

Emerald Ash Borer Quarantine and Regulations

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Plant Protection and Weed Control



Emerald Ash Borer



DAMAGE



Symptoms



What is the Purpose of a the EAB Quarantine?

- The intent of a quarantine is to slow the artificial(human-assisted) movement of EAB
- Items that may spread EAB are referred to as “regulated articles” and their movement is restricted by the quarantine

Spread vs. Detection

Spread:

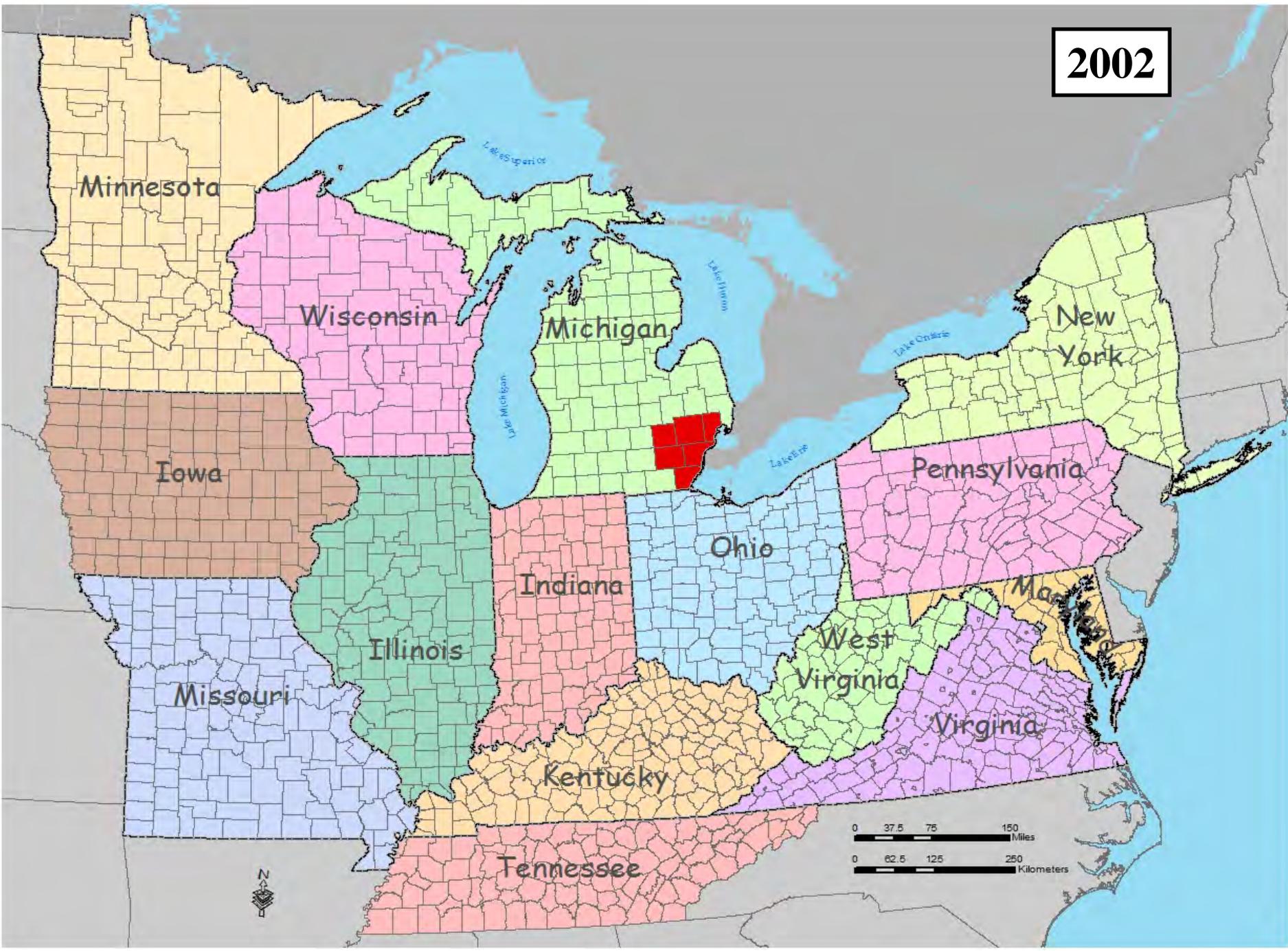
Defined as the movement or distribution over an area.

Detection:

Defined as the state or fact of being found



2002



Minnesota

Wisconsin

Michigan

New York

Iowa

Pennsylvania

Ohio

Indiana

Maryland

Illinois

West Virginia

Virginia

Missouri

Kentucky

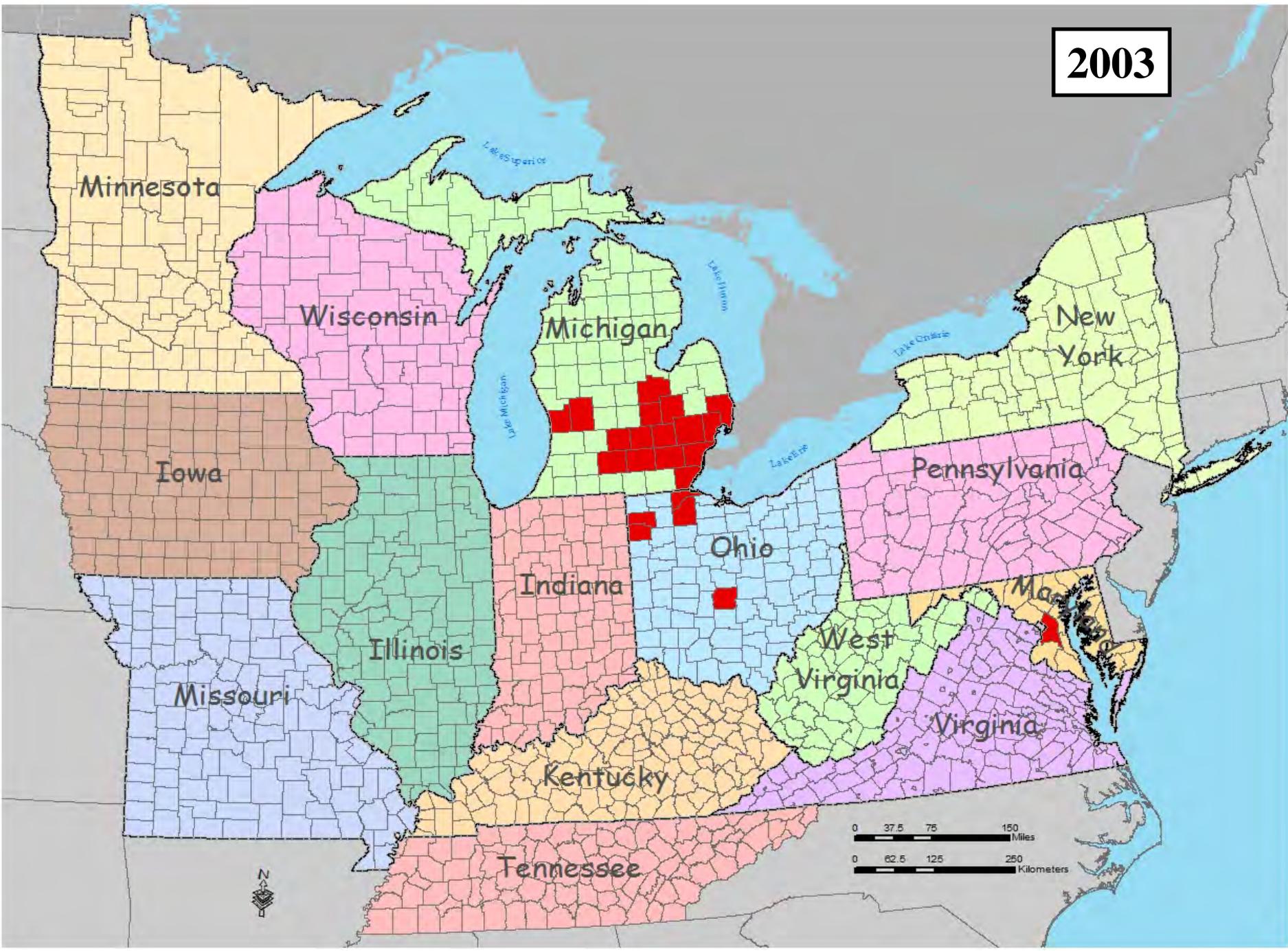
Tennessee

0 37.5 75 150 Miles

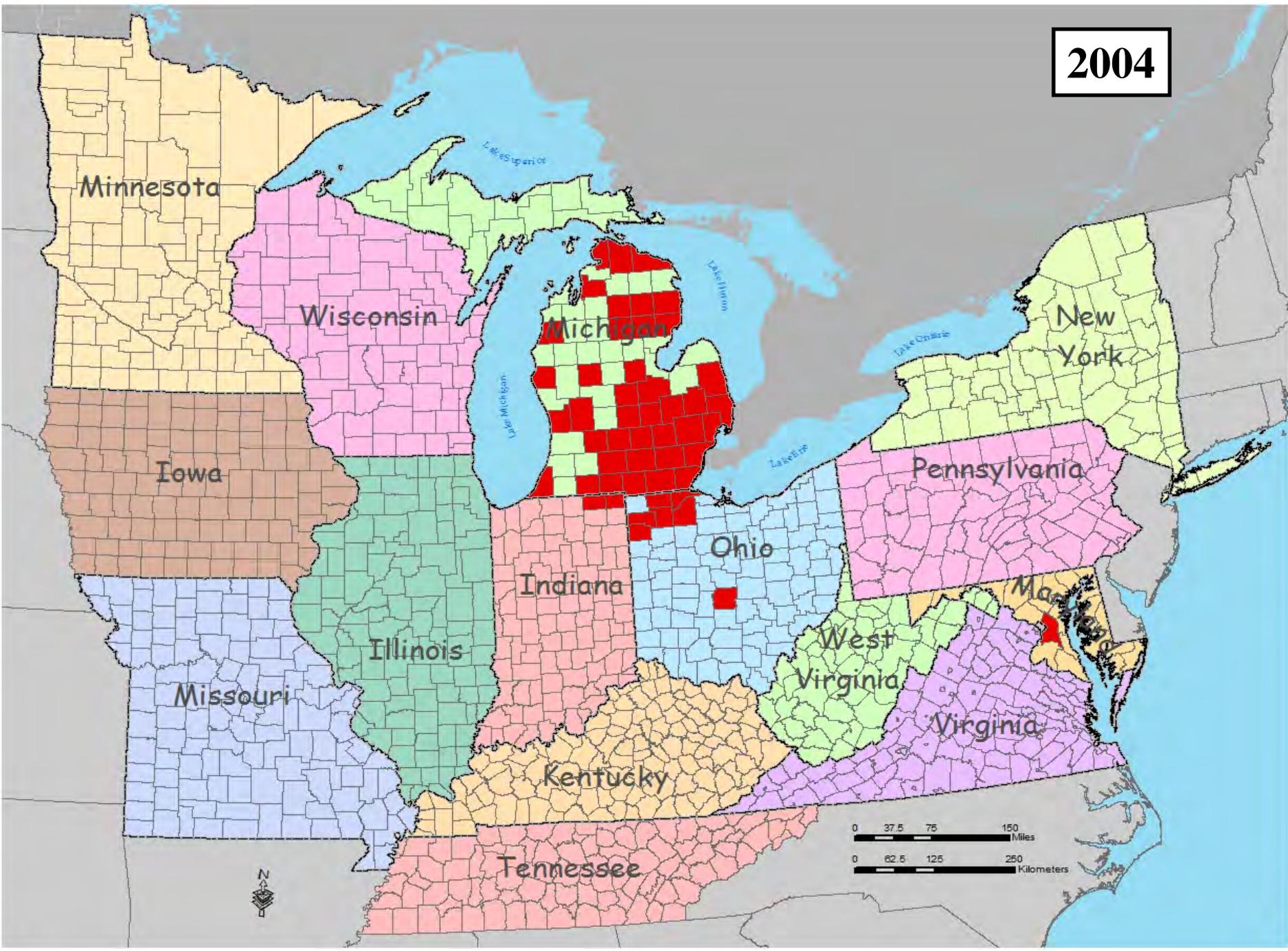
0 62.5 125 250 Kilometers



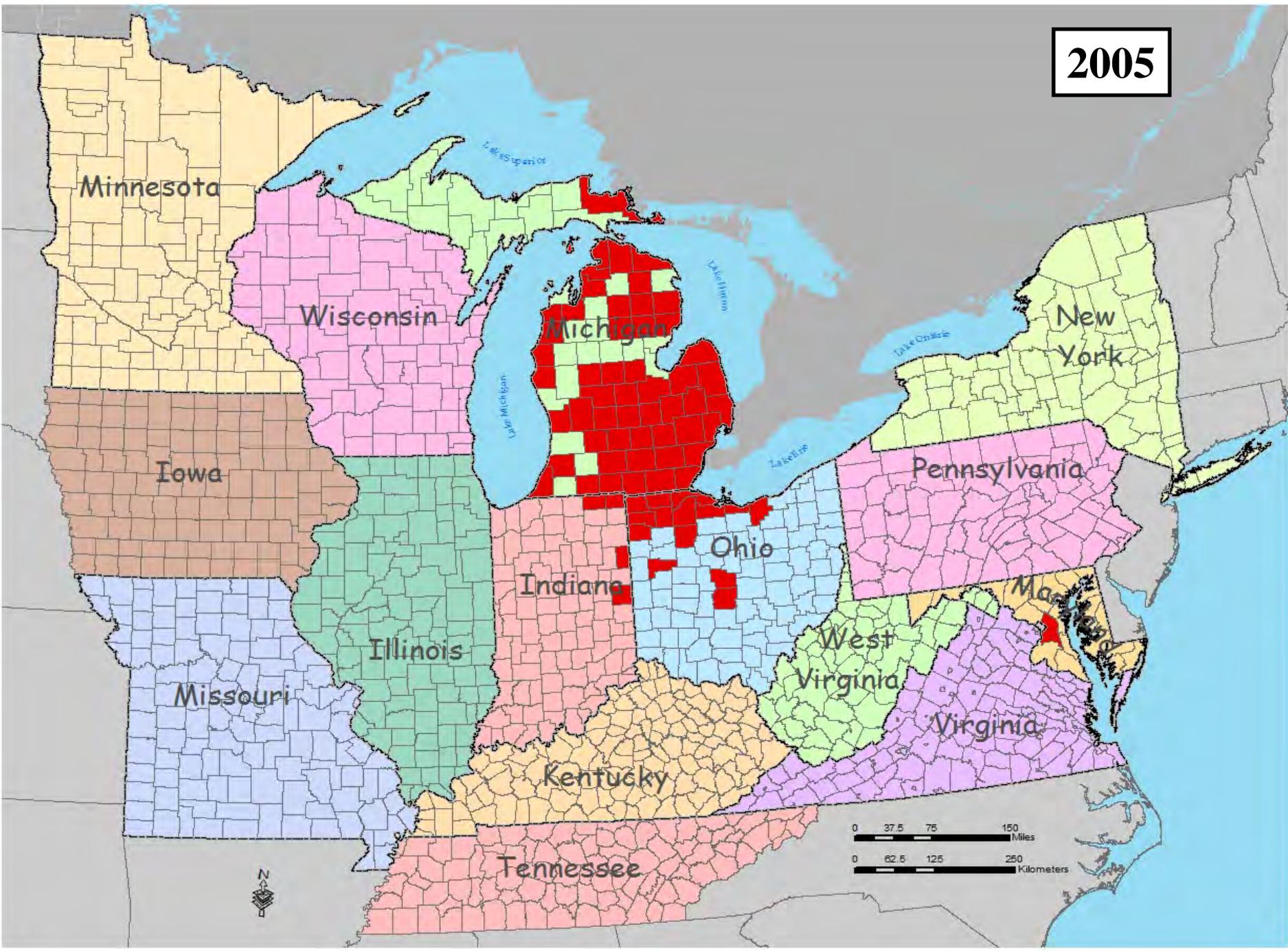
2003



2004



2005



Minnesota

Wisconsin

Michigan

New York

Iowa

Pennsylvania

Ohio

Indiana

West Virginia

