

# Update to Chanhassen EAB Management Plan

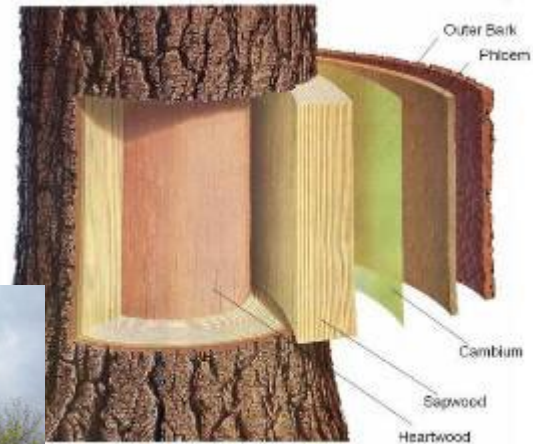
City Council Regular Meeting May 23, 2022

# EAB Management Plan

City Council Work Session May 23, 2016

# What is EAB?

- EAB = Emerald Ash Borer
- Invasive insect
- First discovered in Detroit in 2002
- Kills all types of ash – green, black and white
- Doesn't kill mountain ash





UNIVERSITY OF MINNESOTA EXTENSION

# Insects in Minnesota confused with emerald ash borer

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[extension.umn.edu](http://extension.umn.edu)

IN COOPERATION WITH



DEPARTMENT OF  
NATURAL RESOURCES

[dnr.state.mn.us](http://dnr.state.mn.us)

WITH SUPPORT FROM



DEPARTMENT OF  
AGRICULTURE

[mda.state.mn.us](http://mda.state.mn.us)

emerald ash borer



bronze birch borer



flatheaded apple tree borer



*Buprestis metallic*  
wood-boring beetle



two-lined chestnut borer



blister beetle



polydrusus weevil



halictid bee



blow fly



Japanese beetle



dogbane beetle



green stink bug



*Chlaenius*  
ground beetle



bark gnawing beetle



*Poecilus*  
ground beetle



six-spotted tiger beetle



annual cicada



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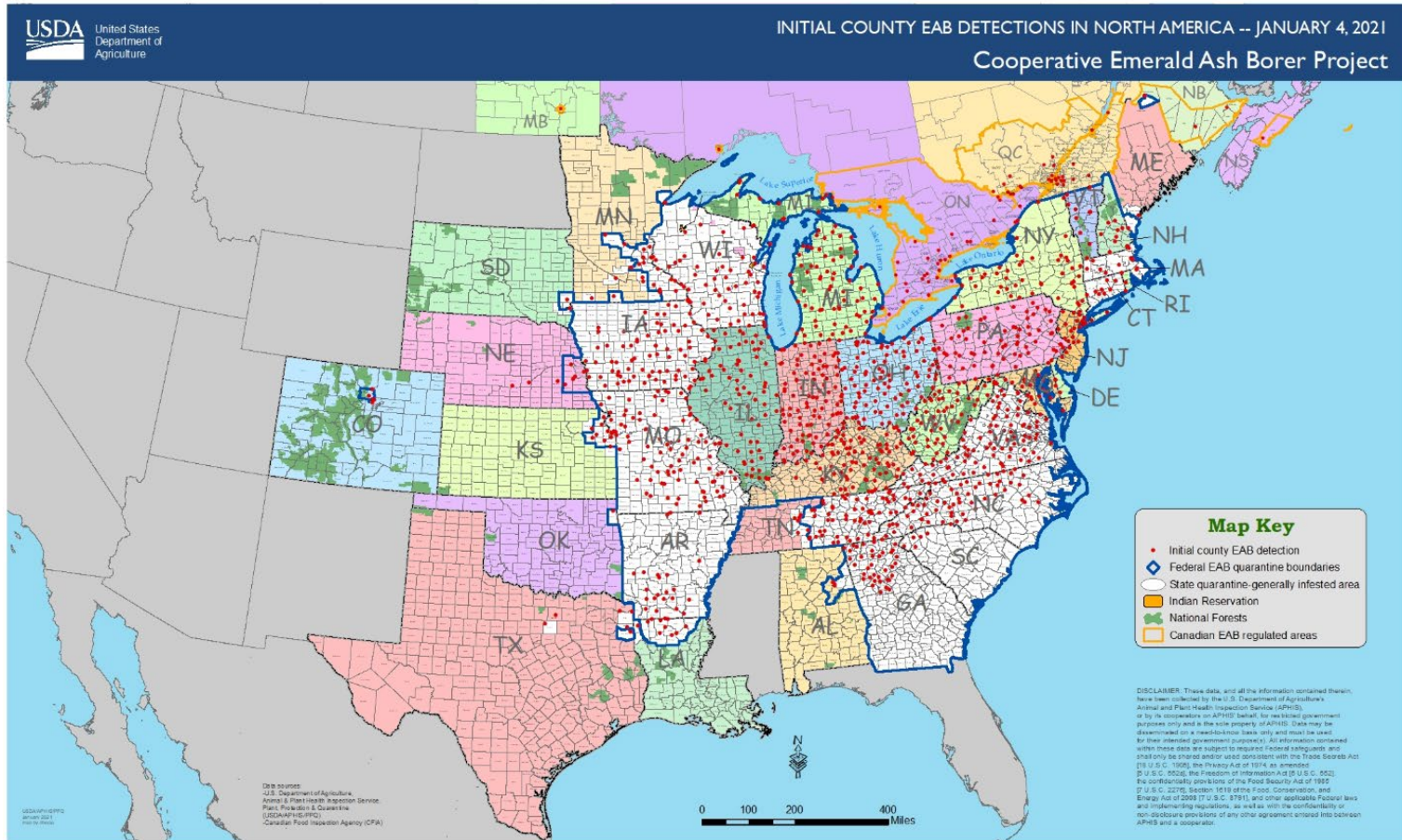
# EAB life cycle and damage

