

Americorps Community Forestry Corps

**Eagle Lake, MN
2021-2022**



What is EAB?

- 🌲 Wood boring beetle native to Asia.
- 🌲 First detected in the early 2000's.
 - 🌲 Spread to 35 states and 5 provinces.
 - 🌲 Killed hundreds of millions of ash trees.
- 🌲 EAB larva feed on tissue below the bark that transports nutrients - creating large "S" shaped galleries.

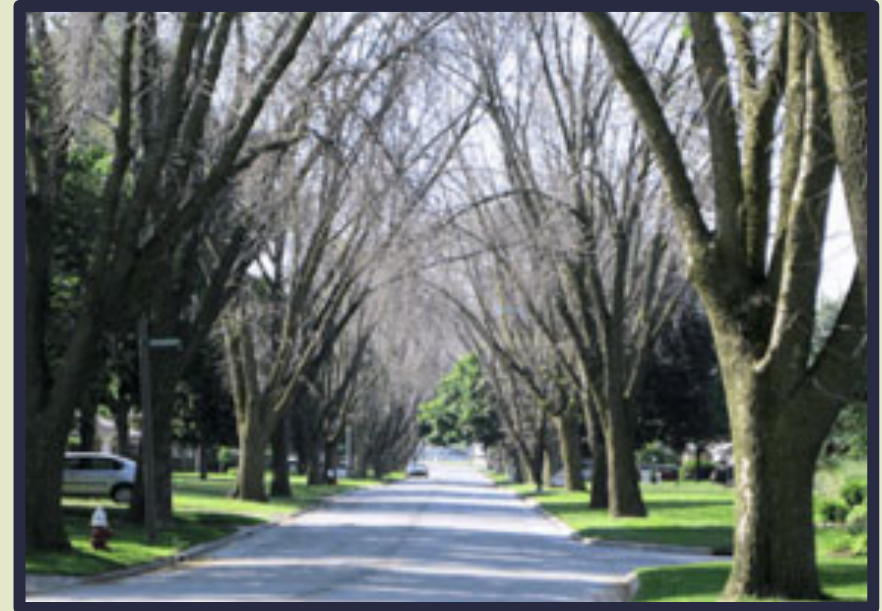


Photos of an Ohio Boulevard

Before (2006)

