

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

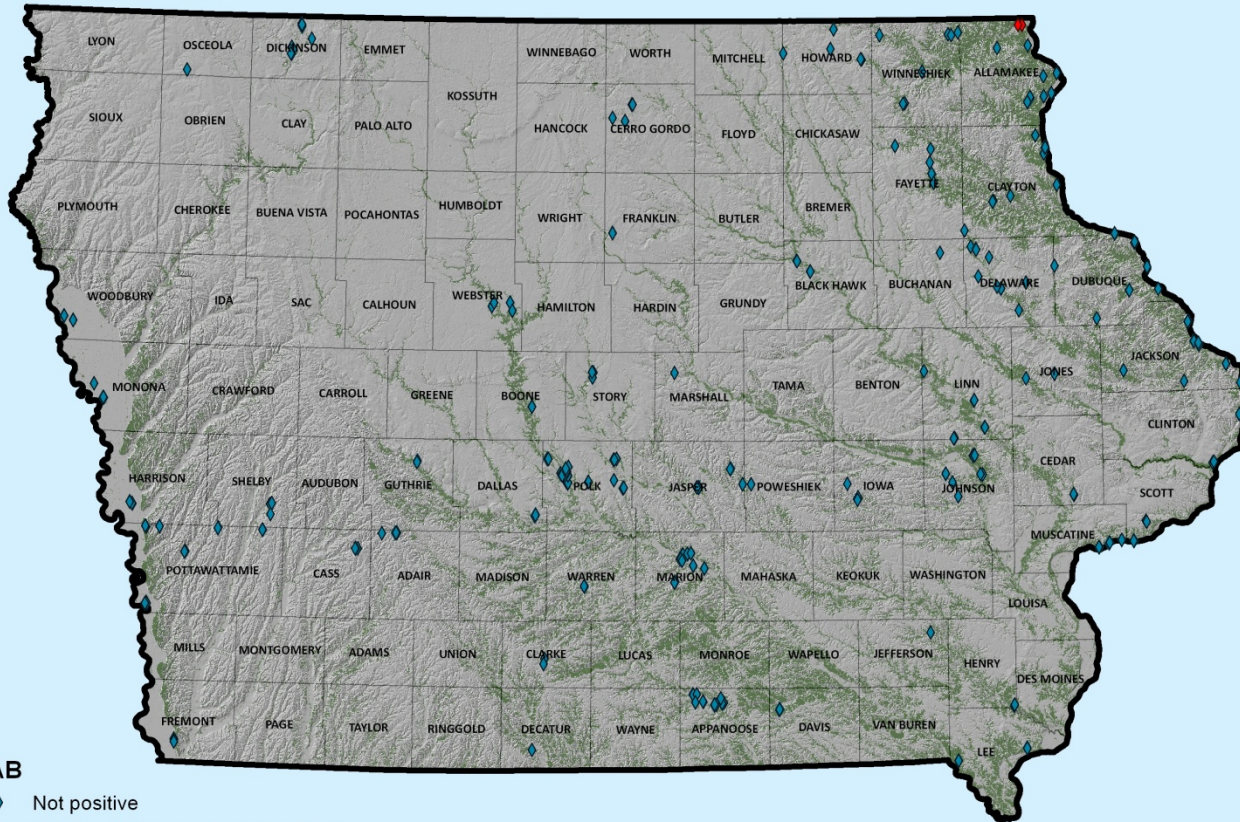


Grants

- 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

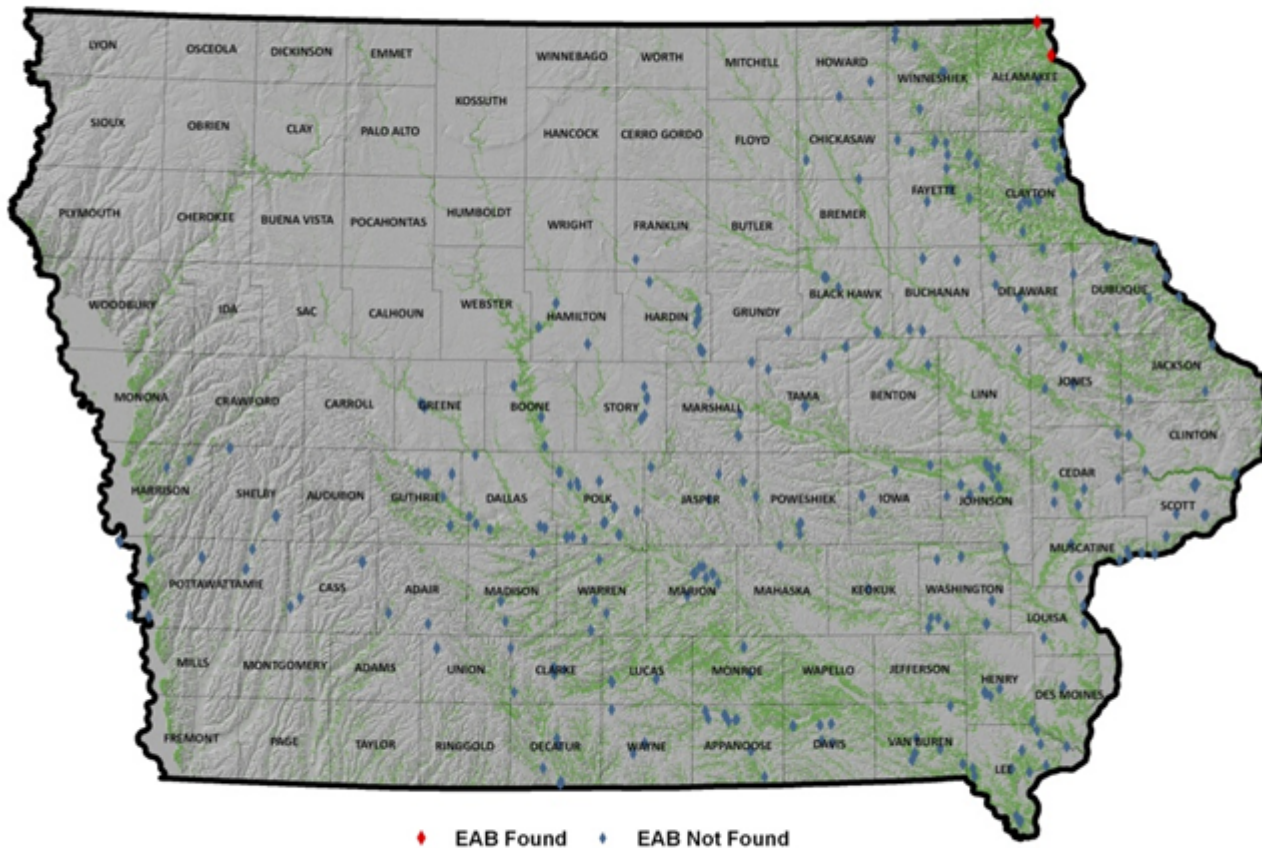
2013 SENTINEL ASH TREE LOCATIONS



Dots on map may represent several sentinel trees.
A total of 416 sentinel trees within 46 counties - a total of 158 sites.

