

# Regulatory Impacts of Invasive Species

Presented to

**Forest Invasives Regulatory Meeting**

by

**JoAnn Cruse, USDA, APHIS, PPQ State Director**

**Brian Kuhn, Wisconsin Department of Agriculture**

on

**March 19, 2015**

# **USDA**

## **Animal and Plant Health Inspection Service**

- **Plant Protection and Quarantine**
  - 6 employees statewide
  - 1 vacancy to be filled in Madison
- **Veterinary Services**
- **Wildlife Services**

## **Plant Protection & Quarantine**

- **Protect American agriculture from foreign plant pests and diseases through survey and detection programs**
- **Restrict movement of plant pests on commodities in order to reduce the spread of pests and diseases within the U.S.**
- **Certify agricultural products for export**
- **Enforce requirements for genetically engineered plants.**

## **Plant Protection & Quarantine**

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- **Certify agricultural products for export**
- **Enforce requirements for genetically engineered plants.**

# Wisconsin Department of Agriculture, Trade and Consumer Protection

## Plant Industry Bureau

- Detects and identifies exotic plant pests in the environment and within industry (nurseries/greenhouses/mills)
- Regulates the movement of injurious plant pests
  - Logs, firewood, mulch, nursery stock, Christmas trees
- Certifies ag products for export

1996 -1999



MEDFLY  
MEXFLY  
CHRYSANTHEMUM  
WHITE RUST  
GLASSYWING  
SHARPSHOOTER

EUROPEAN  
GYPSY MOTH  
GOLDEN NEMATODE  
ASIAN LONGHORNED  
BEETLE  
CITRUS  
CANKER



2013



Thousand Cankers  
Disease

**RALSTONIA**

POTATO CYST  
NEMATODE  
LIGHT BROWN  
APPLE MOTH

ASIANGYPSY  
MOTH

**FALSE CODLING MOTH**  
European Grape Vine Moth  
CHRYSANTHEMUM WHITE RUST

**CACTOBLASTIS**  
Karnal bunt PHYTOPHTHORA

PANICLE RICE MITE RAMORUM  
GLASSY WING SHARPSHOOTER  
WHITE STRIPED,  
MEDFLY, MEXFLY  
OREINTAL FF

SOYBEAN  
RUST  
UG 99

GLADIOLUS RUST  
RED PALM MITE

EMERALD  
ASH BORER

SIREX NOCTILIC  
PLUM FOX

**Spotted Lanternfly**

EUROPEAN  
GYPSY MOTH

ASIAN LONGHORNED  
BEETLE

GOLDEN NEMATODE  
LAUREL WILT  
**BEE COLONY  
COLLAPSE**

CITRUS CANKER  
CITRUS GREENING  
ASIAN CITRUS PSYLID

# Survey and Detection

- Structured survey – using lure, traps, and established guidelines
- Visual survey
- Outreach
- First Detector programs



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### INSECT TRAP

GOVERNMENT PROPERTY

**PLEASE DO NOT DISTURB**

For information contact your  
County or State or Federal  
Plant Protection Programs Office

State TN

County RHEA

Trap No. TVA WATTS 3

Catch Date \_\_\_\_\_

**US FOREST SERVICE FHP**





DO NOT DISTURB



## Considerations to Invasive Finds

- **Is this a significant pest requiring federal action? (increased new finds in recent years)**
- **What's the impact to resources – biologically and financially?**
- **Are there effective survey methods, containment strategies, and treatment and management options, i.e. is it eradicable or too widespread?**
- **What are the funding options?**
- **What's the timeline for response, i.e. days, months, seasons? How quickly do we need to assess and respond?**

# Basic Steps in APHIS Emergency Response

- Survey and delimit infestation
- Containment (regulatory)
- Treatment - eradication - control
- Re-establish trade/partners

# Timeline of Response to a New Find

**Day 1:** A specimen is submitted to state or federal office.

**Day 2/3/4:** Forwarded for identification to APHIS identifier and possibly Systemic Entomology Lab (SEL).

**Day 4:** Results sent to SPHD/SPRO/APHIS Hqtrs with determination of pest and if not found in U.S.

**Day 5:** New Pest Advisory Group (NPAG) in APHIS meets to determine if pest is of significance to U.S. and requires action. If not significant, defer situation to the State or Tribe. Parties meet to prepare press releases?

## **Week One:**

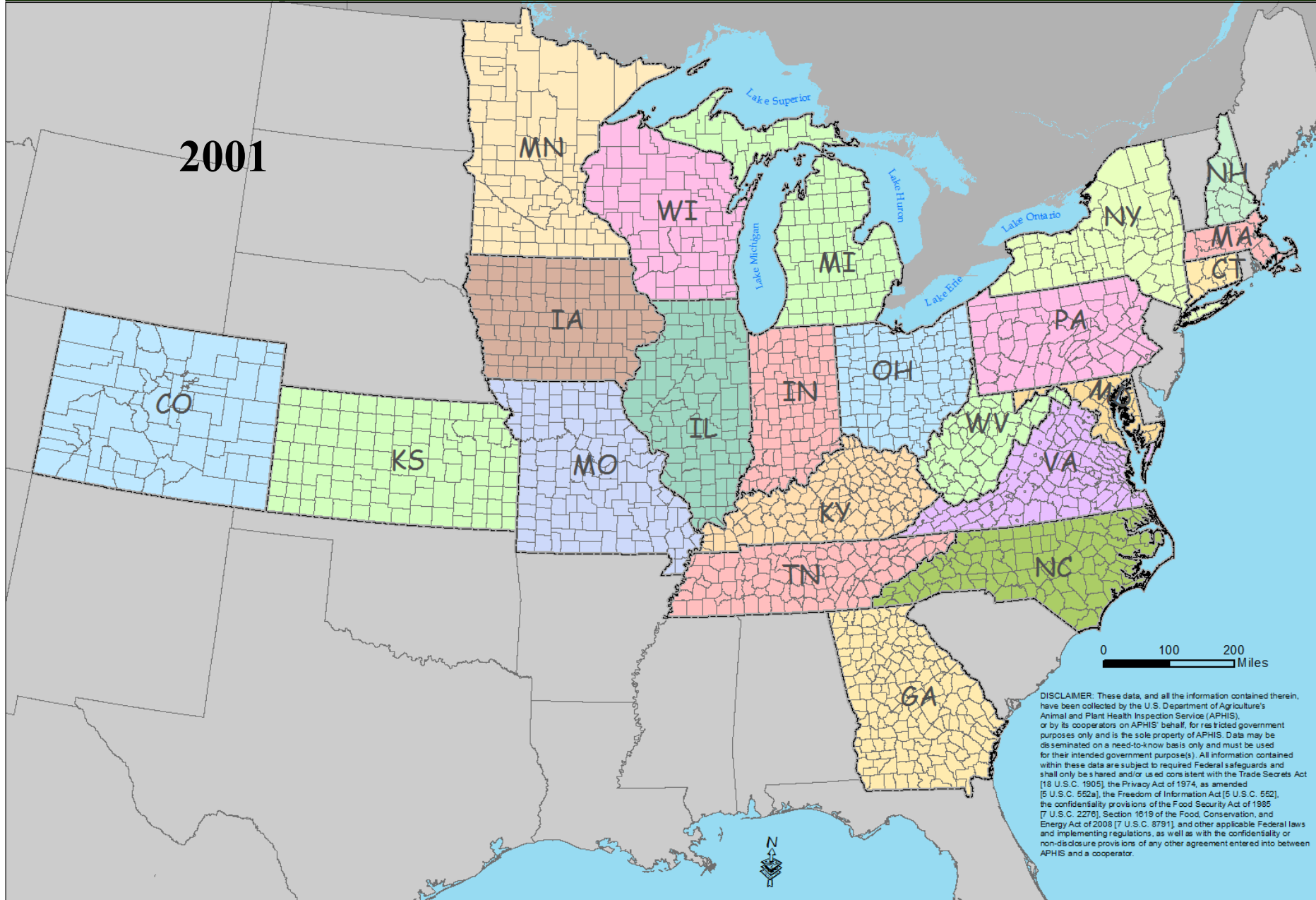
- **Significant and requires action**
- **Assess the site/situation**
- **Determine authorities and consider quarantine options**
- **Coordination (press releases)**
- **Identify available survey methods and staffing needed**
- **Identify available funding**





# EAB detected counties

2001



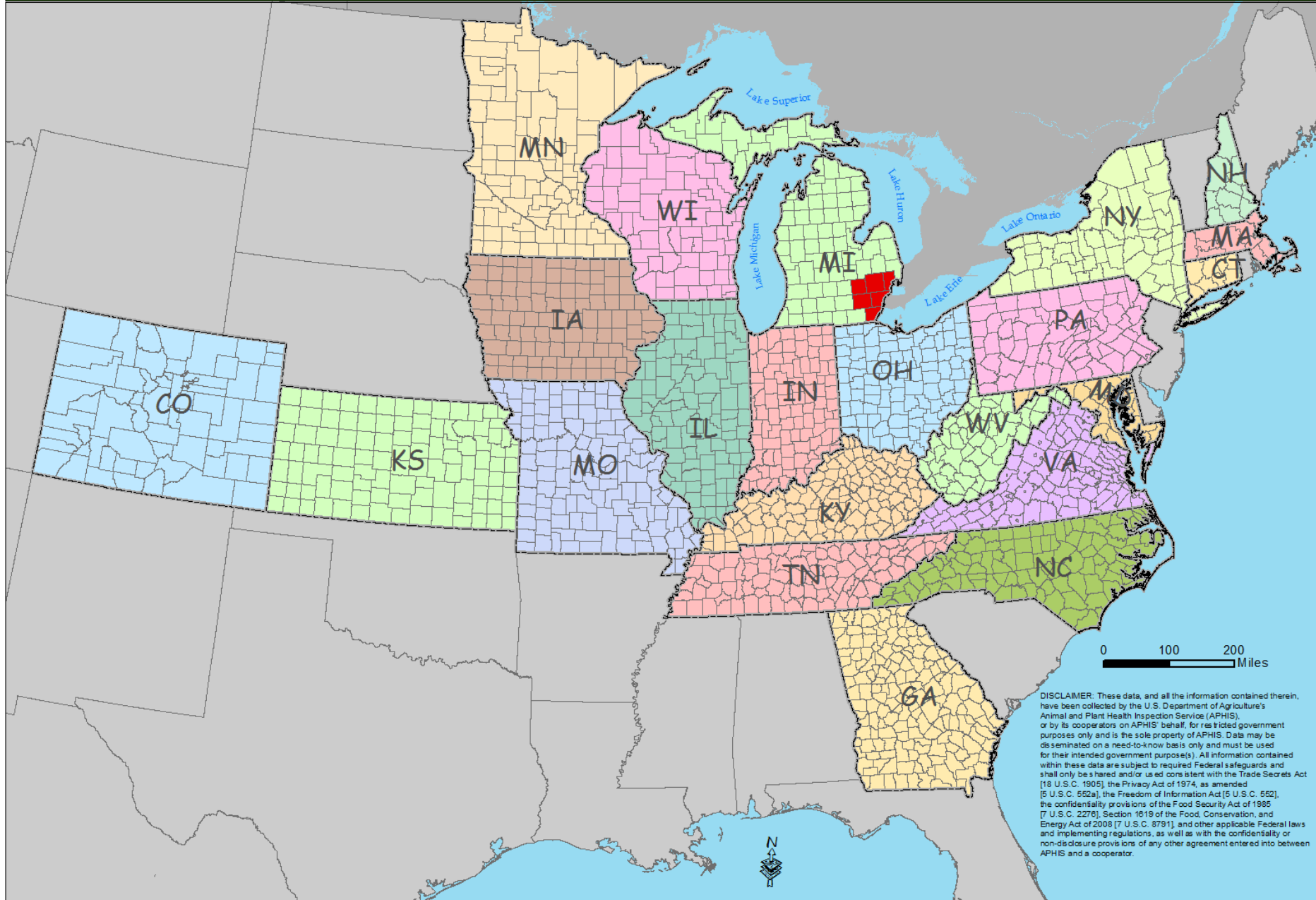
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Agriculture

