

EAB Biology, Distribution, and Spread

Mark Abrahamson | Plant Protection Division Director

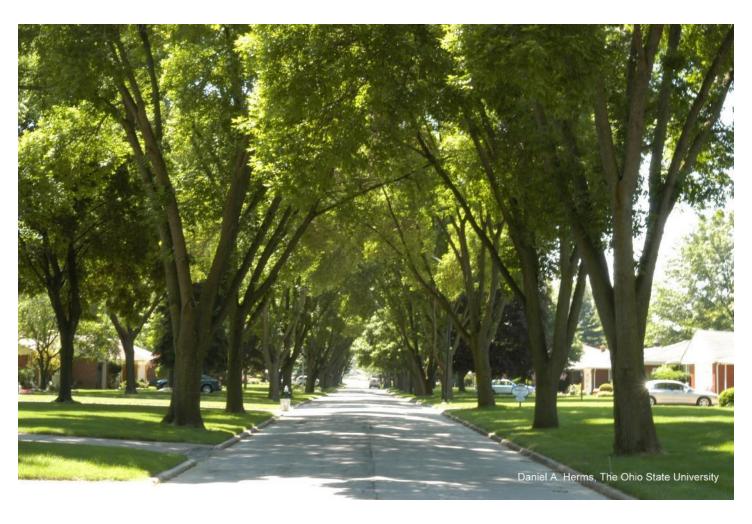


EAB Biology