EAB Visual Survey

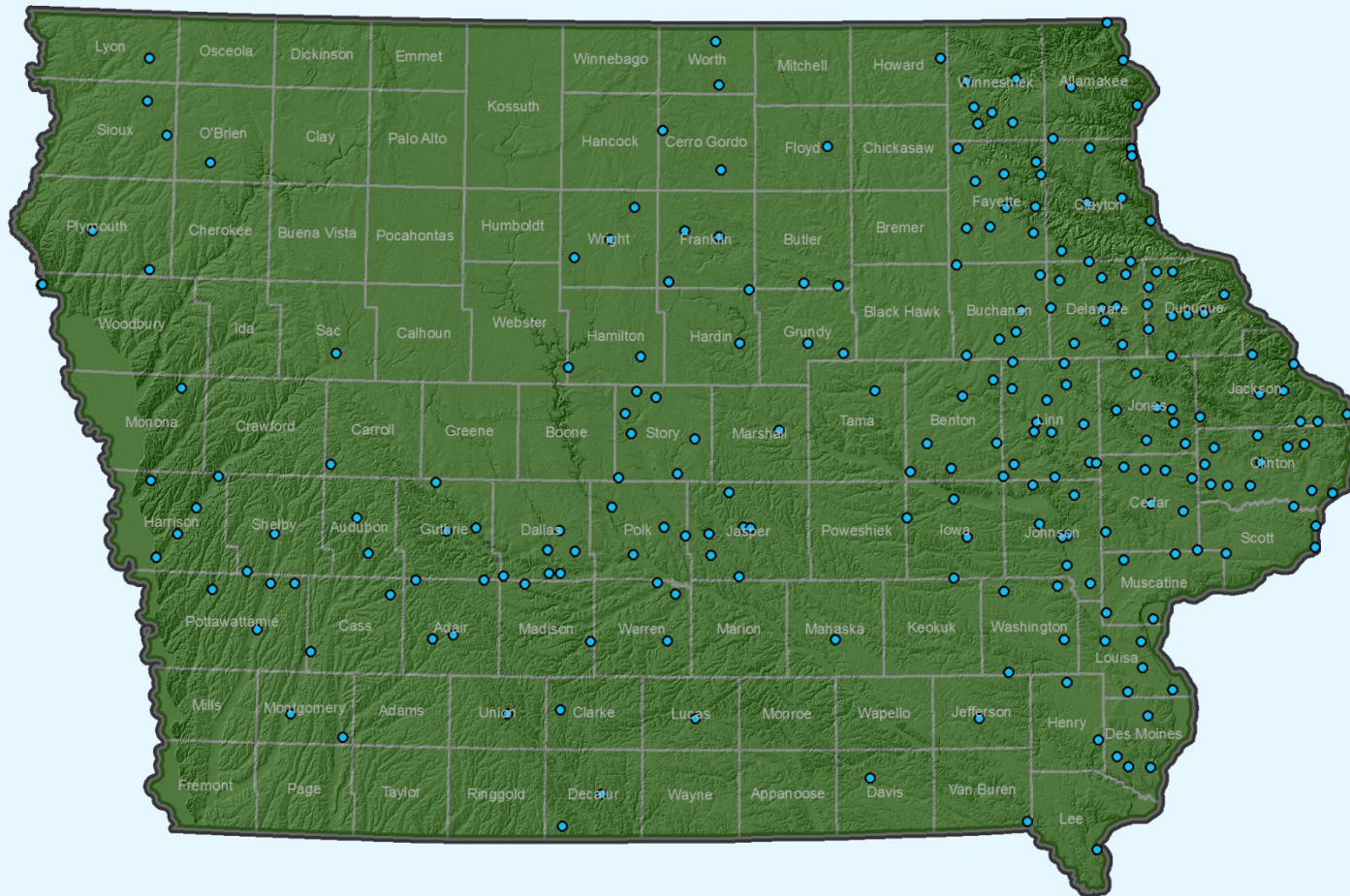
Locations of the 2013 EAB Visual Survey Locations



