

Massachusetts DCR Asian Longhorned Beetle Reforestation Program

Eric Seaborn, MA DCR
Shrewsbury Town Hall – April 3, 2013



Economic Damage

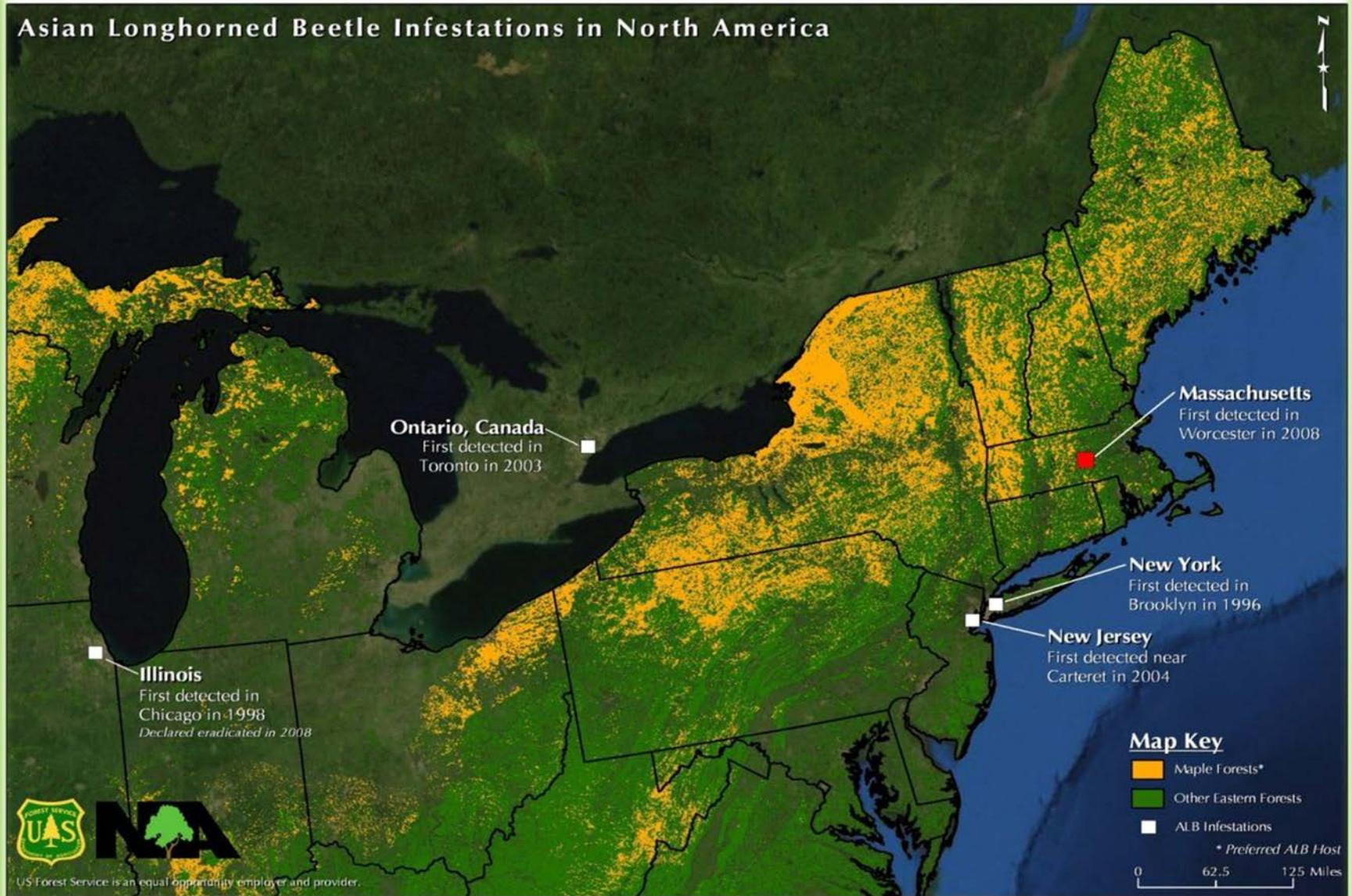
The ALB is not native to this country and there are no known predators

If left unchecked, economic damage is estimated at more than \$600 billion if ALB becomes established

- Numerous industries affected
 - Tourism
 - Sugar maple industry
 - Timber industry
 - Nursery stock industry



Asian Longhorned Beetle Infestations in North America



US Forest Service is an equal opportunity employer and provider.

