Emerald Ash Borer: What we are doing in Texas

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EAB Current Distribution
Emerald Ash Borer

*Agrilus planipennis* (Buprestidae)

Metallic wood-borer

Native to Asia - Siberia, Korea, Manchuria

Hosts: *Fraxinus* in US. Recently confirmed in white fringetree (*Chionanthus virginicus*). Implications for all Oleaceae?

All Ash Species in Texas Susceptible

Michigan in 2002

Introduction circa 1993

35 States Infested

**EAB Preparedness Plan 2014**
EAB Current Distribution

Distance between East Texas Counties and Tarrant County: 
>150 miles
Emerald Ash Borer Lifecycle - Adults

3-6 week life span

Feed on foliage entire time

Strong fliers average 2-7 km (up to 20 km) or (1.24 – 4.35 mi) (up to 12.42 mi)
Detection, Response, Prevention, Public Outreach and Education
Detection, Response, Prevention, Public Outreach and Education
Detection, Response and Prevention

Tools used for Control:
- Quarantine
- Compliance Agreements/Reverse Quarantine
- Inspections
- Regulatory Operations
- Outreach

Monitor with Traps
Public Outreach and Education
Woodpecker Damage

David Cappaert, Michigan State University, Bugwood.org

Art Wagner, USDA-APHIS, Bugwood.org
Public Outreach and Education
Emerald Ash Borer ID

Emergence Holes

Characteristic “D” Shape
**Public Outreach and Education**

**Emerald Ash Borer ID**

**Larval Galleries**

EAB larval galleries between the bark and the wood (cambium)

Galleries girdle tree, disturbing phloem processes

Available phloem will be utilized

Causes tree mortality in 2-3 years
Public Outreach and Education
Emerald Ash Borer ID
Public Outreach and Education
TFS Website and EAB Link
Public Outreach and Education
Emerald Ash Borer Management Plan

- Developing, communicating and implementing an EAB Preparedness Plan will enable your community to address public and private needs in an efficient and effective manner.

- Planning in advance allows your community to be better prepared to minimize the severity of these impacts and establish a solid foundation for recovery.

- For a copy of this guide visit the Texas Forest Service websites Urban & Community Forestry pages.
Public Outreach and Education
Emerald Ash Borer Management Plan

Plan Objectives

• Maintain community forest health, safety, and benefits.

• Maintain and enhance confidence in elected officials, city staff and programs.
Web Version

https://tfsweb.tamu.edu/
uploadedFiles/TFSMain/Urban_and_Community_Forestry/
About_Urban_and_Community_Forestry(11)/TX_CFP_Guide_EAB.pdf
Public Outreach and Education
Campaigns and EAB Update Meetings

Public Education is Key

Vigorous Efforts Continue

Many Trinkets and Giveaways

www.dontmovefirewood.org
Public Outreach and Education Campaigns and EAB Update Meetings

Two NCTCOG Environment and Development Department Events, Tuesday, March 5, 2019

1. NCTCOG’s Environment and Development Department Hosts First Regional Watershed Stakeholder Forum – 10:30 a.m. – 11:30 a.m.

Join NCTCOG’s Environment and Development Department for the first regional watershed forum. Stakeholders will share and learn about successes in watershed management and discuss watershed issues. The forum will feature a panel of experts and presenters from various local watershed districts. The forum will be held at NCTCOG in the Region IV Conference Center, located at 2555 McKinnon Street, Arlington, TX 76010 in the Conference II Building.

Registration is required and seating is limited. Register here: https://www.nctcog.org/events. For more information, please contact Region IV at 817-444-6155.

2. NCTCOG’s Environment and Development Department Hosts Discussion on Emerald Ash Borer – 1:00 p.m. – 2:30 p.m.

The Emerald Ash Borer is a highly destructive invasive non-native wood-boring pest that targets Ash trees. Native to Asia, this beetle was discovered in the United States in Southwest Michigan in 2002. Since then, the Ash borer has spread to 33 states, including Texas in 2016, and is expected to hit Bexar County in 2018. The Environment and Development Department will host a special informational discussion on the Emerald Ash Borer, and answer questions about NCTCOG Forest Service’s role in the state of Texas.

