



Street Trees - Current Issues/Pests

Pesticide ReCert
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October 25, 2017

Our mission, vision, and core values

Mission: deliver a high-quality transportation system for Seattle

Vision: connected people, places, and products

Committed to **5 core values** to create a city that is:

- Safe
- Interconnected
- Affordable
- Vibrant
- Innovative

For **all**

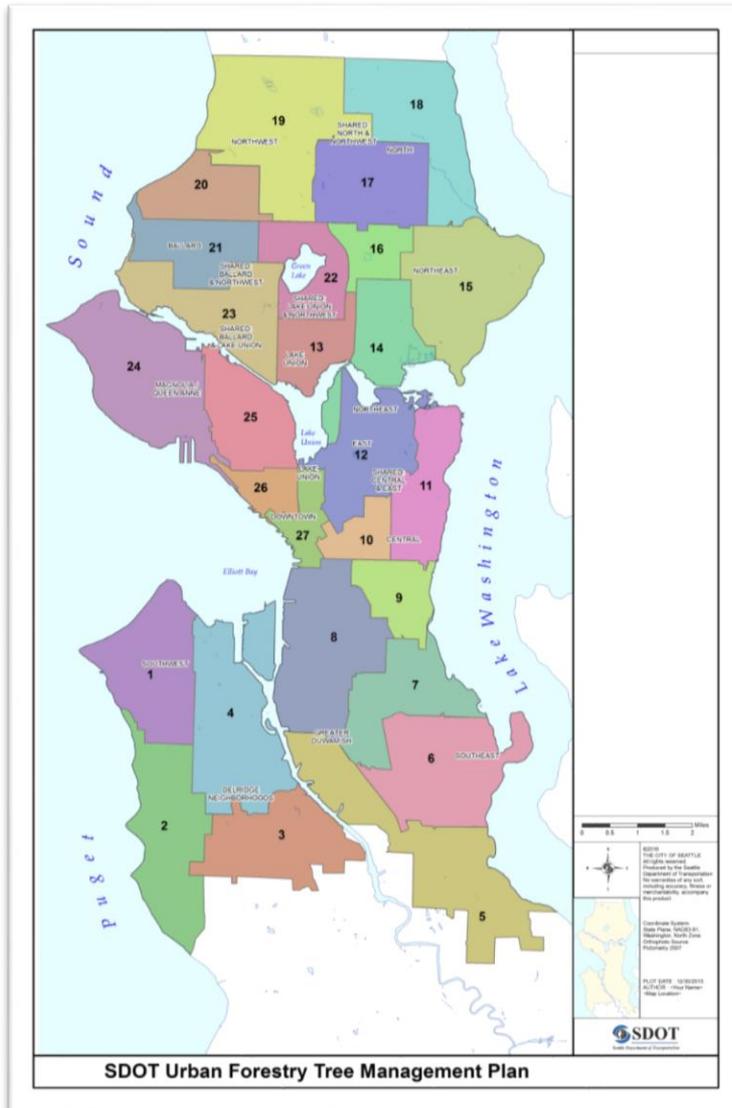
Division mission

SDOT Maintenance Operations Division mission is to provide integrated maintenance, emergency response, and stewardship of the engineered and natural systems within the Right of Way to promote a safe, vibrant and interconnected city.

Presentation overview

- Introduction and background
- Street Tree Management and Inventory
- Issues
- Questions

At-a-Glance



Inventory & Analysis

Maintenance

Planting

9-year Street Tree Management Plan:

- Simple to communicate and easy to understand
- Data-driven approach
- Expands the use of best management practices
- Clear performance measures



Tree Collector App



Home ▾ SDOT - Tree Collection

Details Add ▾ Edit Basemap

About Content Legend

Legend

SDOT.TREES_FIELD

- Add a Tree
- Change Tree Attributes
- Move a Tree
- Move and Change Tree Attributes
- Remove a Tree
- Unchanged Tree