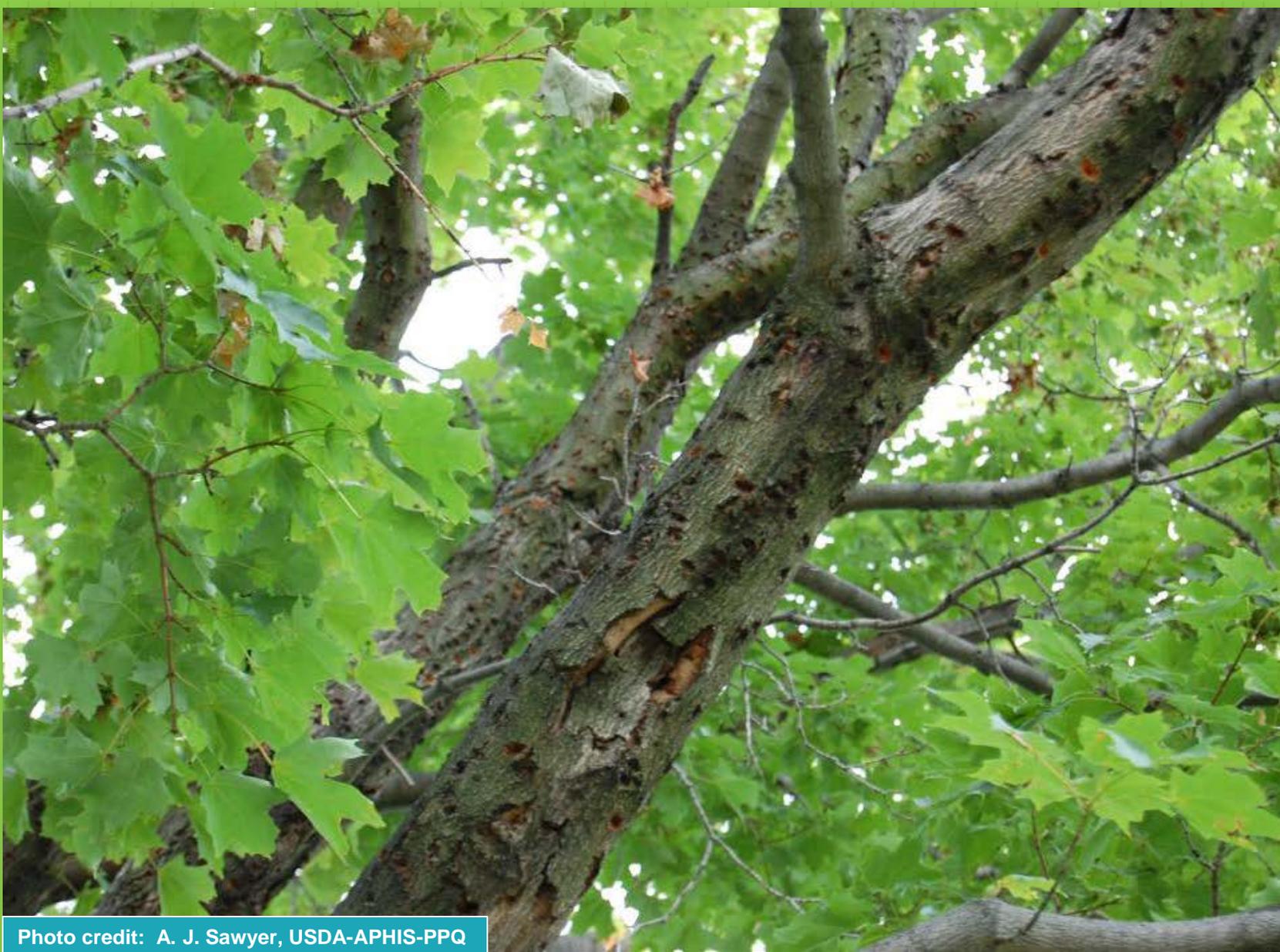


Photo credit: A. J. Sawyer, USDA-APHIS-PPQ

Level D Infestation



First reported by a private property owner in the Greendale neighborhood



Tree removals started in January 2009









Worcester Land Trust







Benefits of A Healthy Urban Forest

- ❑ Increases Privacy
- ❑ Reduces Noise Pollution
- ❑ Wellness
- ❑ Attracts Business
- ❑ Improves Water Quality
- ❑ Improves Air Quality
- ❑ Sense of Community
- ❑ Aesthetics
- ❑ Shading and Cooling
- ❑ Energy Conservation
- ❑ Recreation
- ❑ Increases Property Values