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

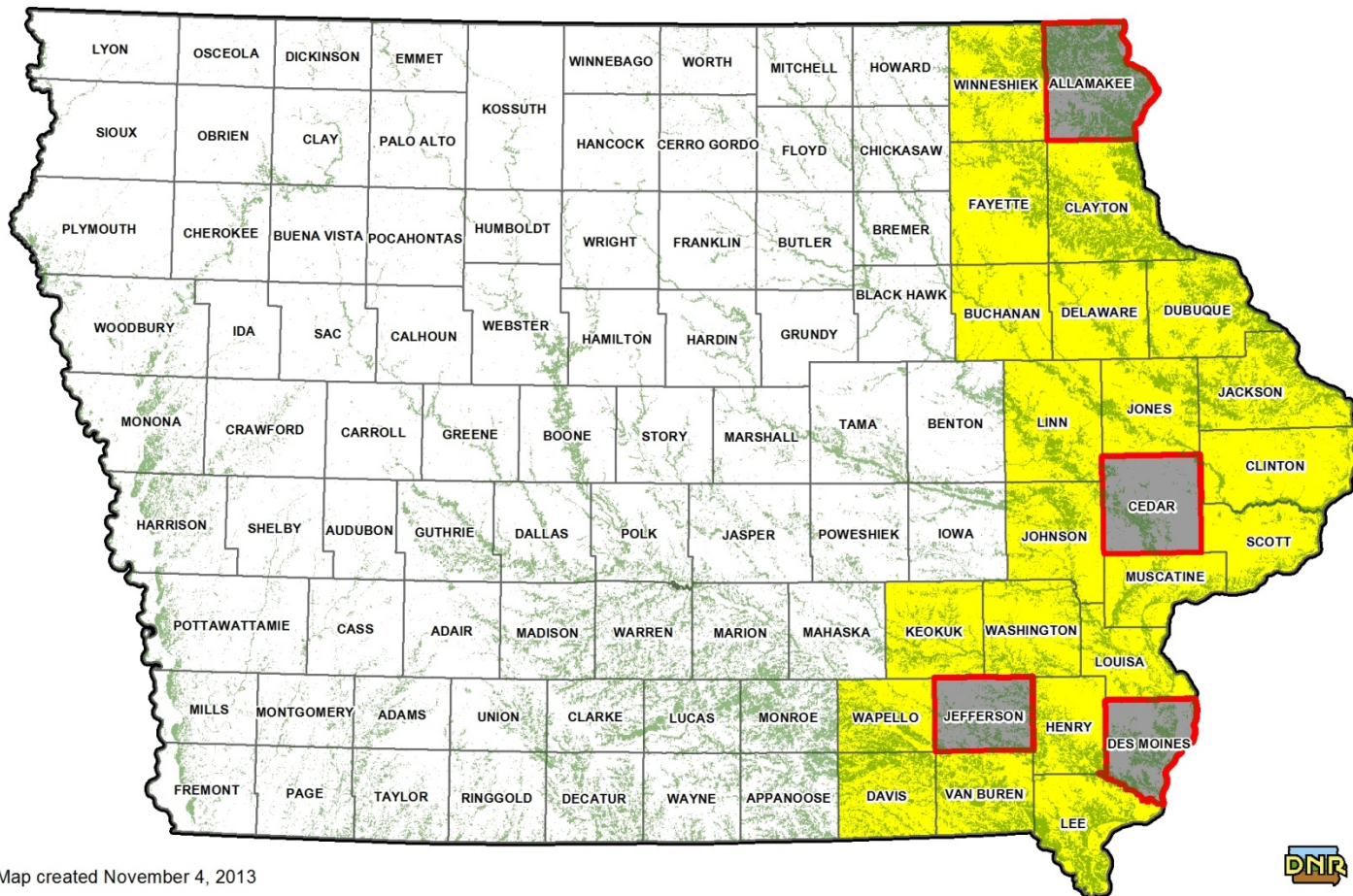


THERE ARE 242 COMMUNITIES WITH TREE INVENTORIES AND 180 HAVE FOREST PLANS.