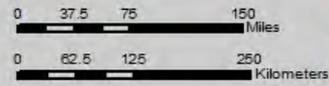
Illinois

Virginia

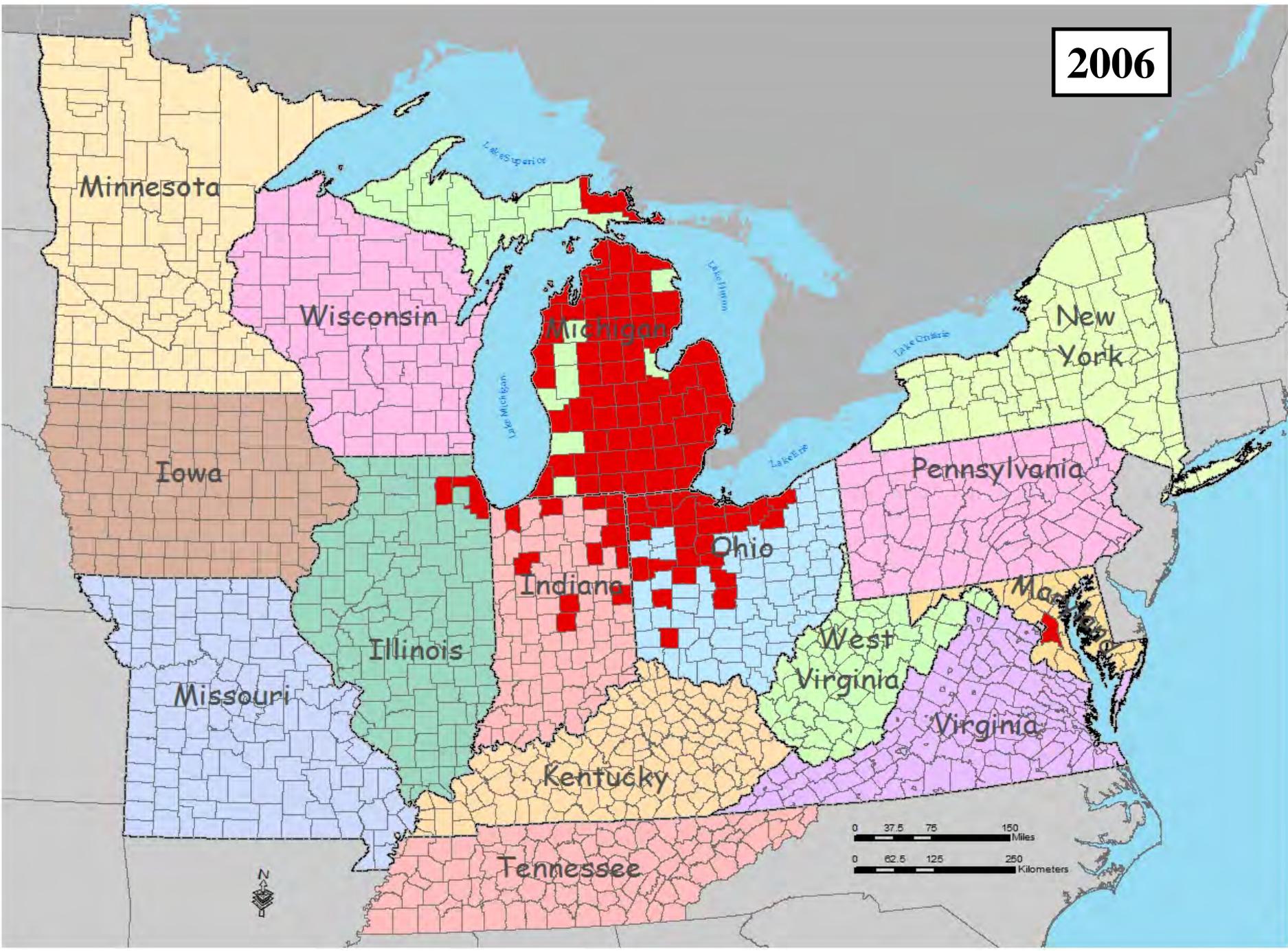
Missouri

Kentucky

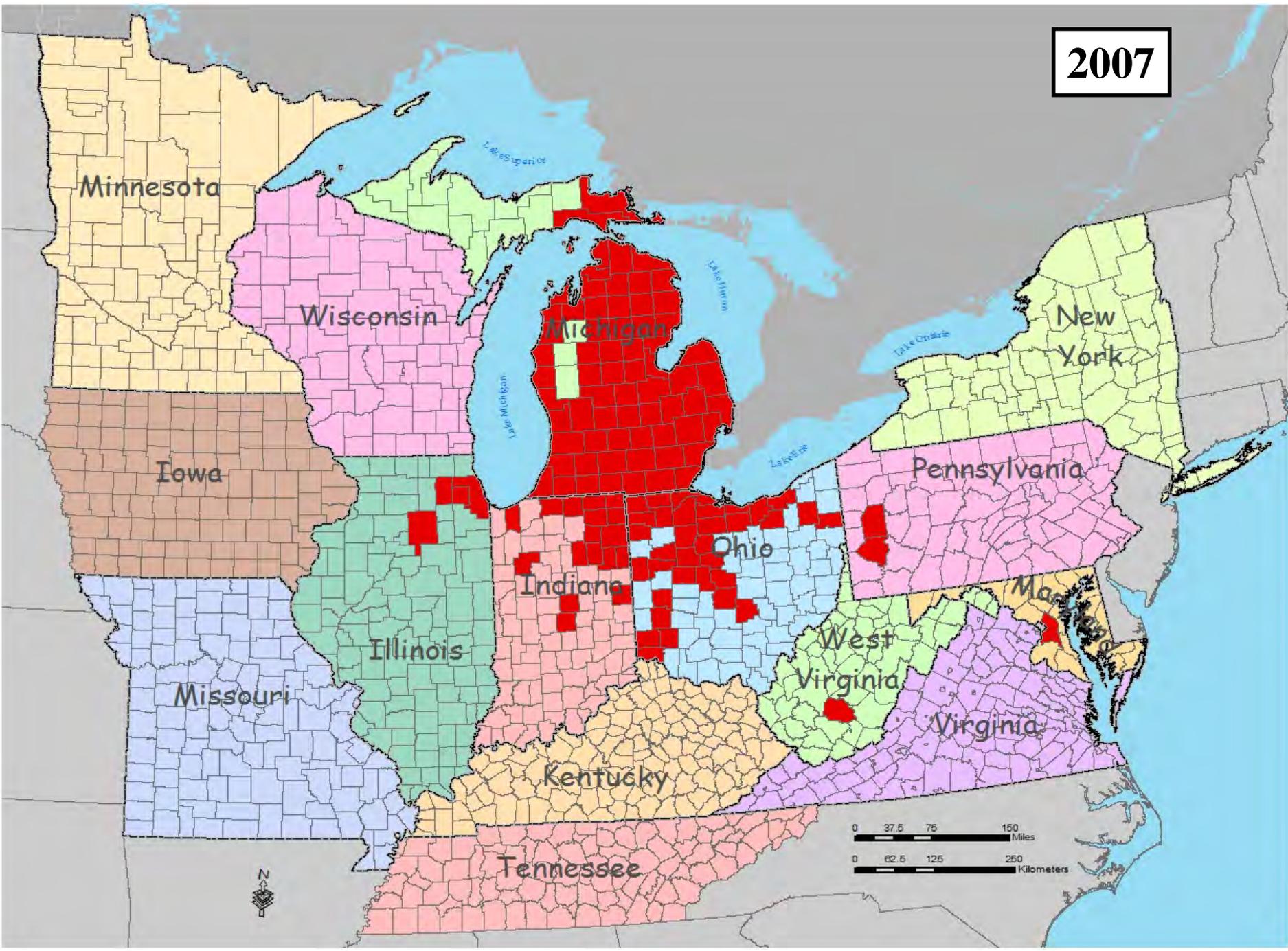
Tennessee



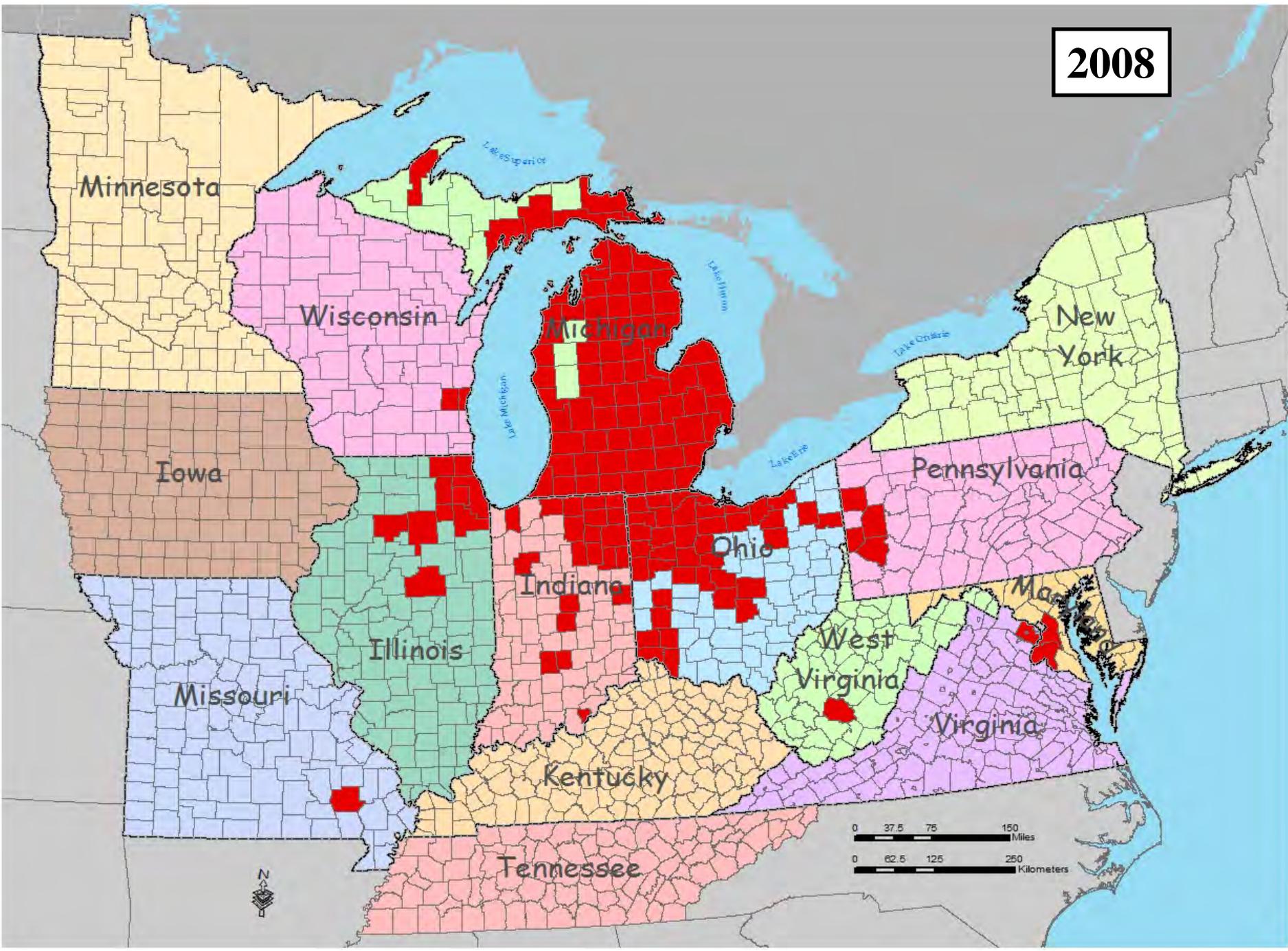
2006



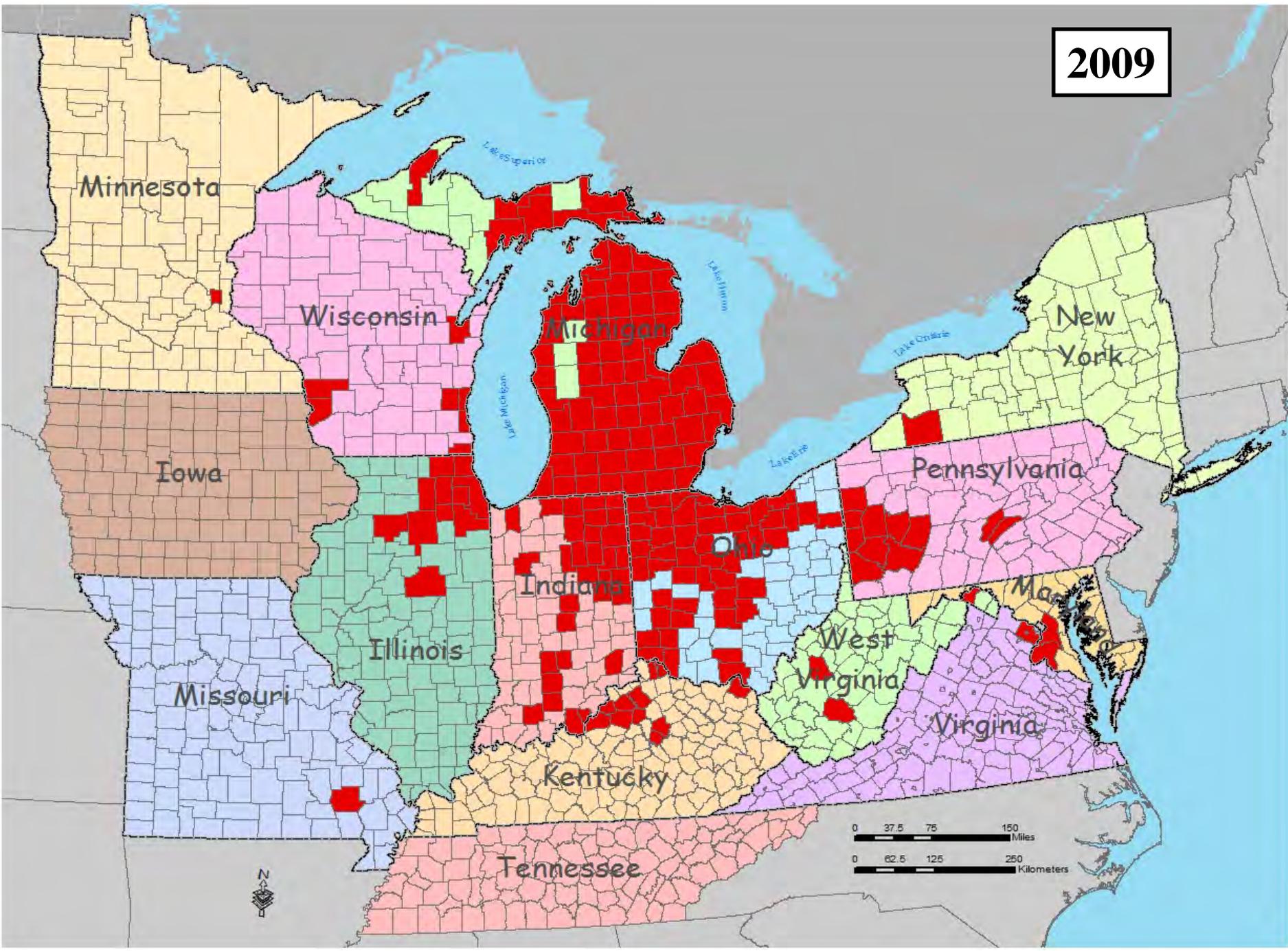
2007



2008



2009



Iowa

Wisconsin

Michigan

New York

Pennsylvania

Ohio

Indiana

Maryland

Illinois

West Virginia

Virginia

Missouri

Kentucky

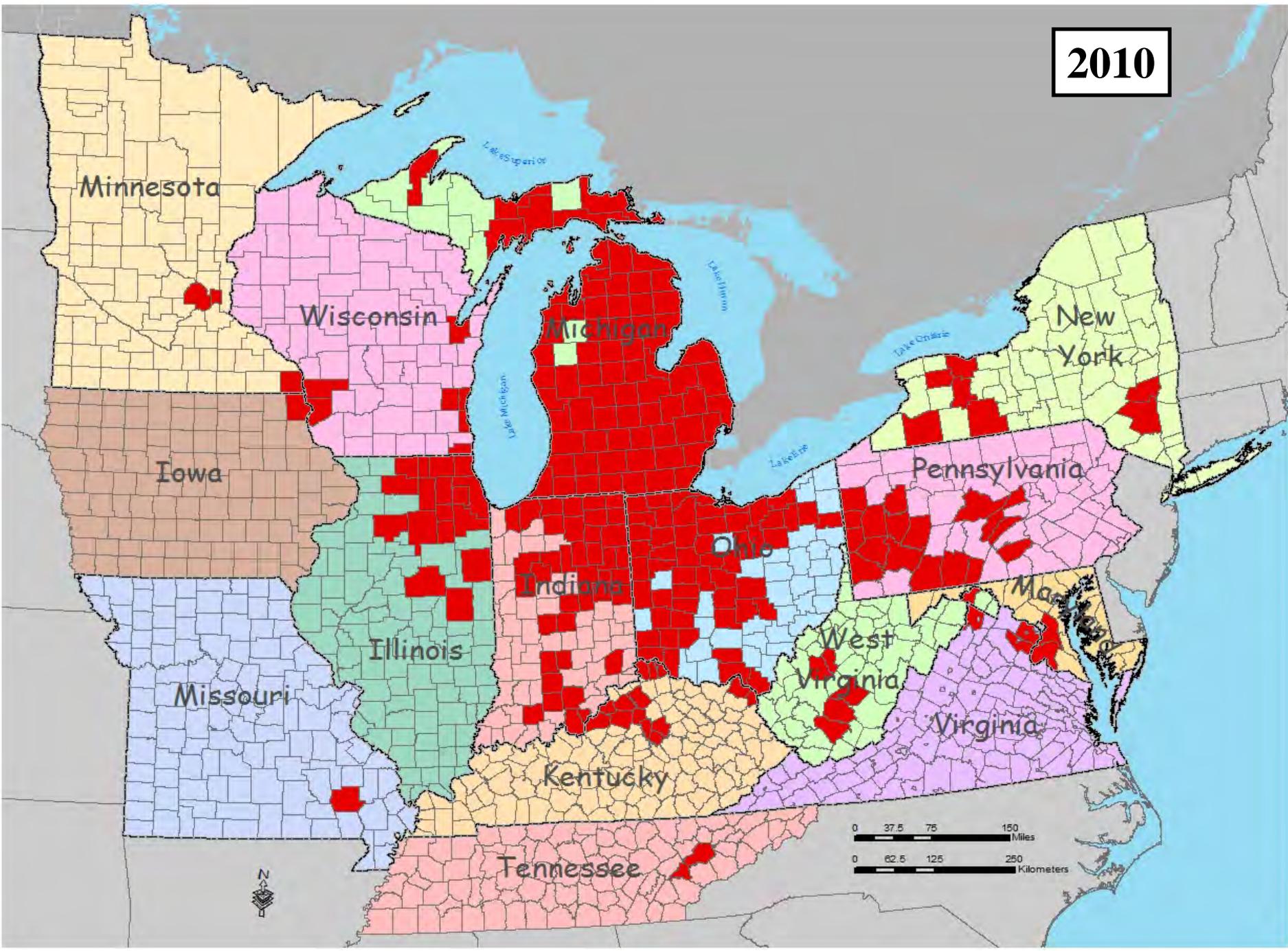
Tennessee

0 37.5 75 150 Miles

0 62.5 125 250 Kilometers