# EAB detected counties

December 31, 2002



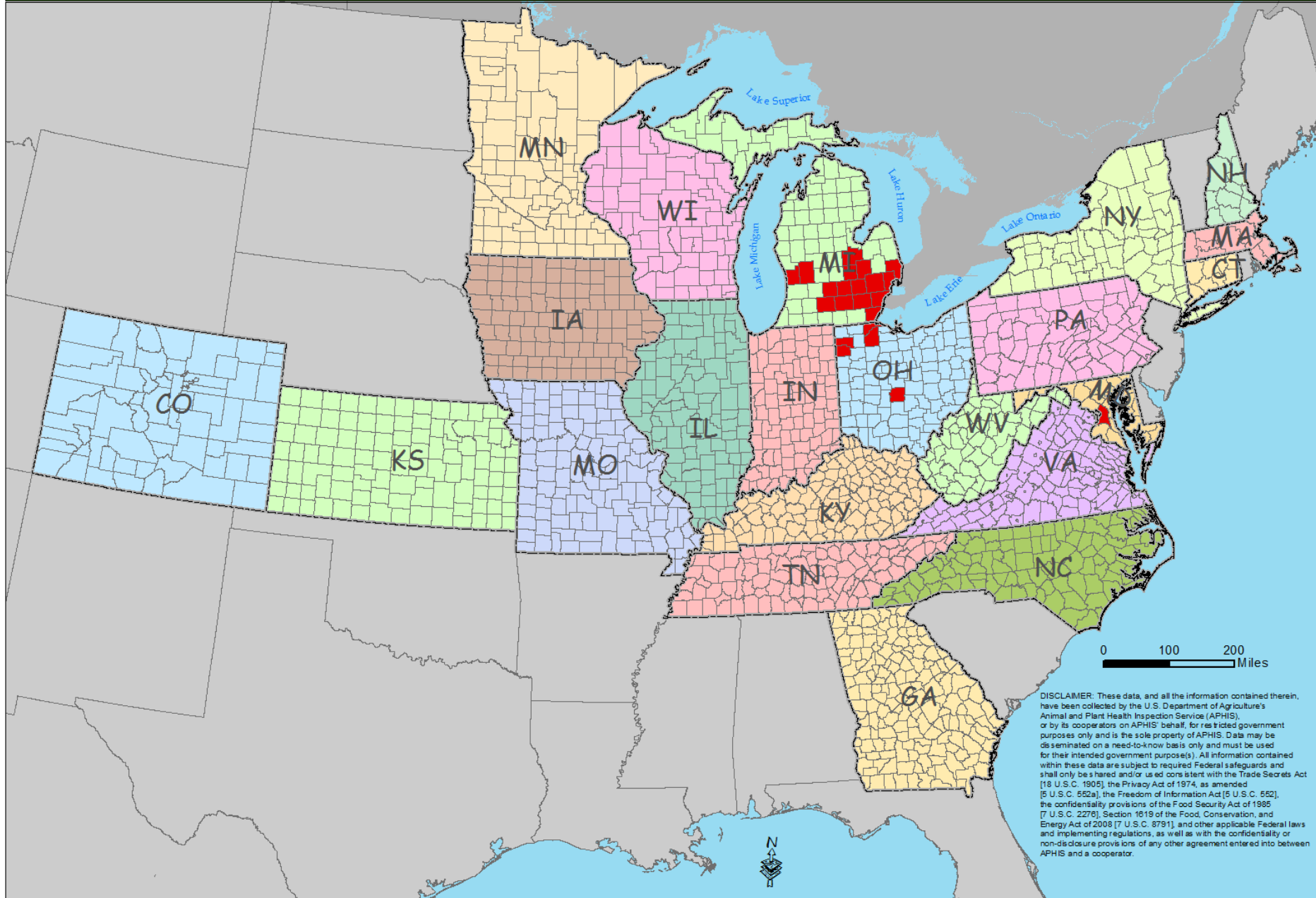
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# EAB detected counties

December 31, 2003



0 100 200 Miles

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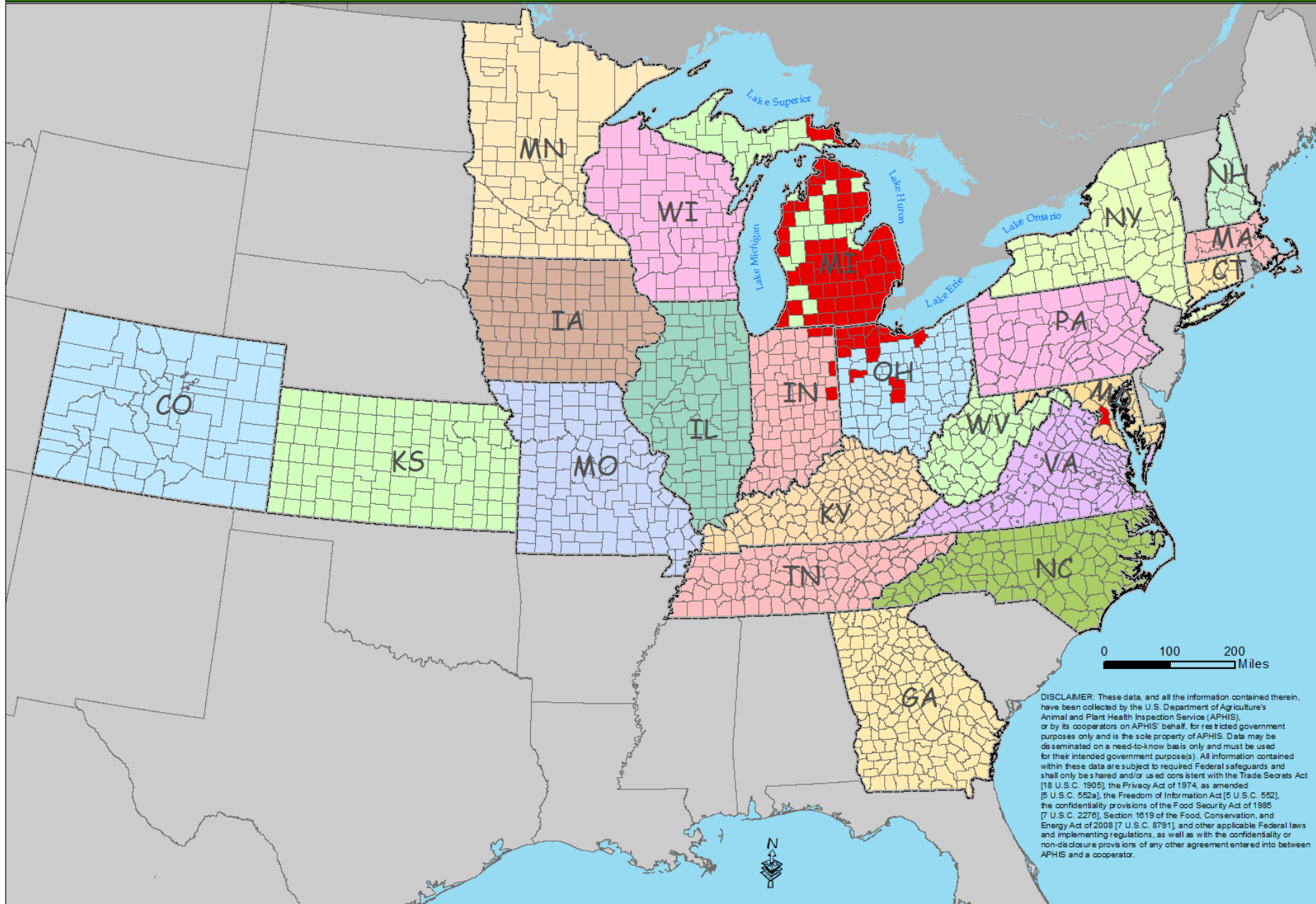