EAB Quarantine Iowa

EAB Quarantine - November 2013

 Quarantine, Infested  Quarantine Due to Proximity  Not Under Quarantine



EAB Quarantine National

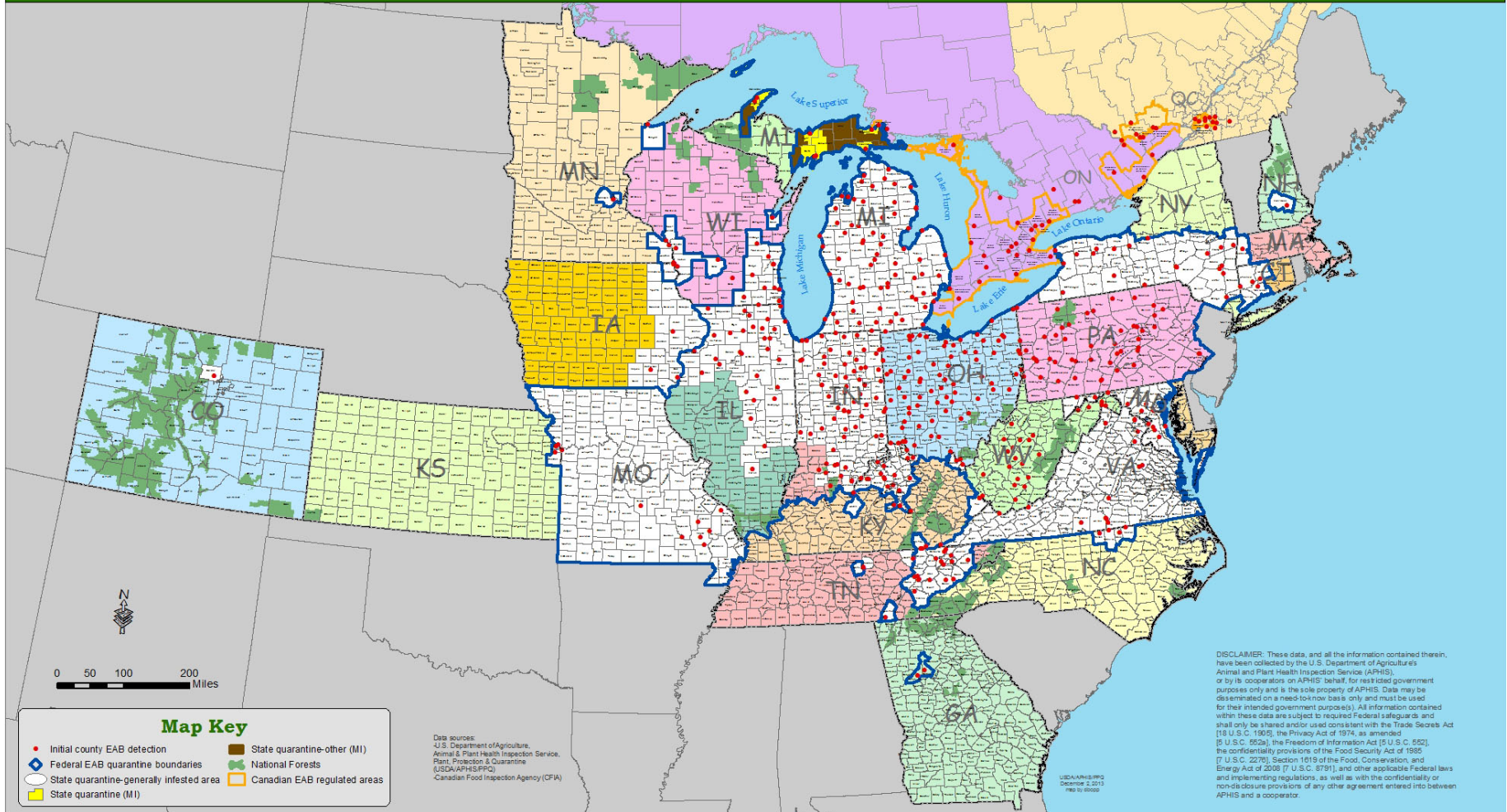


United States
Department of
Agriculture

Cooperative Emerald Ash Borer Project

Initial county EAB detections in North America

December 2, 2013

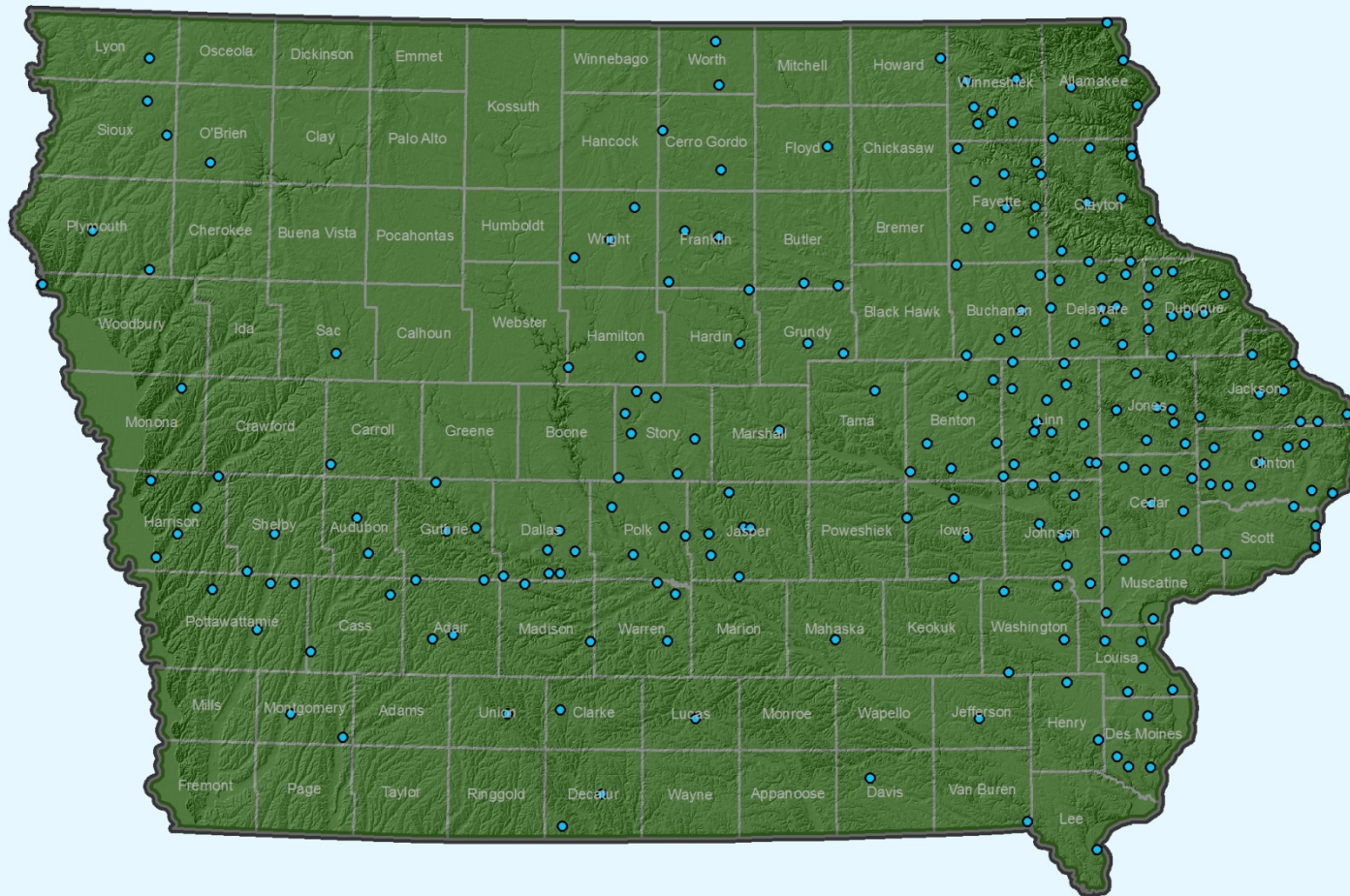


EAB Impacts

- 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

IOWA COMMUNITIES WITH INVENTORIES



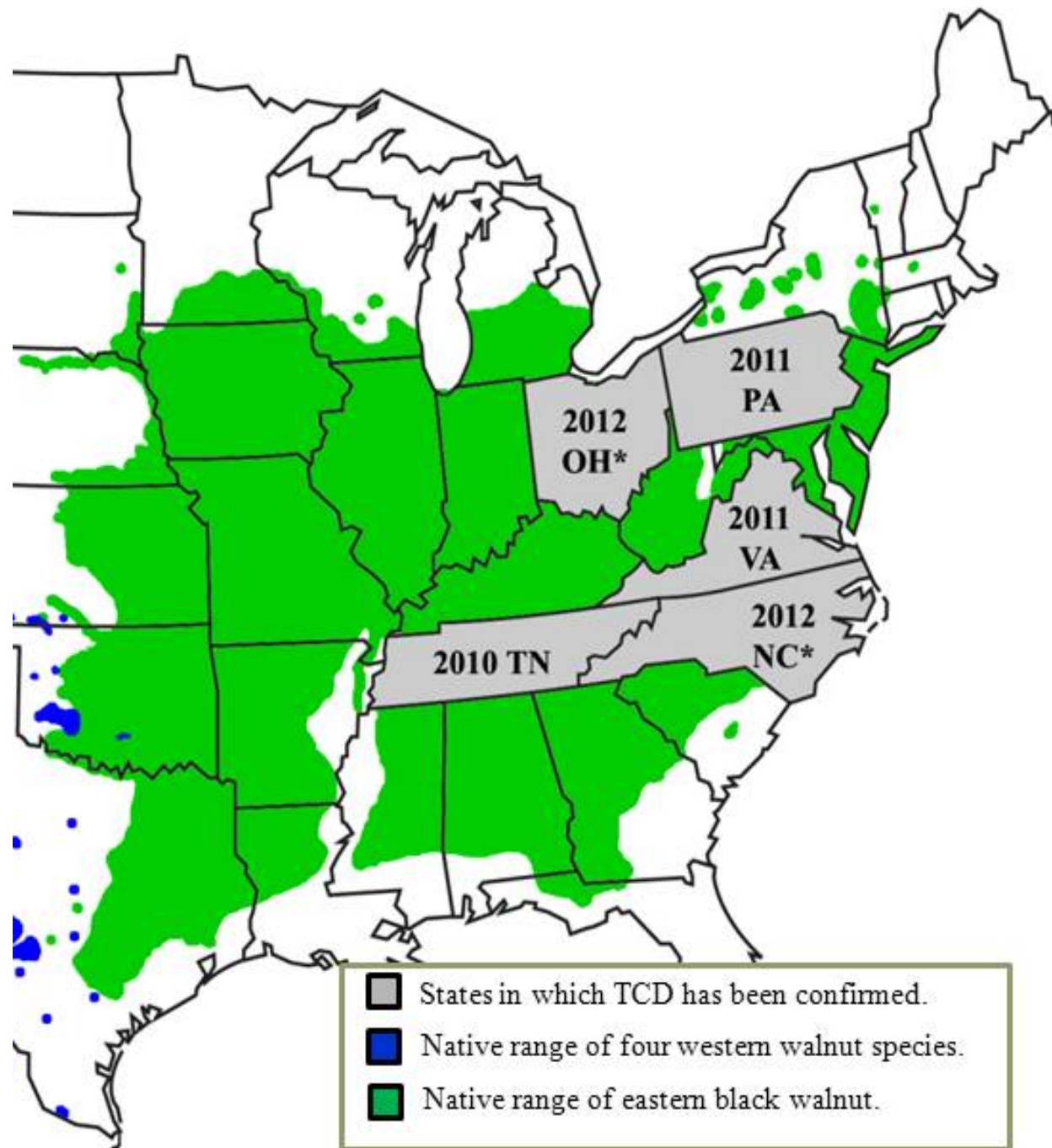
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Thousand Cankers Disease