2010

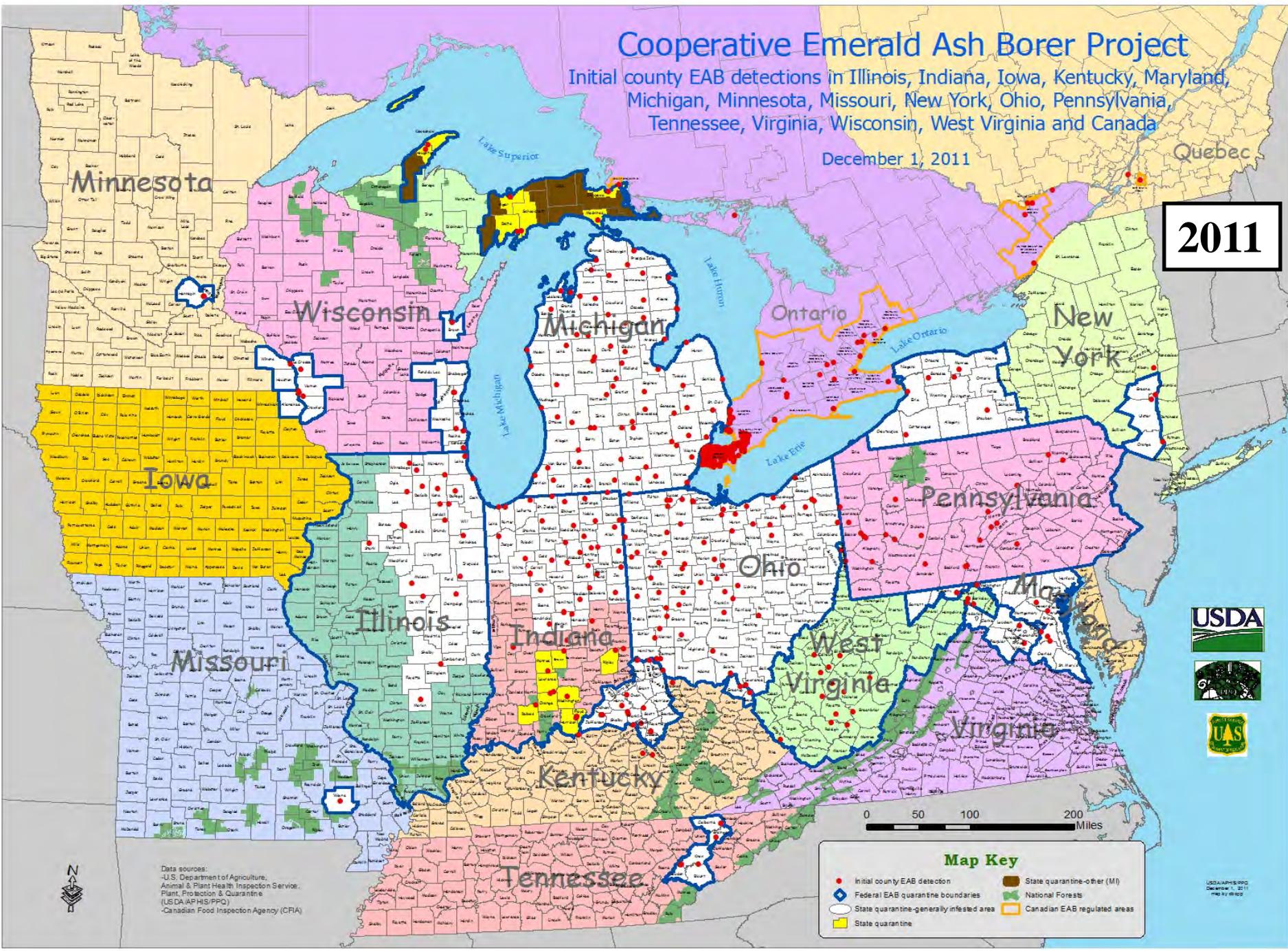


Cooperative Emerald Ash Borer Project

Initial county EAB detections in Illinois, Indiana, Iowa, Kentucky, Maryland, Michigan, Minnesota, Missouri, New York, Ohio, Pennsylvania, Tennessee, Virginia, Wisconsin, West Virginia and Canada

December 1, 2011

2011



Data sources:
-U.S. Department of Agriculture,
Animal & Plant Health Inspection Service,
Plant, Protection & Quarantine
(USDA/APHIS/PPQ)
-Canadian Food Inspection Agency (CFIA)

Map Key