- Larva overwinter under bark and emerge in late May/early June as adults
- Adults lay eggs on ash bark (around July)
- Larvae hatch and burrow into phloem tissue (mid- to late-July)
- Larvae feed on phloem creating permanent disruption of vascular tissue (late July/early Aug – October)
- As larval populations grow, disconnection of vascular tissue increases until tree dies

(EAB may have a 1 or 2 yr life cycle )



# January 2021 – EAB



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# EAB in MN



[ABOUT MDA](#)  
[MDA A-Z](#)  
[STAFF LISTING](#)  
[HOME](#)

Search  Quarantine Areas  Legend

### **Emerald Ash Borer Status**

This map shows MDA's efforts to detect and respond to infestations of Emerald Ash Borer.

Type in an Address, City, or Zip below to zoom to a specific area:

**Address Found:** Chanhassen, MN, USA

This address is not inside the EAB Quarantine.

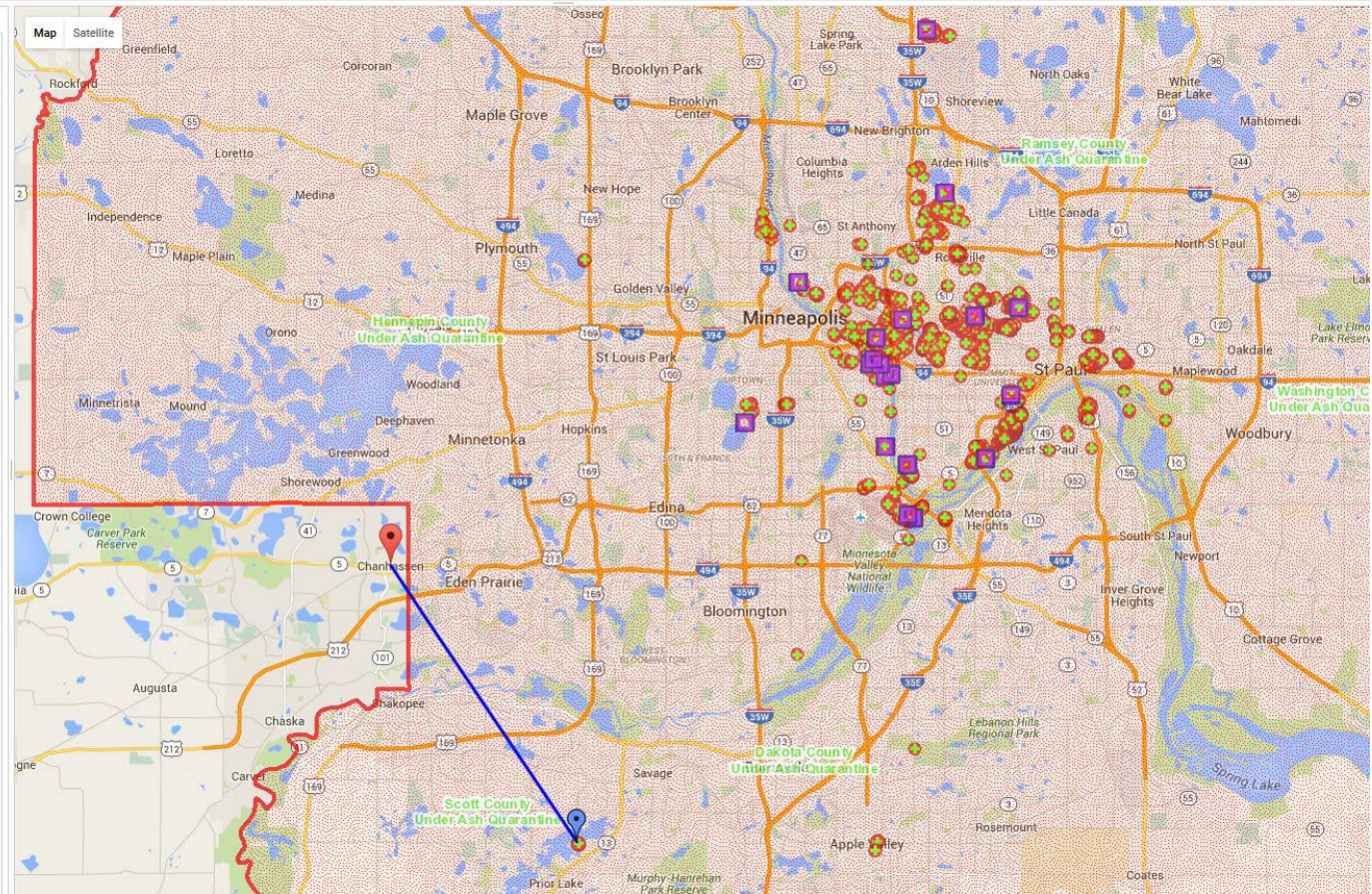
Nearest EAB find in Minnesota: about 10.78 Miles (17.36 km)

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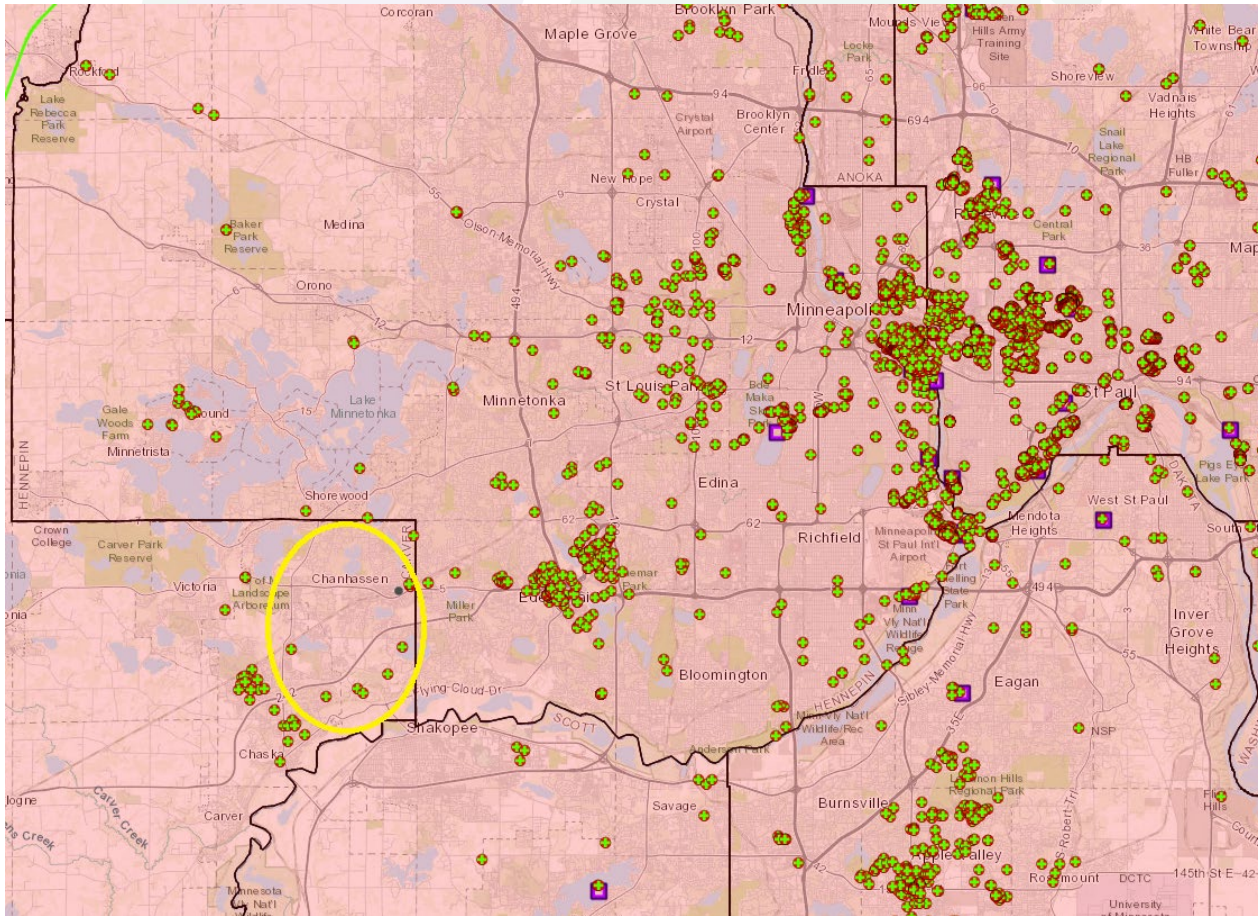
**Note about distance:**  
Distance to the nearest known infestation is an important aspect in determining the risk EAB poses to your trees.

