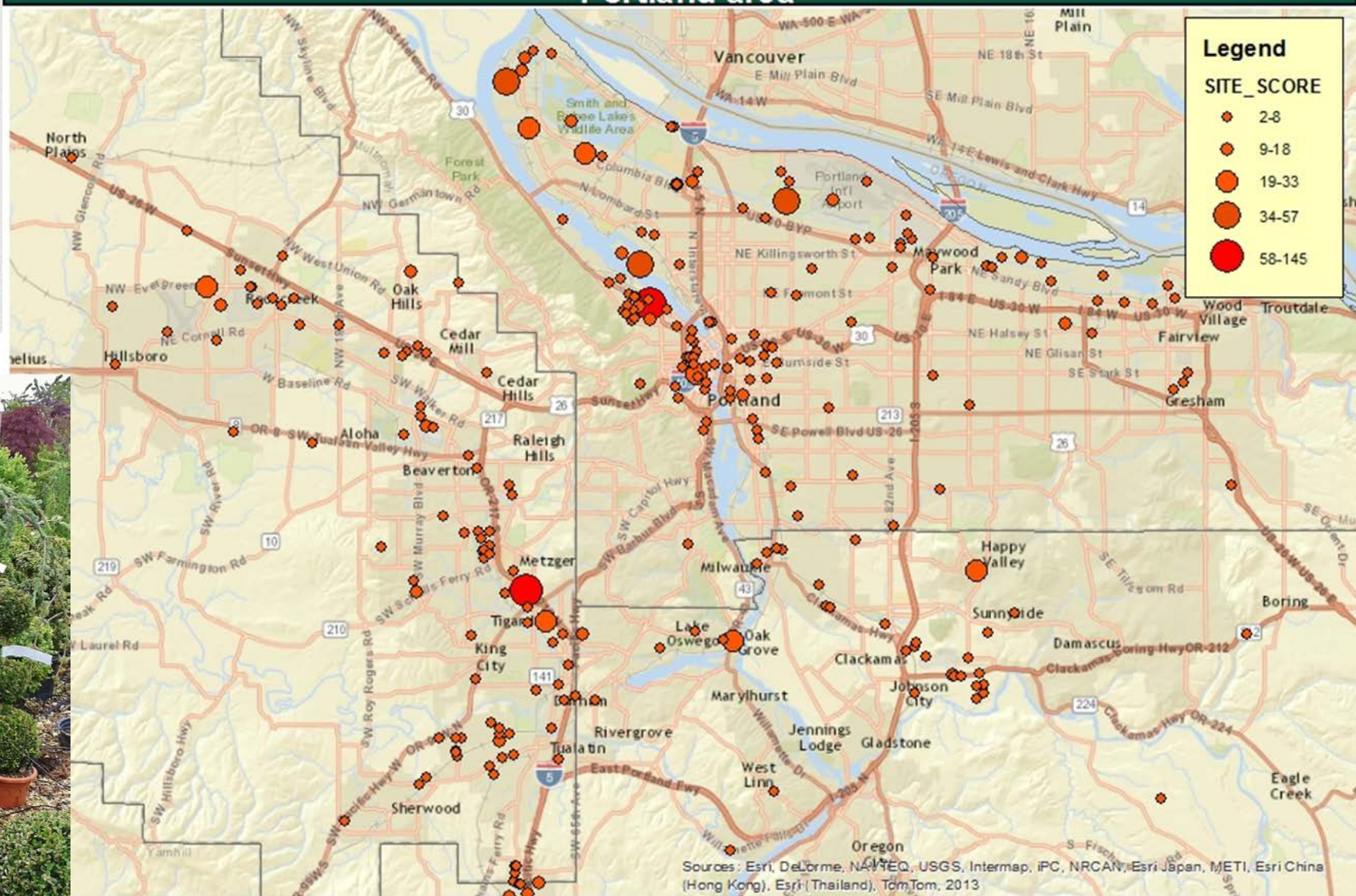
Tualatin Soil and Water
CONSERVATION DISTRICT
Conservation is for everyone.

Why care about invasive forest insects?



Blue = All non-native forest insects
Red = Invasive forest insects and disease

Aukema et al. 2010.





OREGON FOREST PEST DETECTOR



Exotic invasive forest insects and diseases are a leading cause of damage to natural and urban forests.