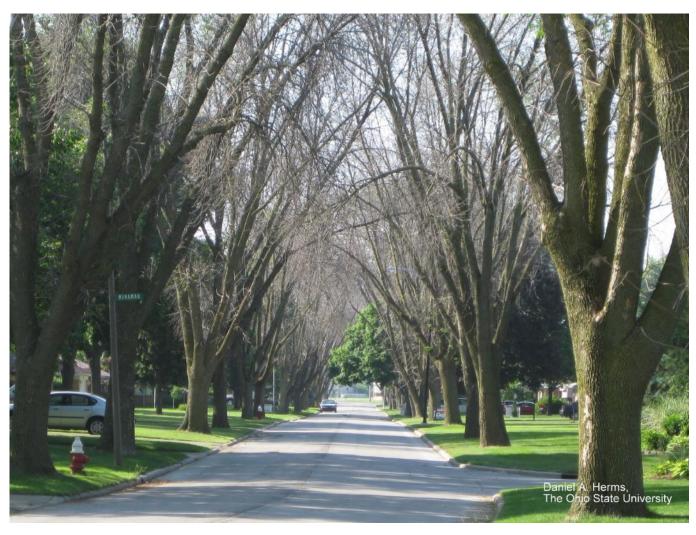
EAB Biology

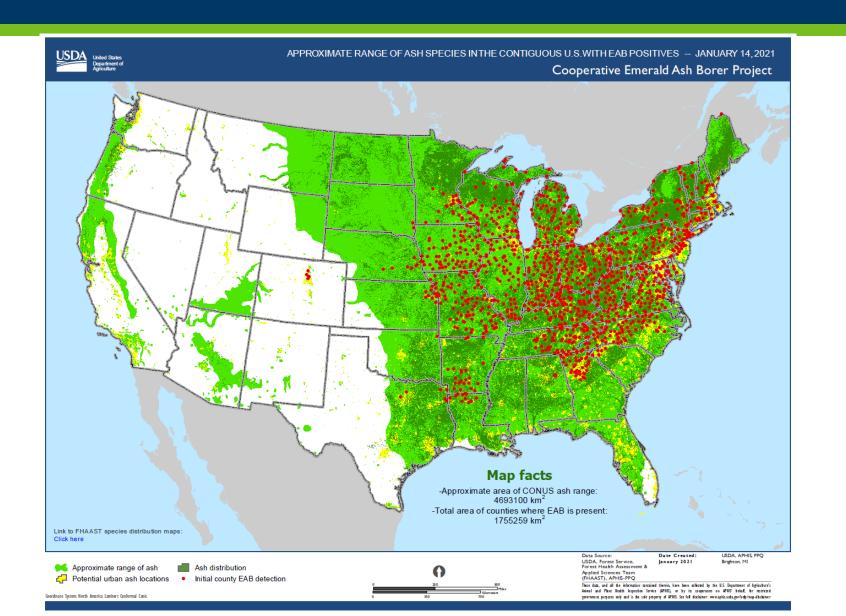


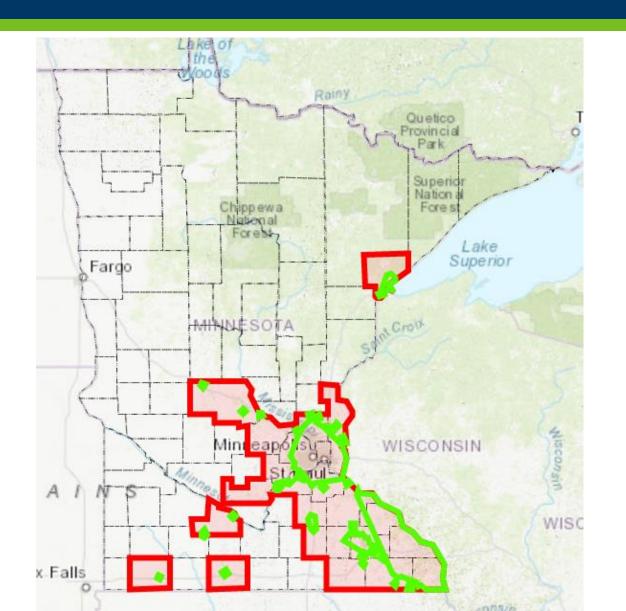


EAB Biology