Keep in mind however that EAB tends to spread in jumps and that symptoms do not appear until EAB has been present in an area for 2 years or more. EAB densities sufficient to kill trees take 4-5 years to accumulate after reaching a new area.

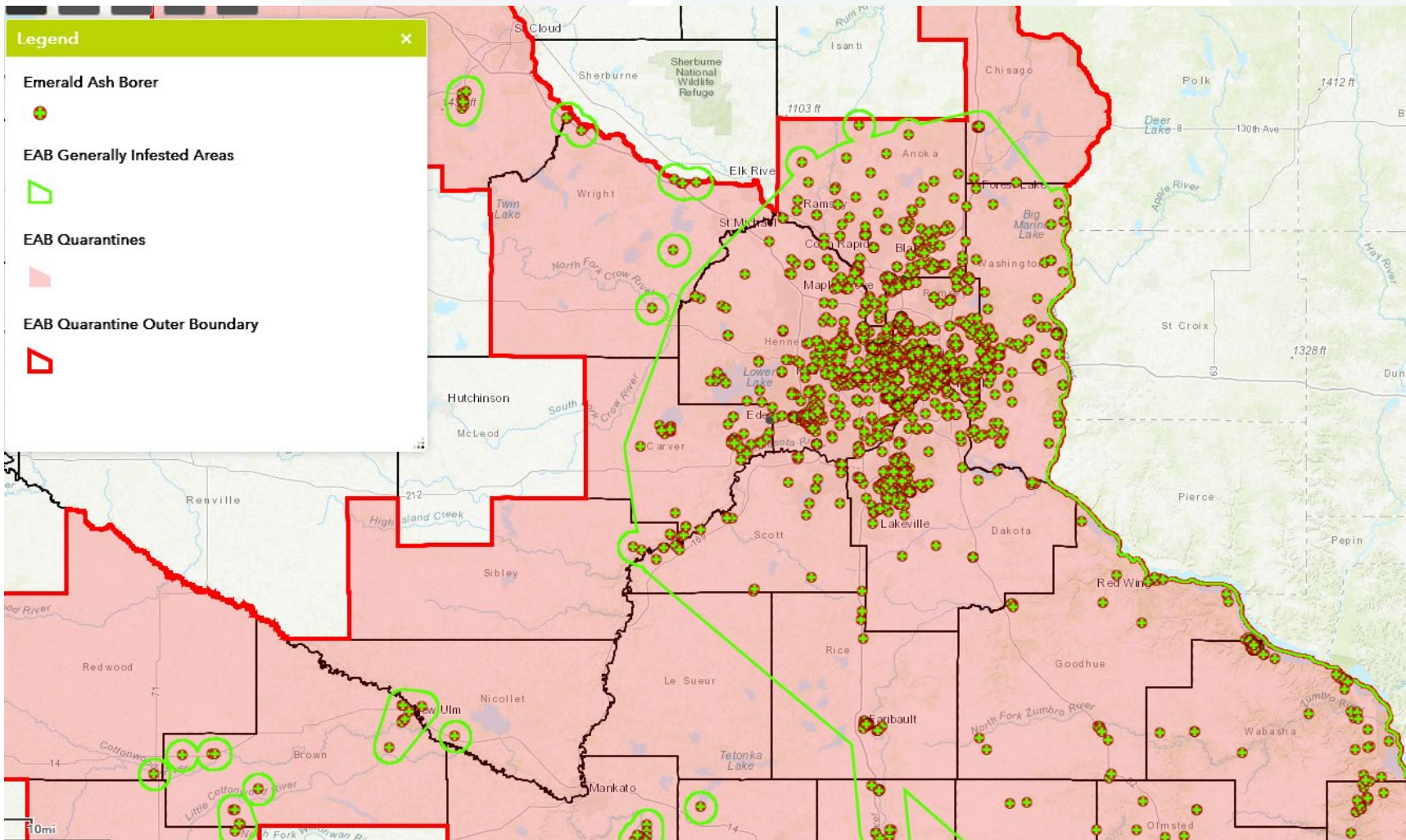
Symptoms such as woodpecks and bark splitting open to reveal "S" shaped galleries can be expected to appear before significant numbers of trees succumb to the beetle.