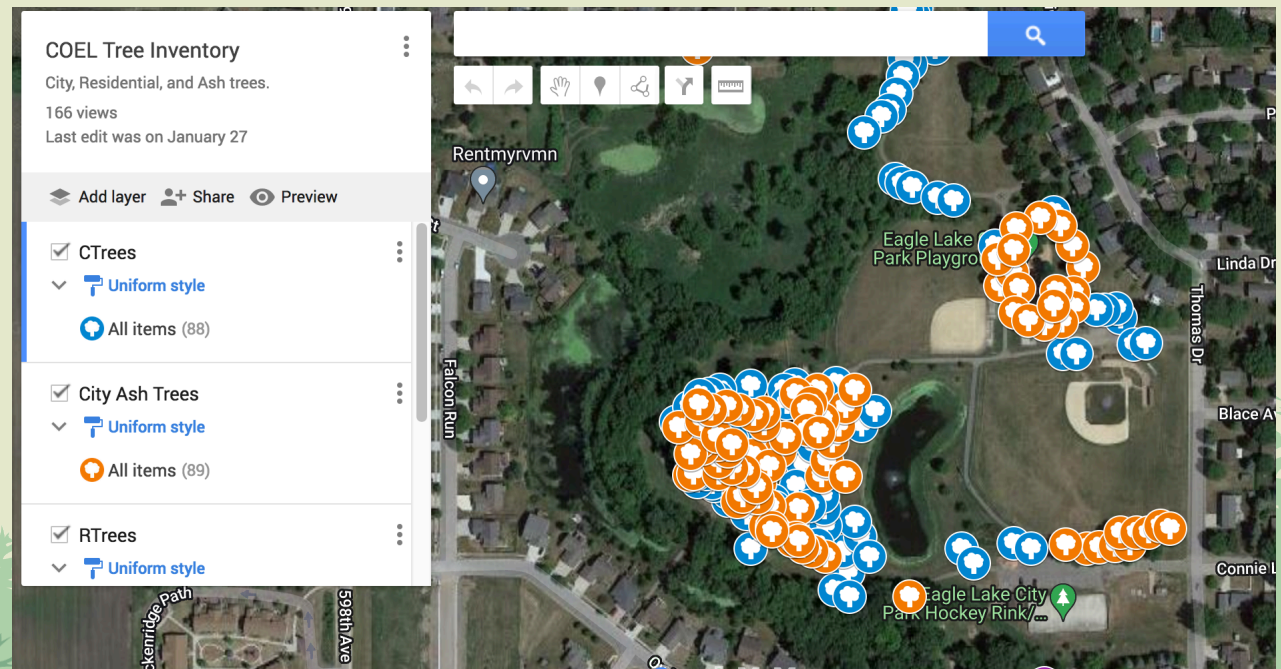


After (2009)