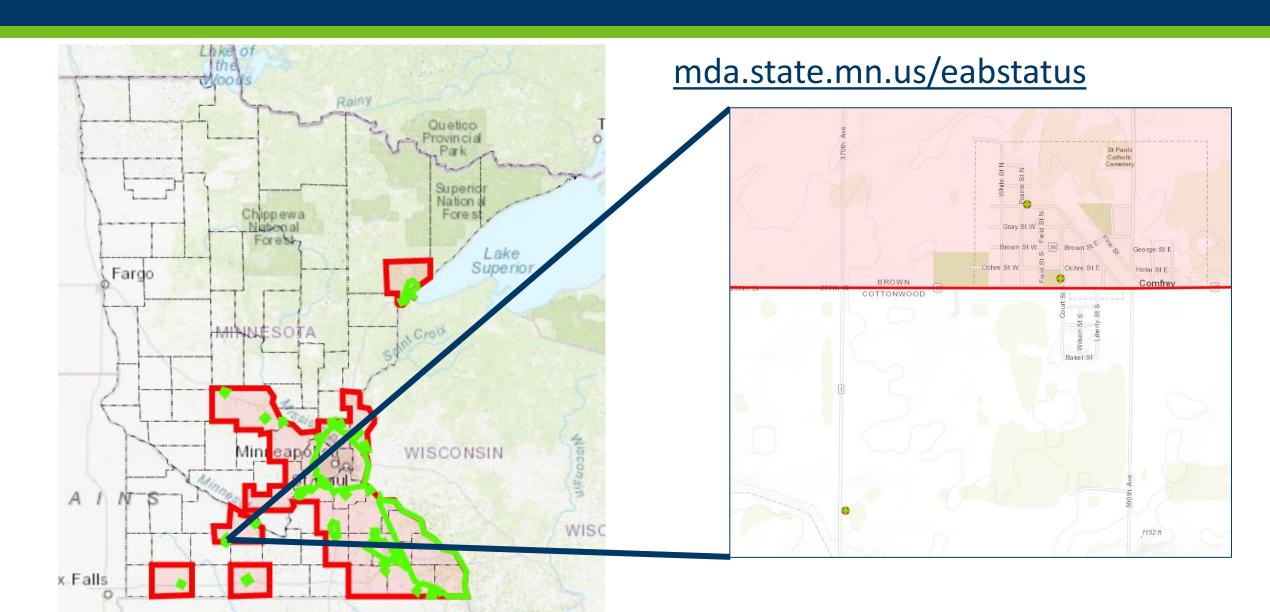








mda.state.mn.us/eabstatus







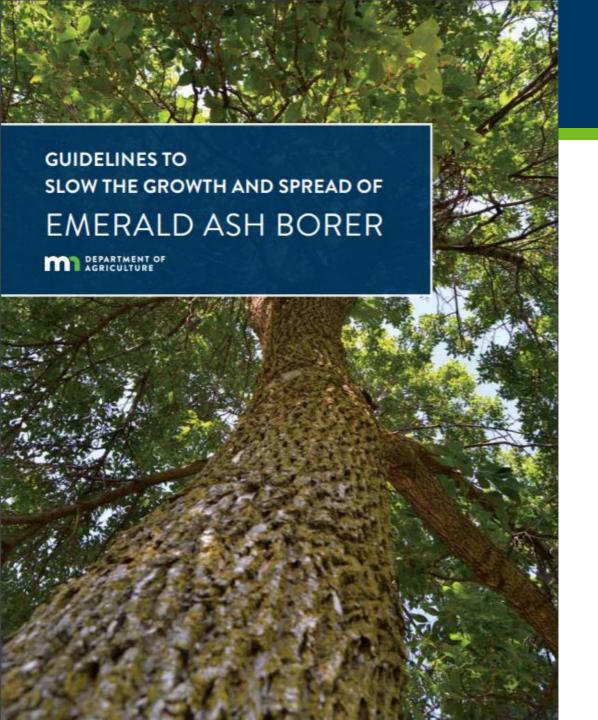




DON'T MOVE FIREWOOD!

