

Emerald Ash Borer Management Program



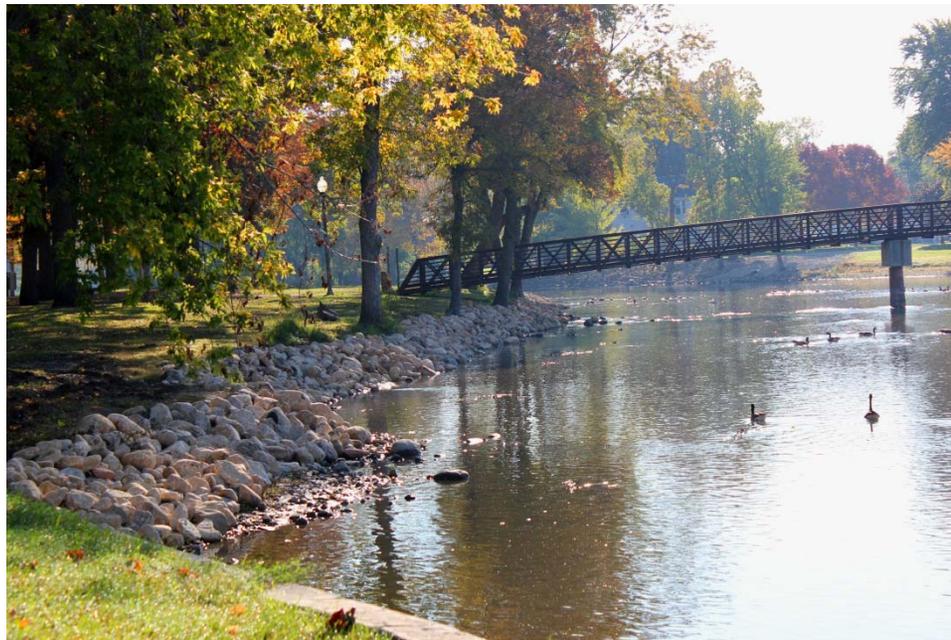
City of Burlington

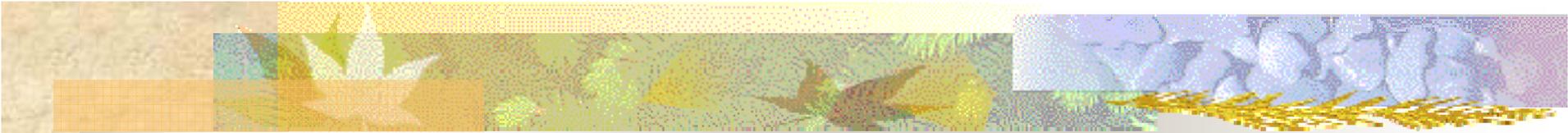




Emerald Ash Borer Mission Statement

“To maintain and enhance the maximum long term benefits of the urban forest.”





Emerald Ash Borer Program Goal

“To minimize the economic impact of EAB and the potential loss of ash trees to the health of Burlington’s urban forest by utilizing the best scientific advice to attempt to distribute costs associated with control over a manageable time period.”



Project Background & Scope of Services

- Develop a system to mitigate these losses through effective management
 - Contract with an Urban Forestry consultant
 - Conduct a Street and Park/Public Property (PP) Tree Inventory
 - Develop an Action Plan



Project Background & Scope of Services

- Wachtel Tree Science was hired as Consultant
 - Public Ash Tree Inventory – Summer 2013
 - Customized GIS software program created by Kapur and Associates to manage collected data
 - 5-Year EAB Implementation Plan

Project Background & Scope of Services

- Project Funding
 - Urban Forestry Grant from WDNR
 - Additional funding from the City of Burlington



Inventory Report

Inventory Methodology

- Site & Tree Information collected





Inventory Report

Inventory Results & Discussion

- Inventoried results included:
 - 665 Existing Ash Street Trees
 - 156 Existing Ash Park/PP Trees
 - Species composition:
 - 486 Green Ash; 322 White Ash;
12 European Ash