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# EAB detected counties

December 31, 2005

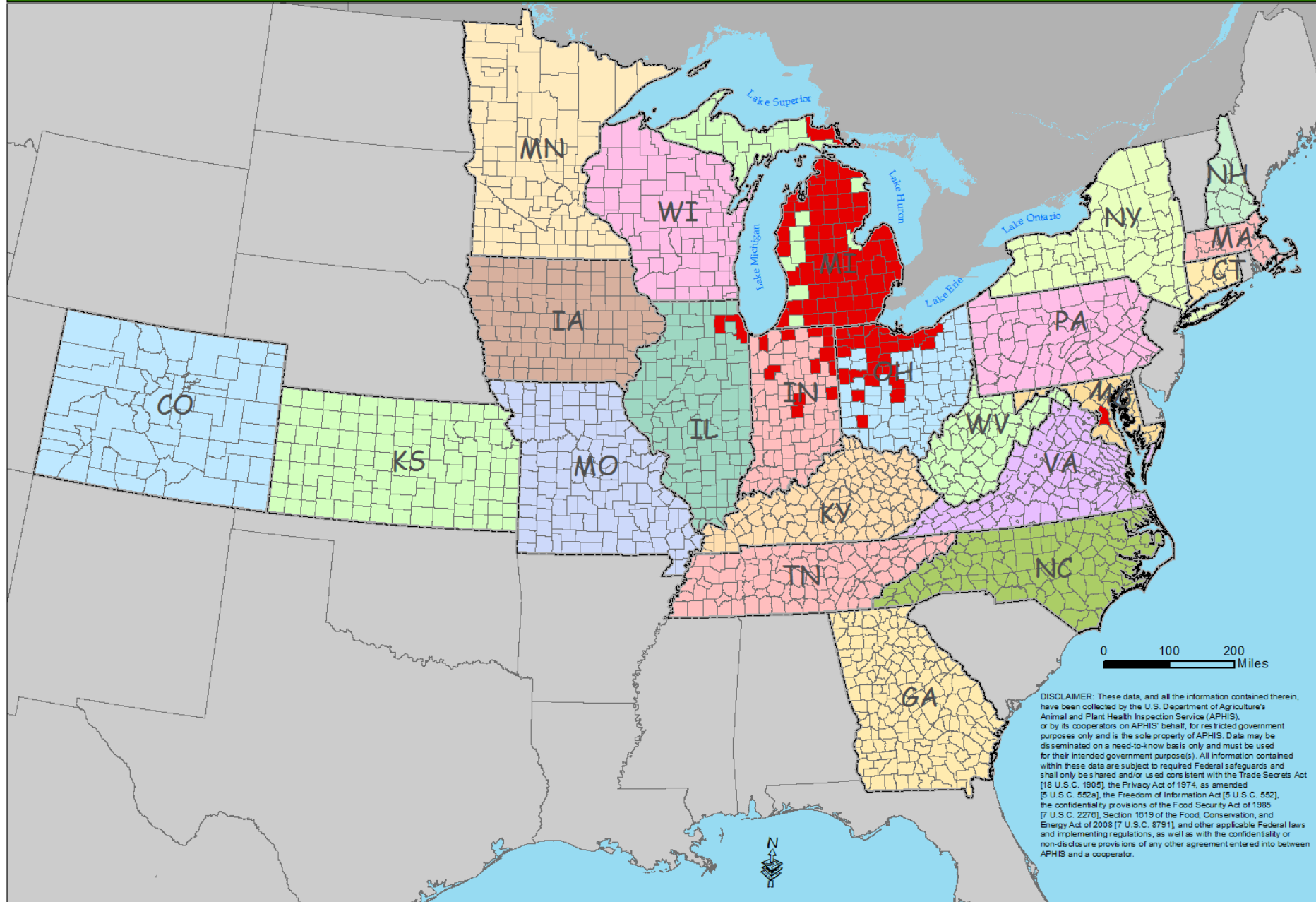




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# EAB detected counties

December 31, 2006



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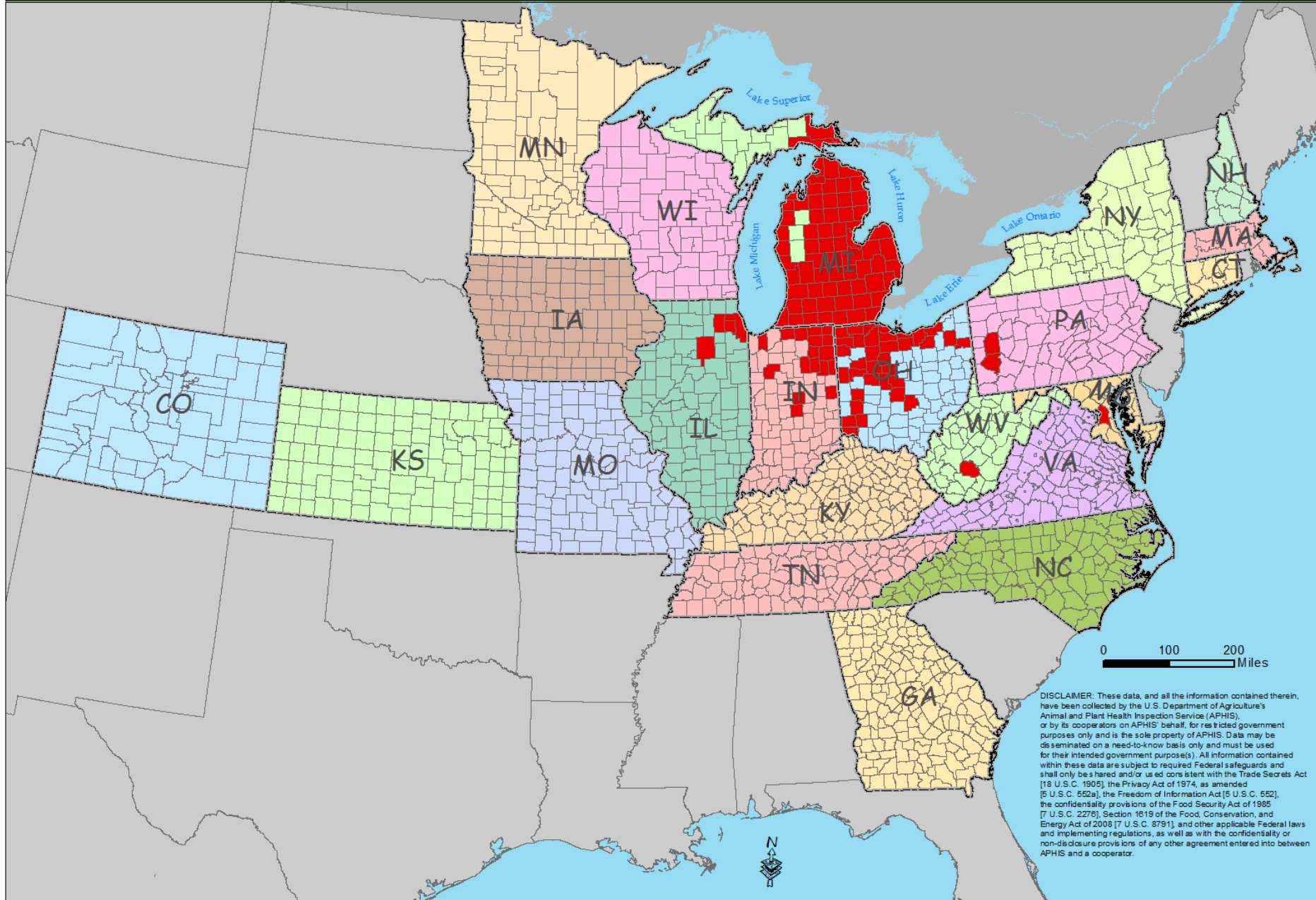




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# EAB detected counties

December 31, 2007



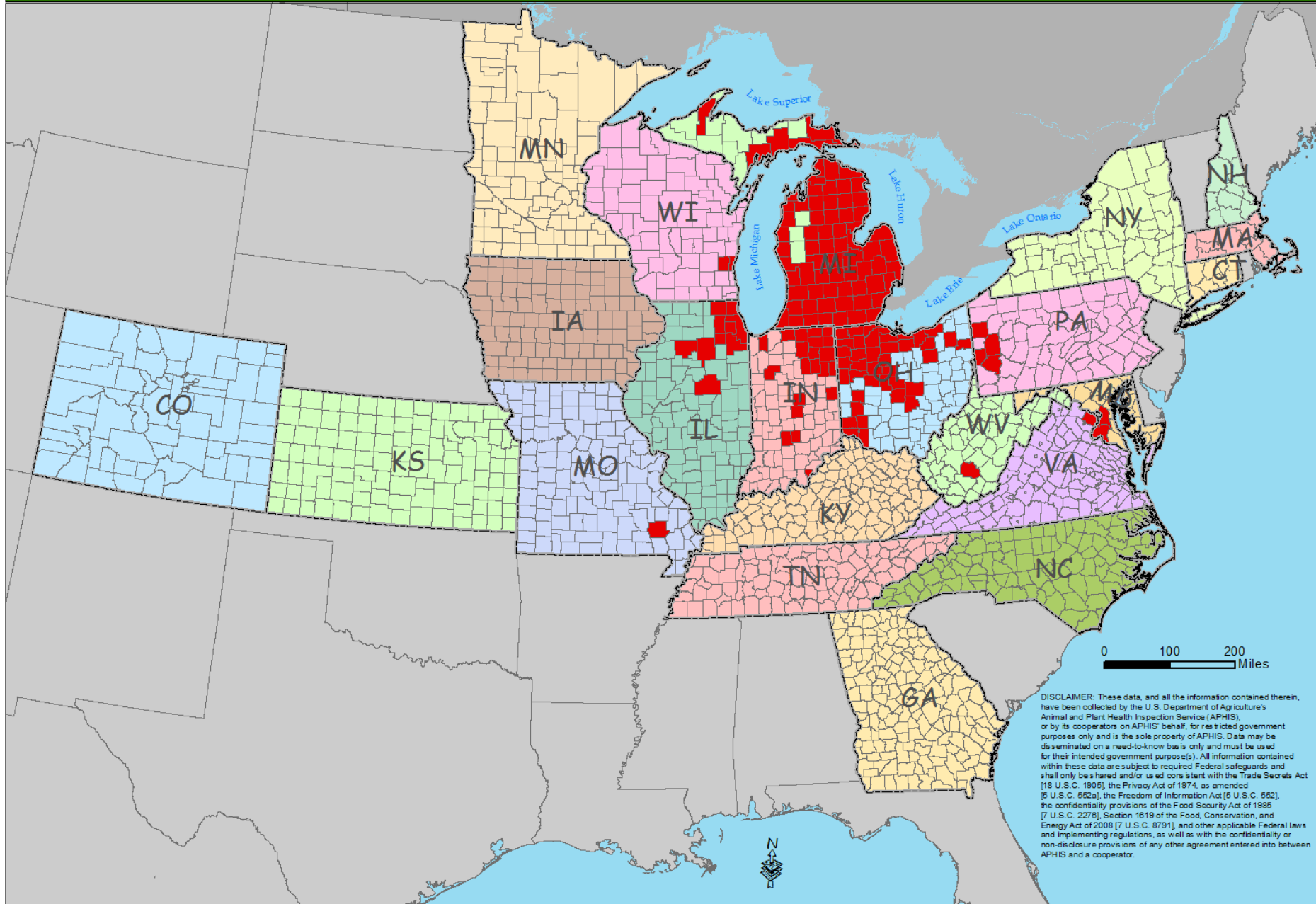
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# EAB detected counties