Emerald Ash Borer is in Martin County



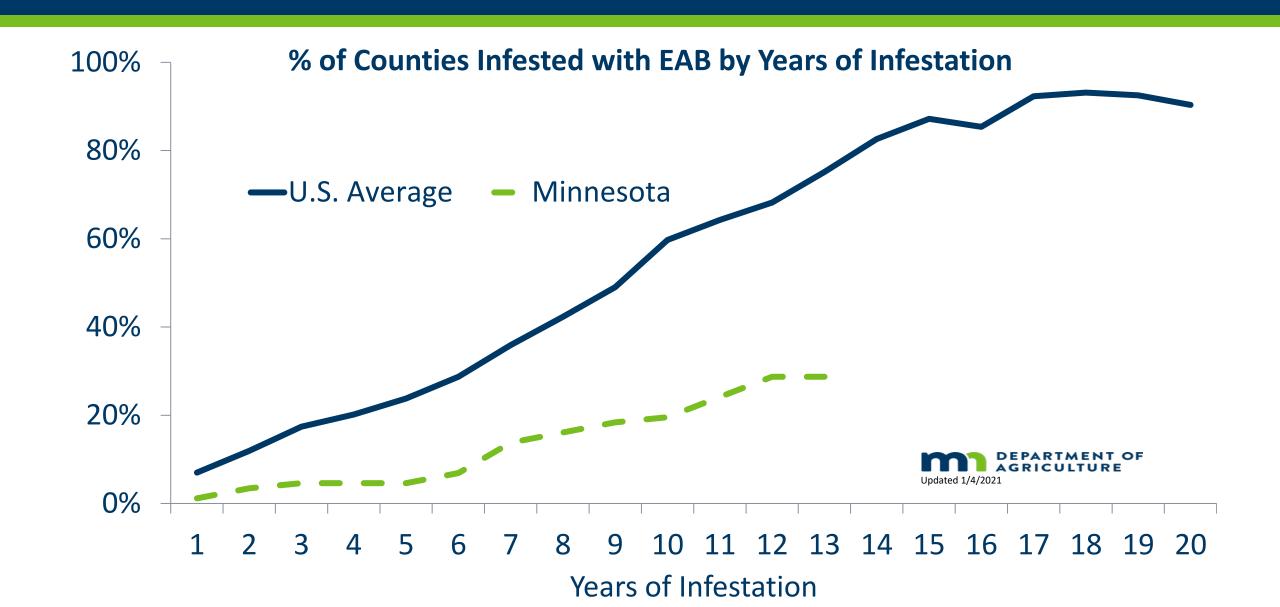


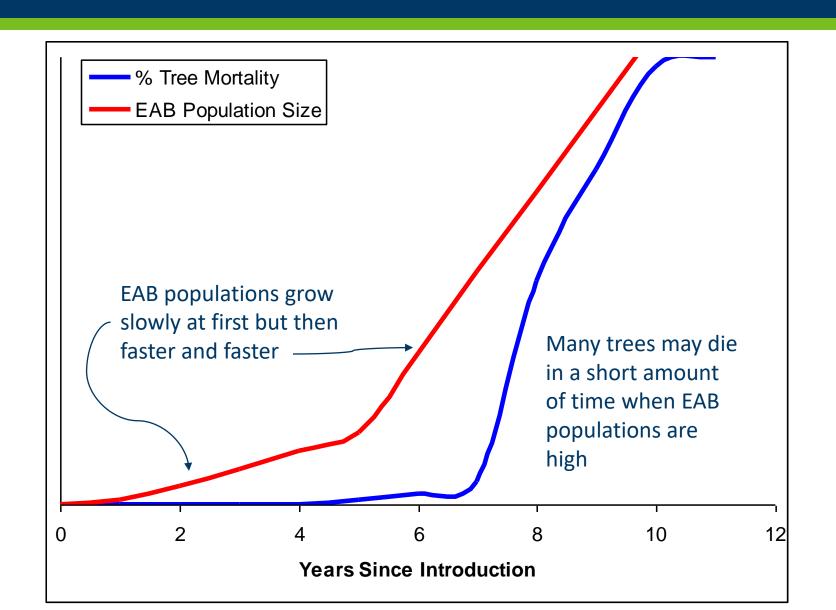
CONTENTS	GUIDELINES TO SLOW THE GROWTH AND SPREAD OF EMERALD ASH BORER
	Background .4 Planning .7 Inventory .10 Monitoring .12 Treatments .15 Removal/Sanitation .19 Wood Management/Utilization .22 Replanting .25 Biological Control .27 Closing .29 Appendices .29 I: How to Confirm and Report EAB .30 2: Detection Methods .32 3: Winter and EAB .39