- Initial county EAB detection
- ◆ Federal EAB quarantine boundaries
- State quarantine-generally infested area
- State quarantine
- State quarantine-other (MI)
- National Forests
- Canadian EAB regulated areas



0 50 100 200 Miles

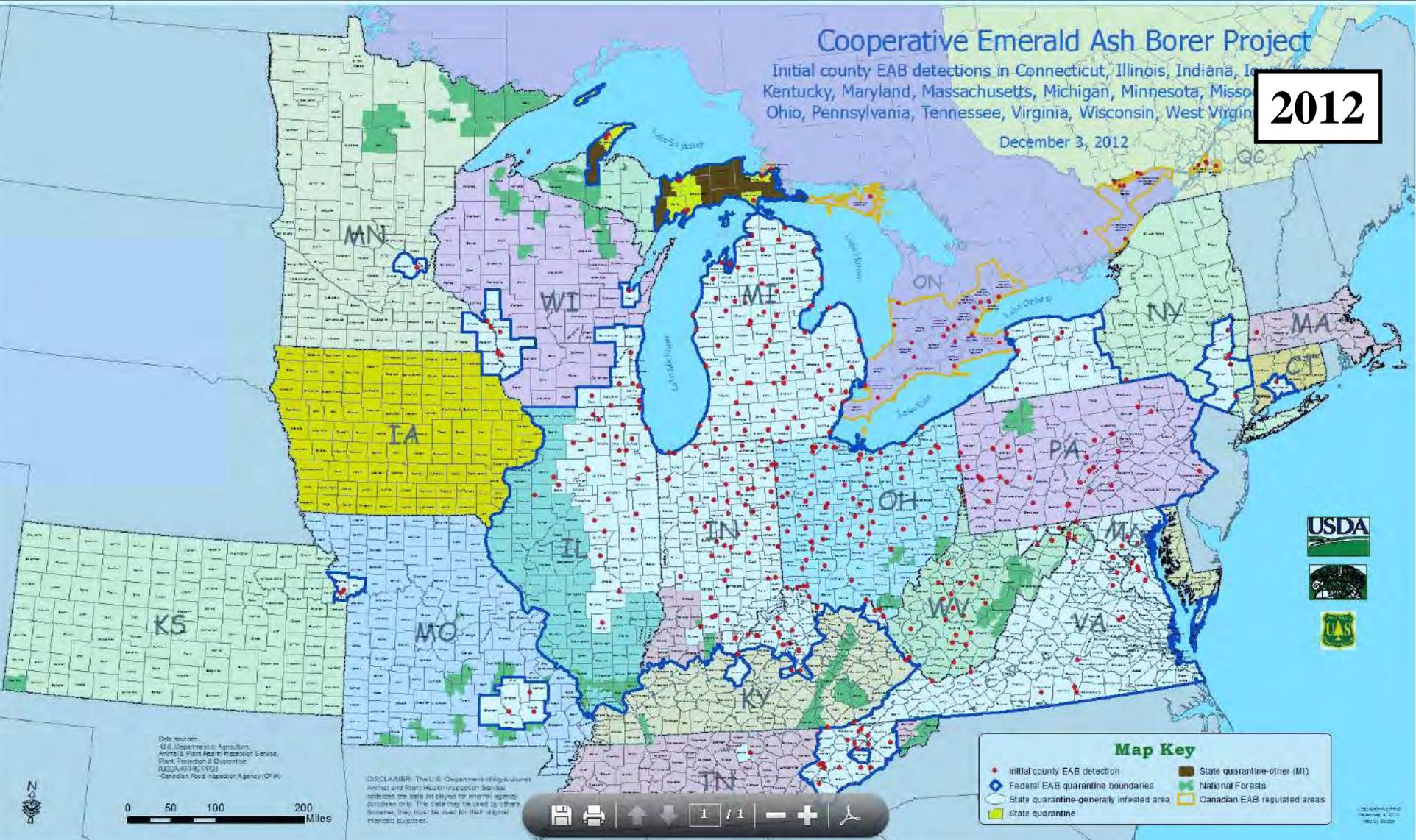
USDA/APHIS/PPQ
December 1, 2011
map by dlspp

Cooperative Emerald Ash Borer Project

Initial county EAB detections in Connecticut, Illinois, Indiana, Iowa, Kentucky, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Ohio, Pennsylvania, Tennessee, Virginia, Wisconsin, West Virginia

2012

December 3, 2012



Date source:
U.S. Department of Agriculture,
Animal and Plant Health Inspection Service,
Plant, Protection & Quarantine
(APHIS/PPQ)
Canadian Food Inspection Agency (CFIA)

DISCLAIMER: The U.S. Department of Agriculture's
Animal and Plant Health Inspection Service
collects the data displayed for internal agency
purposes only. This data may be used by others;
however, they must be used for their original
intended purposes.

