Forest Action Plan Implementation

We would like to thank The National Association of Resource Conservation & Development Councils (NARC&DC) for providing a grant that made this possible

Funding provided through

USDA Forest Service
State & Private Forestry
Cooperative Forestry

Northeast Iowa RC&D
Resource Conservation & Development
Grants

• Forest Action Plan allowed IDNR to obtain USFS competitive grants.
  – Emerald Ash Borer (EAB Monitoring).
  – Community Inventories and EAB Management Plans (Population under 5,000).
  – Thousand cankers disease/walnut twig beetle monitoring.
  – Asian longhorned beetle monitoring.
  – Gypsy Moth Monitoring.
EAB Sentinel/Trap Trees

2013 SENTINEL ASH TREE LOCATIONS

Dots on map may represent several sentinel trees. A total of 416 sentinel trees within 46 counties - a total of 158 sites.
Locations of the 2013 EAB Visual Survey Locations

Dots on map represent several visually surveyed trees. A total of 1,291 ash trees were visually surveyed for EAB in 58 counties - a total of 239 sites.
Communities with Inventories

IOWA COMMUNITIES WITH INVENTORIES

THERE ARE 242 COMMUNITIES WITH TREE INVENTORIES AND 180 HAVE FOREST PLANS.
EAB Quarantine National
EAB Impacts

• An estimated 50 million woodland ash trees.
  – 1.5 million wood products loss.

• An estimated 17% Urban ash trees.
  – % Ash will changes as more inventories are done.
  – Number of ash varies depending on imagery.
  – An estimated 3 billion in removal cost.
  – An estimated 500 million in replanting costs.
Other Benefits of Inventories

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Thousand Cankers Disease

- Walnut twig beetle attacks on branches and bole
- *Geosmithia morbida* fungus causes a small canker at the WTB attack site.
- “1000’s” of cankers coalesce and progressively kill branches and bole.
Example of Dry Funnel Trap
Pheromone Packet & Dog Collar
2013 WTB Trap Location 492 Sites
Thousand Cankers Disease (TCD) Monitoring Activities 2012*
Focus on Walnut Twig Beetle (WTB) Trap Sites

* Map shows data reported as of January 2013

FS funded trap sites
- No WTB 2012
- WTB Positive 2012

CAPS funded trap sites
- No WTB 2012
- WTB Positive 2012
- TCD Positive 2011, 2012

N. Carolina Field Detected TCD sites

Tennessee 2012 WTB trapped counties
- TCD Buffer Regulated Areas
- TCD Quarantined Areas
- Trapped but not regulated

APHIS - CAPS Survey

2012 Survey
TCD Impacts

• Wood products industry loss of more than $547 million.

• Non timber losses (wildlife, carbon sequestrations, community...) loss of 859 million dollars.
Other Benefits of Inventories

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Asian Longhorned Beetle
Asian Longhorned Beetle
Key Signs

- large black beetle – white spots
- long antennae - B&W bands
- 3/8” round exit holes
- most likely on maples
## Summary of ALB Infestations

<table>
<thead>
<tr>
<th>Location</th>
<th>Detected</th>
<th>Status</th>
<th># trees</th>
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<tbody>
<tr>
<td>Chicago</td>
<td>1998</td>
<td>Erad. - 2008</td>
<td>1551</td>
</tr>
<tr>
<td>NJ – Jersey City</td>
<td>2002</td>
<td>Erad. - 2008</td>
<td>113</td>
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<tr>
<td>NJ – Carteret</td>
<td>2004</td>
<td>Active (2006)</td>
<td>616</td>
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<tr>
<td>Worchester, MA</td>
<td>2008</td>
<td>Active</td>
<td>23,122</td>
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<tr>
<td>Bethel, OH</td>
<td>2011</td>
<td>Active</td>
<td>10,024</td>
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</tbody>
</table>
955 Maple Trees Examined in 2013
ALB Impacts

• Wood products industry loss of more than $222 million.
• Nearly 5 billion in urban tree removal.
• Approximately 1.5 billion in urban tree replacement.
• Non timber benefits of 1.7 billion dollars.
Gypsy Moth

• Defoliates over 300 species of trees.
• Defoliates over 500 plant species.
• Prefers oaks, which would impact acorn crop and deer health.
• Repeated defoliation will lead to tree mortality.
Gypsy Moth Impacts

- Wood products industry loss of more than $551 million.
- Nearly 3.5 billion in urban tree removal and replacements.
- An estimated 1.5 billion loss in fish and wildlife recreation.
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Questions?