December 31, 2008

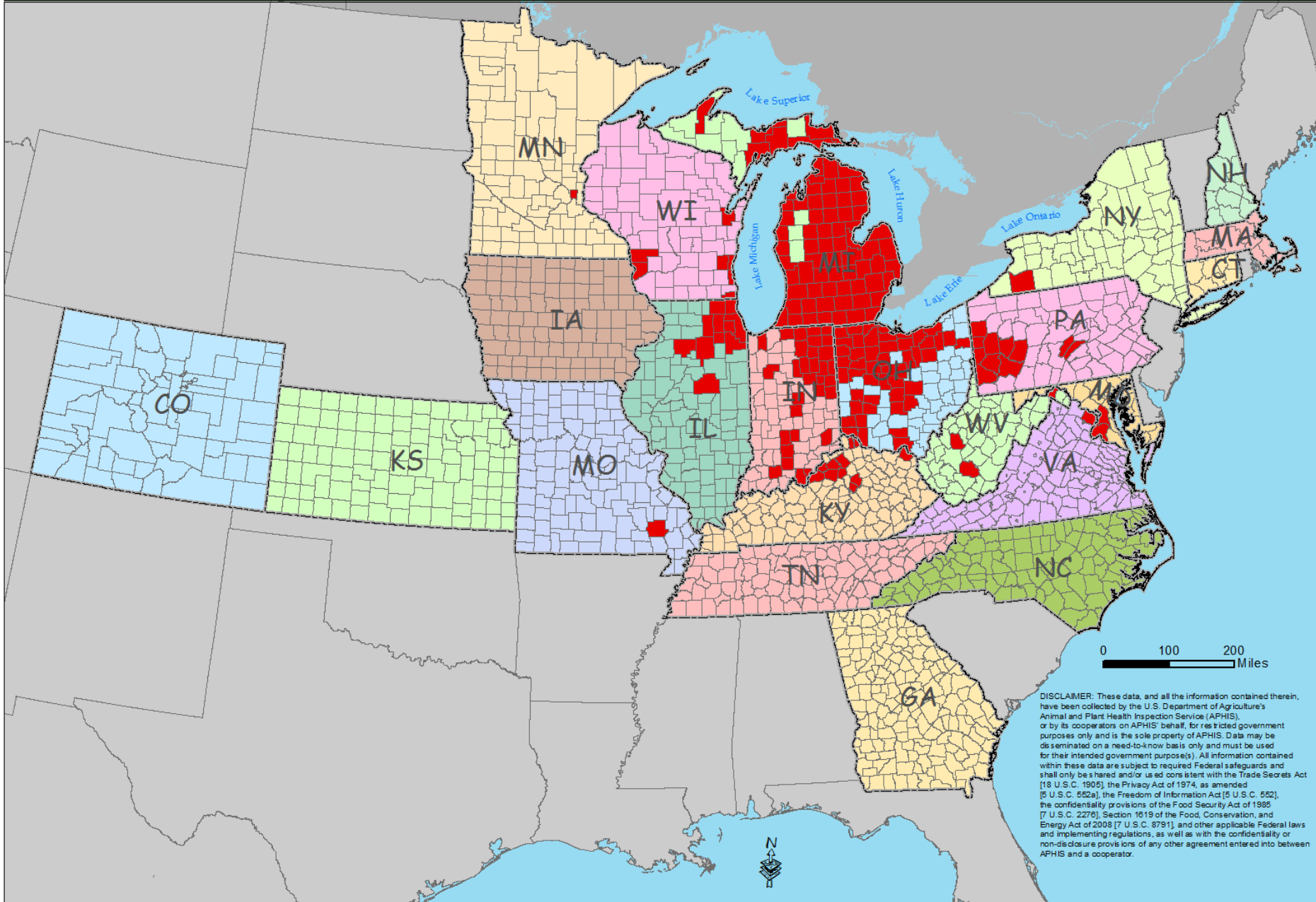




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# EAB detected counties

December 31, 2009

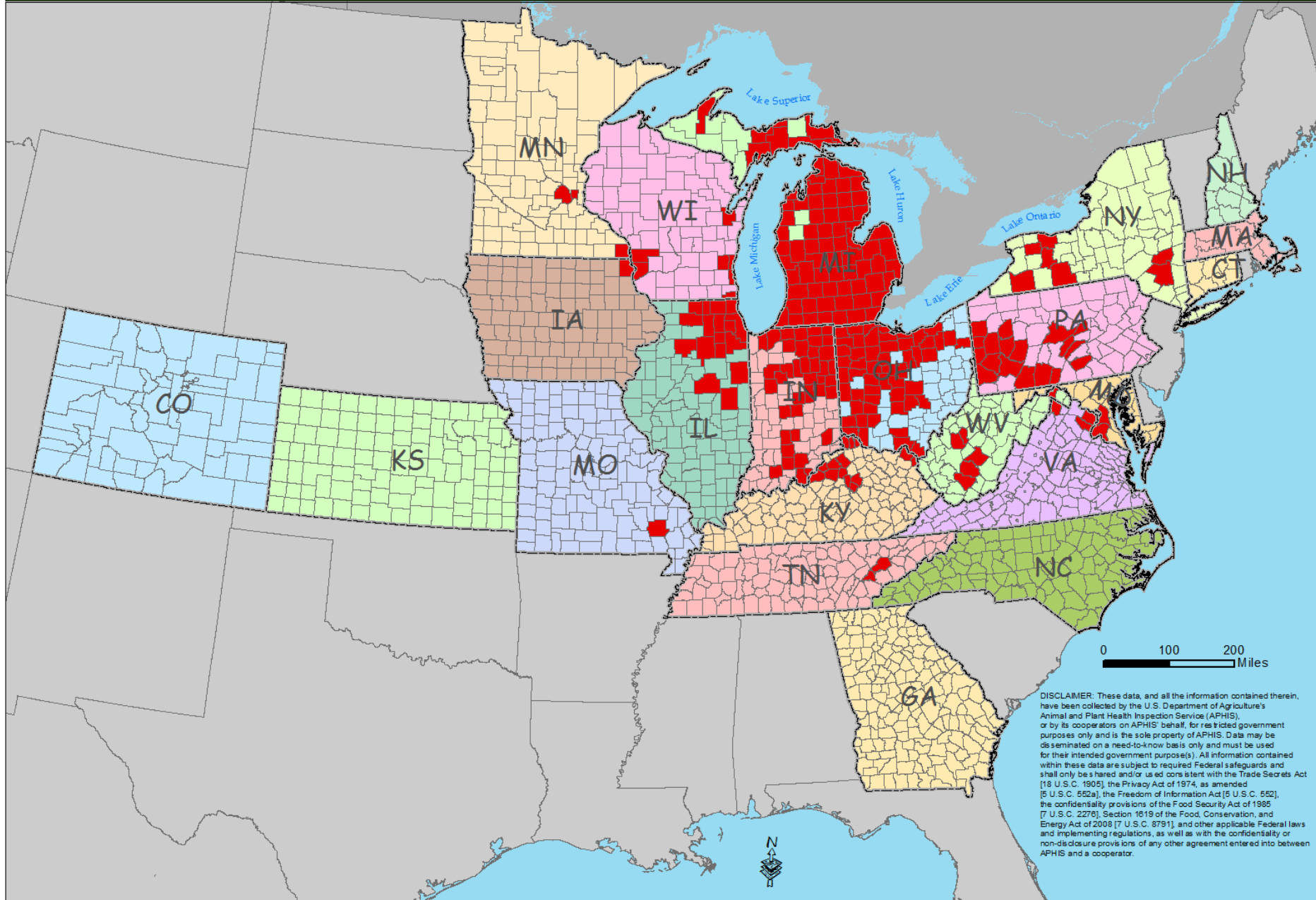




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# EAB detected counties

December 31, 2010



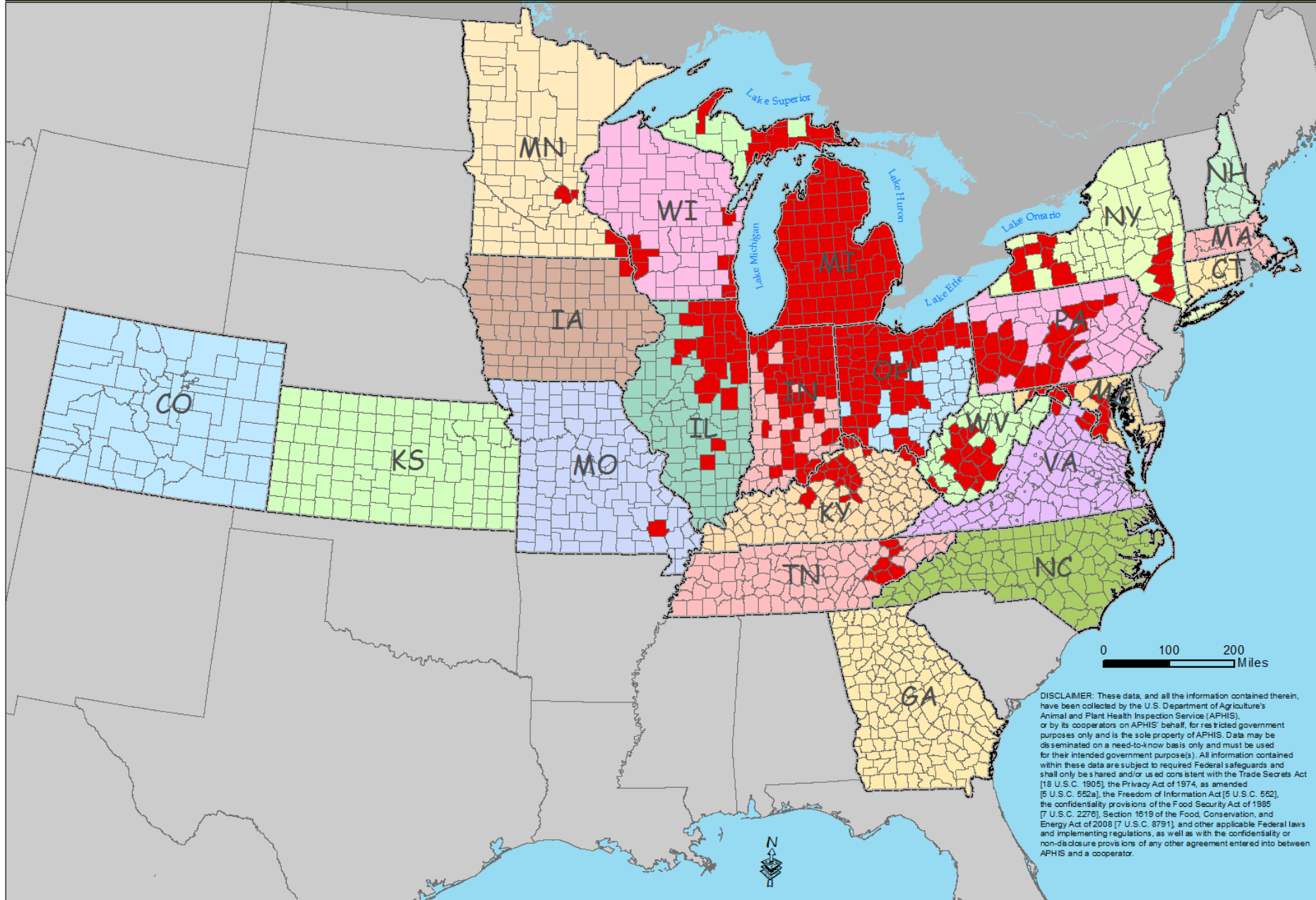




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# EAB detected counties