Inventory Report

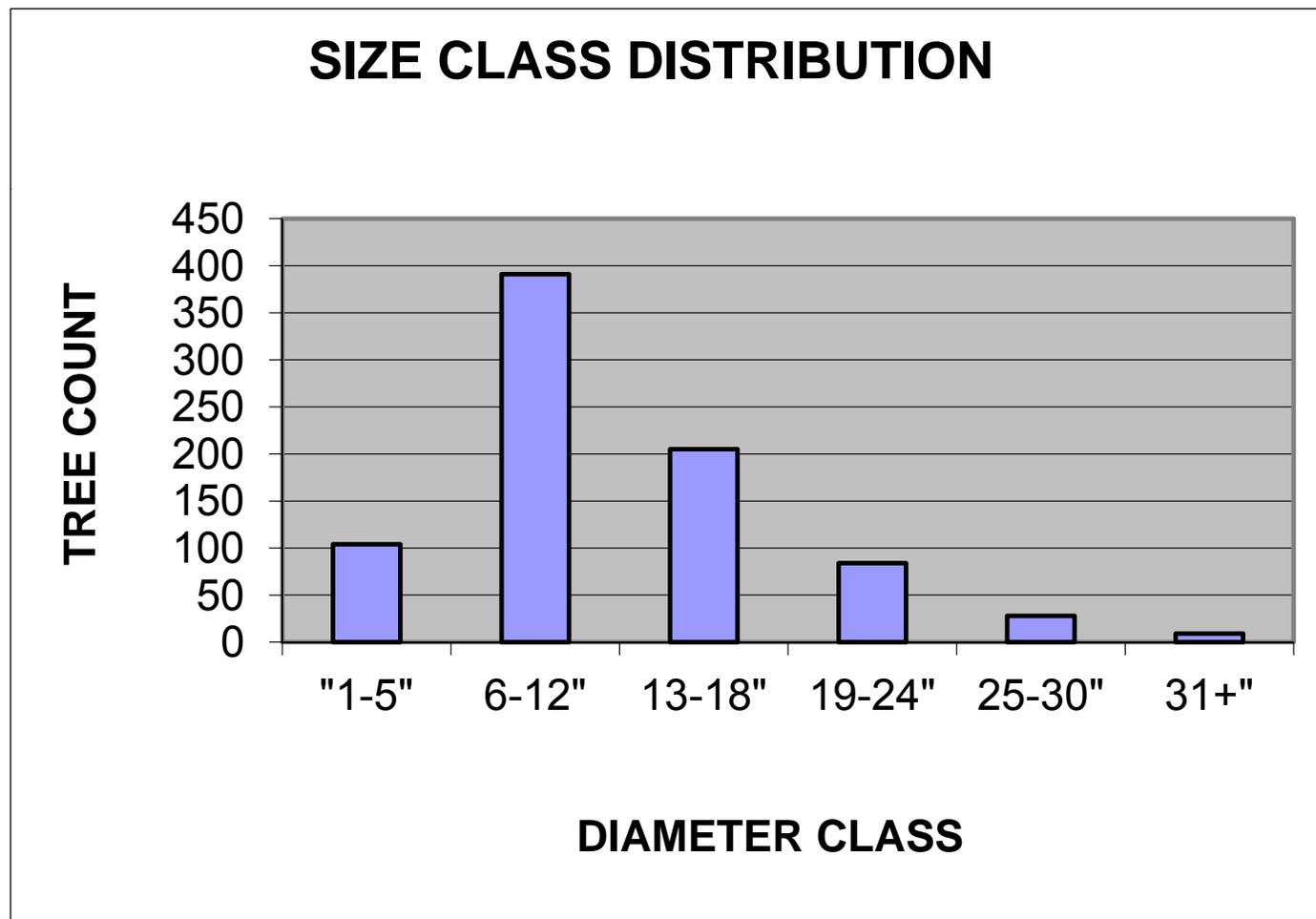
Inventory Results & Discussion

- Species Frequency
 - Ash comprise 18.4% of the public tree species mix
 - Species Diversity is important