Register here: https://www.nctcog.org/hub/page/559. For more information, please contact the Region IV at 817-444-6155.

URBAN FORESTRY & EMERALD ASH BORER’S IMPACT ON NORTH TEXAS

Mike Sills, Regional Urban Forester
Tuesday, December 3
11:00 AM – 1:00 PM

COST: $5
SONNY BRYAN'S BBQ LUNCH INCLUDED
GARDEN AND ECO-PARK OPEN TO GUESTS

TEXAS A&M AGRILIFE DALLAS CENTER
Whitesheet Building:
Healthy Texas Meeting Room
17560 Curt Road
Dallas, Texas 75252
RSVP TO TNLAREGIONIV@YAHOO.COM BY 12/02
USDA AHPIS & Texas Dept. of Agriculture **Must** regulate:

- All life stages of Emerald Ash Borer
- Ash Logs
- Sawmills
- Kiln Dry Facilities
- Mulch/chips
- Wood Packing Material
- Ash Nursery Stock
- All Hardwood Firewood
Annual Pesticide Training

Truck design issues with making a compliance agreement.

Processes and Controls:
Communicate with vendors/contractors about the movement of hardwood brush and firewood out of Tarrant County.
Public Outreach and Education

Emerald Ash Borer: What we are doing in Fort Worth, Texas
Public Outreach and Education

Emerald Ash Borer: What we are doing in Fort Worth, Texas

- Ft. Worth
- Public outreach
- Treated two ash trees
- Pioneer’s Rest Cemetery Association
- Ft. Worth Nature Center
- Remove ash from planting lists
Public Outreach and Education
Emerald Ash Borer: What we are doing in Fort Worth, Texas

Scientific name: *Fraxinus texensis*

- **Owner:** Pioneer's Rest Cemetery Association
- **Circumference:** 82 in
- **Height:** 36 ft
- **Spread:** 56 ft
- **Tree index:** 132
- **Champion type:** None
- **Nomination date:** April 2012
- **Certification date:**
- **Last measure date:** July 2019
  - **Latitude:** 37° 45' 57.00"
  - **Longitude:** -97° 19' 45.00"
- **Condition:** Fair
Public Outreach and Education

Emerald Ash Borer: What we are doing in Fort Worth, Texas
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas
Public Outreach and Education

Emerald Ash Borer: What we are doing in Grand Prairie, Texas

- Grand Prairie
- Remove ash from planting lists
- Public outreach and volunteer training
- Tree Inventory training (usually about a full day, several trainings throughout the year) through Keep Texas Beautiful Outreach Pilot Project
  - Texas Trees Count App.
  - Hard hats
  - Safety vests
  - Lunch
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas

Street segment map

Book Style
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas

Street segment map

Poster size
or
Larger size
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas

TREE INVENTORY USING TREES COUNT MOBILE APP

texasforestinfo.tamu.edu
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas
Trees Count is a mobile app for iOS and Android devices that allows users to inventory trees in communities.

• Trees are mapped and characterized with informative attributes.
• Inventories can be transferred across devices.
• The data is iTree compatible and can be exported to CSV files that can be opened in Excel or imported into the companion Access database application for printing reports.
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Prairie, Texas
Public Outreach and Education

Emerald Ash Borer: What we are doing in Plano, Texas
Meeting with Parks and Recreation Department Supervisors and Texas Pure Products Management
   Courtney Blevins, TFS, Urban Forester
   Rachel McGregor, TFS, Oak Wilt Forester
   Alan Smith, TFS, Entomologist
   Mike Sills, TFS, Urban Forester
   Chase Brookes, AgriLife Extension, Extension Agent

Plano’s biggest concern was how Texas Pure Products would operate in a quarantine situation

EAB Information/Training Meeting held for Plano’s Upper Management and City Staff
   Dr. Mike Merchant, Texas A&M Extension, Entomologist

Mike Sills, TFS, Urban Forester
   EAB ID
   Tree ID – Ash
   Concrete Path Tour through Oak Point Park
   Tree ID – Ash (continued)
   Discussed plans to remove and replace ash

Ash trees will die within 3 to 5 years after being attacked by the beetle. The city of Plano has already started cataloging all the Ash trees. Next week they’ll start removing poor Ash trees before the beetle gets to them.

