

Emerald Ash Borer and Community Impacts

Karen Zumach | President

Minnesota Shade Tree Advisory Committee



A Statewide Problem

Emerald Ash Borer confirmed in Cottonwood County
PAUL — The Minnesota Department of Agriculture (MDA) has confirmed emerald ash borer (EAB) in Cottonwood County. This is the 26th ...

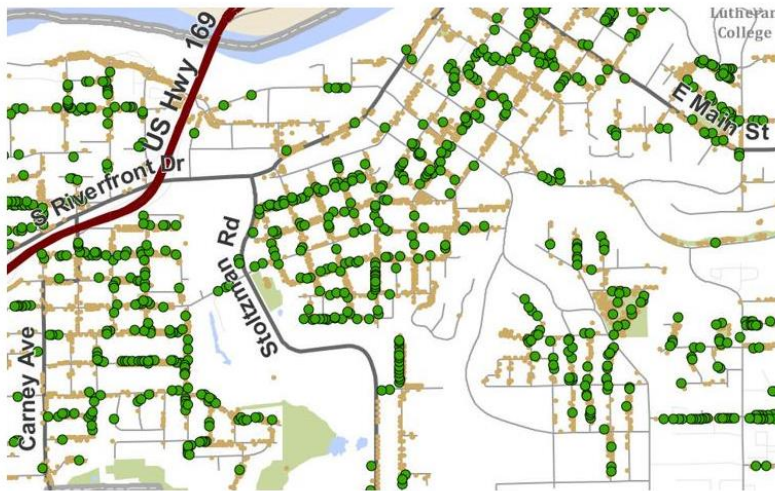
Invasive emerald ash borer found in Wayzata

The number for Wayzata Public Works is 952-404-5360. For information from the Minnesota Department of Agriculture, visit mda.state.mn.us/eab.

Emerald Ash Borer Found in Sibley, Carver Counties
The Minnesota Department of Agriculture (MDA) has confirmed the presence of emerald ash borer (EAB) in Carver and Sibley counties.

Emerald ash borer discovered - Albert Lea Tribune

Emerald ash borer larvae kill ash trees by tunneling under the bark and ... EAB will have a major impact on Minnesota, according to the release, ...



In preparation for the arrival of the emerald ash borer, Mankato city officials have inventoried all of the ash trees planted on boulevards and in city parks. (Some trees marked on this map may have been removed already.) To see the number of ash in other parts of the city, check the larger version of this map at mankatofreepress.com.