December 31, 2011

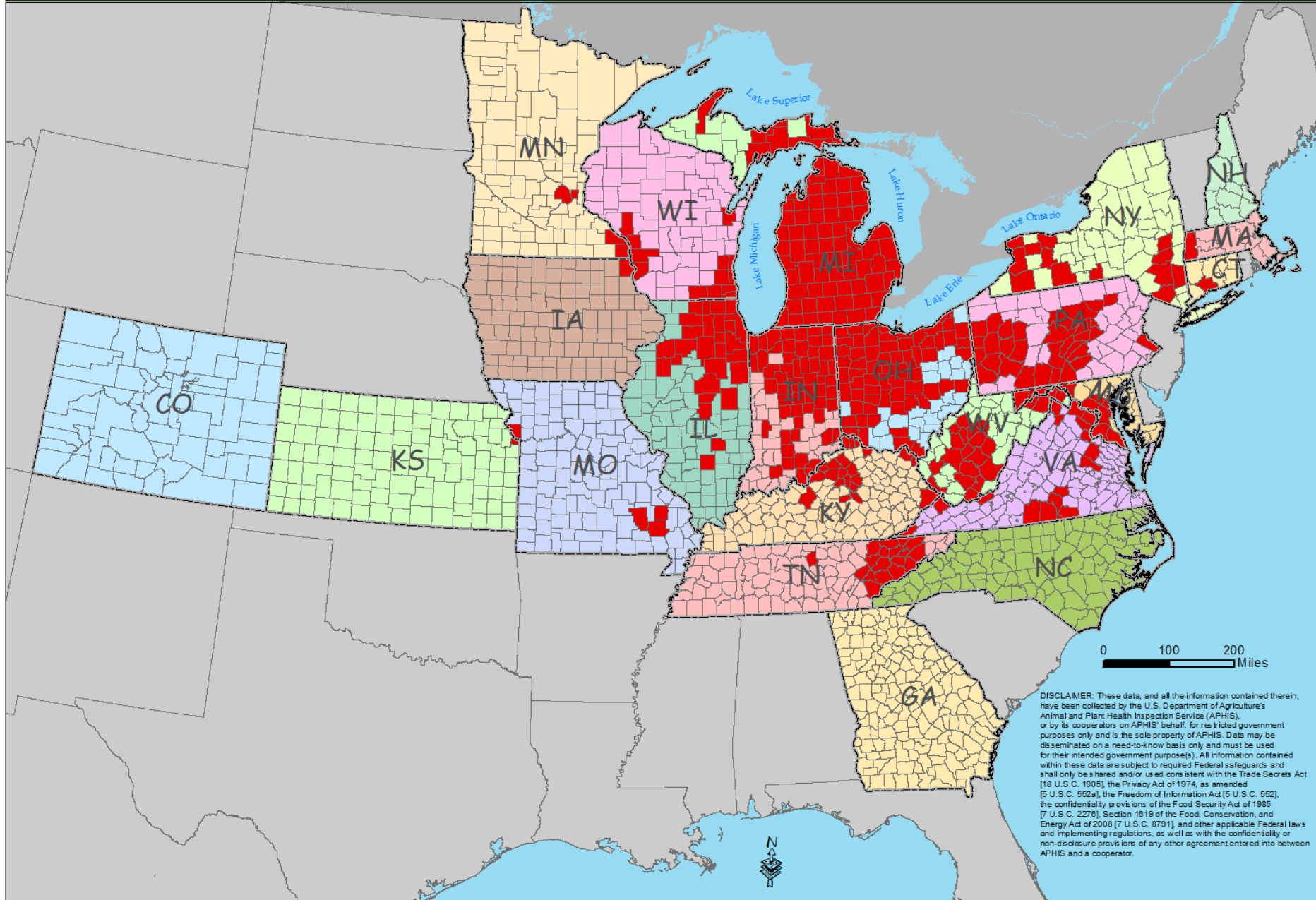




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# EAB detected counties

December 31, 2012



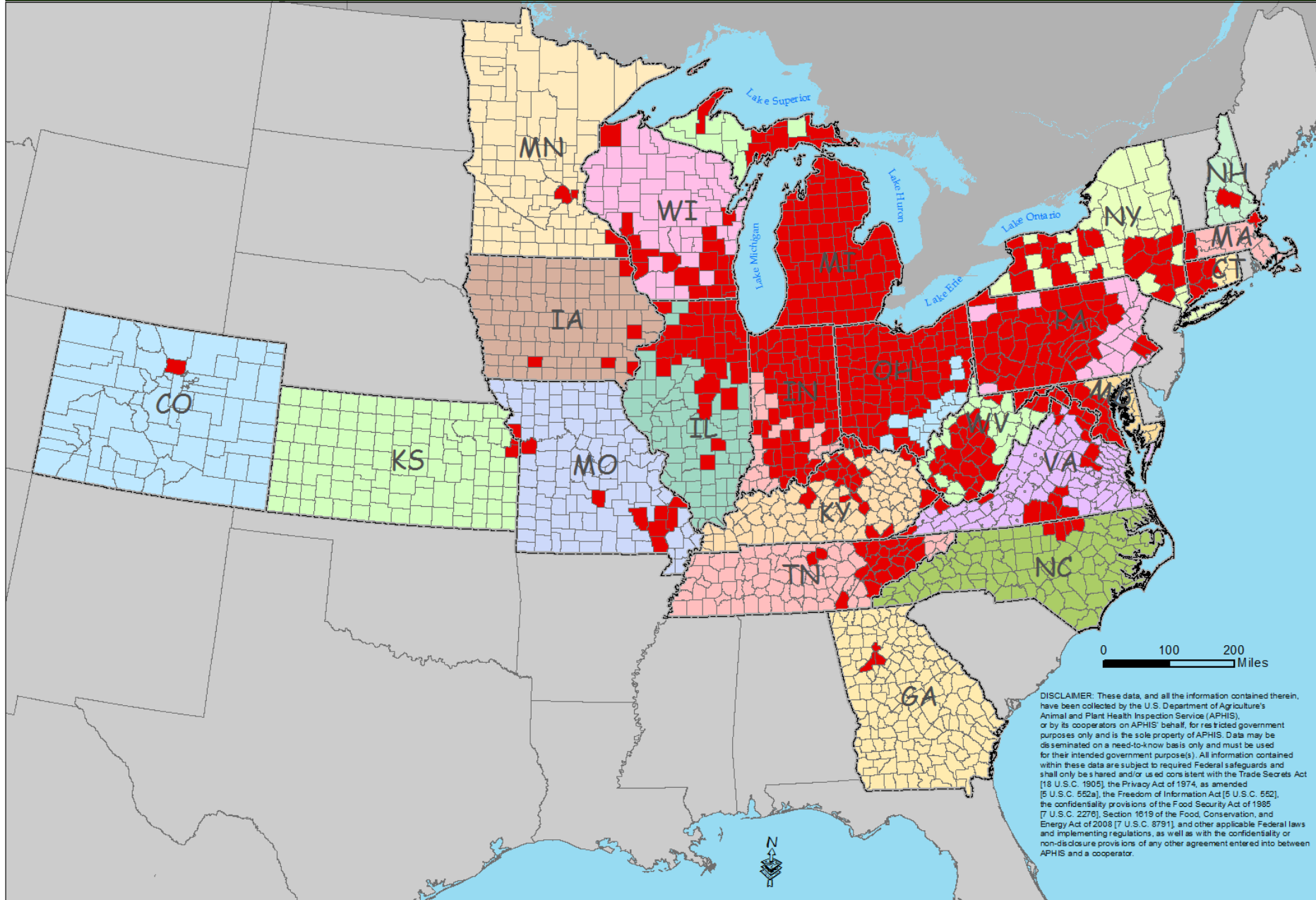




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# EAB detected counties

December 31, 2013

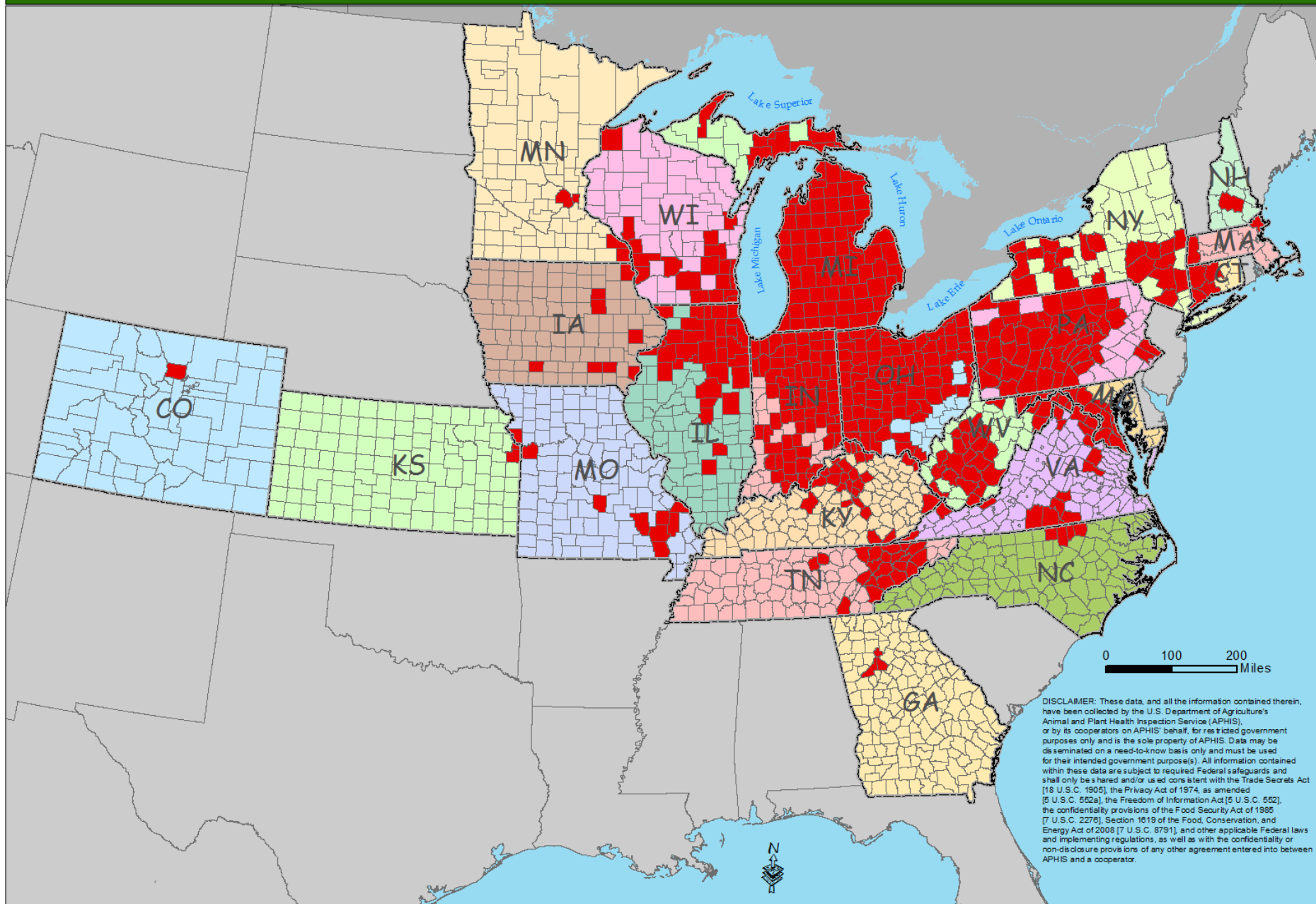




