

Emerald Ash Borer



A new threat to Massachusetts
forests

- **Introduced into the United States in solid wood packing materials from Asia**
- **First identified as Emerald Ash Borer in the U.S. in 2002 (Detroit, Michigan area)**
- **Movement of Ash species is the primary method of dispersal in this country
Firewood, Sawlogs, Nursery Stock**
- **Currently found in 18 states including Massachusetts**



Emerald Ash Borer Lifecycle

- **Adults emerge late May, early June (540 GDD)**
- **EAB adults feed on ash foliage**
- **Female EAB deposits eggs in bark crevices or cracks, 50-75 eggs per insect**
- **Eggs hatch in 2-3 weeks – larvae tunnel into the phloem, inner bark and go through four instars.**
- **EAB larvae spend the winter in small pre-pupation cells in the outer sapwood**
- **EAB can kill trees in 3-5 years**



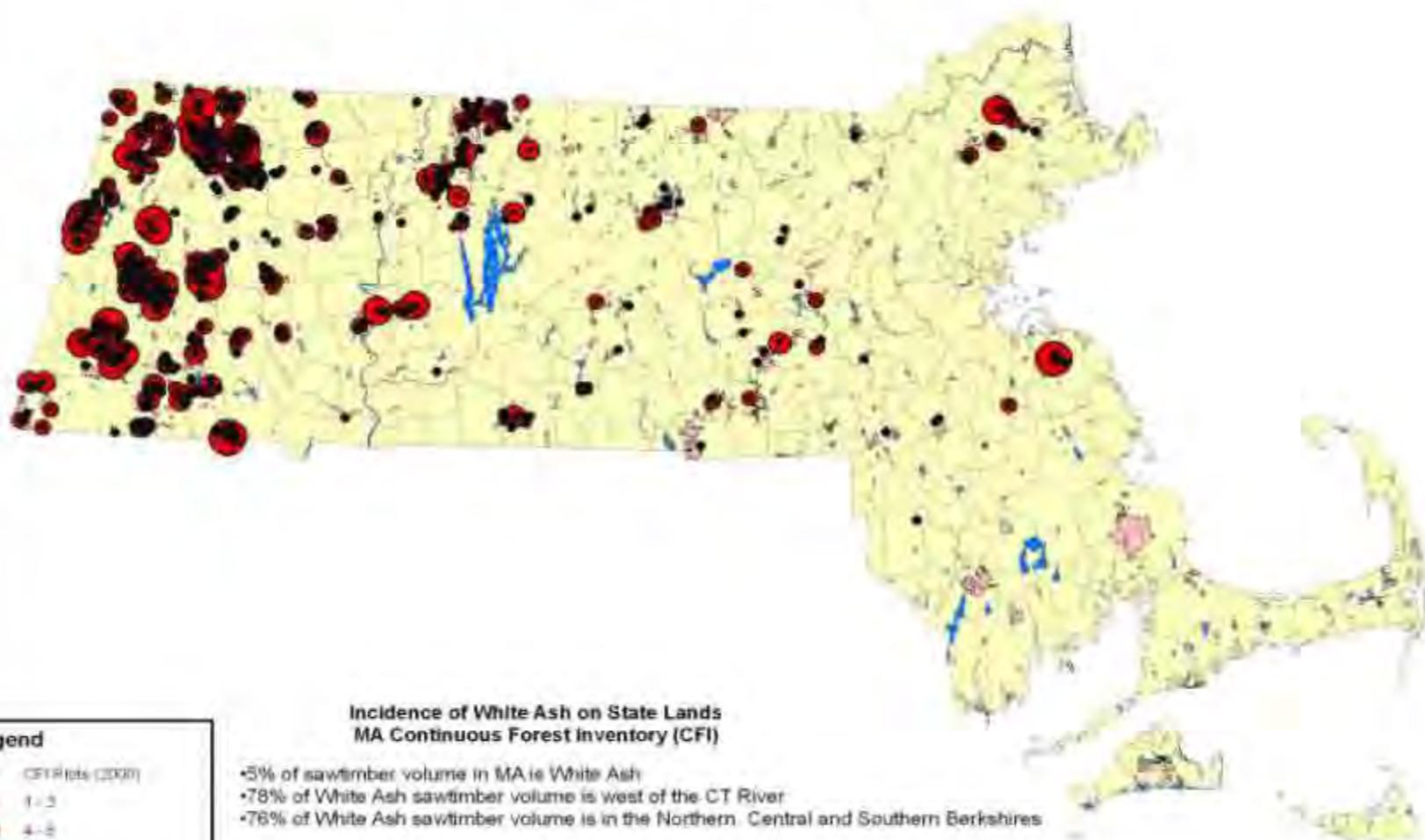








Continuous Forest Inventory Plot Locations Number of Ash Trees per Plot



Legend

- CFI Plots (2000)
- 1-3
- 4-6