“ The wind up here is terrible now! My windows were rattling and I think I lost shingles from my roof”

“I never used to be able to see I-190 and all that stuff down there”

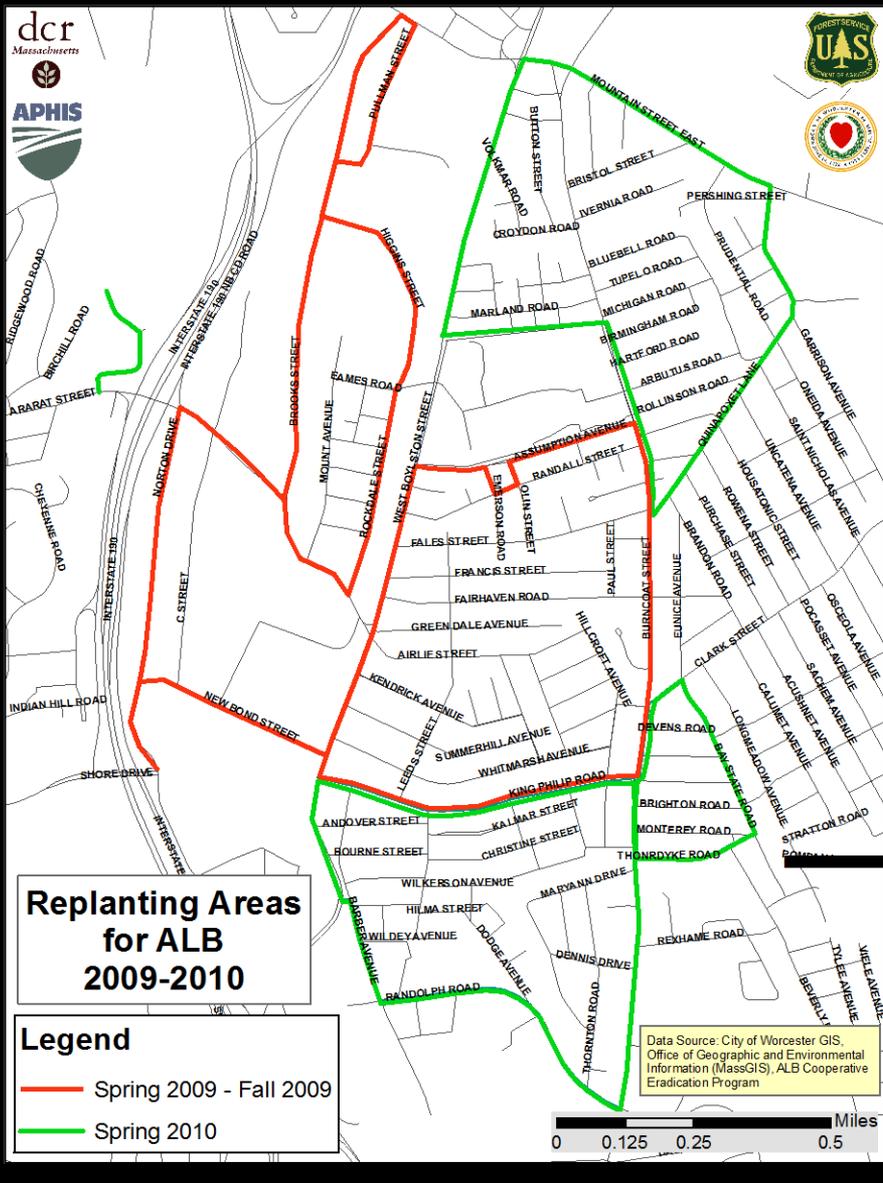
“The sun baked us this summer”

“My Dad planted that tree. It was hard to see it go”

“Welcome to the wasteland”