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# EAB detected counties

March 19, 2014

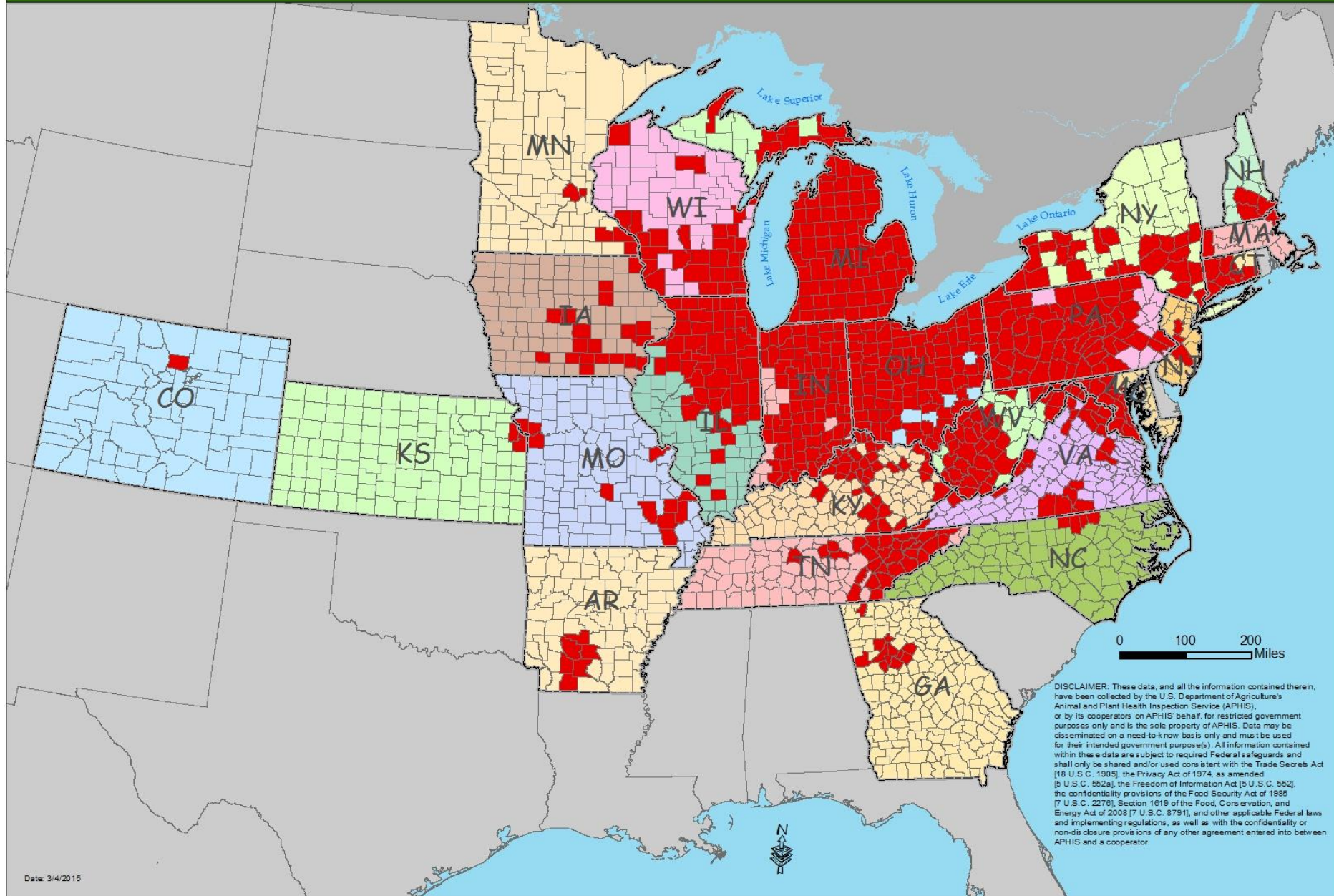


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# EAB detected counties

December 31, 2014

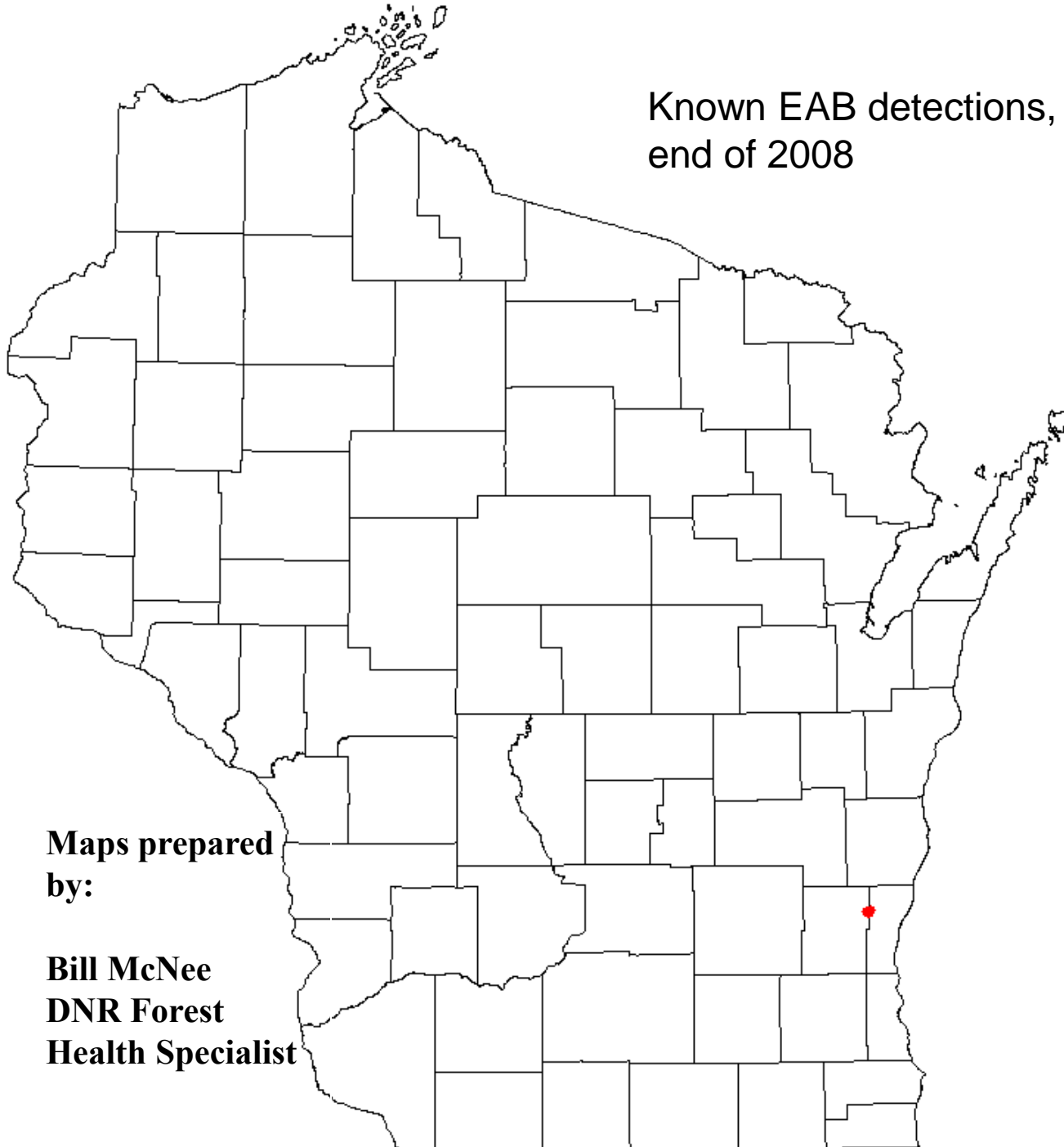








## Known EAB detections, end of 2008

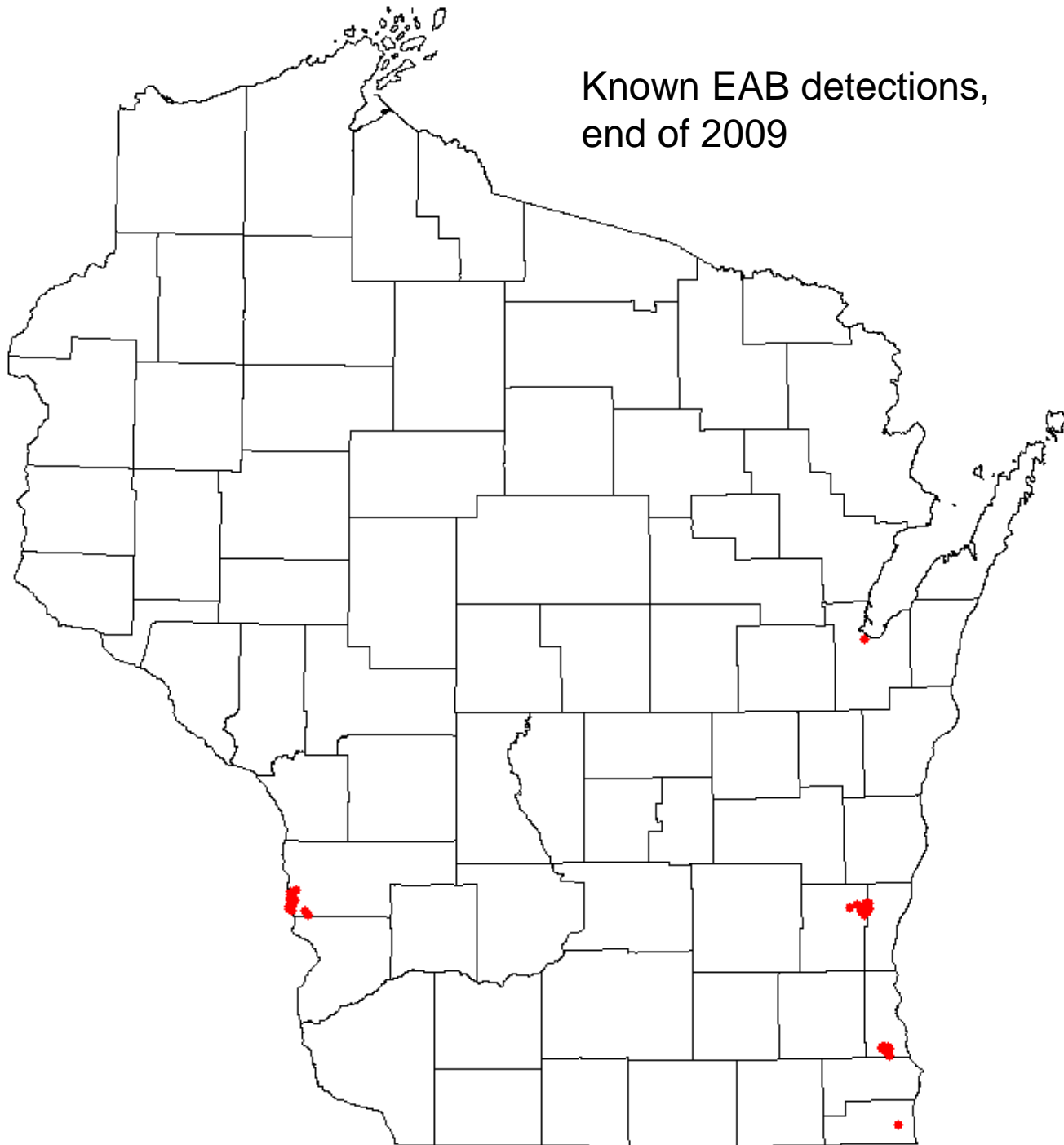


**Maps prepared  
by:**

**Bill McNee  
DNR Forest  