Inventory Report

Inventory Results & Discussion





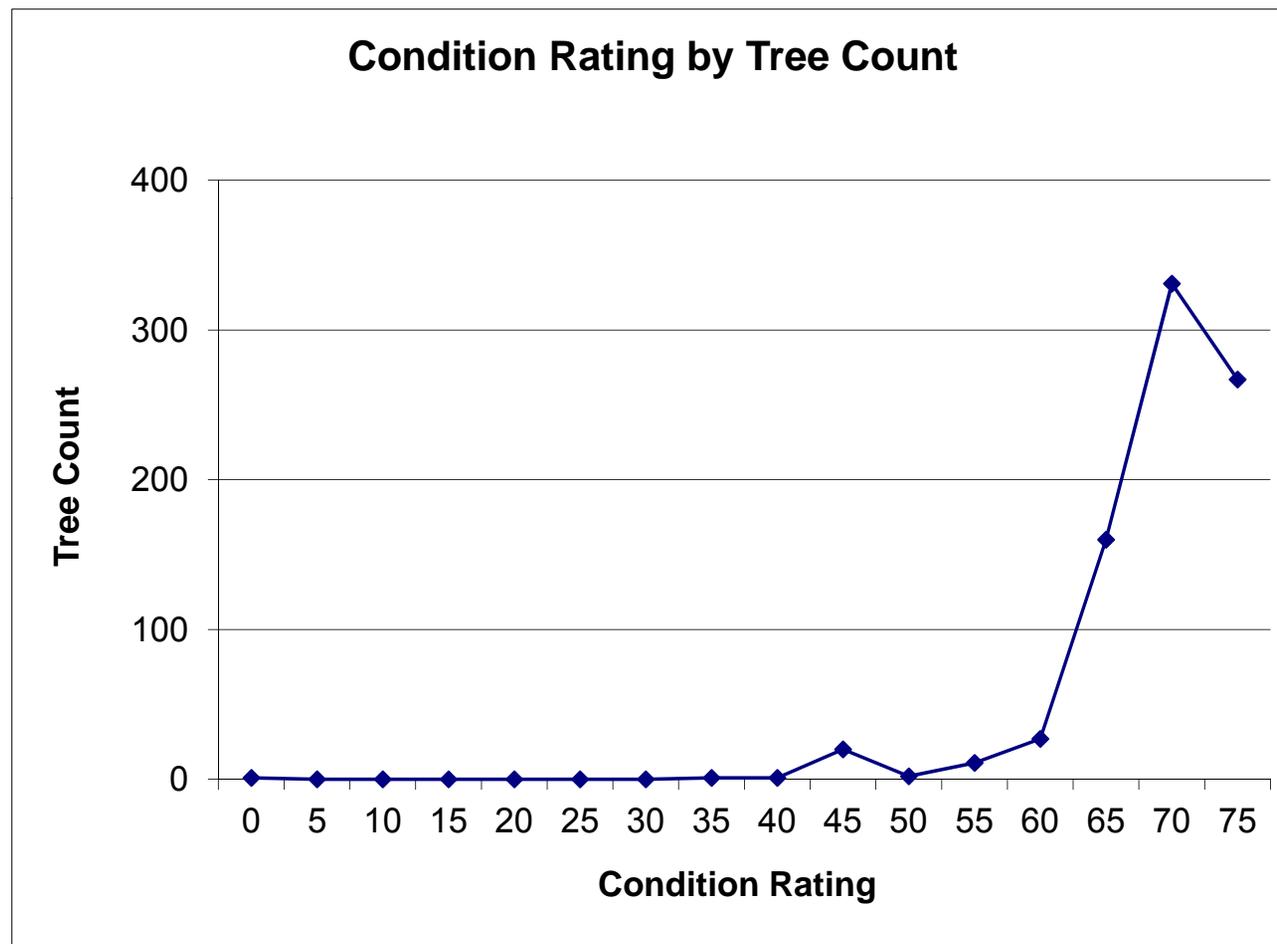
Inventory Report

Inventory Results & Discussion

- Size Class Distribution
 - Moderate aged population
 - 13% of Ash trees in the 1-5" Diameter Class
 - 73% of Ash trees are in the 6-12" and 13-18" Diameter Classes
 - Ash over 18" account for < 15% of the Ash population

Inventory Report

Inventory Results & Discussion





Inventory Report

Inventory Results & Discussion

- Condition & Maintenance
 - 61% are in the top 2 Condition Classes (greater than or equal to 70%)
 - Field Inventory detected:
 - 24 Ash recommended for Removal
 - 93 recommended for Safety Prune



Inventory Report

Inventory Results & Discussion

- Tree Value - Streets
 - Total Street Tree Value for inventoried Ash - \$642,987.00
 - Average Value per Tree - \$966.90