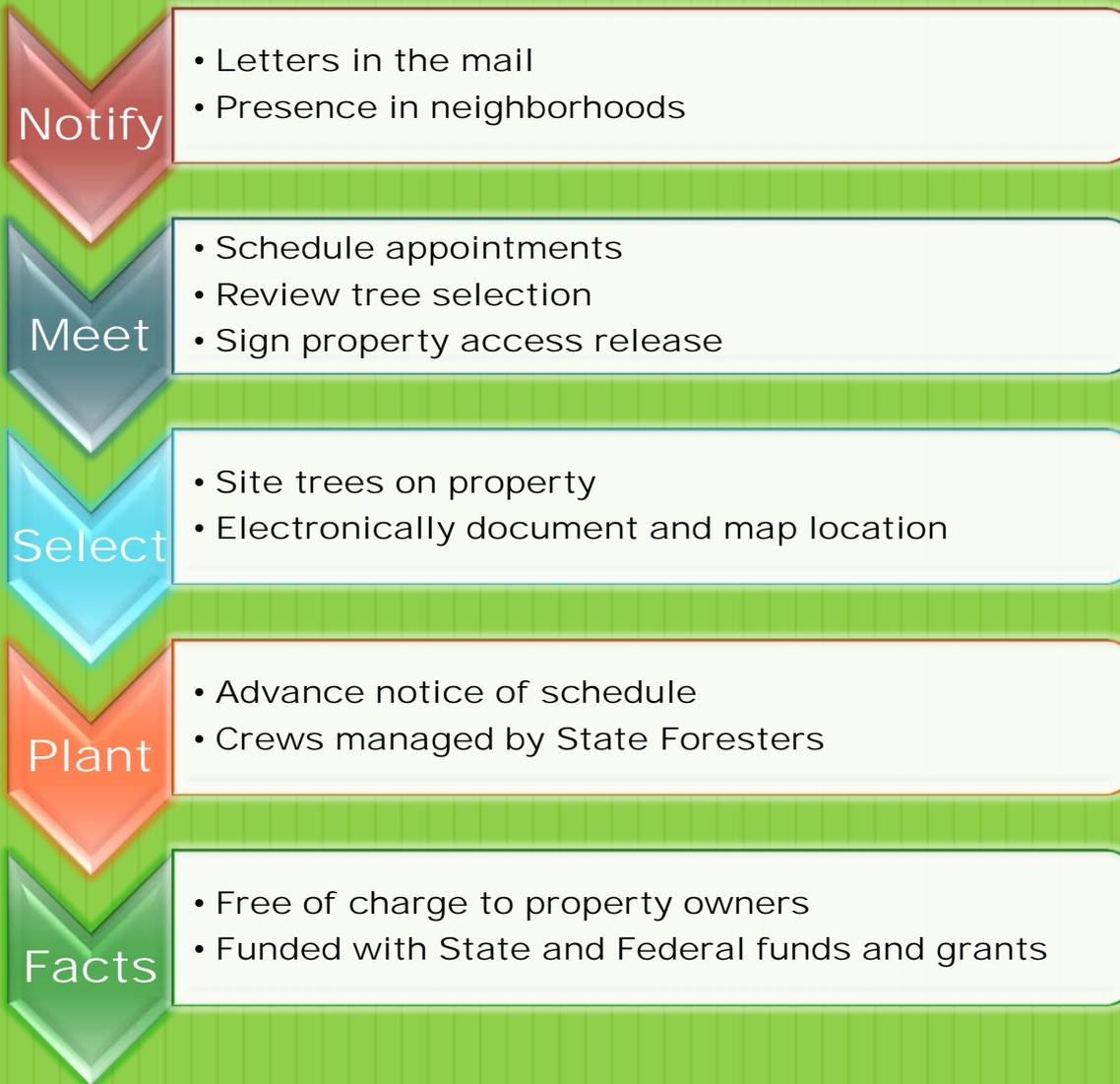
Reforestation - An Opportunity to Restore

- ▣ Multiple planting resources and funding sources
 - Department of Conservation and Recreation
 - USDA
 - Cities and Towns
 - \$4 million state and federal funds



First deforestation = First reforestation

How does it work?