Health Specialist**



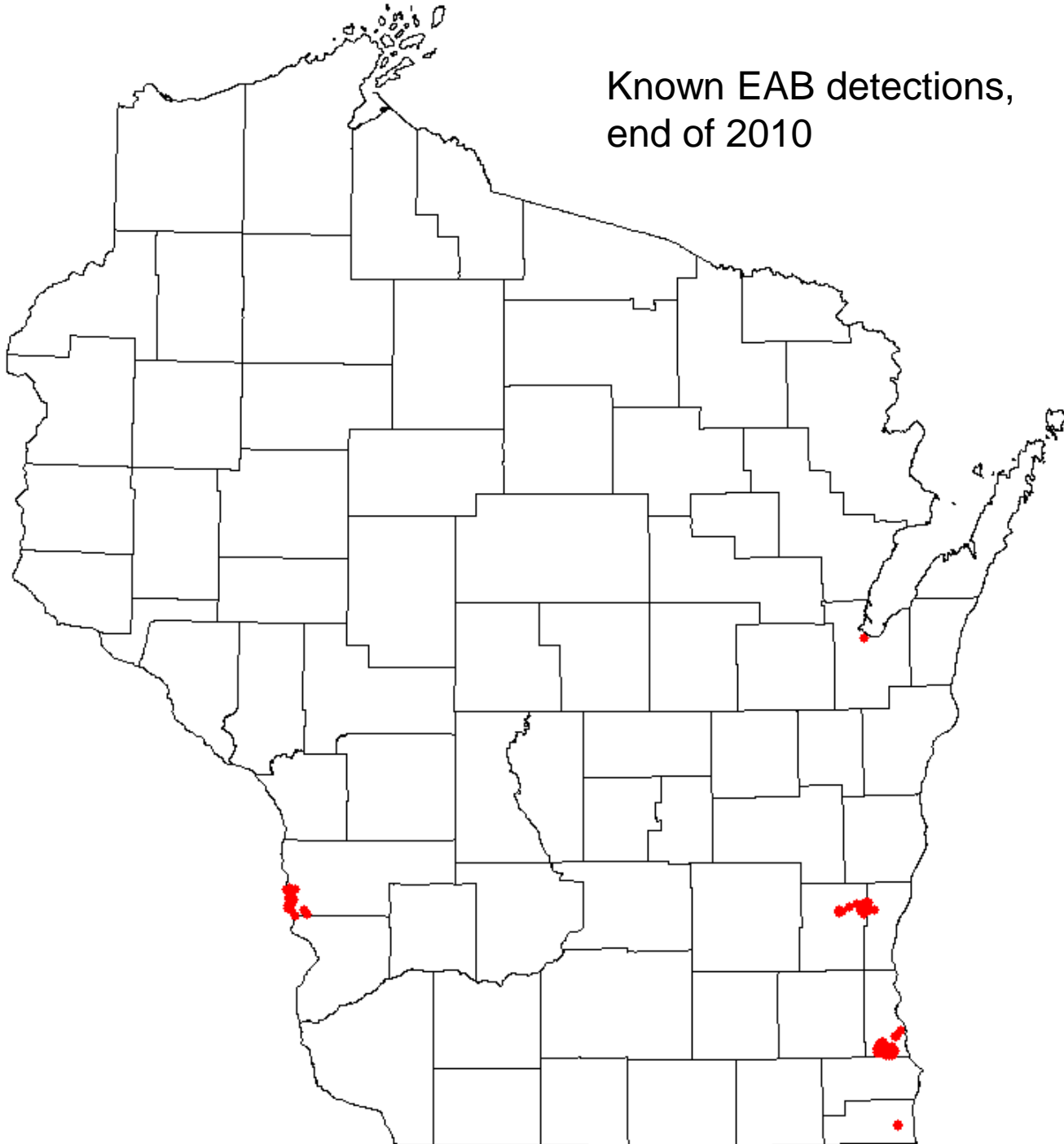
## Known EAB detections, end of 2009





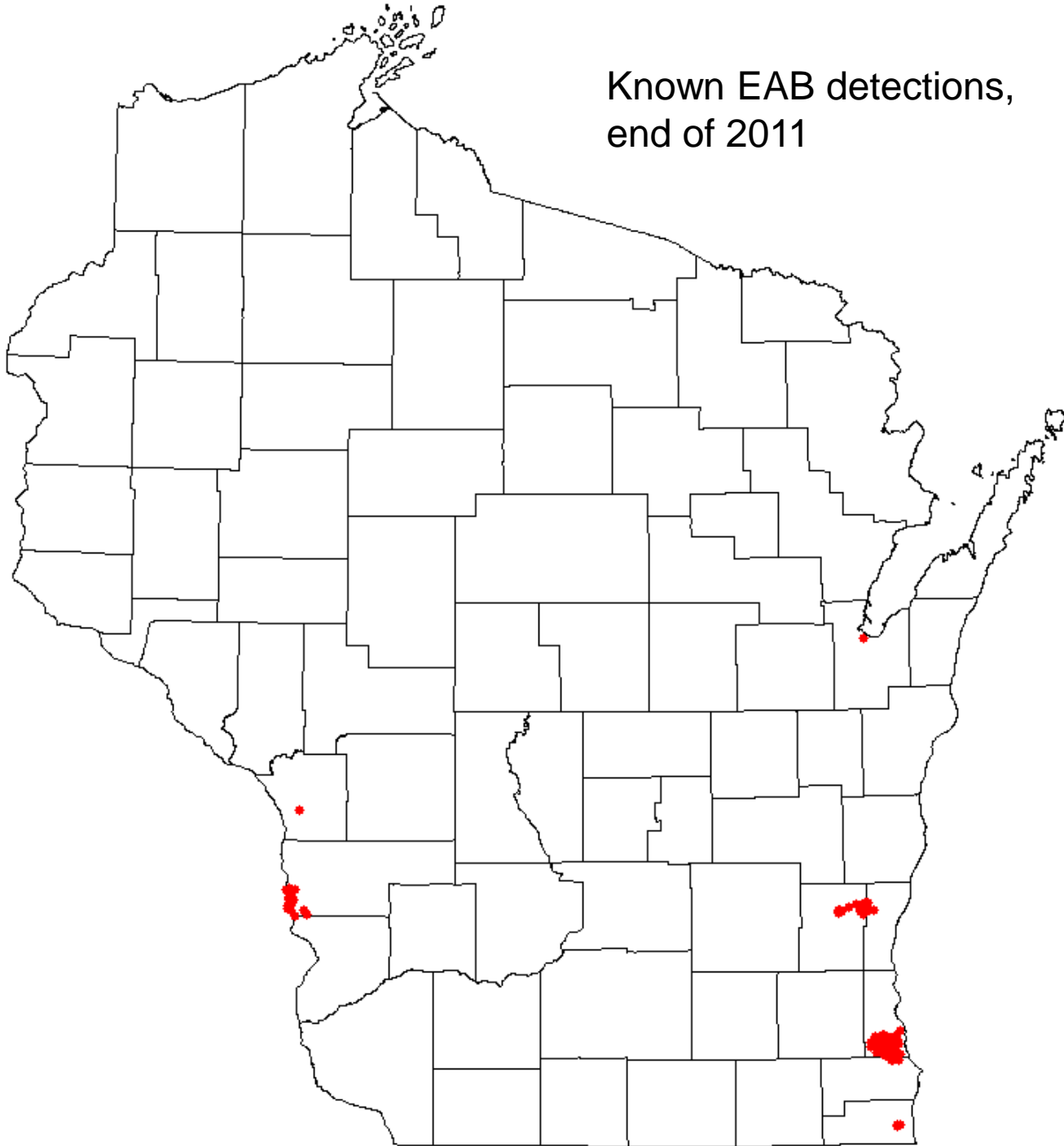


## Known EAB detections, end of 2010



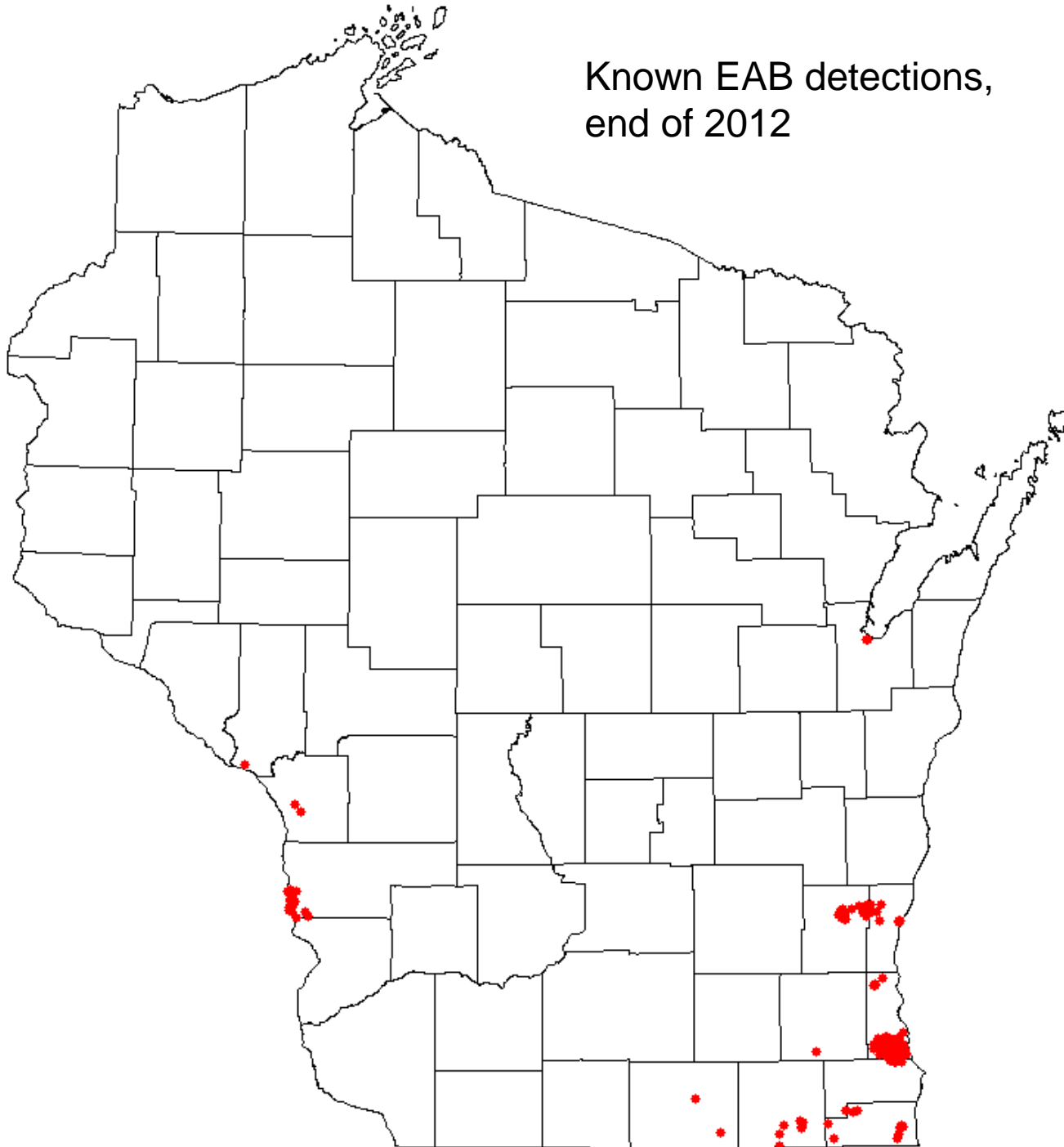


# Known EAB detections, end of 2011



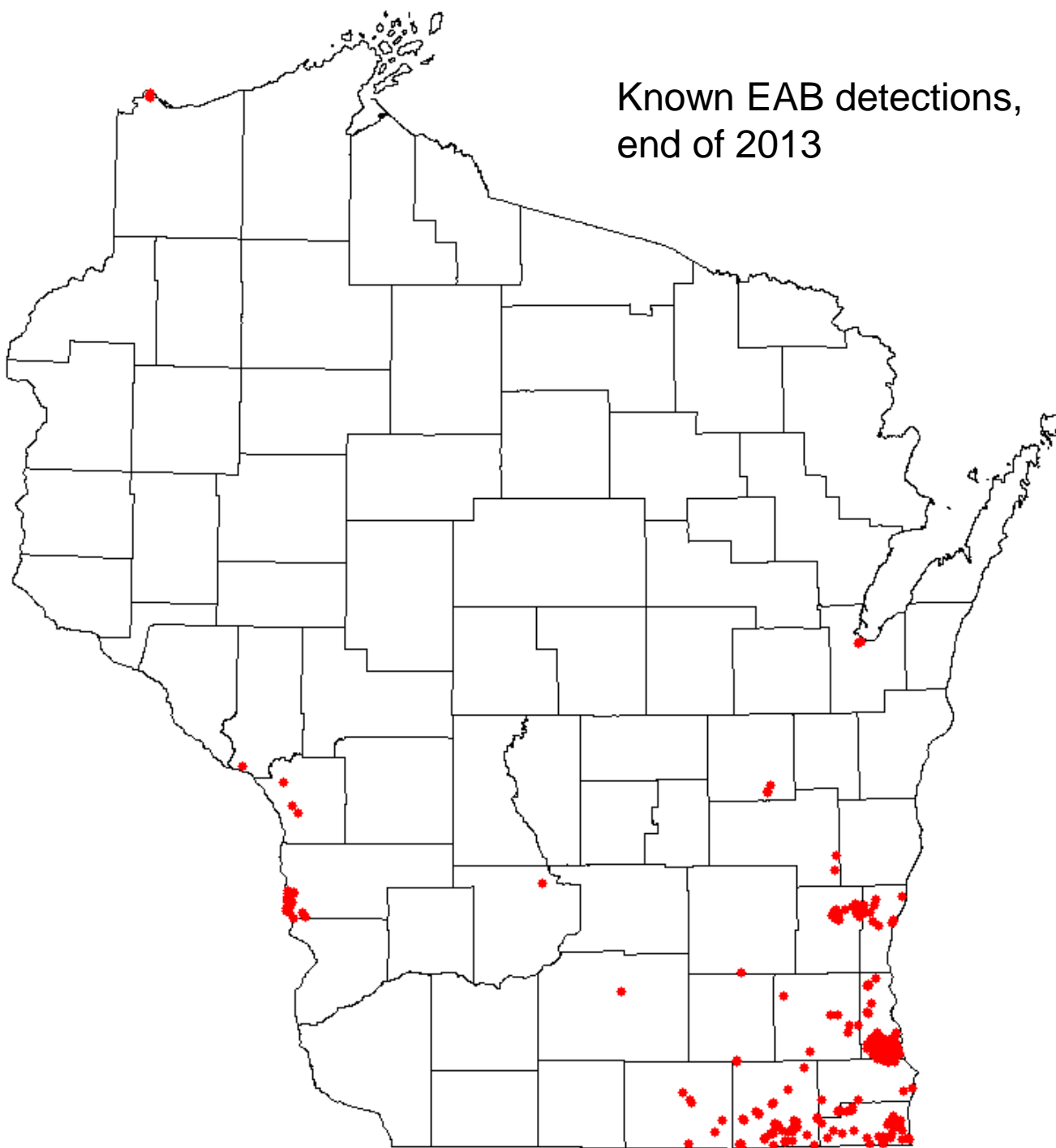


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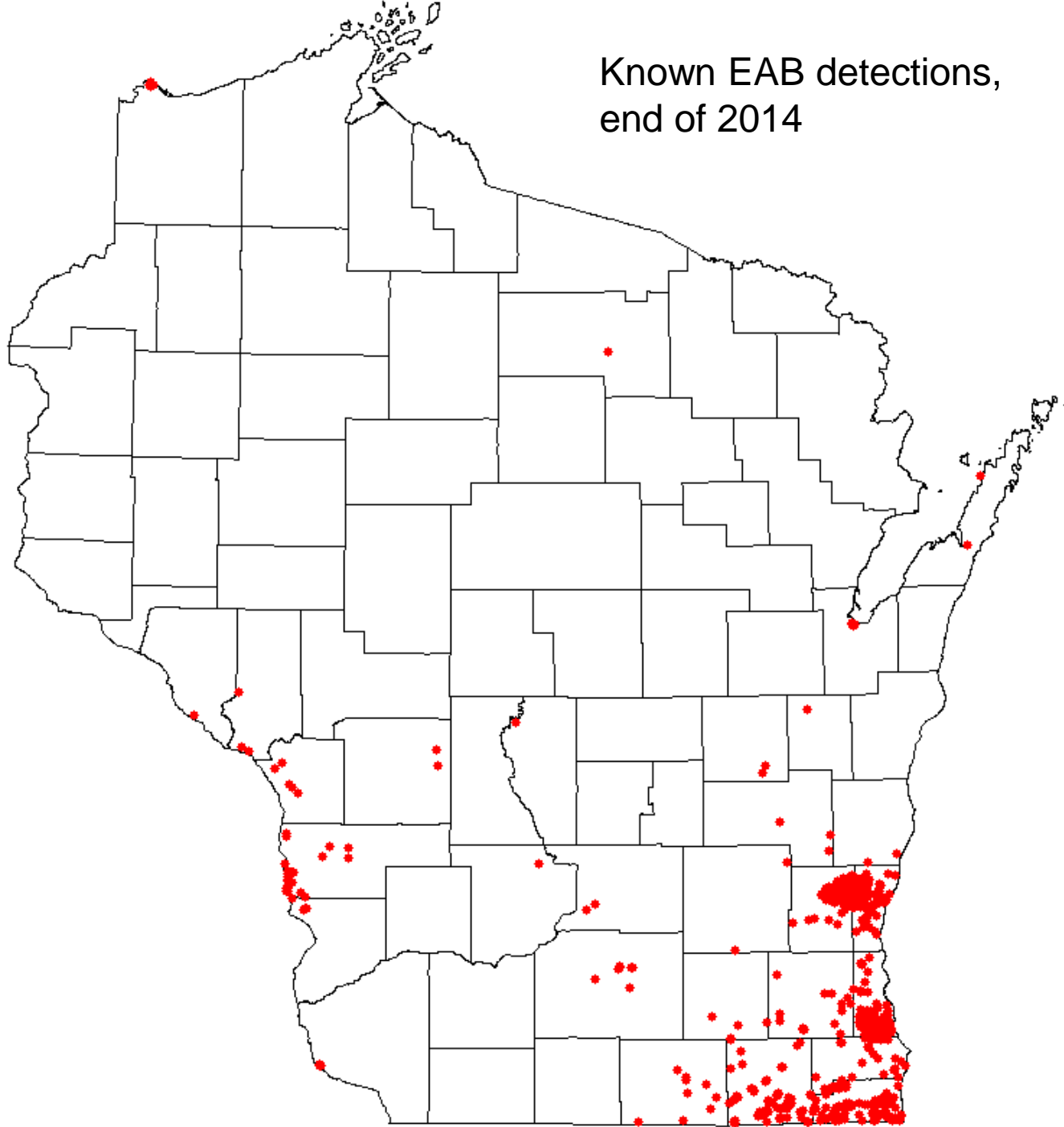


