



United States Department of Agriculture

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The Emerald Ash Borer

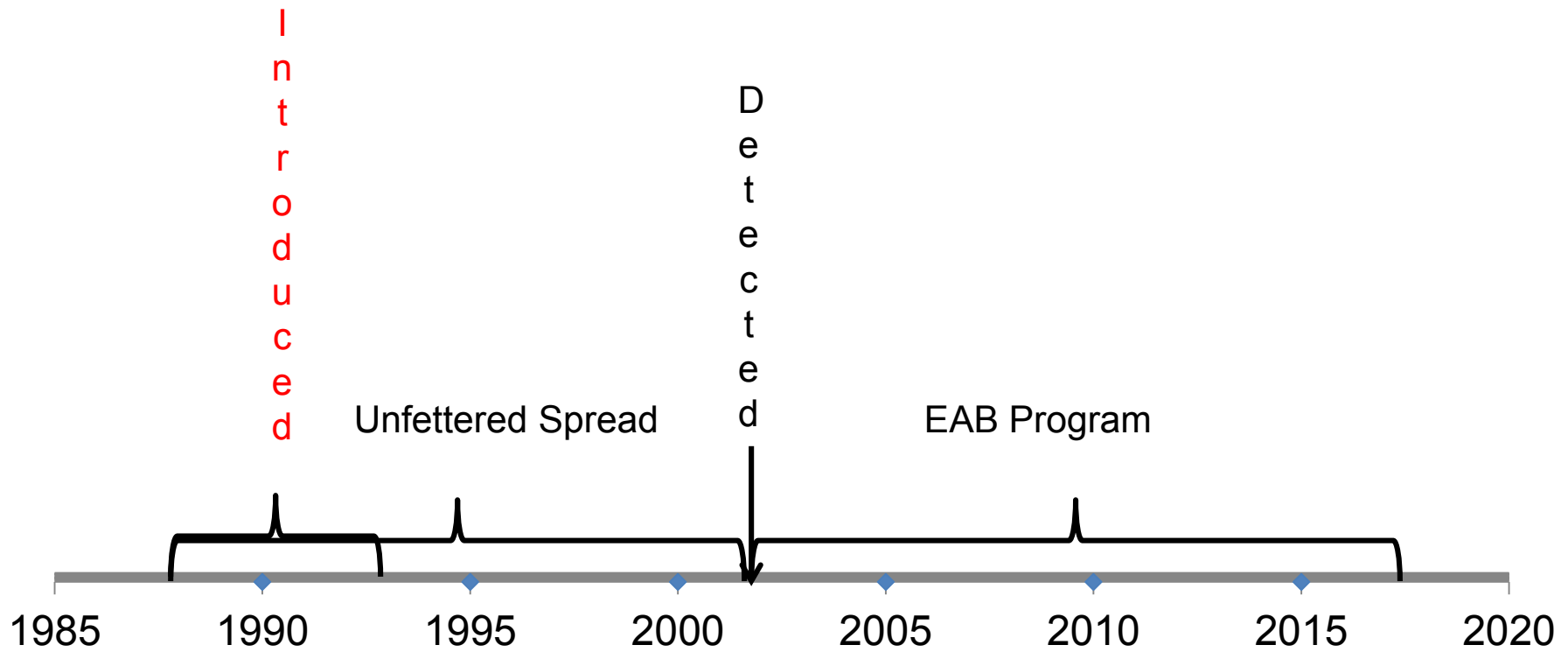
The Emerald Ash Borer Program



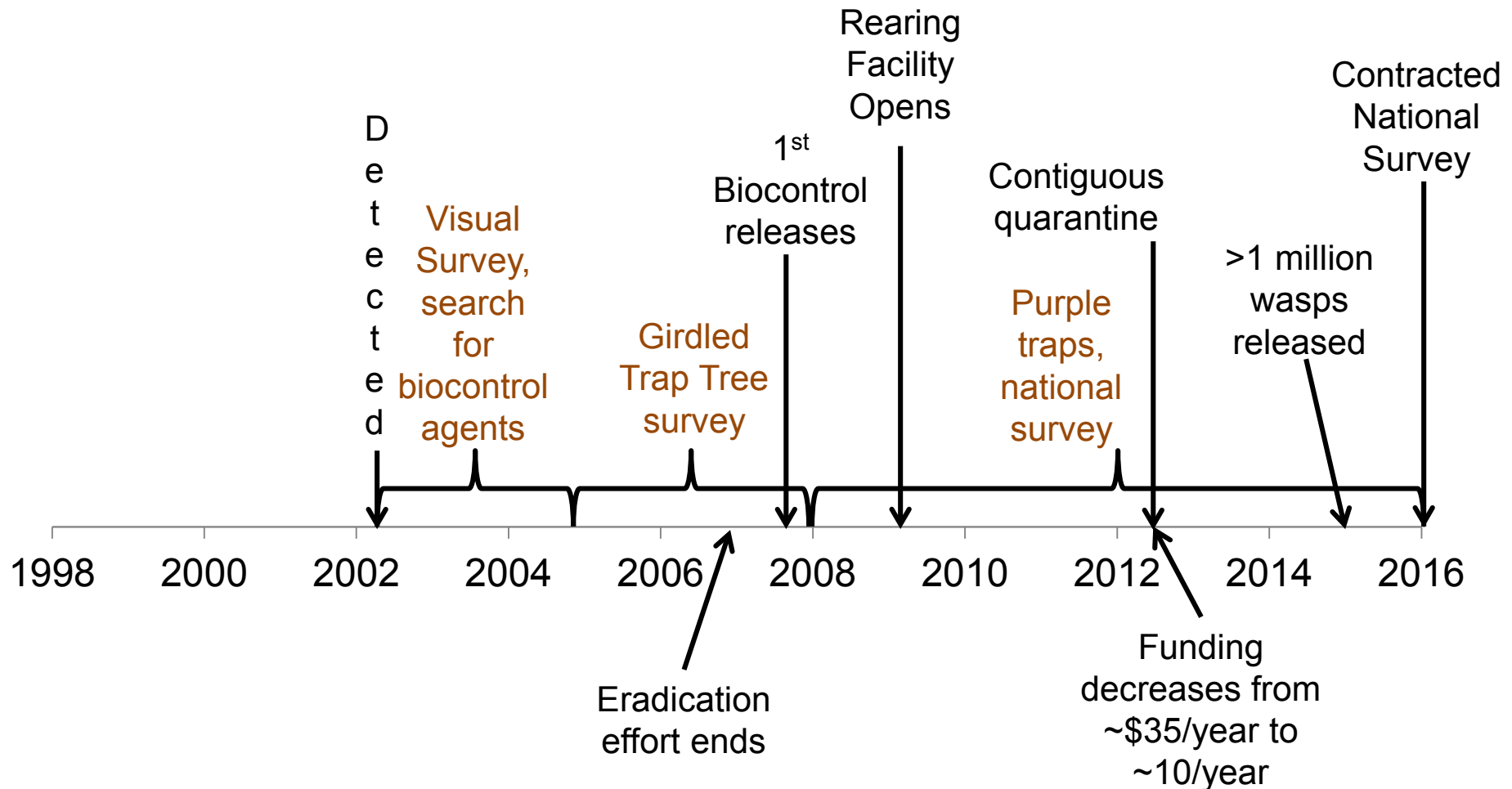
Maintain Ash as a Viable
Part of the American
Landscape



Timeline of EAB in U.S.



Timeline Of EAB Program





1 From May to September, beetles mate and the female lays 60-90 eggs, one at a time, in crevices all over the bark of healthy ash trees.

Eggs



1/25 of an inch long