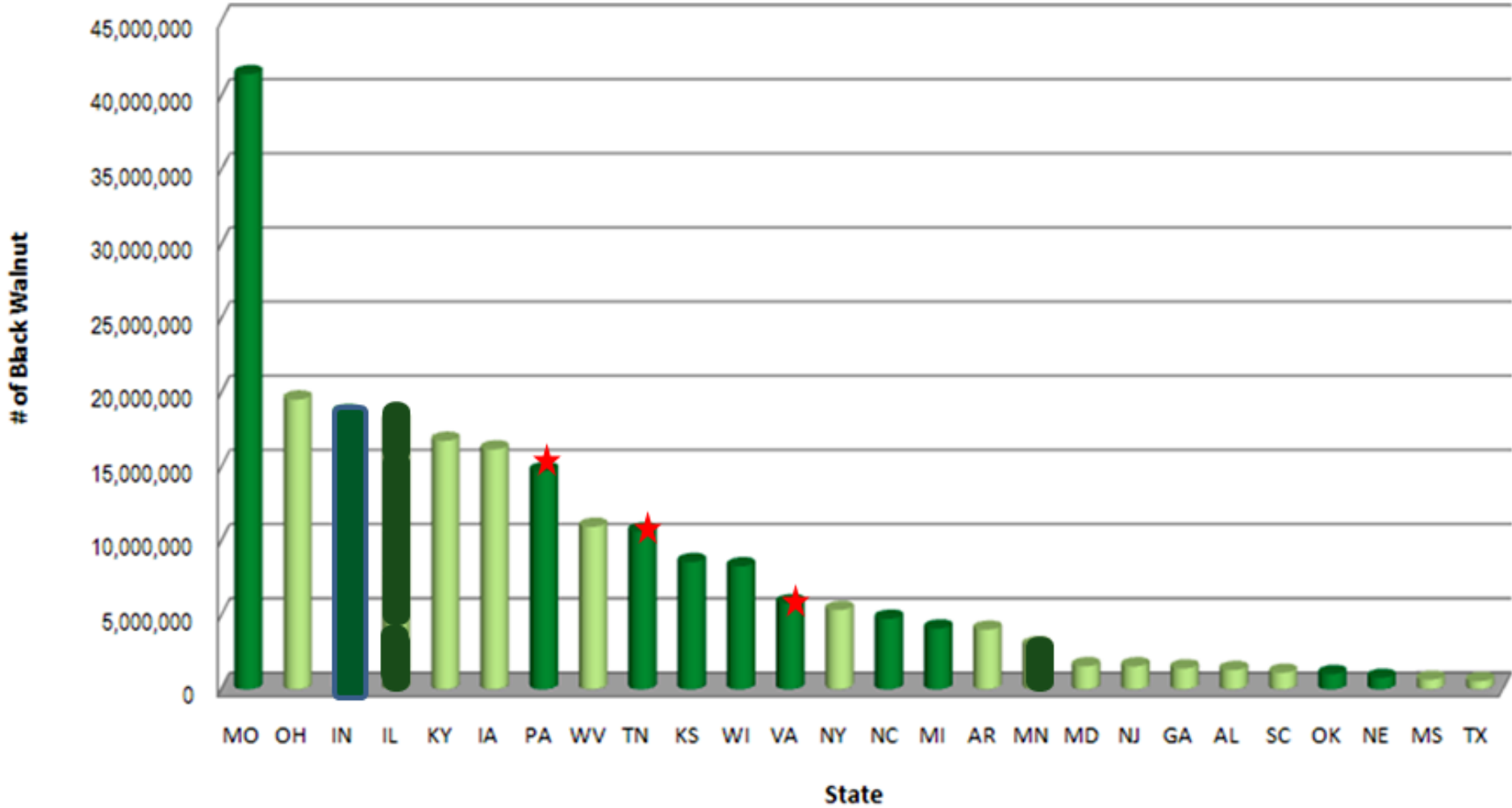
- Walnut twig beetle attacks on branches and bole
- *Geosmithia morbida* fungus causes a small canker at the WTB attack site.
- “1000’s” of cankers coalesce and progressively kill branches and bole.