DWW Side Sewers and Laterals

- Drainage Lateral, Inspected
- Side Sewer, Inspected
- - - Drainage Lateral, Not Inspected
- - - Side Sewer, Not Inspected
- SPU Drainage Lateral
- SPU Side Sewer
- - - Phantom Connector

Streets

-

Right of Way (lines)

-

Parcels

- ▭

Pavement Edge

- ▭

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A screenshot of the Tree Collector App interface. The top navigation bar shows 'Home' and 'SDOT - Tree Collection'. Below it are buttons for 'Details', 'Add', 'Edit', and 'Basemap'. A secondary navigation bar includes 'About', 'Content', and 'Legend'. The main area is a map of a residential neighborhood with various colored overlays: red and blue lines for streets, yellow and purple lines for parcels, and green circles for trees. A legend on the left side of the screen lists the symbols and their meanings, including 'SDOT.TREES_FIELD' (Add, Change, Move, Move and Change, Remove, Unchanged), 'DWW Side Sewers and Laterals' (Drainage Lateral, Side Sewer, SPU Drainage Lateral, SPU Side Sewer, Phantom Connector), 'Streets', 'Right of Way (lines)', 'Parcels', and 'Pavement Edge'. The bottom of the screen shows the Esri logo and a footer with links to Esri.com, ArcGIS Marketplace, Help, Terms of Use, Privacy, Contact Esri, and Report Abuse.

Dutch Elm Disease

Yes, it's still here, and killing trees.

Sanitation

Injections

DED Facts



Dutch Elm Disease

DED Life Cycle



Dutch Elm Disease

European Beetle



Injections
Arbotect



Bronze Birch Borer

- Becoming more common in Seattle



Bronze Birch Borer

Susceptibility Based On Species In Our Region	
Tree Species	Susceptibility
European White Birch	High
Black Birch	Moderate
Paper Birch	Moderate
Whitespire Birch	Moderate
River Birch	Very Low
'Heritage' River Birch	Very Low

Pupate – Spring
Adults emerge – June/July
Lay Eggs – July / August
Eggs hatch and bore into trees in August

Emerald Ash Borer



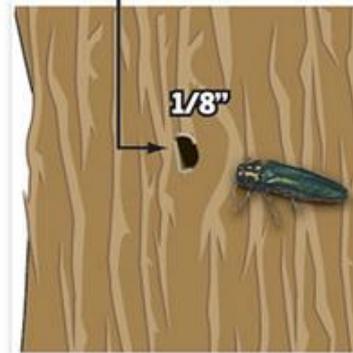
Symptoms of infestation

Emerald ash borer attacks and kills all species of ash. Although stressed trees are always more prone to borer attack, evidence from Michigan suggests that healthy, well maintained trees also are attacked and killed by this beetle, state officials say.