Map provided by City of Mankato

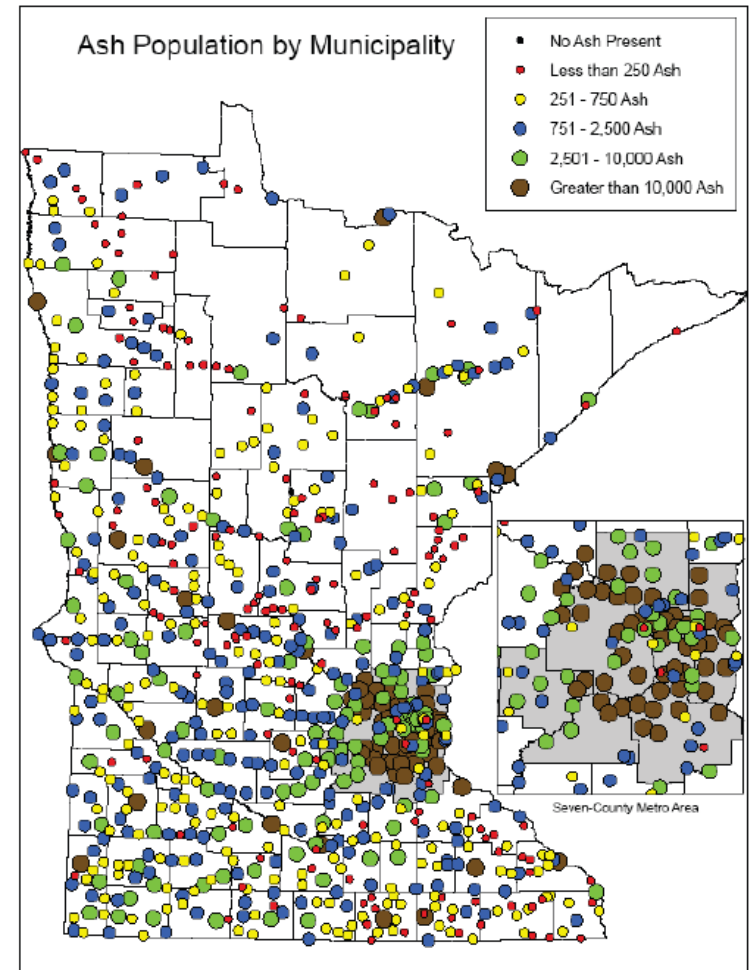


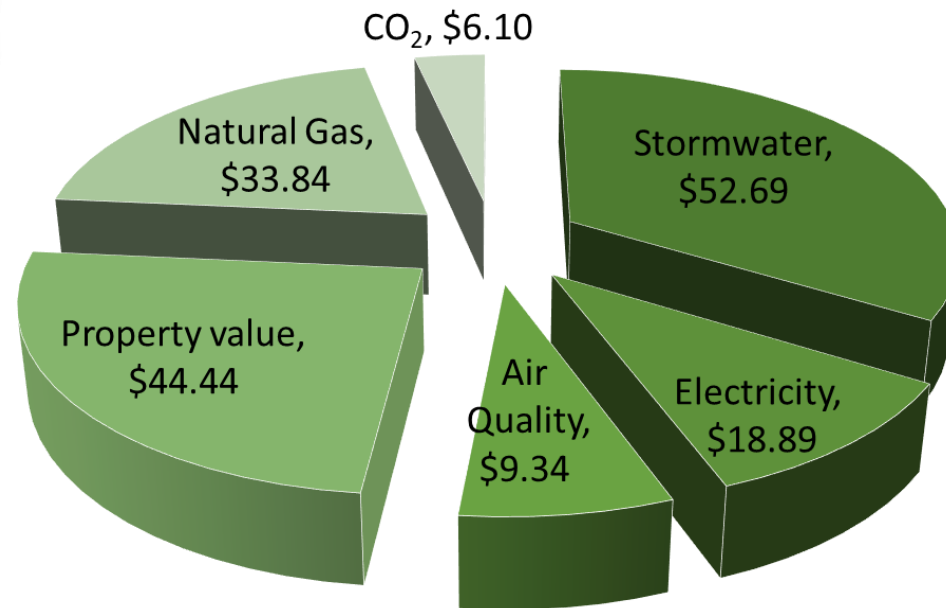
Figure 4. Ash populations in Minnesota municipalities, all tree-size classes. (Inset shows Minneapolis-St. Paul metropolitan area at enlarged scale.)