TCD in the East



Forest Inventory Analysis - Number of Black Walnut Trees >5" dbh



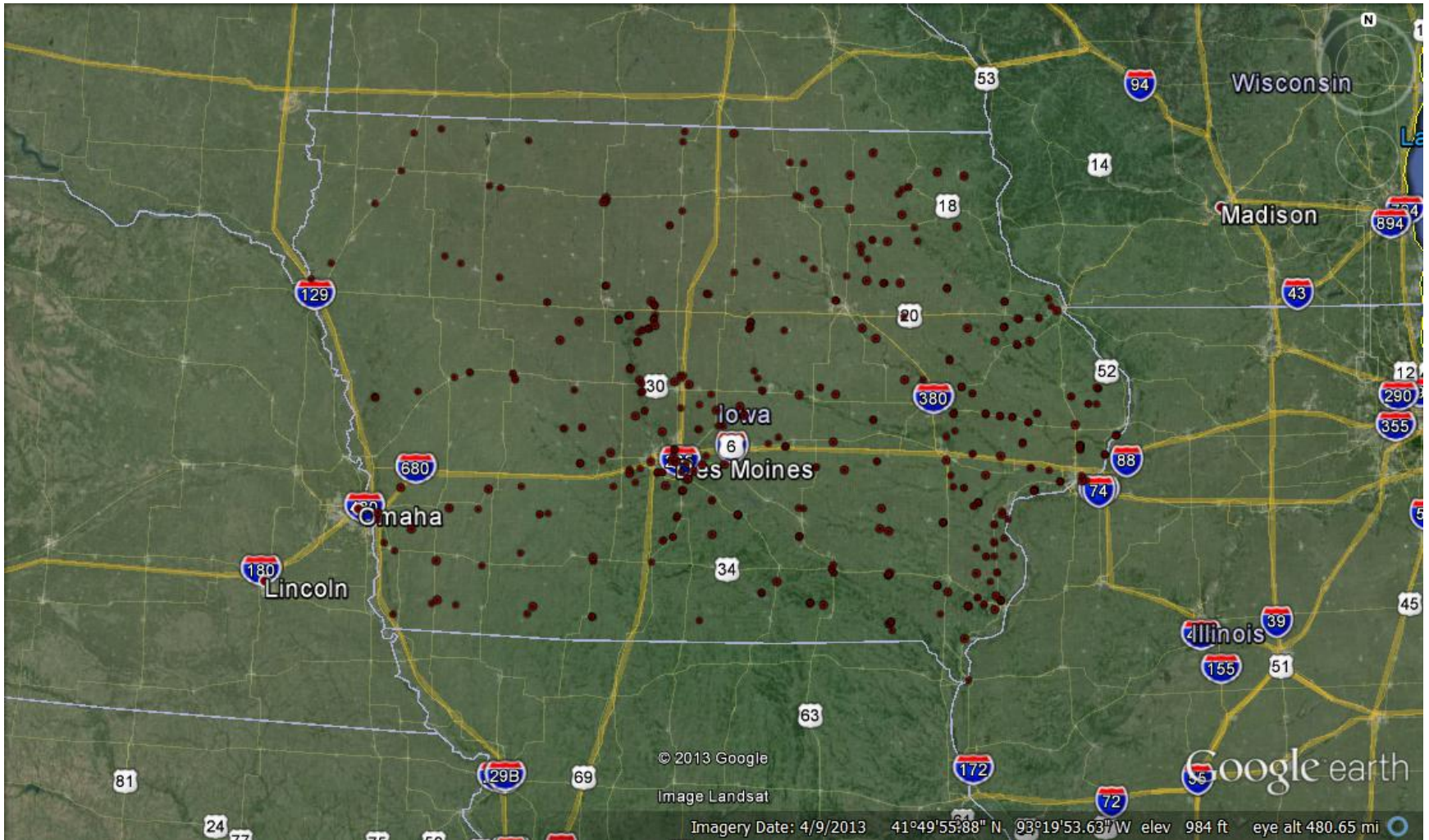
Example of Dry Funnel Trap



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

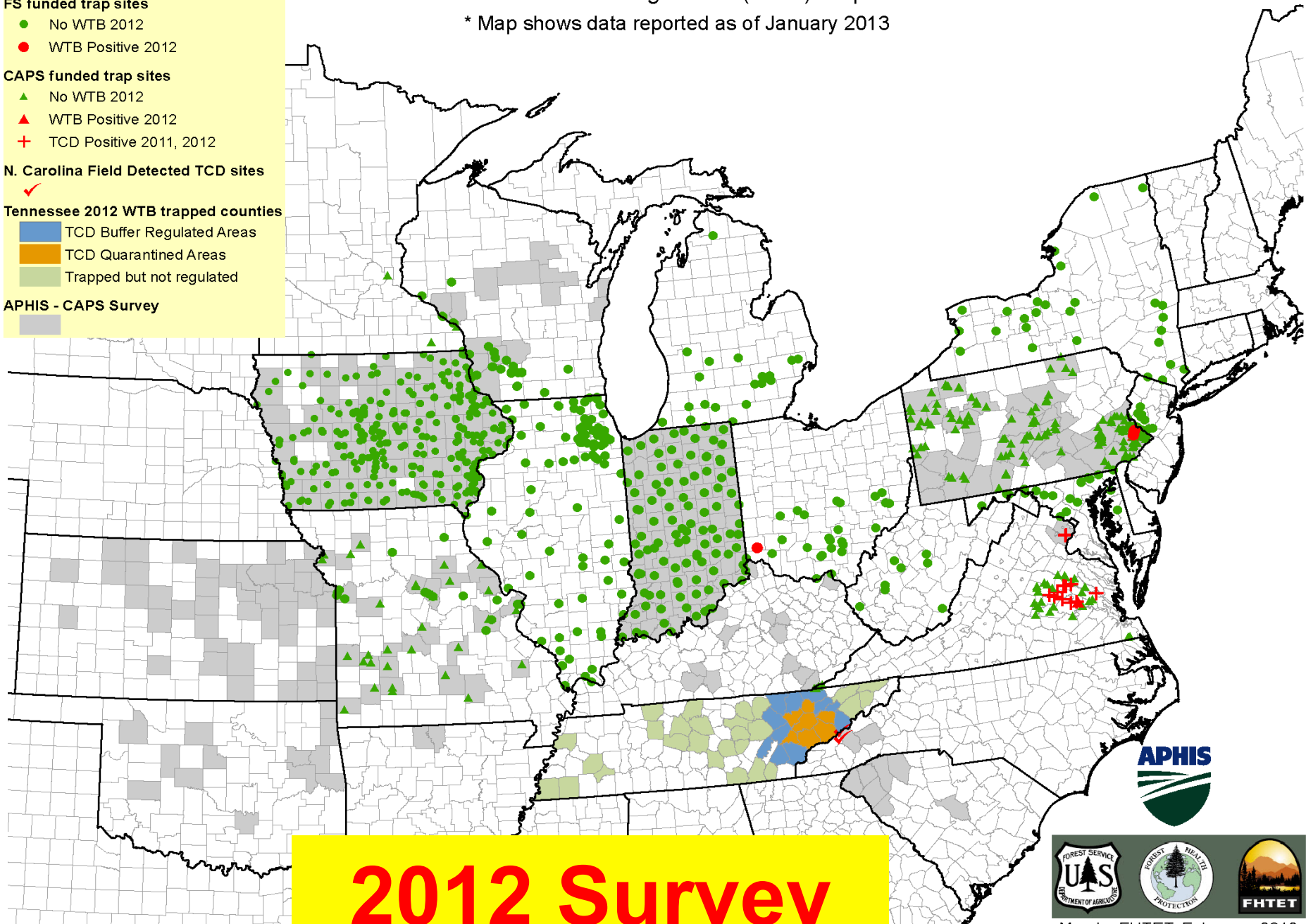
N. Carolina Field Detected TCD sites



Tennessee 2012 WTB trapped counties

- TCD Buffer Regulated Areas
- TCD Quarantined Areas
- Trapped but not regulated

APHIS - CAPS Survey



2012 Survey



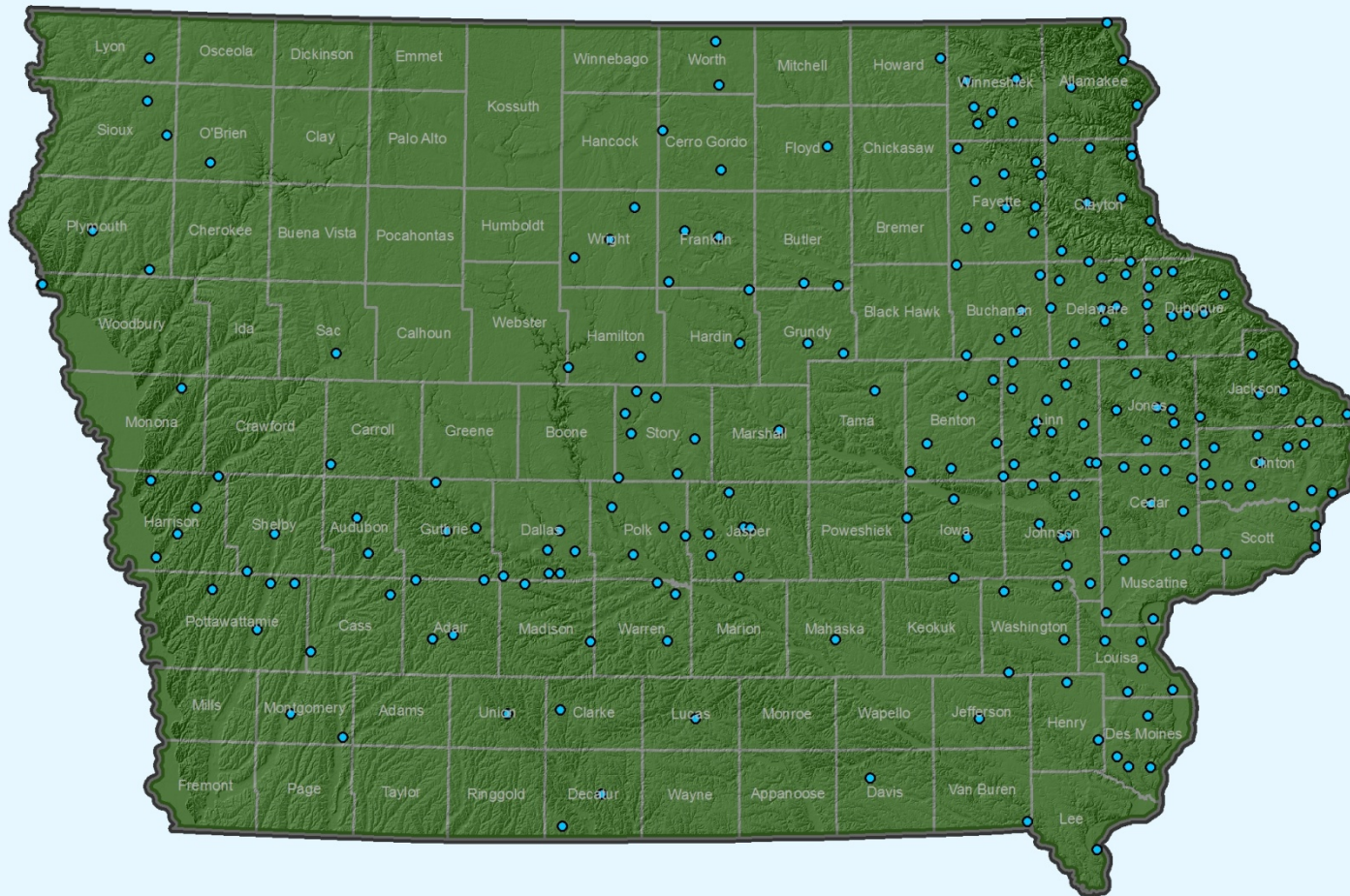