## Known EAB detections, end of 2013





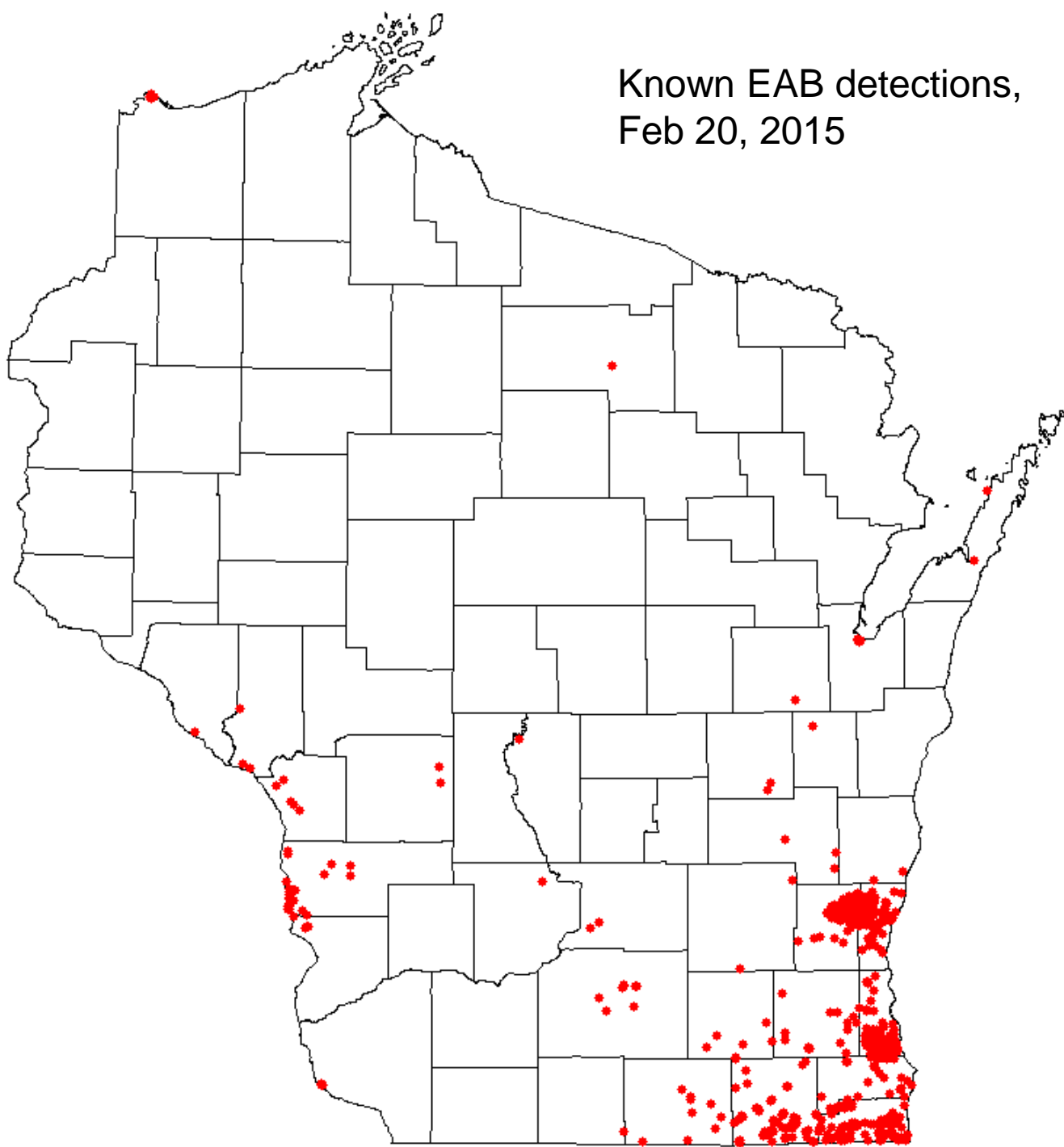
# Known EAB detections, end of 2014







# Known EAB detections, Feb 20, 2015

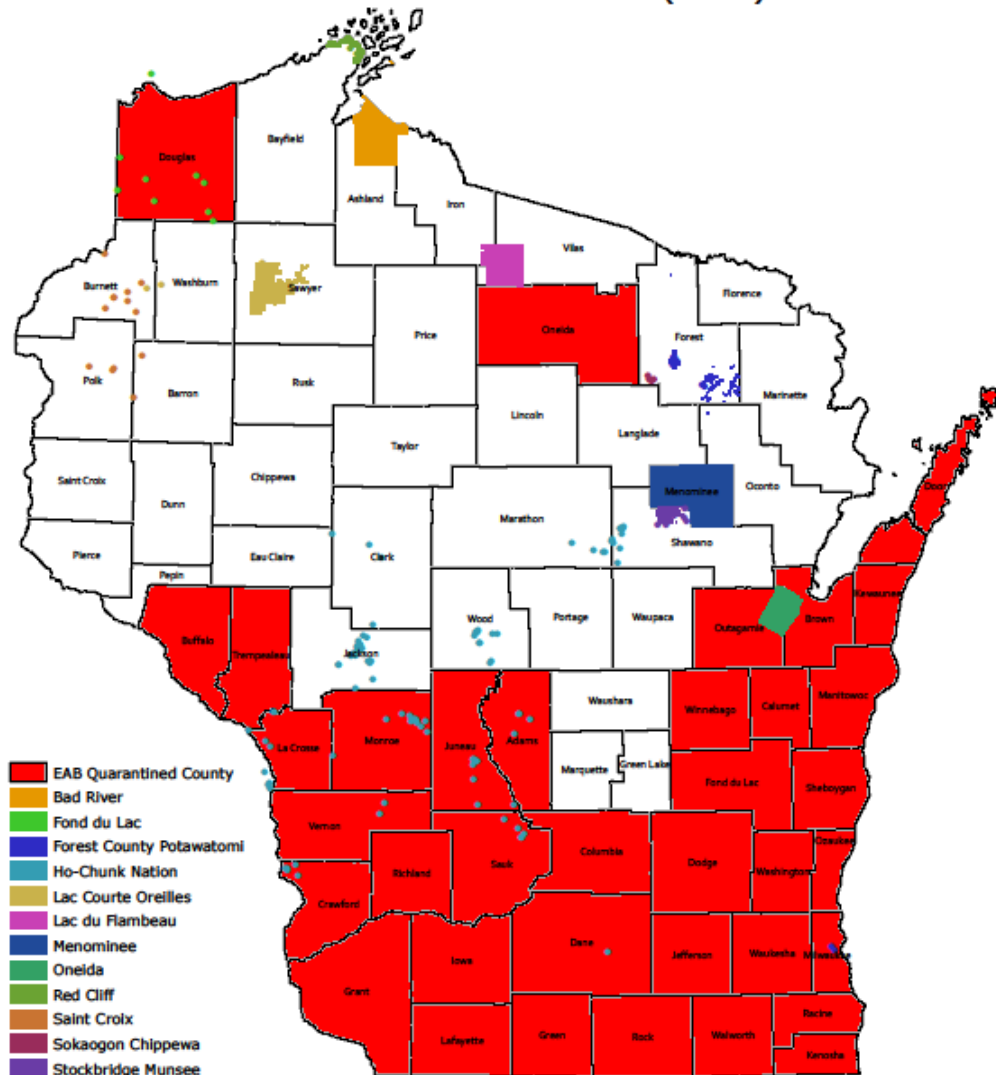


# Quarantines

- **Interstate** quarantines are established to restrict movement and spread of exotic pests.
  - Agency considers available survey methods, ability to eradicate or control, distribution, and economic impact of the pest. Based upon state and Tribal boundaries. Includes Tribal consultation.
  - EAB, GM, PSB
- **Intrastate** quarantines
  - Parallel state quarantines based upon county boundaries
- **Tribal** quarantines
  - Parallel quarantines based upon political boundaries



# Wisconsin Counties Quarantined for Emerald Ash Borer (EAB)



\* A dot represents a parcel of tribal property that is less than 12,000 acres



# Regulated articles (associated with a forest pest quarantine)

- **Logs**
- **Lumber**
- **Mulch**
- **Firewood**
- **Pallet stock**
- **Nursery stock**
- **Christmas trees**
- **Wood for cultural uses**
  - **Example: black ash for basketmaking, wigwam poles**

## The EASY GUIDE to WISCONSIN'S EMERALD ASH BORER REGULATIONS

### Mills and Loggers



- No movement of ash logs is allowed out of the emerald ash borer (EAB) quarantine area from April 1 through September 30 except under a DATCP or USDA EAB compliance agreement.
- Movement of ash logs out of the quarantined area to a DATCP or USDA-approved mill will be allowed only from October 1 through March 31.
- Sawmills outside the quarantine that receive ash logs from the quarantine area must have a DATCP or USDA EAB compliance agreement, and all ash material, including wood waste, must be processed by April 30.
- Within the contiguous EAB quarantine, ash logs may move freely if reasonable precautions are taken. We recommend that logs be moved only between October 1 and March 31, and that mills process all ash materials by April 30 to minimize the spread of EAB.

### Green Lumber Manufacturers



- Green ash lumber may leave the quarantine area only under a DATCP or USDA EAB compliance agreement (completely debarked plus removal of 1/4" of wood).
- Lumber mills outside the quarantine that receive ash logs from the quarantine area must have a DATCP or USDA EAB compliance agreement and follow the regulations described above.
- Kiln-dried, square-edged lumber is exempt from Wisconsin's EAB regulations.

### Pallet Manufacturers and Recyclers



- All ash lumber used in pallet production must be completely debarked or heat treated prior to leaving the quarantine area.
- Pallet producers that use ash from the quarantine area must have a DATCP or USDA EAB compliance agreement.

### Firewood Producers and Users



- No movement of hardwood firewood is allowed out of the quarantine area.
- The only exception to this regulation is DATCP or USDA-certified firewood that has been treated.
- For more information on DATCP-certified firewood, or to obtain a current vendor list, please call DATCP at 715-536-7736 or visit <http://emeraldashborer.wi.gov>.
- Firewood for personal use may be moved within the quarantine, but this is strongly discouraged in order to reduce the spread of EAB.

### Wood Waste



- No movement of ash wood is allowed out of the quarantine area unless chipped to less than 1" on two sides.
- Commercial woodchip and mulch producers must have a DATCP or USDA EAB compliance agreement in order to transport any product containing ash out of the quarantine area.
- Within the quarantine, it is strongly encouraged to chip all wood waste and to minimize the distance wood is moved in order to reduce the spread of EAB.

### Nurseries



- No movement of ash nursery stock (any *Fraxinus* species) is allowed out of the Wisconsin EAB quarantine area.



## First or Next Steps?

- Farm Bill funding was approved to **develop a template** for a process for Tribes to assess quarantine options/needs.
- **Meet “one on one”** with Federal cooperators (include state officials) to discuss impacts of a new find and/or quarantine on Tribal lands, people, and resources.
- Review Tribal authorities, infrastructure, and physical needs and **develop a response plan**. Review it periodically.
- **Agree on responsibilities** of the partners through ongoing discussions and Memorandum of Agreement.
- Consider the options to **ensure an inventory** of resources for cultural purposes if resource becomes endangered.

## Current Tribal Activities

- **Firewood policies, regulations, ordinances, and permits**
- **Firewood exchanges at campgrounds**
- **Incorporating regulatory language into logging contracts**
- **Surveys for invasive forest pests**
- **Outreach and education:**
  - **Notices on Tribal websites prohibiting firewood from being brought onto Tribal lands for ceremonies**
  - **Signage at campgrounds**
  - **Newspaper articles**
  - **After-school activities for kids**



United States Department of Agriculture  
Animal and Plant Health Inspection Service

**Plant Protection and Quarantine**



## Contact Info:

**[joann.m.cruse@aphis.usda.gov](mailto:joann.m.cruse@aphis.usda.gov)**

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**Wisconsin Department of Agriculture,**

**Trade and Consumer Protection**

**Plant Industry Bureau**

**608-224-4590**