Local, state and federal governments often **spend millions of dollars** trying to eradicate the most damaging insects in order to preserve forest and tree health.

Benefits of Early Pest Detection

Early detection and rapid response are the first lines of defense to eradicate pests before they become established and difficult to control. The detection of forest pests is a critical first step in the process of eradication.



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Additional Information:

International Society of Arboriculture: 1.5 credits

Emerald ash borer

- First report in Detroit in 2002
- Most likely arrived in solid wood packing material
- Kills **ash trees** in larval stage
 - Consumes vascular tissue under the bark
 - Tree starves
 - Has killed over 100 million ash trees to date
- NOT IN OREGON YET
- Oregon ash is a preferred host
 - Non-native ash is also susceptible (street trees)



Photos: David Cappaert



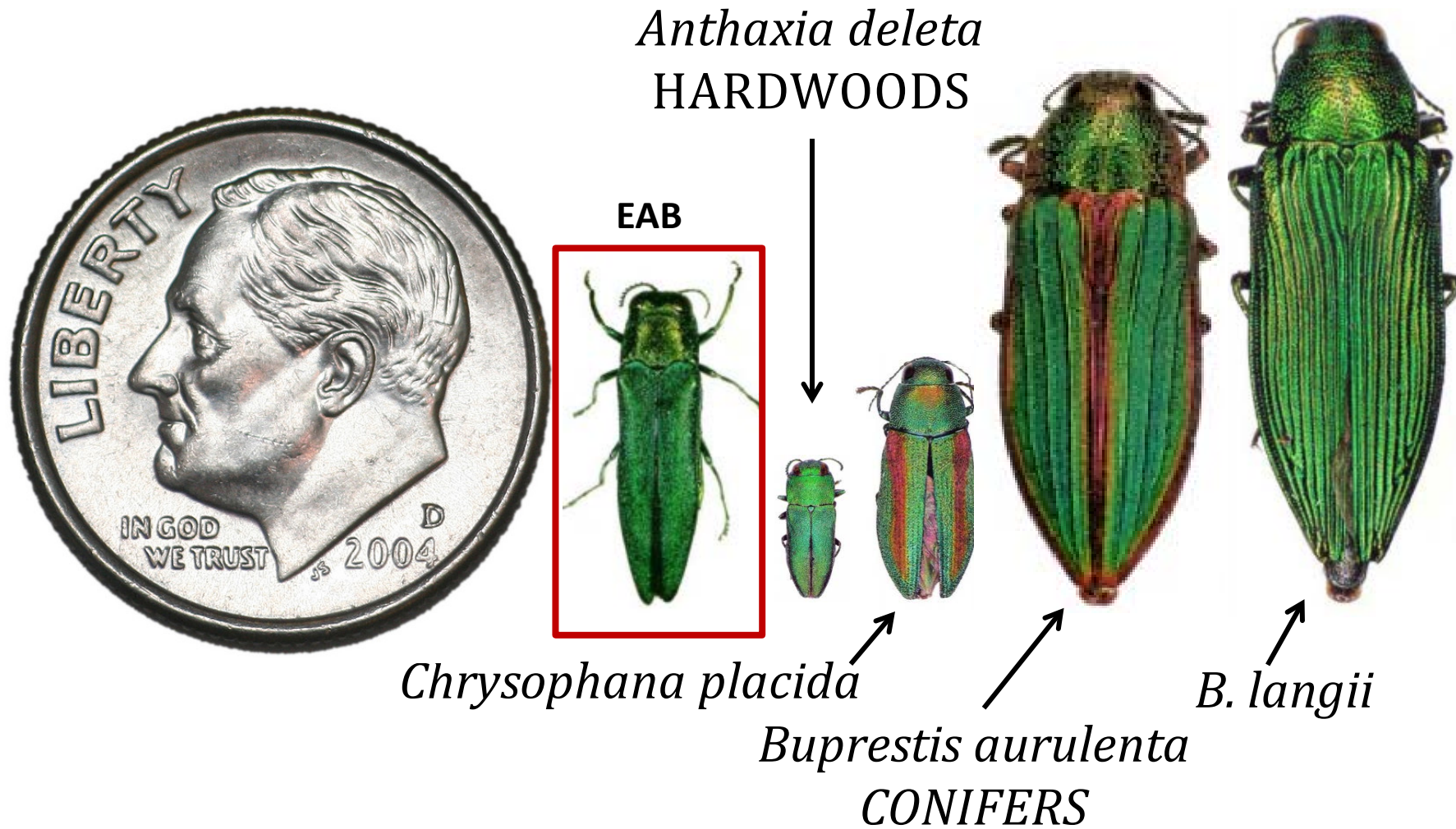
Photos: Dan Herms



Photos: Dan Herms

Oregon Look-Alikes:

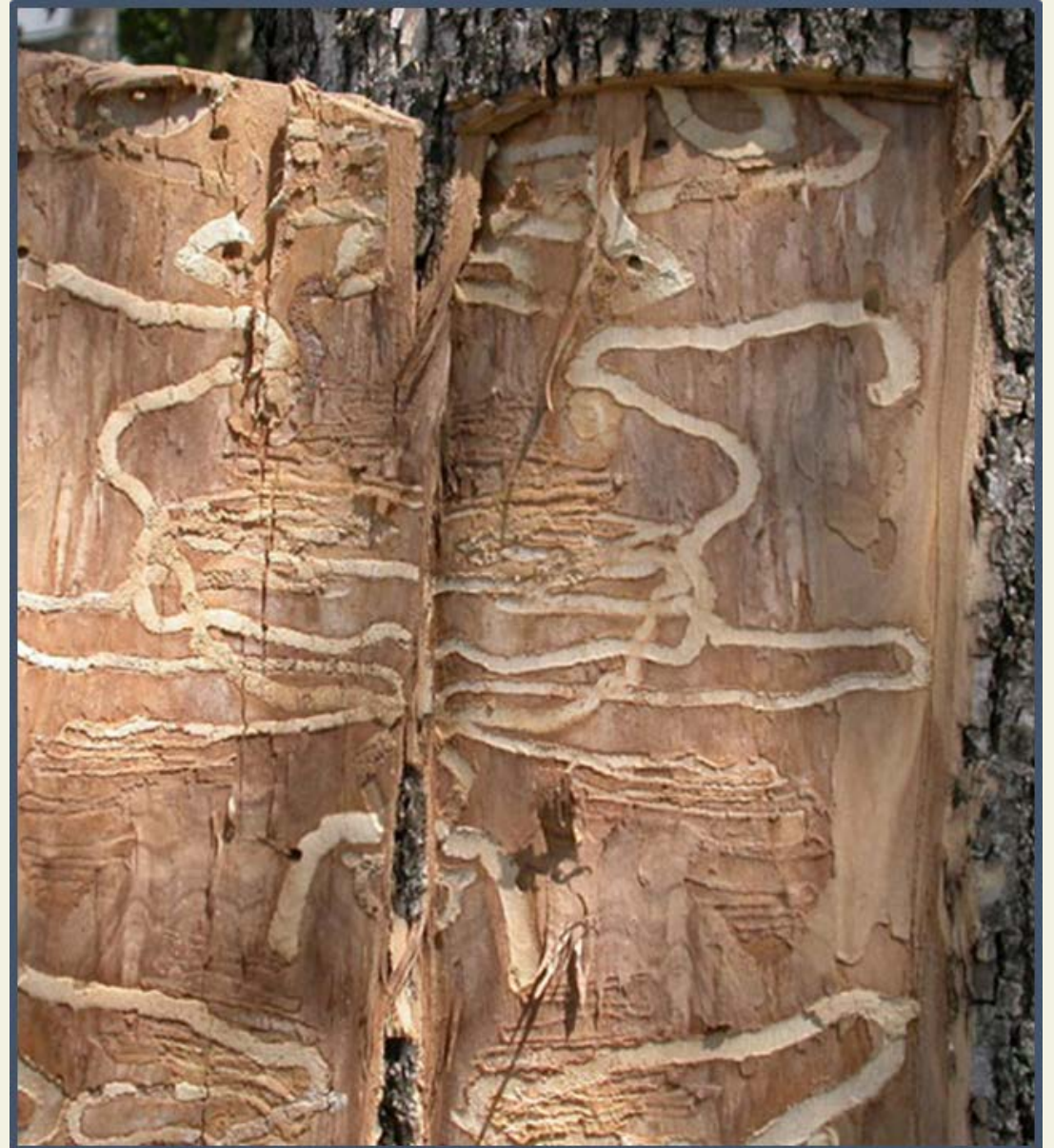
Other metallic wood borers (Buprestids)