# EAB in MN 2022







# Signs of EAB

Woodpecker activity



Bark splitting



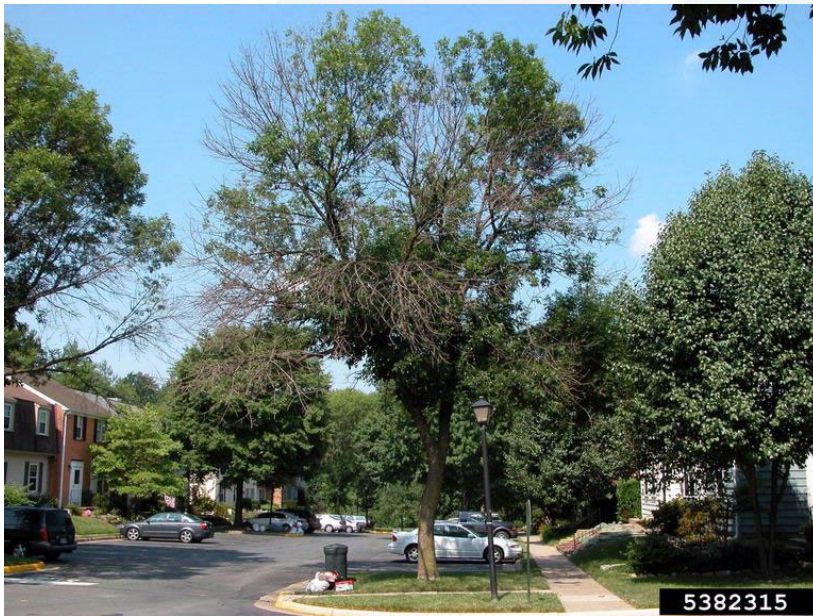
D-shaped exit holes



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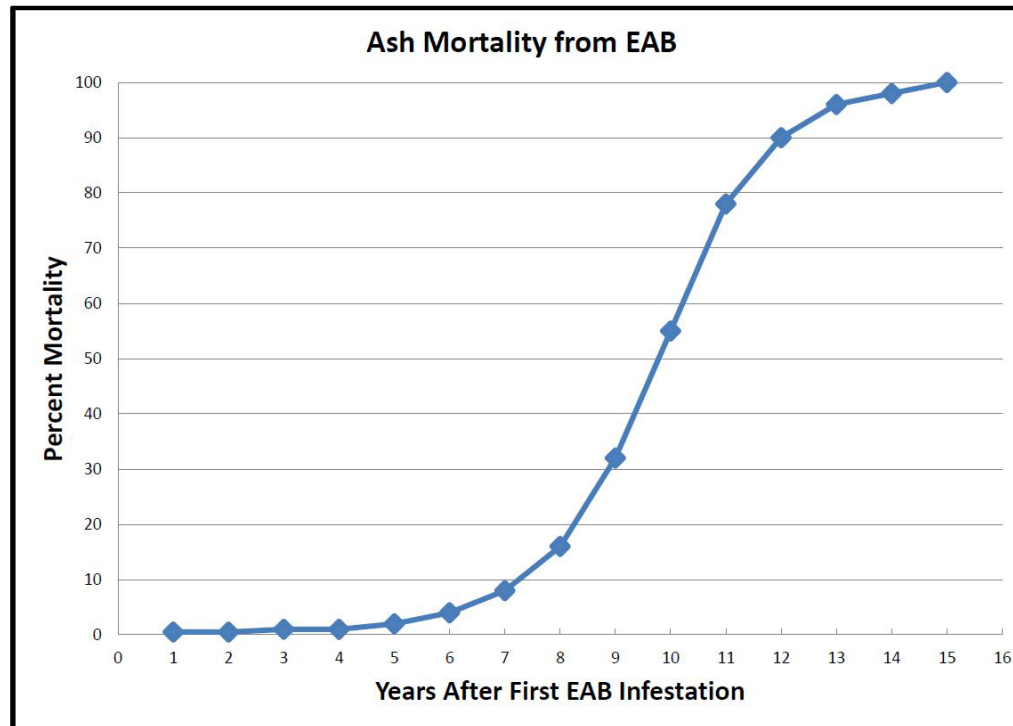
# Symptoms of EAB

## Crown dieback



# EAB progression

## Know Where You Are



CITY OF CHANHASSEN

# Need for management plan

- Agreed upon strategy
  - Education
  - Inspections
  - BMPs
- Manage expectations
- Uniform response



# Management Strategy

## Management Plan components:

- ✓ Tree Inventory
- ✓ Inspection, detection, monitoring
- ✓ Tree Removals, Planting
- ✓ Treatments
- ✓ Wood disposal and utilization
- ✓ Education and Outreach
- ✓ Ordinance/Policy
- ✓ Licensing/permitting



# Licensing and Permitting

State law requires all tree care companies and persons who provide tree care to register with the Dept. of Agriculture's Tree Care Registry. To register, applicants provide current contact information, counties in which work is done and the annual fee.



## Licensing Information Search

**License Number:**  (Optional)

**Company Name or Person's Last Name:**  (Optional)  
If you're not sure how a name begins, type a percent sign (%) in front of it.  
If you're not sure how a name ends, only type the beginning of it. Do not include a percent sign.

**City:**  (Optional)

**County:**   
BENTON  
BIG STONE  
BLUE EARTH  
BROWN  
CARLTON  
CARVER

Use Ctrl+Click or Shift+Click to select more than one county.

**License Type:**   
AGRICULTURAL LIMING MATERIAL  