2 Eggs hatch as larvae, which tunnel through bark and into tree's cambial tissue. In winter, the larvae zig zag while feeding on cambial tissue that disrupts the tree's vascular tissue, eventually killing the tree.

Larvae



Mature larvae are about an inch long



3 When warmer weather arrives (usually in April), larvae enter the pupal stage. They transform from larvae into sexually mature adults.

Pupae

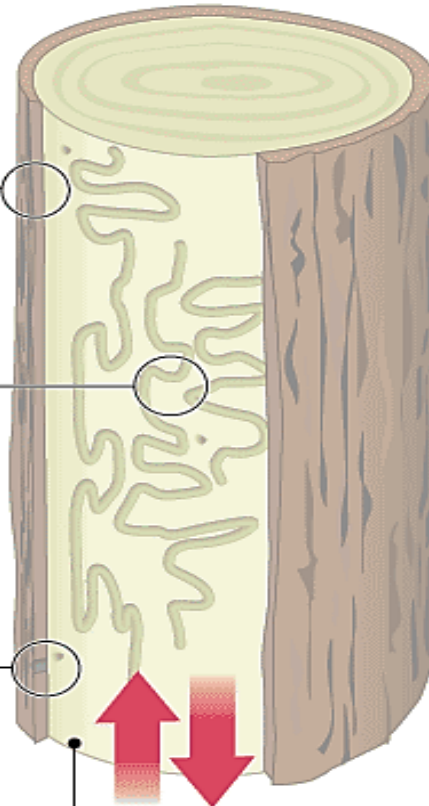


4 In mid to late May, the pupae turn into beetles and emerge through holes the larva left in the bark.

Beetle



Adult beetles are 1/3 to 1/2 inches long.