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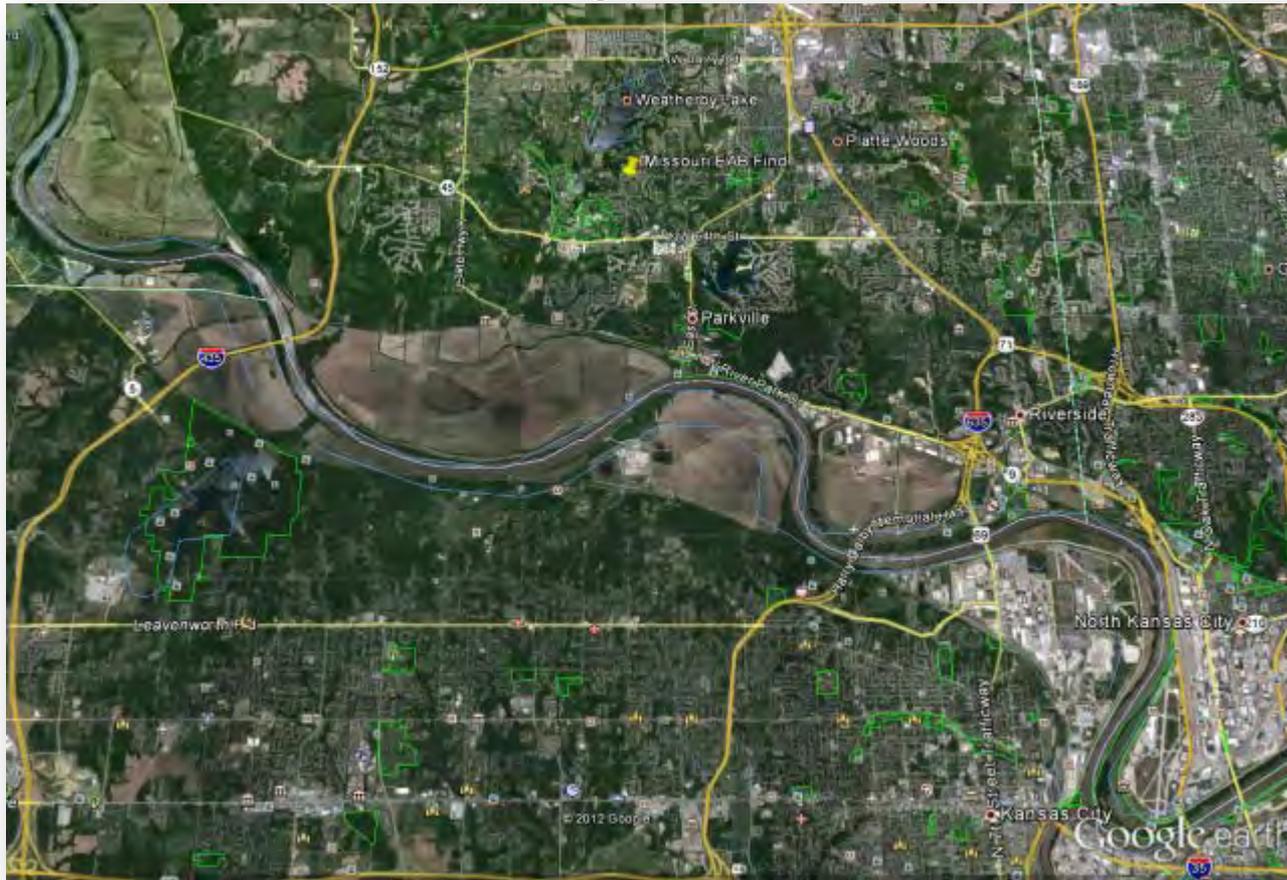
Navigation icons: Home, Print, Back, Forward, 1 / 1, Zoom In (+), Zoom Out (-), Refresh

Platte County Detection



Platte County Detection

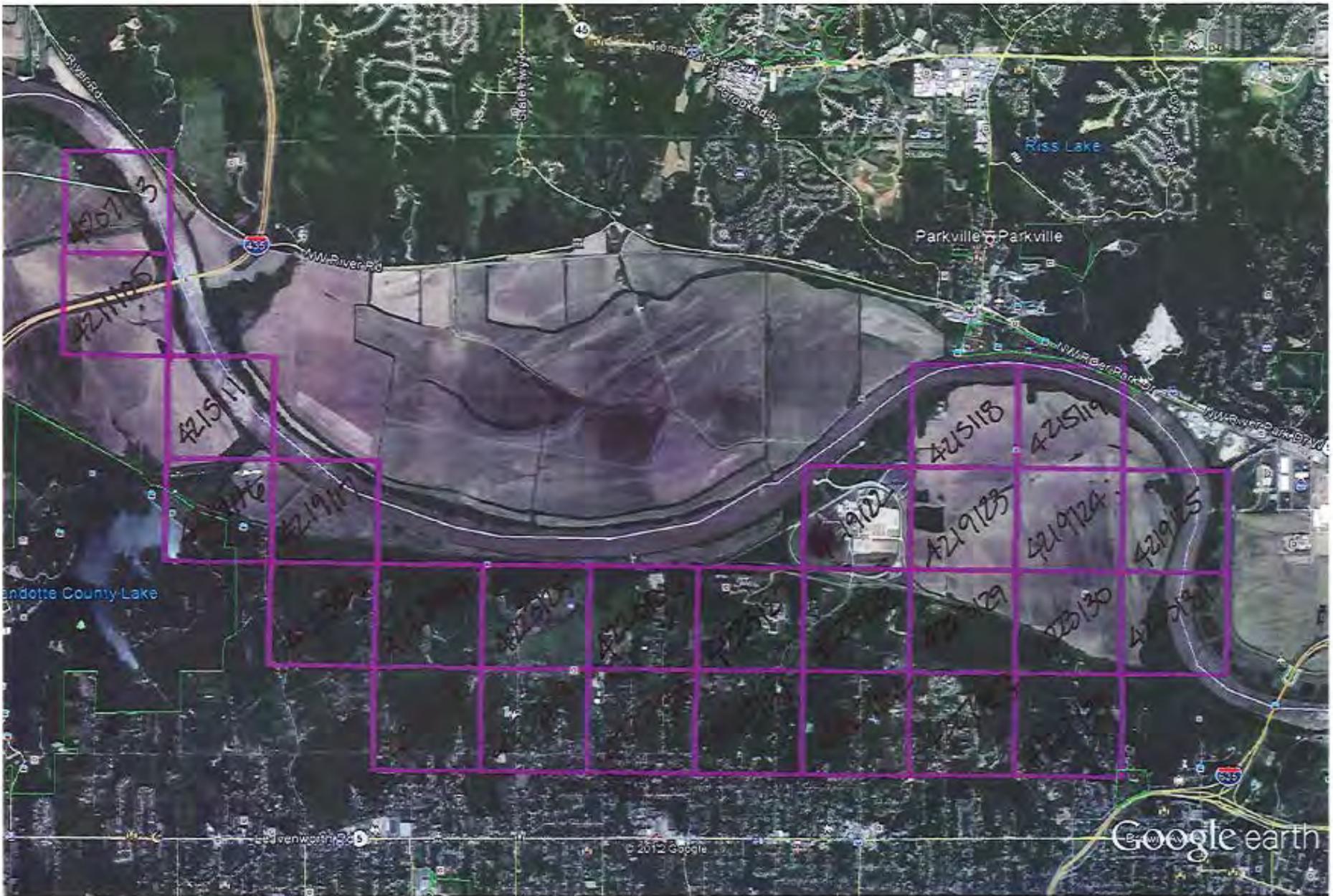
- Missouri Confirmed EAB detection near Parkville on July 20th.