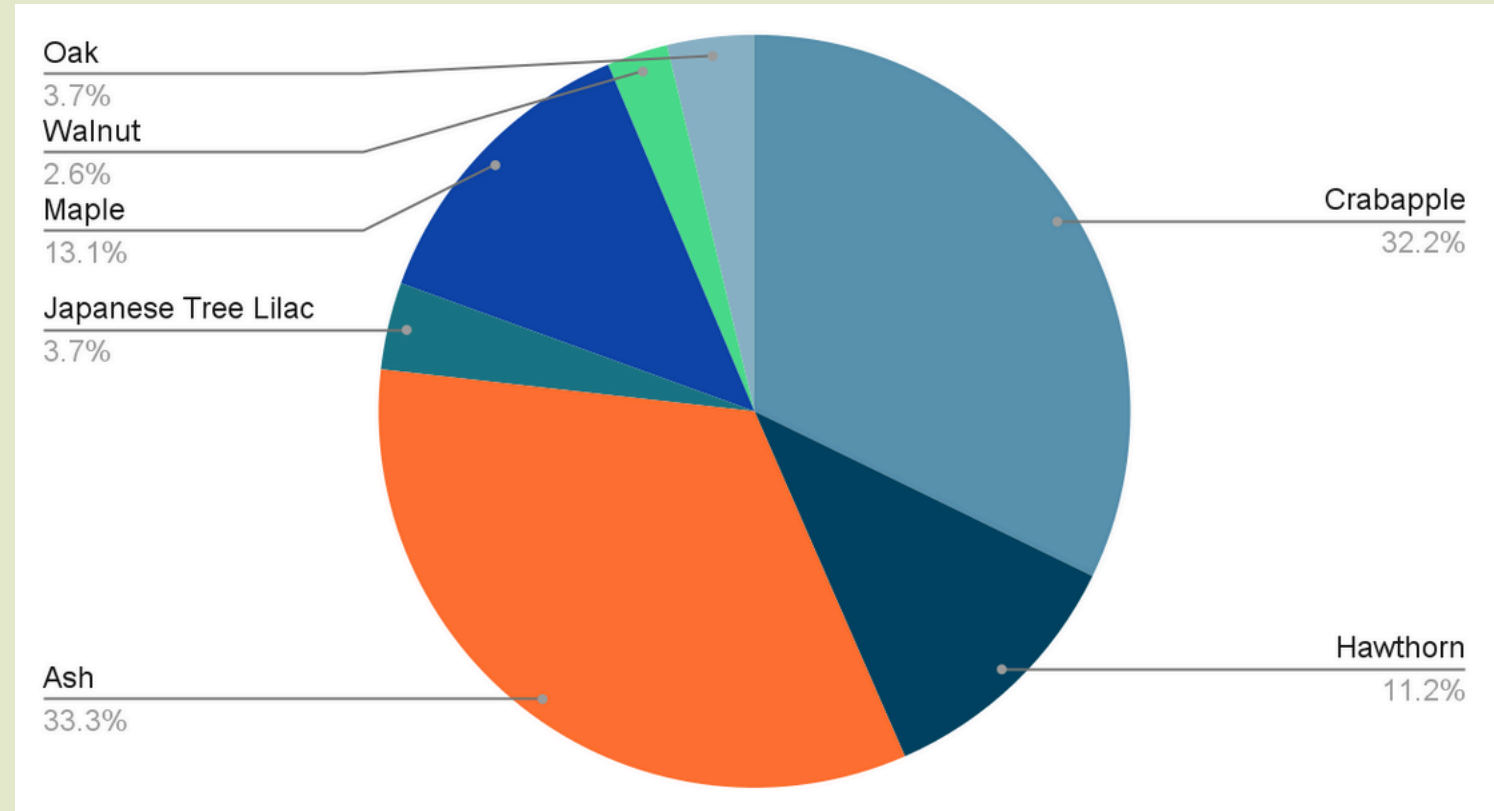
Tree Inventory

- 🌲 Tree inventories are an essential first step in preparing for EAB.
- 🌲 Tree inventories tell the story of the urban tree canopy.
- 🌲 Tree inventories allow the community to estimate the cost of ash tree removal and replacement.



Eagle Lake's Current Ash Population

- 🌲 Eagle Lake's inventory currently has 89 ash trees.
- 🌲 Over 30% of the public urban forest is ash and a higher percentage at Eagle Lake Park.



Recommended Strategy

- 🌲 Utilize systemic insecticide, called emamectin benzoate, to treat selected trees while new shade trees are established.
- 🌲 Preemptively cut down and replace ash trees in poor condition.
- 🌲 Remove any infested ash trees.
- 🌲 Replace ash trees with other species.



Recommended Trees

Small Trees:

Cherry, Amur Choke (*Prunus maackii*), *Crabapple (*Malus* spp.), *Hawthorne, thornless (*Crataegus crus-galli*), Maackia, Amur (*Maackia amurensis*), Magnolia, star (*Magnolia stellate*), Plum 'Princess Kay' (*Prunus nigra*), Redbud, eastern (*Cercis canadensis*), Serviceberry 'Autumn Brilliance' (*Amelanchier x grandiflora*),

Medium Trees:

*Alder (*Alnus* spp.), *Cherry, Black (*Prunus serotina*), Ginkgo- Seedless Selections (*Ginkgo biloba*), *Hop hornbeam/Ironwood (*Ostrya virginiana*), *Hornbeam, American (*Carpinus caroliniana*), Horsechestnut (*Aesculus glabra*), Magnolia (*Magnolia acuminata*), Mountain ash- European (*Sorbus aucuparia*), Mountain ash- Korean (*Sorbus alnifolia*), Buckeye- Ohio (*Aesculus glabra*), Yellowwood- American (*Cladrastis kentukea*).

Large Trees:

*Birch- River (*Betula nigra*), Catalpa- Northern (*Catalpa speciosa*), *Coffee tree, Kentucky - Seedless Selection Only (*Gymnocaldus dioica*), Filbert- Turkish (*Corylus colurna*), *Hackberry (*Celtis occidentalis*), *Hickory, shagbark (*Carya ovata*), *Hickory- bitternut (*Carya cordiformis*), *Honeylocust, Thornless - Seedless Selection Only (*Gledistia triacanthos* var. *inermis*), Horsechestnut (*Aesculus hippocastanum*), Linden, American (*Tilia americana*), *Maple- black (*Acer saccharum* subsp. *Nigrum*), *Maple- red (*Acer rubrum*), *Maple- sugar (*Acer saccharum*), *Oak, black (*Quercus velutina*), *Oak- bur (*Quercus macrocarpa*), Oak- chinkapin (*Quercus muehlenbergii*), Oak- English (*Quercus robur*), Oak- Heritage (*Quercus x macdanielli*), *Oak- Northern Pin (*Quercus ellipsoidalis*), *Oak- red (*Quercus rubra*), *Oak- swamp white (*Quercus bicolor*), *Oak- white (*Quercus alba*).

Cherry, Amur Choke

Prunus maackii

Height: 20-30'

Width: 18-25'

Hardiness Zone: 2 to 6

Description: Dense and broadly rounded crown, yellow fall color, attractive, exfoliating golden to russet brown bark. Produces fragrant white flowers in 6-10 flower clusters in April and May followed by 1/4" diameter black cherry fruit.