Cambial tissue:
The transportation system that takes water, minerals, and nutrients throughout the tree.

5 The cycle begins again as male and females feed on leaves at the top of trees and begin mating and laying eggs for three to four weeks before dying.



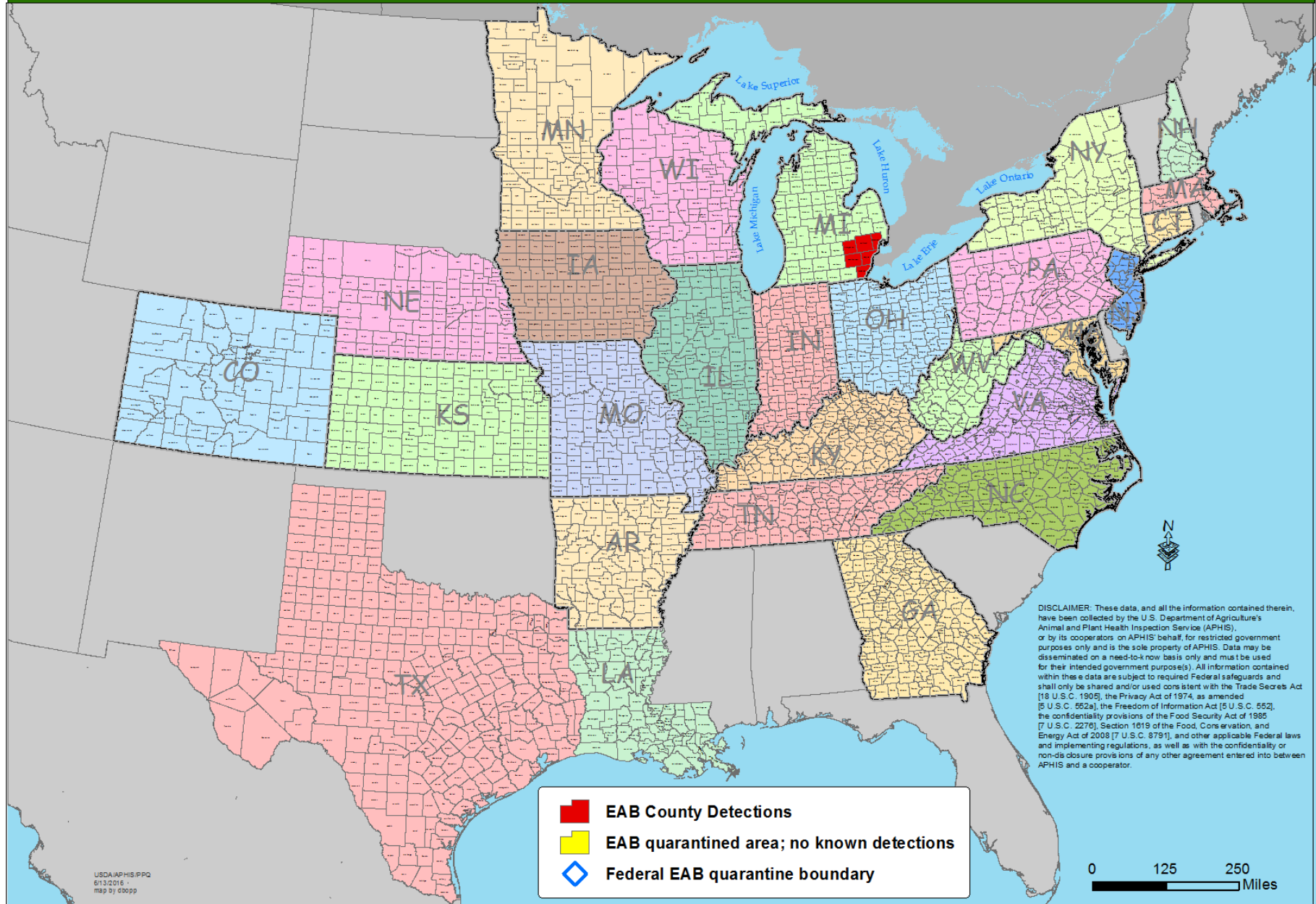


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Cooperative Emerald Ash Borer Project