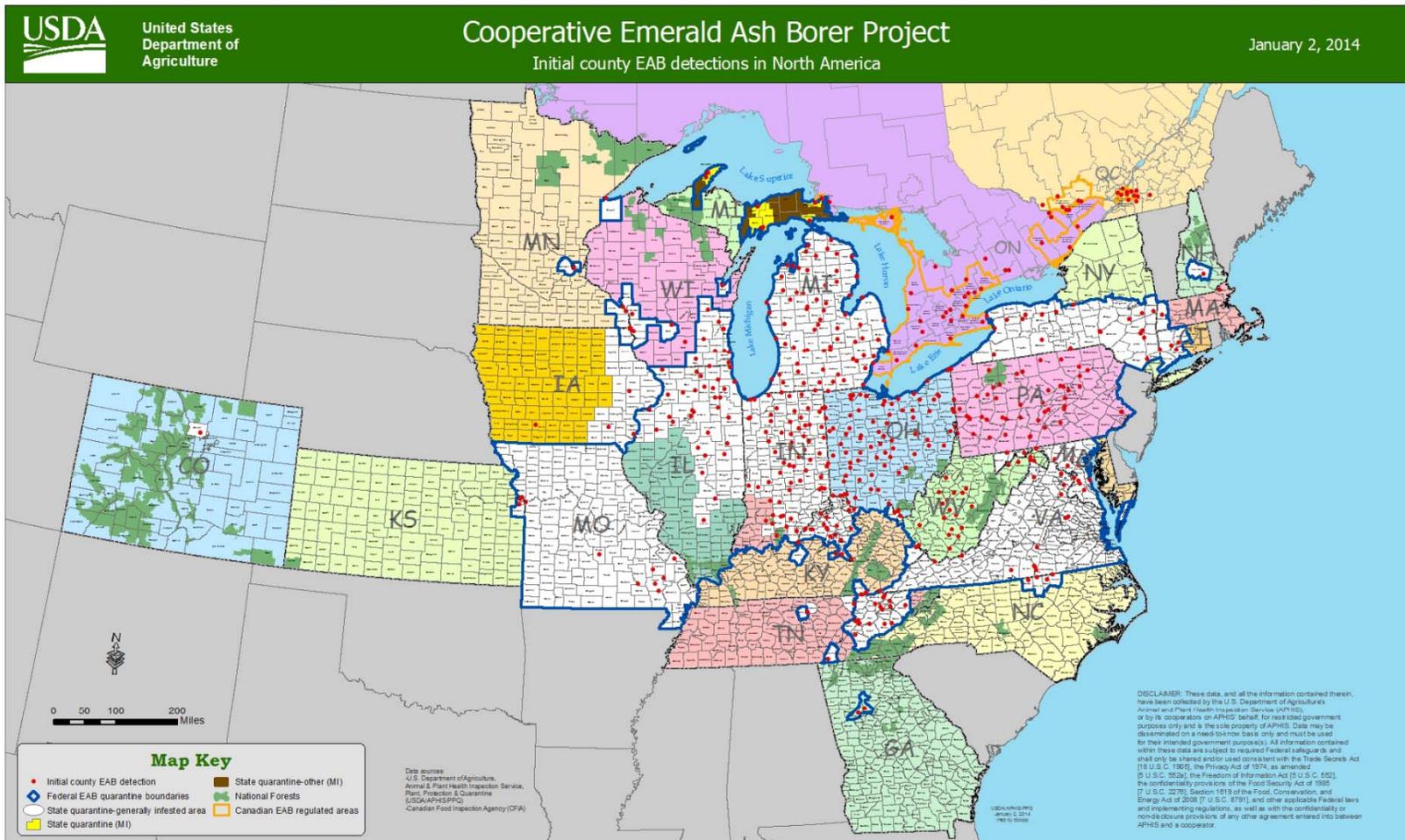


Inventory Report

Inventory Results & Discussion

- Tree Value – Parks/Public Property
 - Total Parks/PP Tree Value for inventoried Ash - \$194,394
 - Average Value per Tree - \$1,246.12

Where is EAB Today?



Where is EAB Today?

Emerald Ash Borer Quarantined Counties



Wisconsin counties quarantined as of November 26, 2013.