Map by FHTET. February 2013

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

IOWA COMMUNITIES WITH INVENTORIES



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Asian Longhorned Beetle



Asian Longhorned Beetle





Key Signs

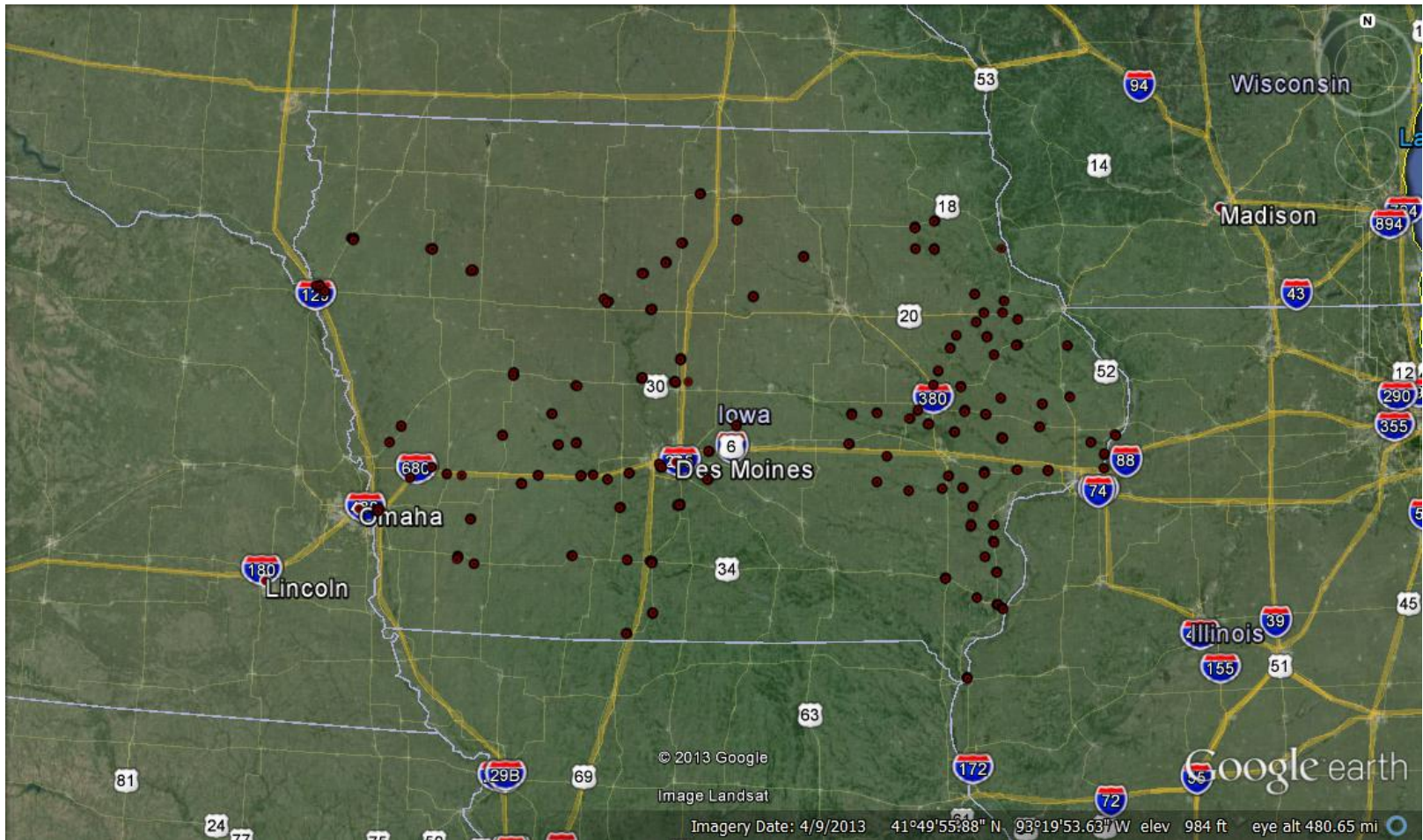
- large black beetle – white spots
- long antennae - B&W bands
- 3/8" round exit holes
- most likely on maples



Summary of ALB Infestations

	Detected	Status	# trees
New York	1996	Active (2010)	6224
Chicago	1998	Erad. - 2008	1551