Removed ash from recommended trees list (Was discussed but have not verified because I couldn’t find the list on Plano’s website)

In all, 6 percent of Plano’s trees are Ash, and about 1,400 are planted. All of those trees are now threatened. Kralik says the city stopped planting them.

Diversified in selecting trees to plant

Removed street trees listed in poor health according to a 2014 City of Plano Street Tree Inventory

Have started hanging signs on trees notifying the public that the tree will be removed.
Public Outreach and Education
Emerald Ash Borer: What we are doing in Plano, Texas
Public Outreach and Education
Emerald Ash Borer: What we are doing in Frisco, Texas
Public Outreach and Education
Emerald Ash Borer: What we are doing in Frisco, Texas

- Frisco
  - EAB Information Meetings with:
    - Tree Board
      - Alan Smith, TFS, Entomologist
      - Mike Sills, TFS, Urban Forester
    - EAB Update
    - EAB ID (left EAB ID Kit)
    - TFS role explained
    - TFS Urban and Community Forestry Information Folder
    - Growing Texas EAB Management Plan
      - Explained its importance and practical use
  - Planning Department
    - Growing Texas EAB Management Plan
      - Explained its importance and practical use
    - Trees Count App
      - To be utilized by city employees
  - Future Meeting with Frisco City Council
    - Removed ash from recommended tree list (Is something that was discussed but is still on the list provided on Frisco’s website)
Public Outreach and Education
Emerald Ash Borer: What we are doing in Frisco, Texas
Public Outreach and Education

Emerald Ash Borer: What we are doing in Dallas, Texas

EAB in Tarrant County, Texas

 Created: 12/4/2020

Emerald Ash Borer

Quarantine

The Texas Department of Agriculture, under the direction of the Commissioner of Agriculture and Consumer Protection, has been empowered to declare, prevent, control, and eliminate the spread of the Emerald Ash Borer within the state of Texas.

The Emerald Ash Borer (EAB) is a small, metallic green beetle that is native to East Asia. It has no natural enemies in North America and has spread rapidly since its discovery in the United States in 2002. The EAB larvae feed on the inner bark of ash trees, which weakens and eventually kills the tree. Infested trees are typically killed within 2-5 years.

The EAB has become a major threat to the ash tree population and has been declared a pest in many states. In response to this threat, the Texas Department of Agriculture has implemented a quarantine to prevent the spread of the EAB and has taken measures to control and eliminate the insect's presence in the state.

The quarantine measures include restrictions on the movement of ash trees and ash products from quarantined areas. It is important for residents and businesses to be aware of these regulations to prevent the spread of the EAB and protect the ash tree population.

For more information on the Emerald Ash Borer and the Texas Department of Agriculture's quarantine measures, please visit the website at: https://www.texasagriculture.com/pesticides/pests/emerald-ash-borer.
Public Outreach and Education
Emerald Ash Borer: What we are doing in Dallas, Texas

- Dallas
- EAB training with Parks and Department Supervisors
  - Mike Sills, TFS, Urban Forester
  - Brett Johnson, City of Dallas Parks and Recreation Department, Urban Biologist
- Brett has used this information to communicate with management
- Concerns about areas in Dallas with high populations of ash.
- The Great Trinity Forest: Fire danger, trees at risk
EAB Current Distribution – Risk assessment
Thank You
Public Outreach and Education
Emerald Ash Borer: What we are doing in Grand Pairie, Texas

iTunes

Google Play
Emerald Ash Borer Update
Better Ash Distribution Mapping

From Texas FIA Data:

- 324,107,482 Ash Trees > 1”
- 61,435,044 Ash Trees > 5”
- 29,241,852 Merchantable Ash Trees

1.5% Rural Forest Component
3-4% Urban Forest Component