ANHYDROUS AMMONIA STORAGE FACILITY PERMIT  
BULK MILK HAULER & SAMPLER  
BULK PESTICIDE/FERTILIZER STORAGE PERMIT  
BUY & STORE GRAIN  
CHEMIGATION PERMIT  
COMMERCIAL ANIMAL WASTE TECHNICIAN APPLICATOR

Use Ctrl+Click or Shift+Click to select more than one license type.

Unexpired Licenses Only (Uncheck to select all licenses)  
 License Holders Only (Uncheck to select all license relationships)  
 Sort by Name  Sort by City  Sort by County

Text downloads include county FIPS codes according to state [data exchange standards](#).

# Chemical treatments

- City only employing trunk injection treatments
- Pollinator safe insecticide
- Environmentally safe application
- 99% effective





# EAB infested ash - Risk management

- Basal stump sprouts can create sight line obstructions.
- Ash become very brittle within 8-12 months of death.
  - Bark shed in sheets
  - Spontaneous limb shed
  - Shatter zone
  - In-tree worker safety
- Trees can't be climbed to remove.
- Which means bucket truck needed for majority (all?) removals
- May cause additional tree loss/property damage to get trucks to removal sites
- Shed bark prompts numerous debris calls in other cities



City of St Paul



# To do list from 2016

- ✓ Done • Adopt Management Plan
- ✓ Done • Set guidelines for treatment – size, condition, etc.
- ✓ Done • Tree removal procedures
  - Remove worst first
  - Debris options
- ✓ Done • Chemical options
  - City contract, include resident pricing
- ✓ Done • Ordinance revision
- ✓ ? • 2022 – Approve update to Management Plan