Thinning crown on tree



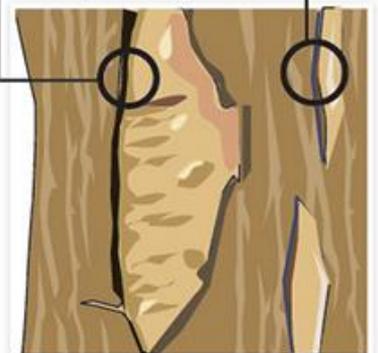
D-shaped holes on bark



S-shaped tunnels beneath bark



Split bark / bark chipped off by woodpecker



Emerald Ash Borer

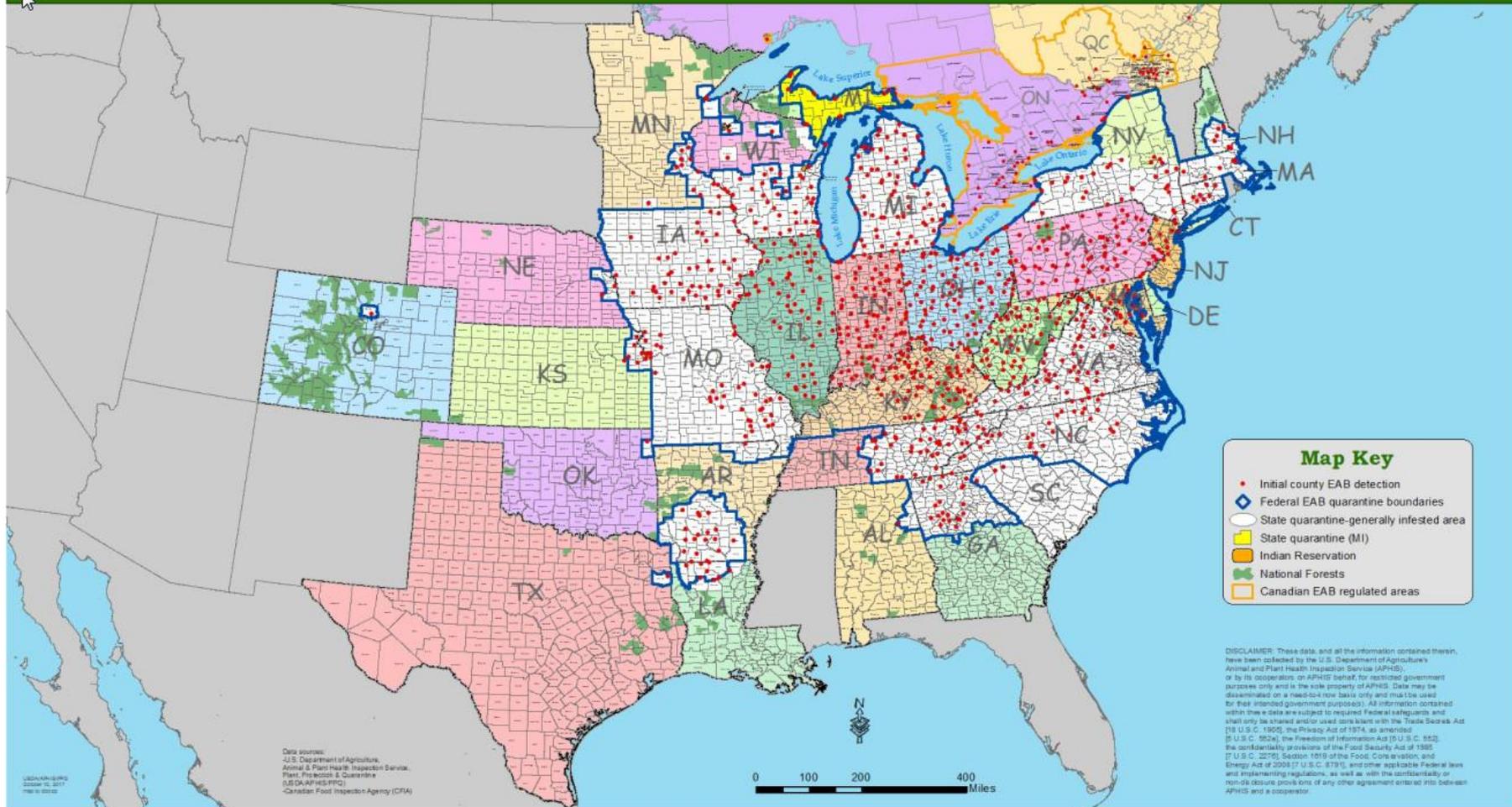


United States
Department of
Agriculture

Cooperative Emerald Ash Borer Project

Initial county EAB detections in North America

October 10, 2017



Aphids



Aphids - Really!?!?!?

- Typically not plant killers
- Populations spike quickly
- Weakened plants can be more susceptible to other problems
- Honeydew can be a public relations issue, which puts pressure on the landscape manager to act

The Real Problem?



Death by 1,000 cuts

Uninformed property
owners & untrained
tree cutters



The Real Problem?



Death by Excess....
Too much of a good
thing.



The Real Problem?



The Real Problem?



Always work with professionals....

Questions?

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<http://www.seattle.gov/transportation/forestry.htm>

www.seattle.gov/transportation