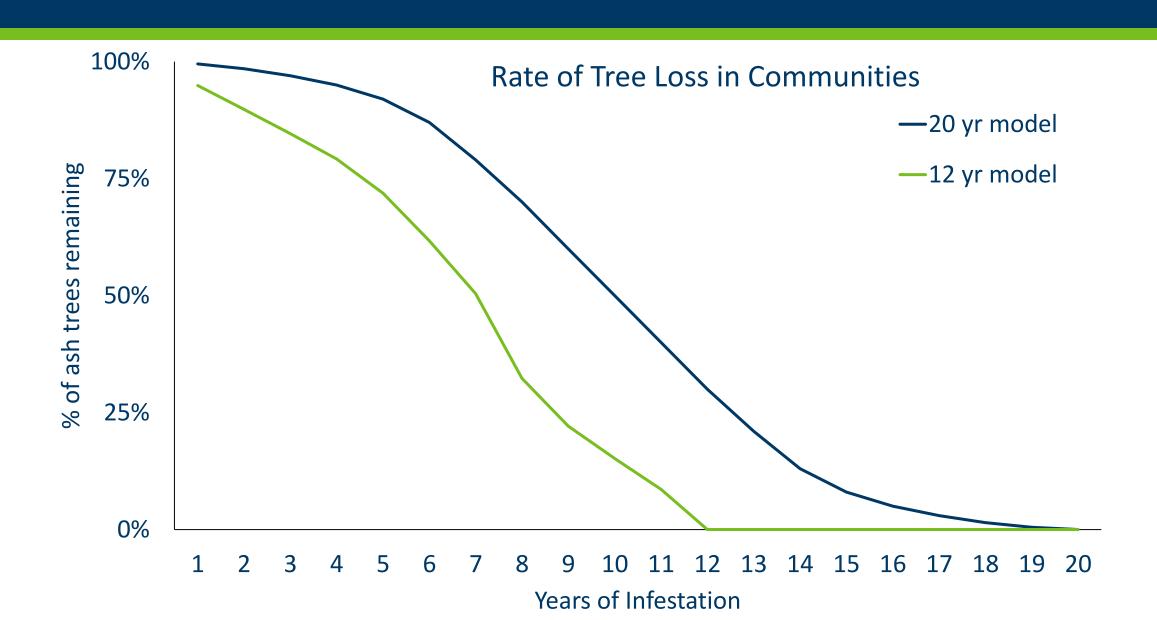
Fate of EAB-infested Trees

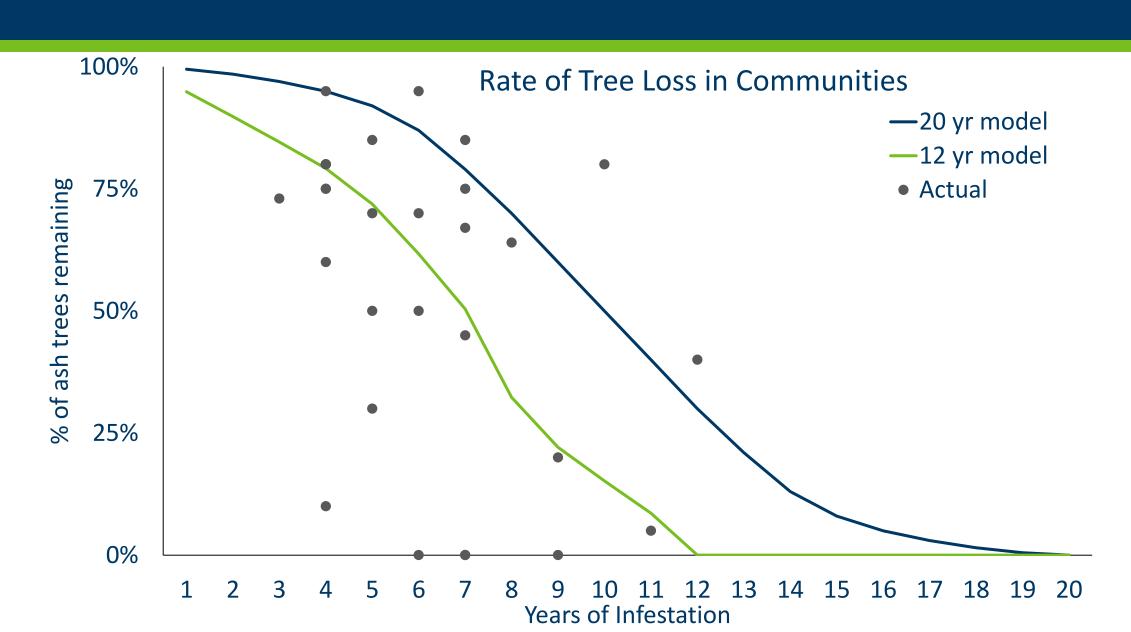
- 1. Removed (before or after death)
- 2. Treated with insecticide
- 3. Die and fall apart