Cost: \$130



800 x 600



Serviceberry 'Autumn Brilliance'

Amelanchier x grandiflora

Height: 15-25'

Width: 15-25'

Hardiness zone: 4 to 9

Description: Oval, vase shaped crown with red, orange, and yellow fall color. Produces a showy white flower in April. Attracts birds. No serious insect or disease problems. Cost: \$130



Magnolia, star

Magnolia stellata

Height: 15-20'

Width: 10-15'

Hardiness Zone: 4 to 8

Description: Spreading, rounded crown, yellow-gold fall color. Produces large distinctive buds and star shaped, white flowers in March.

Cost: 189.99



***Hop hornbeam/Ironwood**

Ostrya virginiana

Height: 25-40'

Width: 20-30'

Hardiness Zone: 3 to 9

Description: Rounded crown, yellow fall color, reddish-brown bark peels in longitudinal strips, produces hop-like seed bearing pods.

Cost: \$150



Ginkgo – Seedless selections only

Ginkgo biloba

Height: 40-50'

Width: 25-30'

Hardiness Zone: 3 to 8

Description: Pyramidal crown with uniform, bright yellow fall color, no serious insect or disease problems.

Cultivars include: Autumn Gold, Magyar, Princeton Sentry

Cost: 199.99





Yellowwood, American

Cladrastis kentukea

Height: 30-50'

Width: 40-50'

Hardiness zone: 4 to 8

Description: Oval crown with yellow to gold fall color. Produces clusters of fragrant white pendulous flowers in May.

Cost: \$180





***Coffee tree, Kentucky - Seedless Selection Only**

Gymnocaldus dioica

Height: 60-80'

Width: 40-55'

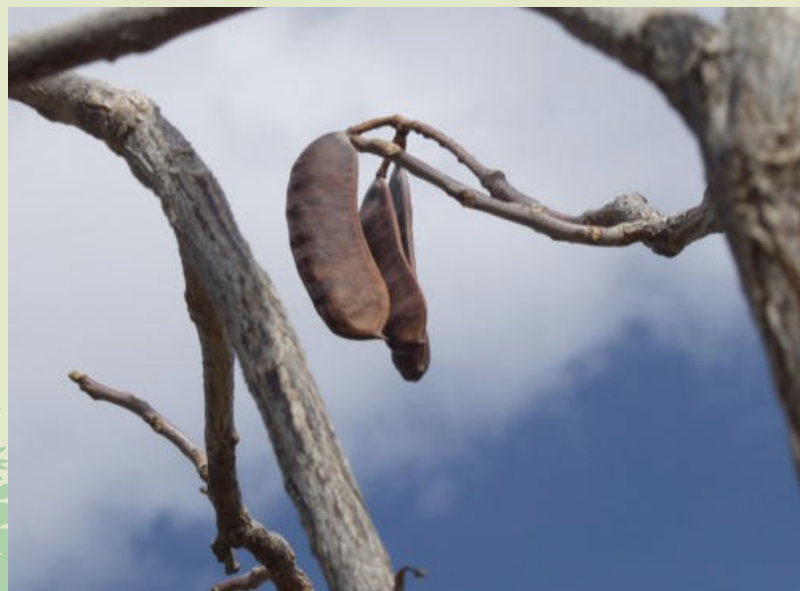
Hardiness Zone: 3 to 8

Description: Open oval to vase shape canopy, fall color is yellow.

No serious insect or disease problems.

Cultivars include: Espresso, Stately Manor

Cost: \$220





***Hackberry**

Celtis occidentalis

Height: 40-60'

Width: 40-60'

Hardiness Zone: 2 to 9

Description: Vase shaped, rounded crown with fall yellow color, grey, ridged, warty bark. Produces small, berry like fruit that attract birds.

Cost: \$120



St. Croix Elm

The American Elm cultivar *Ulmus americana* 'St. Croix' is a recent selection cloned from a large tree growing at Afton, Minnesota, which has displayed a high resistance to Dutch elm disease.

Cost: \$120



QUESTIONS?