Emerald ash borer

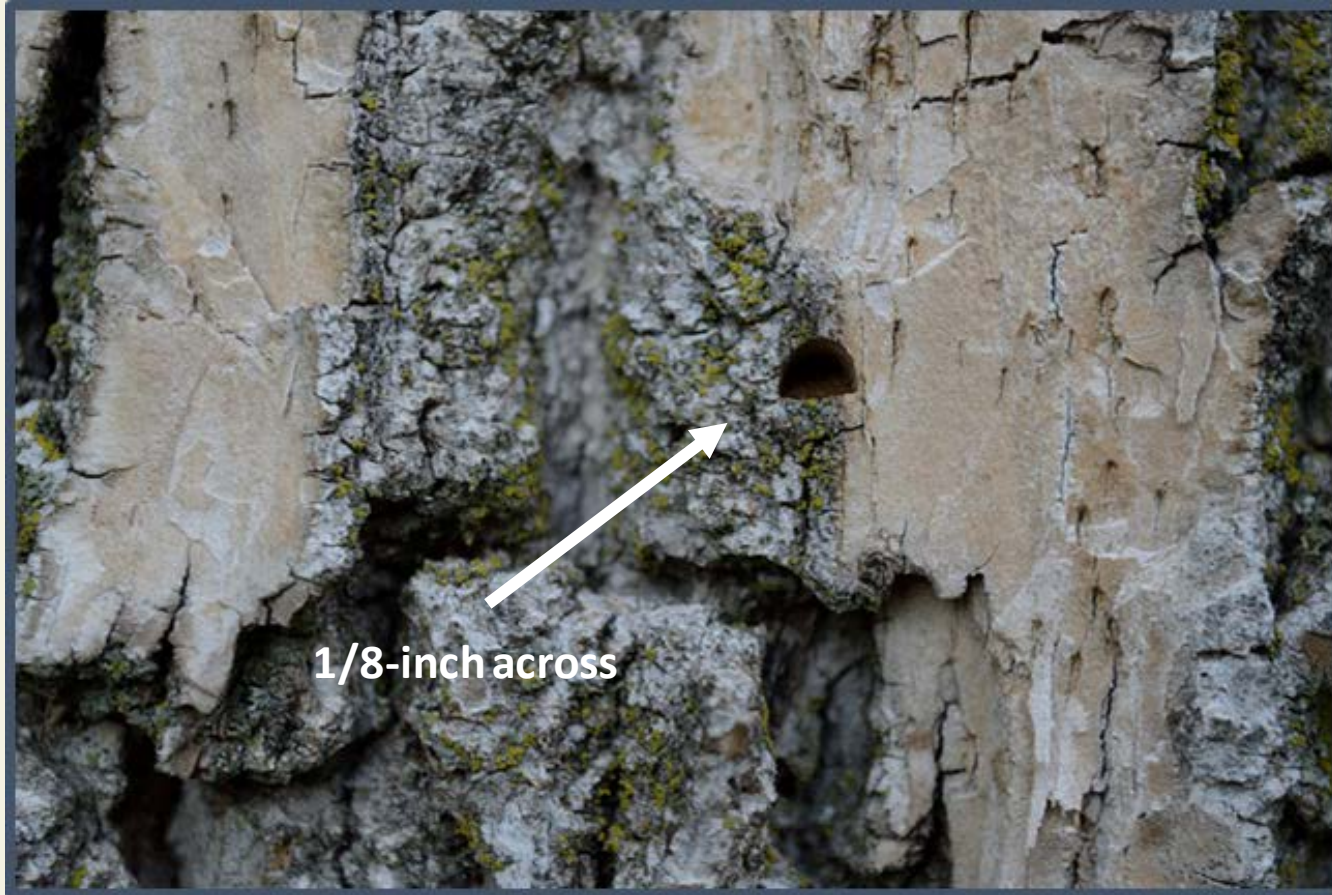


Emerald ash borer



Photos: Joseph O'Brien, Edward Czerwinski

Emerald ash borer



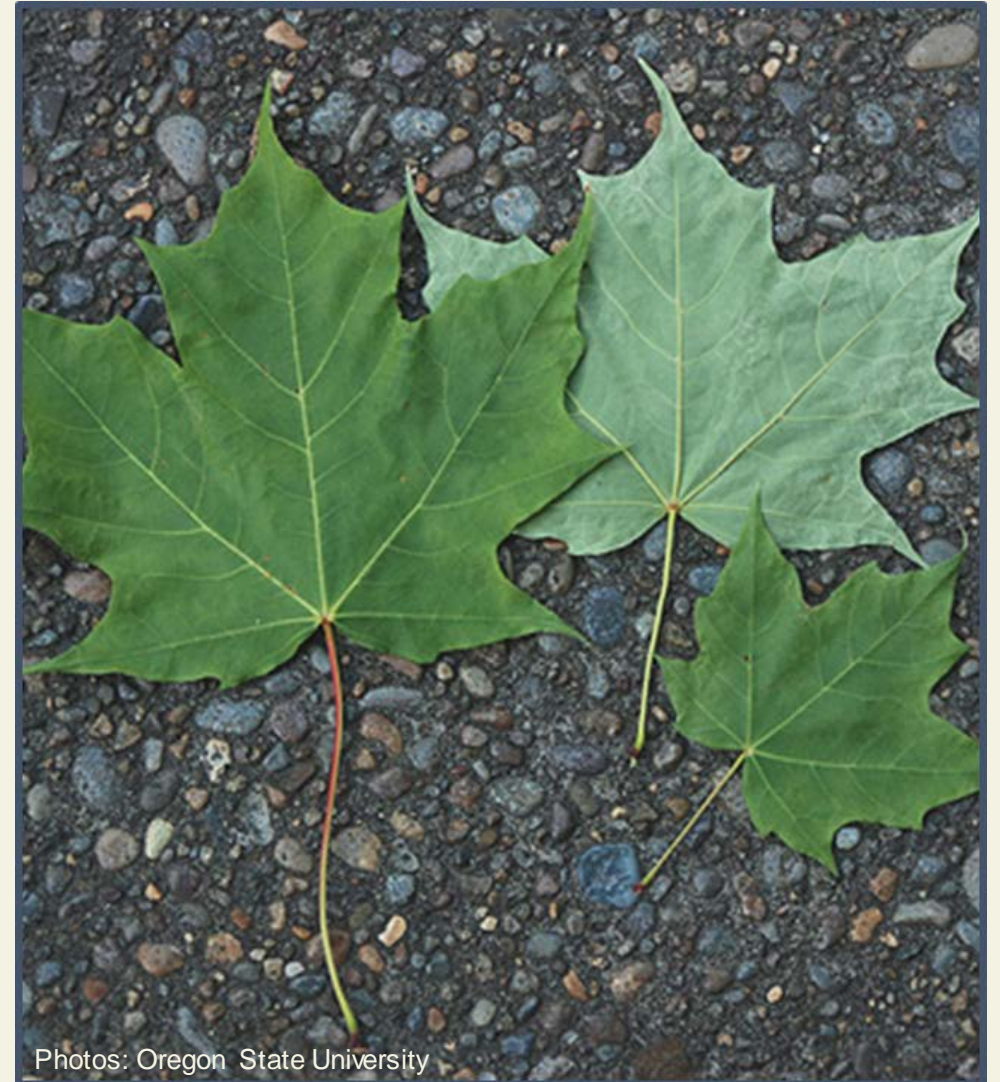
Asian longhorned beetle

- First report: Brooklyn, 2002
- Most likely arrived in solid wood packing material
- Larvae consume phloem and xylem
- Trees decline SLOWLY over time
- NOT IN OREGON YET



ALB Hosts

- Many different species
- **Preferred Hosts: maple, horsechestnut, birch, willow, elm**
- Occasional Hosts: ash, poplar, sycamore, mountain-ash, mimosa, katsura, hackberry, golden raintree
- Potential Host: alder



Photos: Oregon State University

Adult Look-Alikes

ALB



banded alder borer
(*Rosalia funebris*)



Oregon fir sawyer
(*Monochamus scutellatus oregonensis*)



Female



Male

Asian longhorned beetle



Asian longhorned beetle



Agrilus cyanescens

- “Lonicera borer”
- Native to Eurasia
- Documented in Eastern US
 - Feeds on native honeysuckles (*Lonicera* spp.)