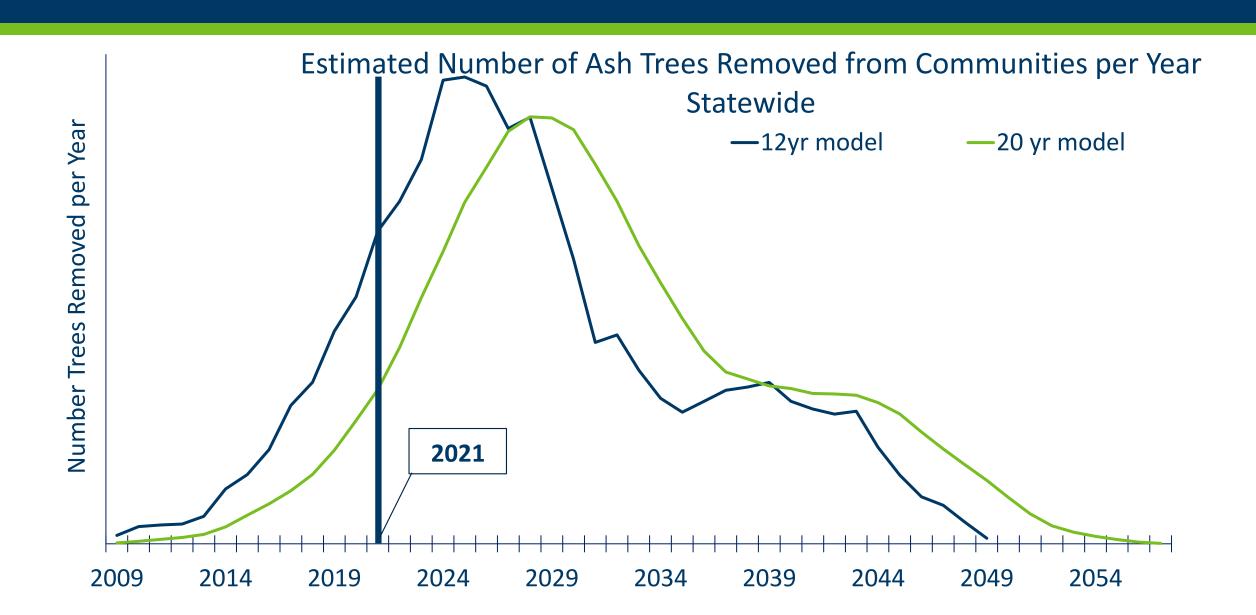














EAB: Community Forests and Ash Forests

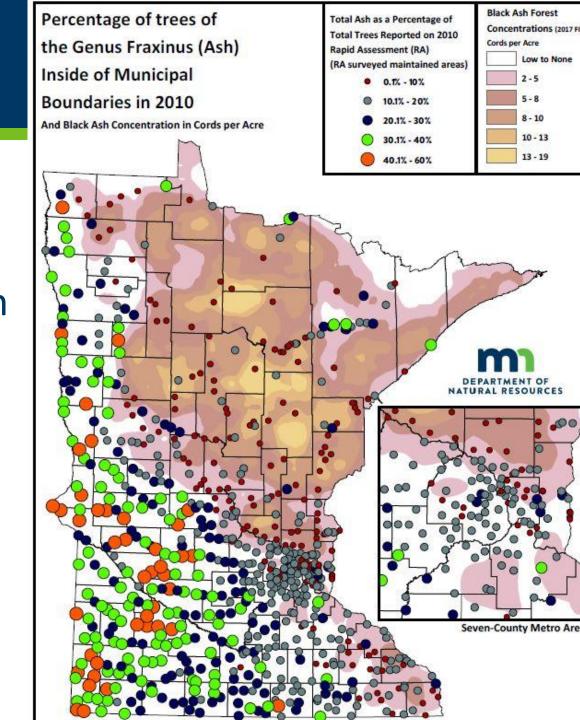
Amy Kay Kerber | Forestry Legislative Affairs and Outreach Supervisor