Strategy after MO Detection

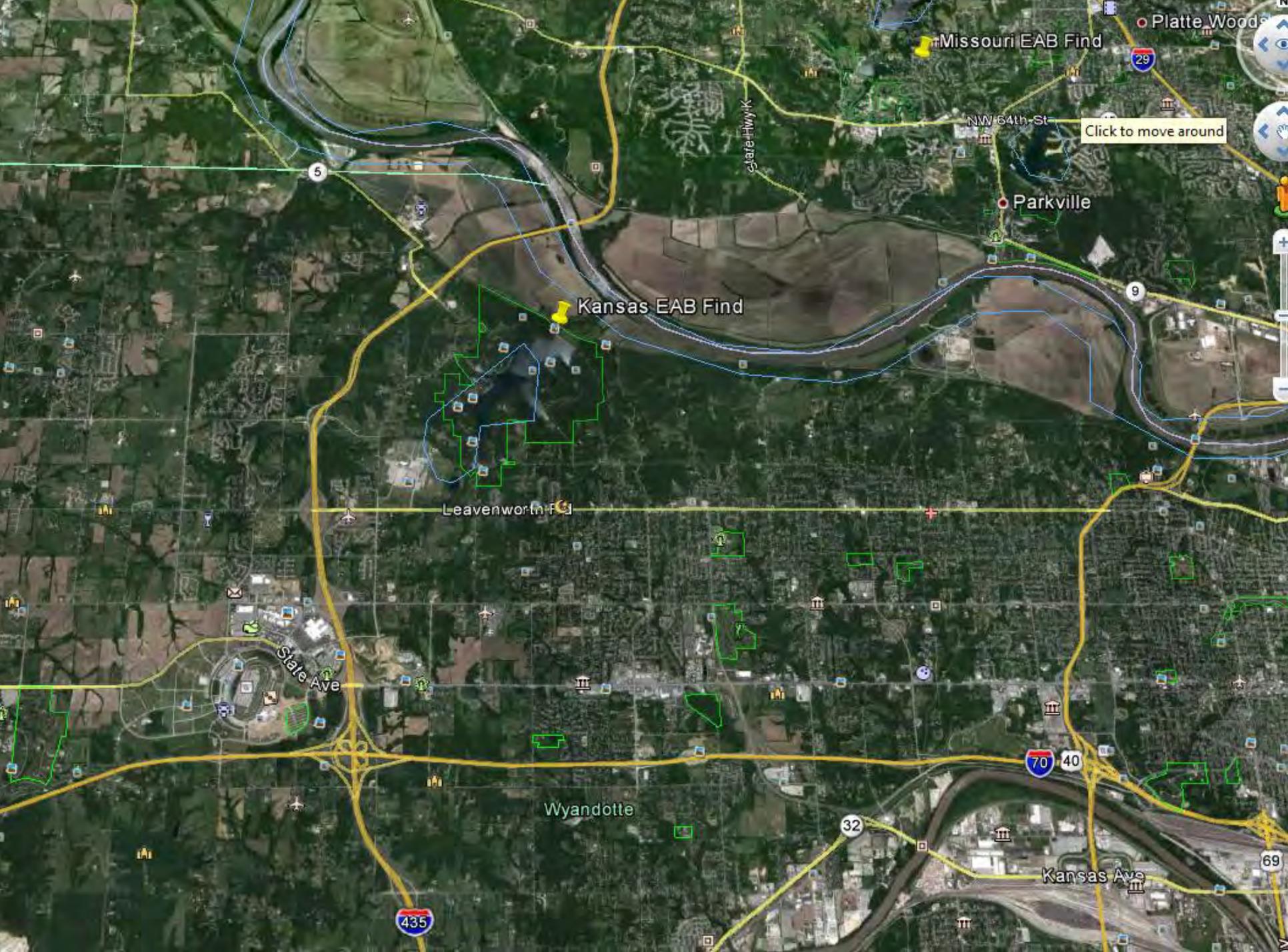


- Cooperating with partners as detailed in the EAB response plan.
- Establish “hotline” for EAB reports.
- Follow up on those reports using:
 - KDA staff
 - KFS staff
 - Local Extension Agents
- Evaluate ash trees removed from Wyandotte County.
- Based on detections in MO, conduct an delimit survey within a 5-6 mile zone.



Google earth





Click to move around

Missouri EAB Find

Platte Woods

NW 64th St

Parkville

Kansas EAB Find

Leavenworth F.

Slate Ave

Wyandotte

Kansas Ave

435

70 40

32

69

5

9



▶ Kansas EAB Find











Symptoms of EAB...

- No insects recovered at site...only symptoms.
- Erin Stiers, USDA, sent sample to Brighton for analysis.



Confirmation

- After a two week vacation, Brighton staff recovered 4 EAB larva.
- Confirmed on August 29th.
- Enacted “Emergency” quarantine of Wyandotte County in response.
- What did we learn? – Importance of a complete bark peel.

Next Steps

- Conference call announcing detection and confirmation with stakeholders.
- Additional Delimit Survey
- Public Outreach
- Implement Quarantine
- Not considering eradication

Delimit Survey

- Utilized the National EAB 1 km survey grids.
- Attempted to survey 20 trees in each grid.
- When possible, branch sampling was used to assess trees.
- Survey focused on:
 - 3, 4, and 5 mile zones around KS and MO detections
 - Marshaling yards
 - Area surrounding Kansas Speedway

Survey Results

- Demonstrated the difficulty with visual survey: “Finding a needle in a haystack”
- No new detections at this point.



Public Outreach

- Working with other agencies: USDA, KFS, KSRE, MDA, and MDC.
- Following up on reports using KDA staff or detector network.
- Holding meetings with Municipalities to share potential impact of EAB.
- Updating webpages.

EAB Quarantine

- KDA enacted an emergency intrastate quarantine for Wyandotte County on August 29th.
- Permanent quarantine enacted on November 9th.
- Restricts the movement of regulated articles from Wyandotte County, with the exemption of adjacent quarantined counties.

EAB Quarantine

- USDA followed with a federal order to Quarantine Wyandotte County.
- Working jointly with USDA, MDA, to implement.
 - One compliance agreement will work on both sides of the state line.

What is an EAB Regulated Article?

- EAB, *Agrillus plannipinus*, at any life stage
- All hardwood firewood
- Ash chips and mulch
- Green lumber and any other material living, or dead, cut, or fallen, including logs, stumps, roots, branches of the species *Fraxinus* (ash)
- Ash nursery stock



How to Move EAB Regulated Articles Outside of a Quarantine Area

- A **Certificate** (PPQ Form 540) is issued when regulated material has been treated and is allowed to move freely to any destination.
- A **Limited Permit** (PPQ Form 530)is issued for non-treated regulated articles, that permits the movement to a limited or specific destination for specified handling, utilization, or destruction
- A USDA EAB compliance agreement will need to be in place to use a **Limited Permit** or a **Certificate**

What is a Compliance Agreement?

- It is an official agreements between business/individual and state/federal regulatory agency (USDA/MDA/KDA)
- The document specifies the conditions to be followed for growing, handling or moving regulated articles to reduce risk of spreading the pest to an uninfested area
- Treatment requirements are dependent on type of operation (tree trimmer, mill, firewood, logger, mulch/yardwaste, etc.)
- Properly treated material can move, with permit, certificate, and compliance agreement

Examples of EAB Compliance Agreement Conditions

- Transport ash logs only during the non-flight season
- Maintain the identity of the logs at all times
- Debark logs and remove an additional ½ inch of the wood
- Grind mulch and wood chips to less than 1 inch in 2 dimensions
- Produce lumber that has no bark or wane on it

Major Stakeholders Affected

- Logging Industry – movement of ash logs
- Milling and manufacturing – processing ash logs
- WPM(wood packing material) – green ash lumber
- Wood by-product industry – paper mills, mulch, etc
- Firewood industry – small and large volume producers – believed to be the #1 way EAB is being spread

Regulations that Affect Ash Tree Trimming and Removal in a Quarantine



- All parts of an ash tree are regulated and must stay in the quarantine area unless processed by a facility that has a compliance agreement.
 - Drop off waste at a facility that can process it by producing mulch and chips that are less than 1 inch in two dimensions
- Mulch can then be certified and move anywhere



Requirements for Moving Hardwood Firewood From an EAB Quarantine Area(continued)

- A firewood compliance agreement is required
- The kiln must also be approved by the USDA prior to certifying the firewood
- All debarked firewood must also be inspected and certified

Requirements for Moving Hardwood Firewood From an EAB Quarantine Area



- Heat treat the firewood to 140 Degrees F for at least 60 minutes
- Produce firewood that has no bark on it
- Fumigation is listed as a treatment but not practical

Conclusion

- If interested in a compliance agreement, please sign up at our booth.
- (785) 862-2180
- ppwc@kda.ks.gov