Photos: Wikimedia Commons

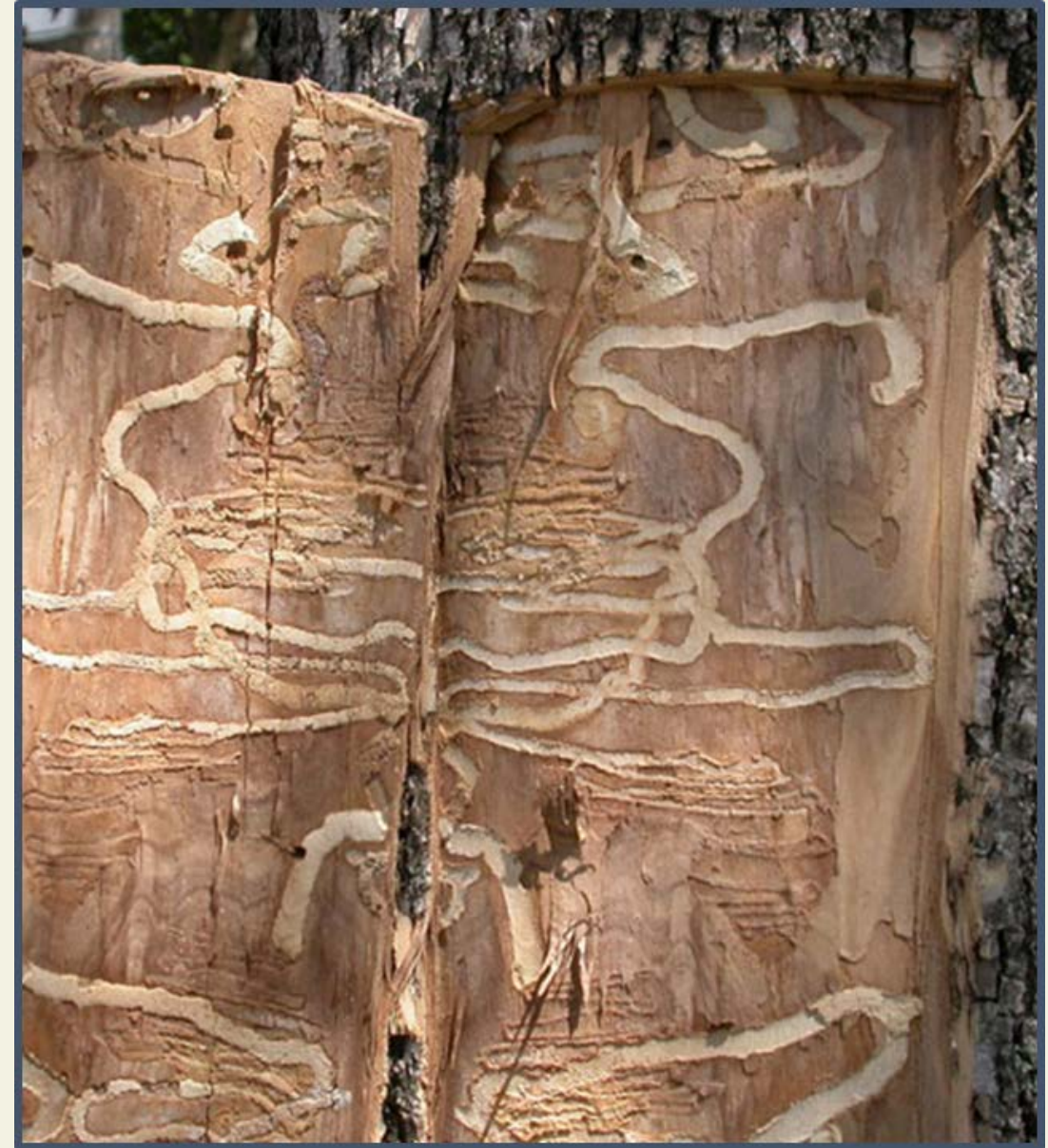
First report in Oregon

- Summer 2019
- Two reports in Multnomah County
 - Home gardens/yards
- Damage to native twinberry
 - *Lonicera involucrata*
- Unknown potential impact
 - Need YOU to keep an eye out