Ash in Minnesota

- Nearly 1 billion ash trees
- 1-in-5 community forest trees are ash
 - Up to 60% ash in some communities

- EAB kill rate over 99%
 - Kills saplings down to 1" in diameter



Community Forest Issues

Inventory

Management plans

Financial resources



Community Forest Resource Needs



Inventory

Management plans

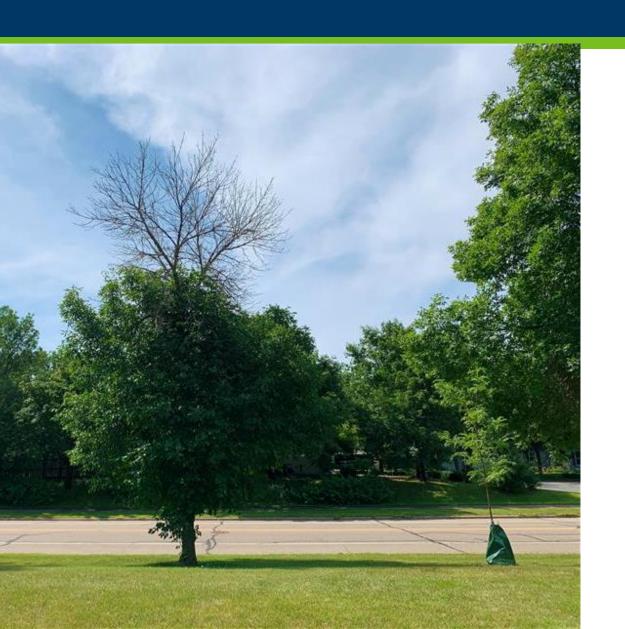
Treat and remove ash

Plant diverse replacement trees

Educate residents

Help homeowners

Recent Community Support



2018 Federal \$109,000

2019 General Fund \$700,000

2019 LCCMR \$300,000

2020 Bonding \$1 million

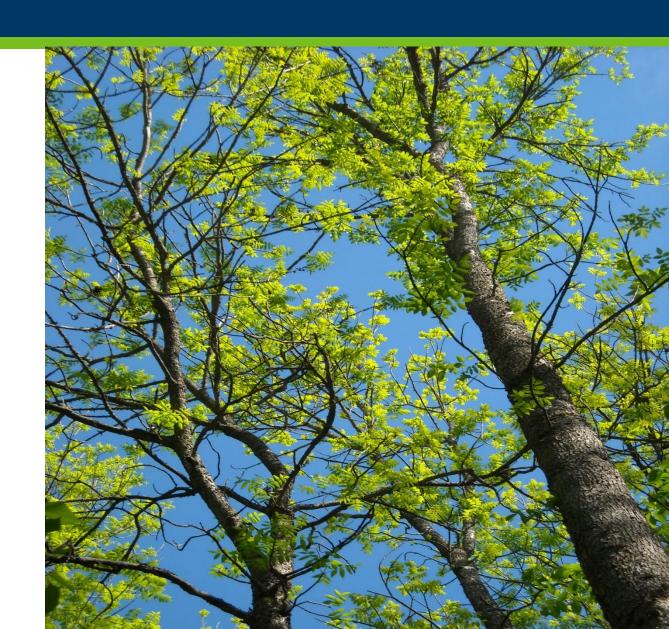
2020 LCCMR \$3.5 million, recommended

Ash Forests

1 million acres of ash forest statewide

Ash 2nd most common tree

Minnesota has more ash than any other state



Ash Forest Management



Management Goals

- Keep forests as forests
- Maintain hydrology
- Minimize habitat & biodiversity loss
- Harvest to treat sites
- Reforest to new species