Private Property



Tree Benefits as Green Infrastructure



Tree Benefits as Green Infrastructure



Ash trees in a MN Community

EAB: Impacts of management

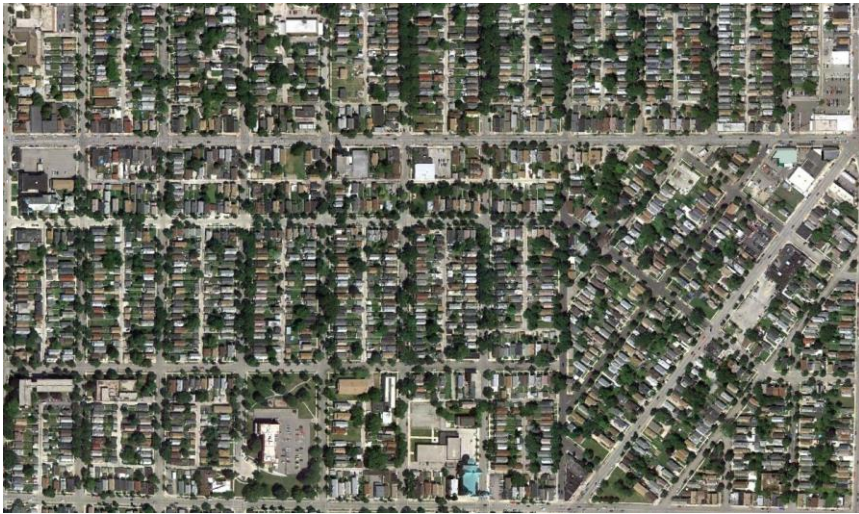


Screenshot, Google Earth 2008

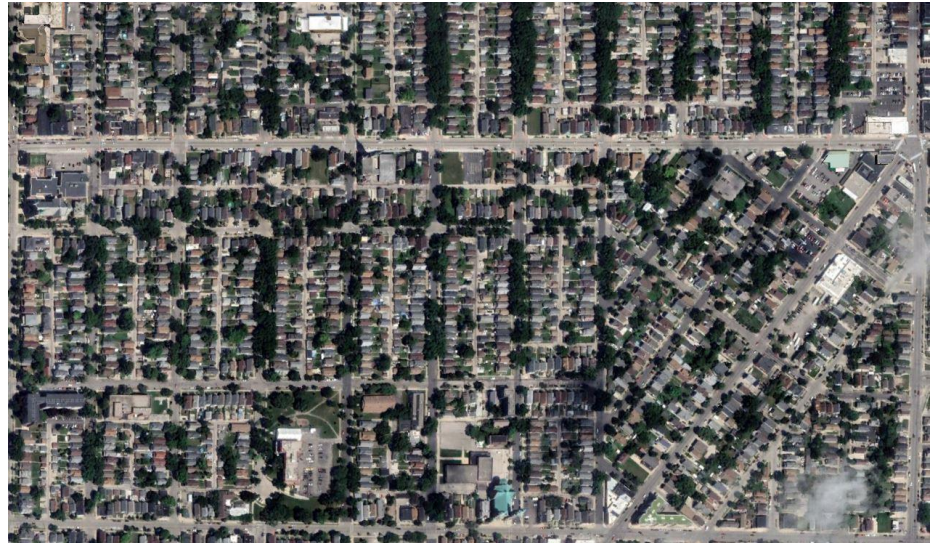


Screenshot, Google Earth 2022

EAB: Impacts of management



Screenshot, Google Earth 2011



Screenshot, Google Earth 2022

Role of Community Trees in Climate Change Adaptation and Mitigation

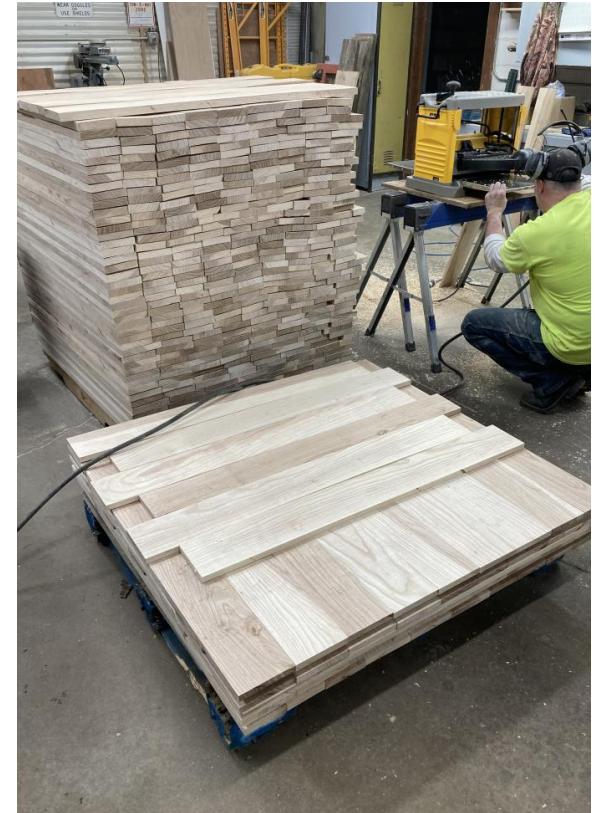
“A tree in an urban forest can sequester approximately four times more carbon than individual trees in a forest stand because they can capture more light and grow faster.”

Nowak, David, and Daniel Crane. [“Carbon Storage and Sequestration by Urban Trees in the USA.”](#) *Environmental Pollution* 116 (2002): p. 385



The Plan Forward

- Provide assistance in the form of matching grants to cities and towns to allow access to all the tools necessary to mitigate the effects of EAB at least \$8.5 million/year. Including funding to support a carbon credit program to incentivize preservation of ash trees.
- Support sustained urban and community forestry funding to create and sustain a more resilient urban and community forest for the future- \$2 million/year.
- Support research efforts to protect the ecologically significant northern black ash stands.
- Incentivize wood utilization to adhere to climate change goals. Match support for bio-energy with wood utilization.



Urban ash re-use, Rochester, MN Photo: Jeff Haberman