Photos: Oregon Department of Forestry

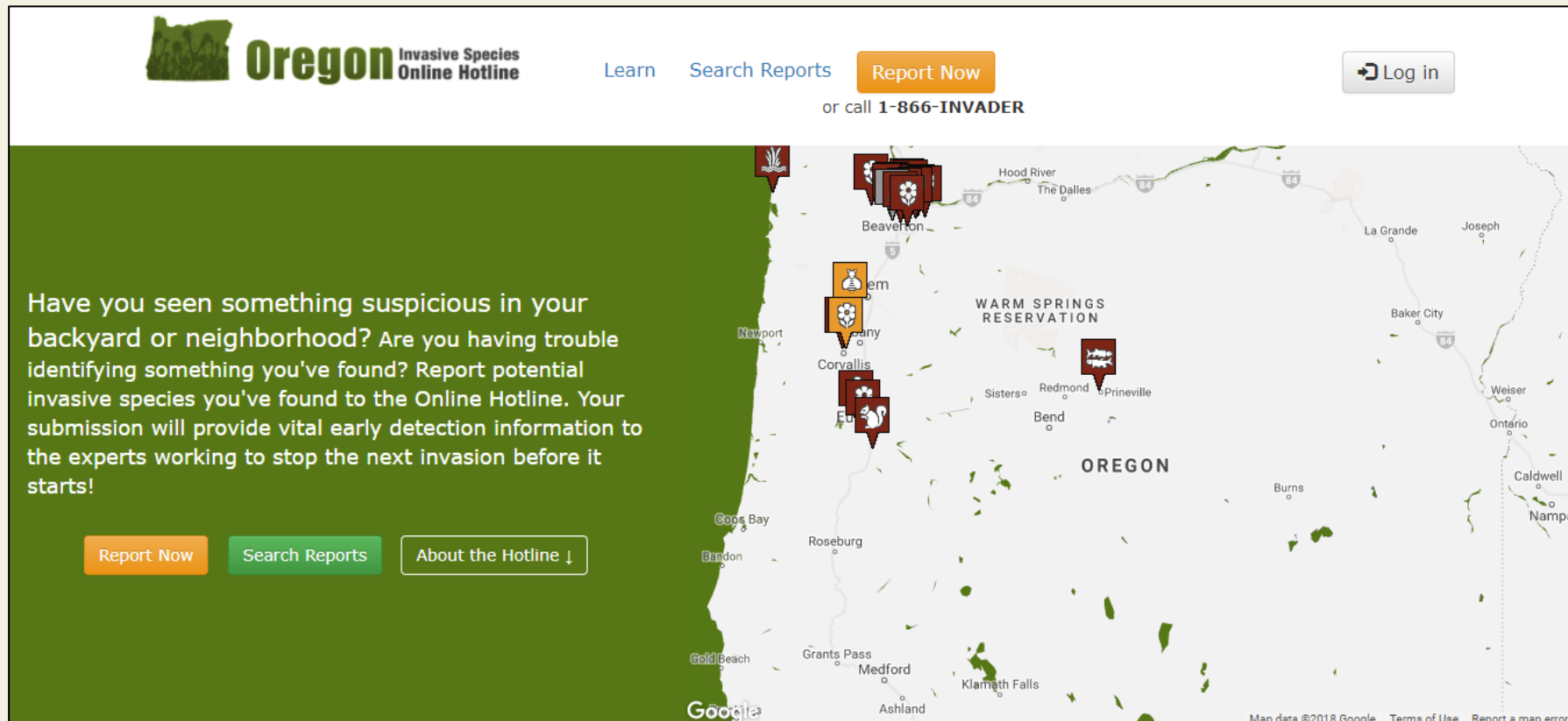
Similar symptoms to EAB



Reporting

Oregon Invasive Species Hotline

OregonInvasivesHotline.org



Oregon Invasive Species Online Hotline

[Learn](#) [Search Reports](#) [Report Now](#)

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Have you seen something suspicious in your backyard or neighborhood? Are you having trouble identifying something you've found? Report potential invasive species you've found to the Online Hotline. Your submission will provide vital early detection information to the experts working to stop the next invasion before it starts!

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