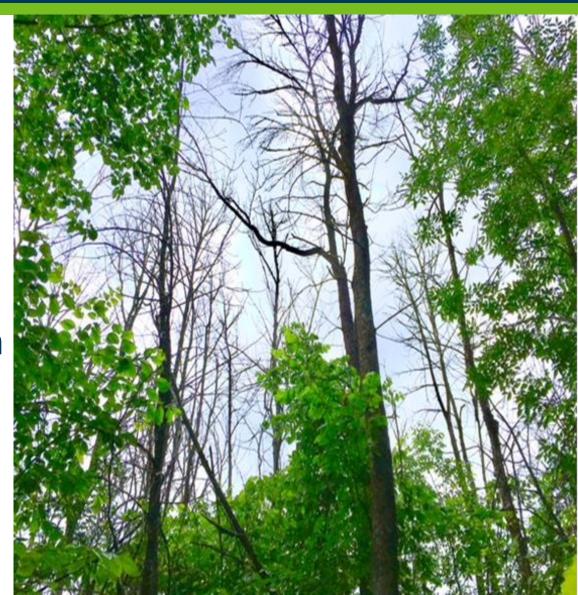
Ash Markets

Existing Markets

- Energy for community ash
- Firewood, pallet, & paper for ash forests

More ash available than markets can use

- Innovate market solutions needed
- Plan for ash waste



Looking Ahead

Community assistance is critical

Ash use and waste disposal solutions are needed



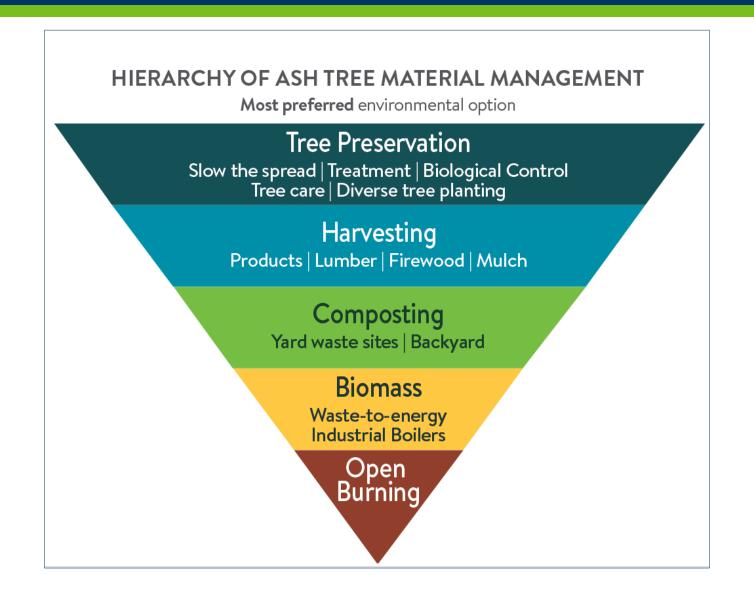


Emerald Ash Borer Wood Management

David Benke | Director, Resource Management and Assistance Division



Wood Waste: Where will it all go?



Options for managing EAB-infested wood



MPCA Ongoing activities

- Coordinate with metro counties to include wood waste management and EAB mitigation in next round of the Solid Waste Metro Policy Plan
- Monitor innovative and developmental uses/management for wood waste including:
 - Community based programs that utilize wood to make products
 - Biochar
- Support existing wood waste management infrastructure at composting facilities,
 biomass facilities and for use as wood fuel or firewood.
- Coordinate with partner agencies to support efforts to slow the spread and reduce harmful impacts of EAB

Recommendations

- Strengthen statewide coordinated effort to slow the spread and delay costs
- Provide financial and technical assistance to communities
- Develop markets for making products from ash and end-of-life management
- Develop statewide approach to utilize ash and for disposal of ash waste



Thank You!

Emerald Ash Borer Interagency Team