



## Emerald Ash Borer (EAB) Management Plan



**Emerald ash borer (EAB)** is a non-native invasive insect that kills ash trees. The City of Lakeville first detected EAB in October 2017 and the City has an ordinance in place requiring the removal of infested ash trees on private property. **If you have a property with many ash trees and it is not financially feasible to remove all your trees this year, a management plan can help spread the cost out over several years.** We recommend consulting with a private tree contractor (see pg. 2) or City Forestry Staff to help build a management plan that will fit your goals and budget.

### WHY YOU SHOULD BE CONCERNED ABOUT EAB

- Lakeville has an ordinance requiring the removal of infested ash trees (**City Code Title 4, Chapter 4, "Shade Tree Pest Control"**).
- EAB attacks all ash trees, healthy or stressed, and can kill a tree in 2-5 years after infestation.
- Standing dead ash trees reduce property value and become a hazard for property owners.
- Ash trees killed by EAB become brittle and more expensive to remove than living trees.
- Healthy ash trees provide many benefits, like shade and cleaner air, to property owners and wildlife.
- MN has an estimated one billion ash trees throughout the state, which are all susceptible to EAB.

To learn more about EAB, visit [dnr.state.mn.us/invasives/terrestrialanimals/eab/index.html](http://dnr.state.mn.us/invasives/terrestrialanimals/eab/index.html).

### HOW TO CREATE A MANAGEMENT PLAN

#### **Steps for Creating a Management Plan:**

1. Determine a budget for ash tree management.
2. Inventory ash trees, tree locations, and condition of each tree. Consider drawing/creating a map.
3. Based on condition and location of trees, determine which trees you would like to save.
4. For trees to be saved, plan an injection schedule. Injections should continue for the life of the tree.
5. For all trees that will not be saved, plan a removal schedule.
  - a. If trees are in dead to poor condition, remove trees as soon as possible.
  - b. If trees are in poor to fair condition, create a phased removal plan for the following years.

#### **Management Techniques:**

- **Removal:** Removals should ideally be conducted from **October 1<sup>st</sup> to April 30<sup>th</sup>**, while EAB is inactive for the winter.
  - Dispose of all debris at approved wood utilization sites. **DO NOT** move recently cut infested wood as firewood.
  - Wood may be chipped to 1" x 1" pieces and used on site as mulch.
  - Cut stumps as low to the ground as possible and debark any stumps left higher than 3" above the ground (stump grinding is not required).
- **Trunk Injection:** Insecticide trunk injections (emamectin benzoate) can be applied by a MN licensed pesticide applicator during the growing season (June-September) Trees should be re-treated every two years.

To learn more about EAB pesticide applications, visit [mda.state.mn.us/sites/default/files/inline-files/eabtreatmentguide2\\_1.pdf](http://mda.state.mn.us/sites/default/files/inline-files/eabtreatmentguide2_1.pdf).

## TREE CONTRACTOR INFORMATION

**A professional tree contractor with an ISA Certified Arborist or MN Tree Inspector on staff can be hired to inventory and map ash trees on your property. The contractor can also create a management plan and perform any work decided upon in the plan.** The City of Lakeville recommends using a professional tree contractor for all removal and treatment work. Keep in mind that you may use multiple contractors for the tree work needed on your property. Here are some quick tips for hiring a contractor once a management plan is created:

- Always get 2-3 written price quotes before choosing a company. Ask to see proof of liability insurance and **DO NOT** pay the company until the work is done.
- Be wary of people that go door-to-door soliciting business, even if they did good work for your neighbor.
- Before hiring a company, make sure they understand what you are expecting with tree removals or treatments you would like to take place.

Find more of our tips for hiring a contractor at [lakevillemn.gov/945/How-to-Hire-a-Tree-Contractor](http://lakevillemn.gov/945/How-to-Hire-a-Tree-Contractor).

### **Contractor EAB Management Services (for contractor use – check all that apply):**

- Ash Tree Inventory
  - Map of locations of healthy and infested ash on property
  - Identification of control area on property map
- Ash Tree Removal
  - Debris disposal
  - Stump debarking or grinding
- Insecticide Injection (emamectin benzoate)

**Rainbow Treecare offers a discounted rate for ash tree injections to private Lakeville residents.** If you would like more information on this program or to schedule a free ash tree consultation with Rainbow, call **952-767-6920** or visit [rainbowtreecare.com/emerald-ash-borer/city-partnerships/Lakeville](http://rainbowtreecare.com/emerald-ash-borer/city-partnerships/Lakeville).

**ASH TREE INVENTORY**

see pg. 4 for Glossary for Table

<b>Species</b>	<b>Tree ID #</b>	<b>Location</b>	<b>DBH</b>	<b>Condition</b>	<b>Management</b>	<b>Management Date</b>	<b>Additional Comments</b>

<b>Date</b>	<b>Total # of Trees</b>	<b># of Trees for Removal</b>	<b># of Trees for Treatment</b>

**Glossary for Table:**

**Condition Rating:** Physical condition of each tree. Trees must be visually inspected from several sides, from the canopy to the roots and the arborist must observe how the tree is growing in relation to the surrounding environment. Tree condition will be evaluated with the criteria described below.

**Good Condition:** Minor problems if any exist. Tree has a fully branched and leafed canopy, little to no mechanical damage on stem, little to no branch dieback over one inch diameter, few to any water sprouts, the form of the tree is characteristic for the species. Some trees in this condition rating will be exceptional/legacy trees, others are just good.

**Fair Condition:** Significant problems exist. The canopy is thinning and growth rate slower than typical for the species, noticeable dead wood over one inch in diameter or crown dieback throughout most of the crown; or there is significant damage to the trunk and/or insect/disease damage is affecting most of the tree; or the form is not characteristic of the species.

**Poor Condition:** Extreme problems exist. The tree is in decline and very unlikely to recover. There is crown dieback, multiple or significant dead/dying limbs seven inches in diameter or larger, severe mechanical damage to the stem, advanced decay or significant architecture issues or minimal new growth.

**Dead:** Dead tree with no signs of life, the tree may be standing or partially fallen.

**DBH (diameter at breast height):** Measured in inches, breast height is 4.5 feet. A diameter tape will give a tree diameter without calculations. Otherwise use a regular flexible measuring tape. Measure the trunk around 4.5 feet above the ground to measure the tree's circumference and divide that number by pi or 3.14 to find DBH.

**Location:** Approximate tree location on your property. List location relative to the house or a landmark (ex. north of driveway). Tree location is for your future reference.

**Management:** Chosen management technique (**removal** or **insecticide treatment**) for each individual tree. Management technique may factor in location of tree on property (near structures or high-use areas) and current condition of the tree in question.

**Management Date:** Predicted season/month and year when the management technique will take place (ex. removal in winter 2022, insecticide treatment in June 2023).

**Species:** Green, white, or black ash. All native ash trees are affected by EAB. If species is not determined, just list "ash".

**Tree ID #:** Unique number for each tree using your own numbering system.

If you would like Forestry Staff to review your management plan or a free ash inspection, please call (952)-985-2724 or email [LAShadeTreePest@lakevillemn.gov](mailto:LAShadeTreePest@lakevillemn.gov) to set-up an appointment.