NJ – Jersey City	2002	Erad. - 2008	113
NJ – Carteret	2004	Active (2006)	616
Worcester, MA	2008	Active	23,122
Bethel, OH	2011	Active	10,024

955 Maple Trees Examined in 2013



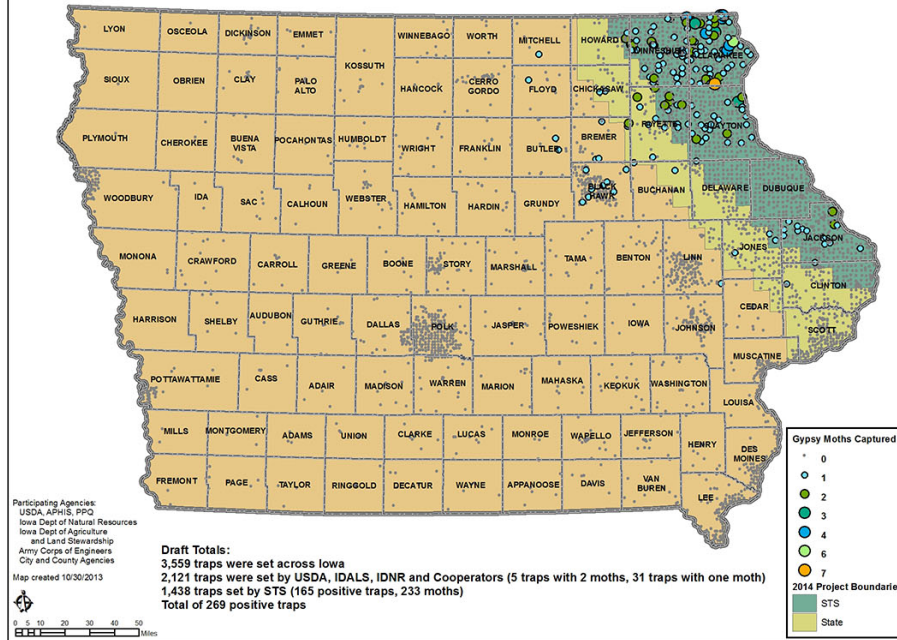
ALB Impacts

- 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.

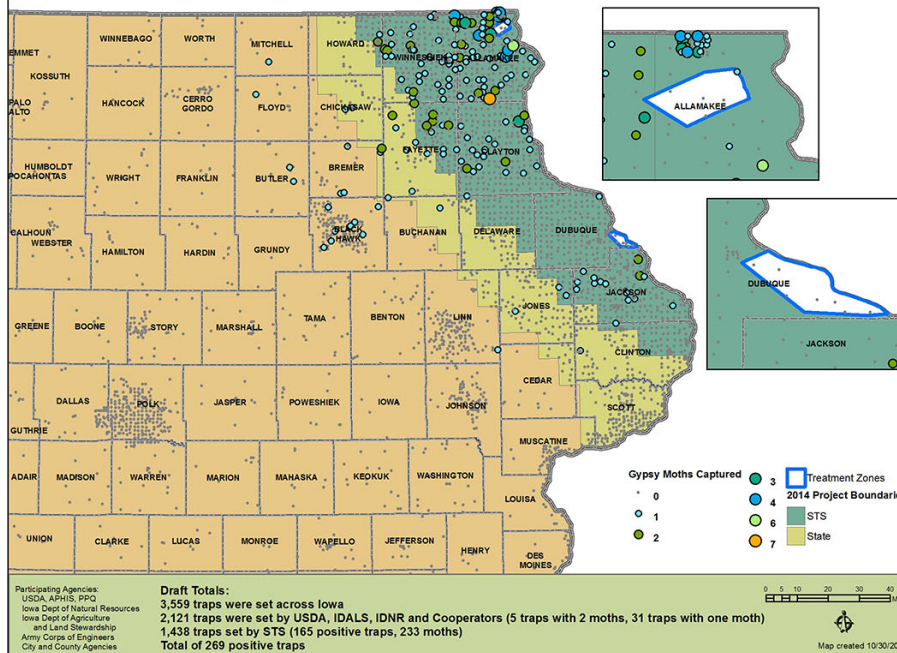
Gypsy Moth

- 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 Traps 2013



Gypsy Moth Traps 2013



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?