- 8-14
- 15-22
- 23+
- DCR-DMR Properties

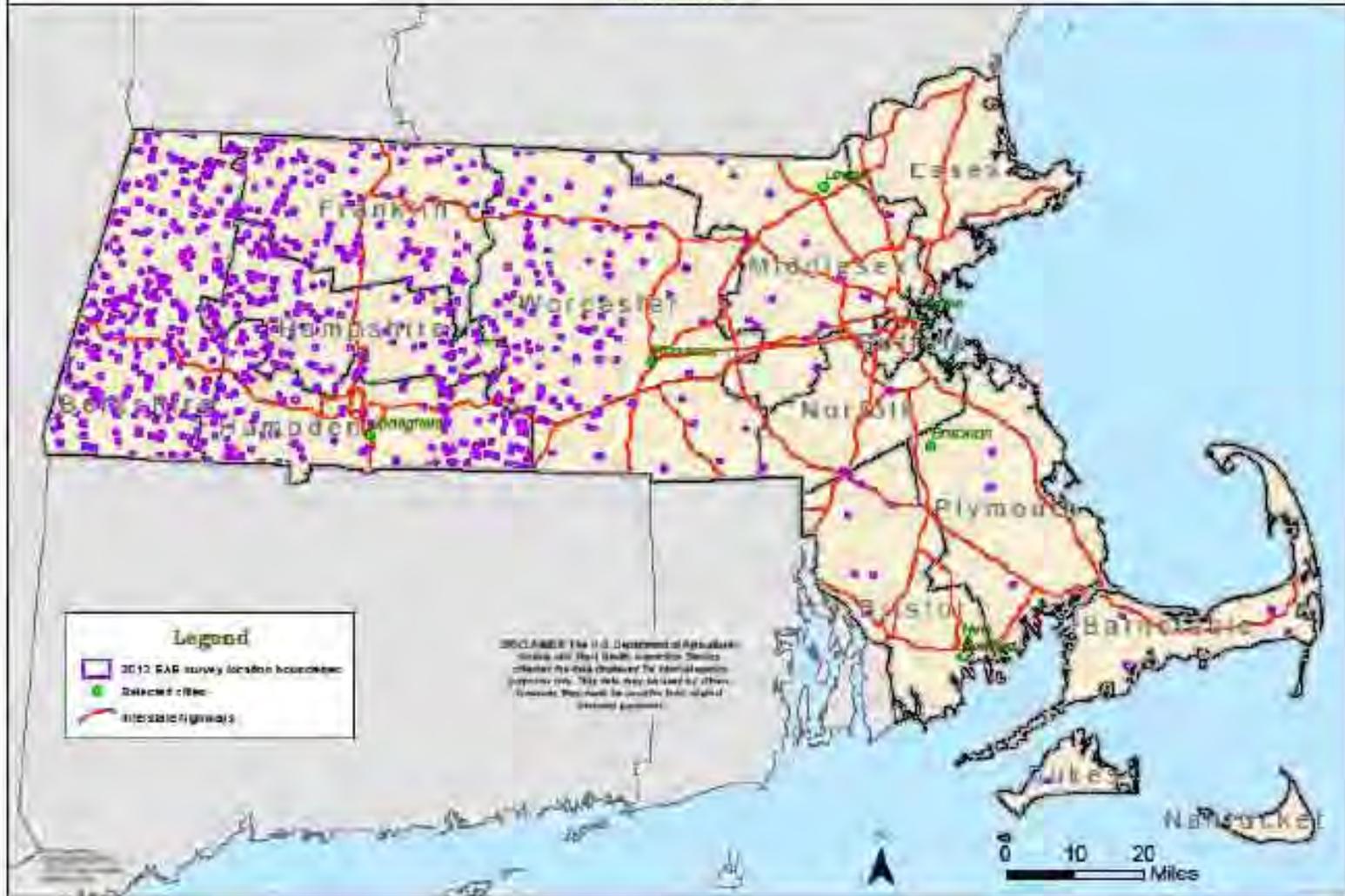
Incidence of White Ash on State Lands MA Continuous Forest Inventory (CFI)

- 5% of sawtimber volume in MA is White Ash
 - 78% of White Ash sawtimber volume is west of the CT River
 - 76% of White Ash sawtimber volume is in the Northern, Central and Southern Berkshires
 - 24% of state lands are in the Northern Hardwoods forest type
 - 92% of state lands in Northern Hardwoods are west of the CT River
 - 78% of state lands in Northern Hardwoods are in the Northern, Central and Southern Berkshires
- (white ash is one of the main components of Northern Hardwoods)





Emerald Ash Borer 2012 Survey Trap Locations Massachusetts





EAB trap trees

Girdled ash trees used to monitor
for the presence of EAB

13 sites in Western Mass.



Bio-surveillance using *Cerceris fumipennis*









Insects in Minnesota That May Be Confused With Emerald Ash Borer

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