Ginkgo



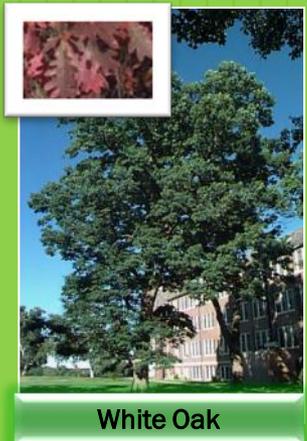
Dawn Redwood



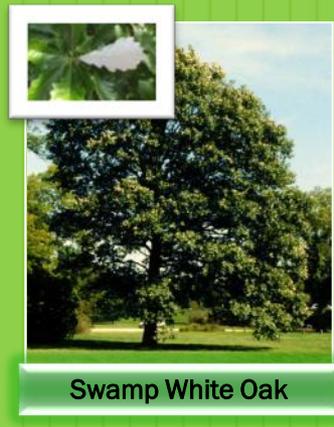
Sweetgum



Littleleaf Linden



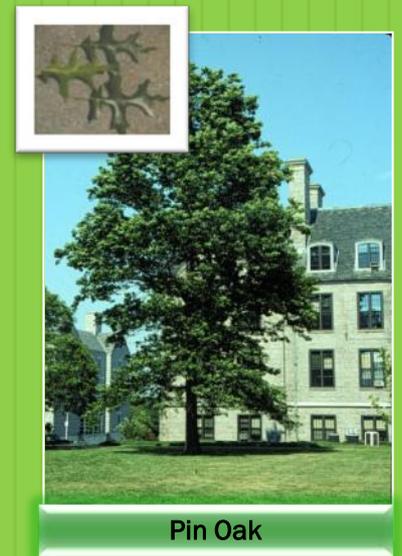
White Oak



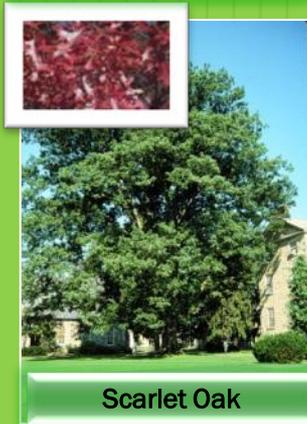
Swamp White Oak



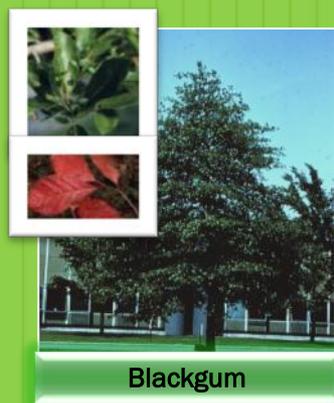
Red Oak



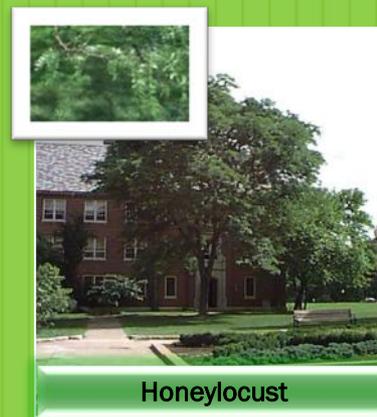
Pin Oak



Scarlet Oak



Blackgum



Honeylocust

Large Shade Trees

Photos are from the University of Connecticut Plant Database. Swamp White Oak insets: Paul Wray, Iowa State University, Bugwood.org.



Japanese Tree Lilac



Kousa Dogwood



Snow Goose Cherry



American Arborvitae

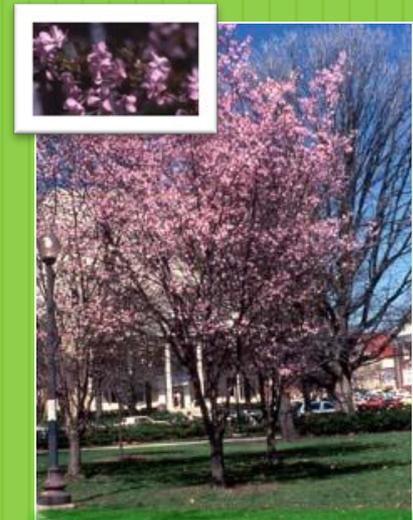


White Fir



Crabapple

(Flower color may vary)



Sargent Cherry

Ornamental Trees and Evergreens

Photos are from the University of Connecticut Plant Database. Swamp White Oak insets: Paul Wray, Iowa State University, Bugwood.org.

Replanting in Action



Mount Avenue



























1. Average 37% increase in mean energy use as KWH after tree removal
2. On an individual basis, residential homes pay, on average, an additional \$49 over the entire cooling season as a result of using an air conditioner because of the absence of trees

Worcester Tree Initiative



The Grand Picture to Date and Beyond:

32,000 + landscape trees removed

More than 3 million trees surveyed

14,446 Trees Replanted by DCR

At Least 8,000 more trees planted by the City of Worcester and the Worcester Tree Initiative

DCR Reforestation Program Ended on May 31, 2012

Fall of 2012, DCR received an additional \$4 million to restart the ALB Reforestation Program