What We Know

- Symptoms are slow to appear
- Once EAB is detected it has probably already been present for 3 to 5 years
- EAB has not been successfully eradicated once it is found
- Chemical treatments can both protect trees and prolong the removal cycle
- A fully established EAB population can create an “ashless” community within 5 years



EAB Readiness Plan Components

- Mission Statement
- Executive Summary
- Definitions
- Authority
 - Federal & State Regulations
 - Local Policies for EAB
 - Burlington Ordinances



EAB Readiness Plan Components

- Reporting Protocol
 - Possible Infestation
 - Quarantine Information
 - Initial Infestation Action Plan

- Contacts
 - Community Readiness Team
 - Media Contacts
 - Public Officials
 - Organizations
 - Mutual Aid Agreements



EAB Readiness Plan Components

- Assessment
 - Conducting Inventories
 - Woodlot Surveys
 - Ash Inventory Summary
 - Ash Tree Values & Uses
 - Wood Utilization Options
 - Community Fact Sheet
 - Staff Resources
 - Equipment Resources



EAB Readiness Plan Components

- Assessment (cont.)
 - Facilities for Meetings/Presentations
 - Literature Distribution Locations
 - Tree Removal Contractors
 - Debris Handling Locations
 - Debris Removal/Trucking Contractors
 - Chipping Contractors
 - Local Ash Buyers
 - Funding Alternatives



EAB Readiness Plan Components

- Mgt. Goals/Control Measures
 - Tactics - Prior and Post Infestation
 - Plan of Action – Three Year Projection
 - Prevention
 - Control Options
 - Species Diversity
 - Removal Techniques for Utilization
 - Marshalling Yards
 - Managing EAB Infested Wood



EAB Readiness Plan Components

- Communication
 - Public Official Information
 - Staff Training
 - Public Education and Awareness
- Information
 - Know About EAB
 - Educational Resources
 - Frequently Asked Questions
 - Collecting Specimens
 - EAB Inspection Request Form
 - Sample Press Releases



Burlington Ash Fact Sheet

- 665 Ash Street Trees
- 156 Ash Park/Public Property
(open-maintained areas only)
- Removal of 104 trees ≤ 5 " DBH = In-house
- Removal of 213 trees ≥ 6 " DBH = \$95,600
- Replanting of 250 trees = \$93,750
(2" caliper @ \$375/tree)
- Treatment of 504 trees = \$128,100
- Current Value of Public Ash = \$837,400



Action Plan

5-Year Projection

- Remove all Ash ≤ 5 " diameter (104 trees) using in-house staff by Spring 2014
- Over 5 years remove remaining Ash with a condition rating of 65% or less (213 Trees)
- Chemically treat those Ash ≥ 6 " with a condition rating of $\geq 70\%$ based on size, location and significance (504 trees)

Action Plan

5-Year Projection

- Replace “Remove” trees and preemptive removal trees with a diversity of species, over this 5 year period (125 trees)





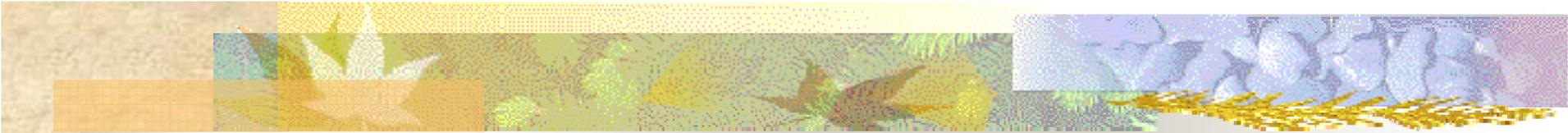
Action Plan

5-Year Projection

Cost of Implementation:

- Contract Services = \$382,850 or \$76,570 per year
- Hybrid Contract/In-house = \$180,000 or \$36,000 per year

Above costs include project administration and contingency



Council/Department Considerations

- Seek public input for potential options through neighborhood meetings
- Assess additional personnel needs and supplemental training
- Current staff is seeking ISA certification
- Is current equipment adequate?



Council/Department Considerations

- What programs may need to be reduced or curtailed if EAB infestation becomes dramatic?
- After 5-Year Action Plan, determine if treatments should continue
- Removal procedures for infested trees on private property
- Wood Utilization and Disposal

Questions?