EAB County Detections with Federal Quarantine

December 31, 2002



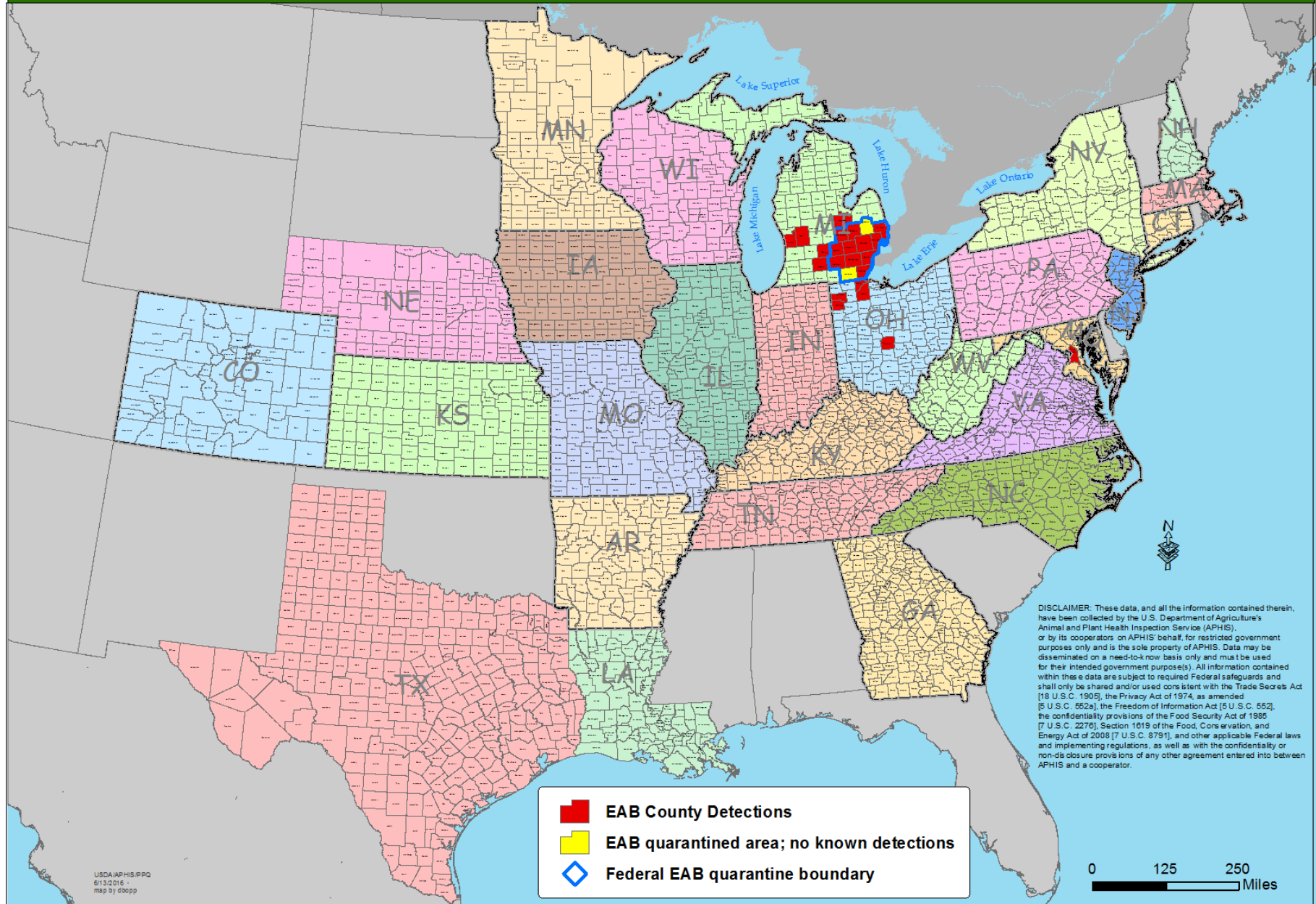


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EAB County Detections with Federal Quarantine

December 31, 2003



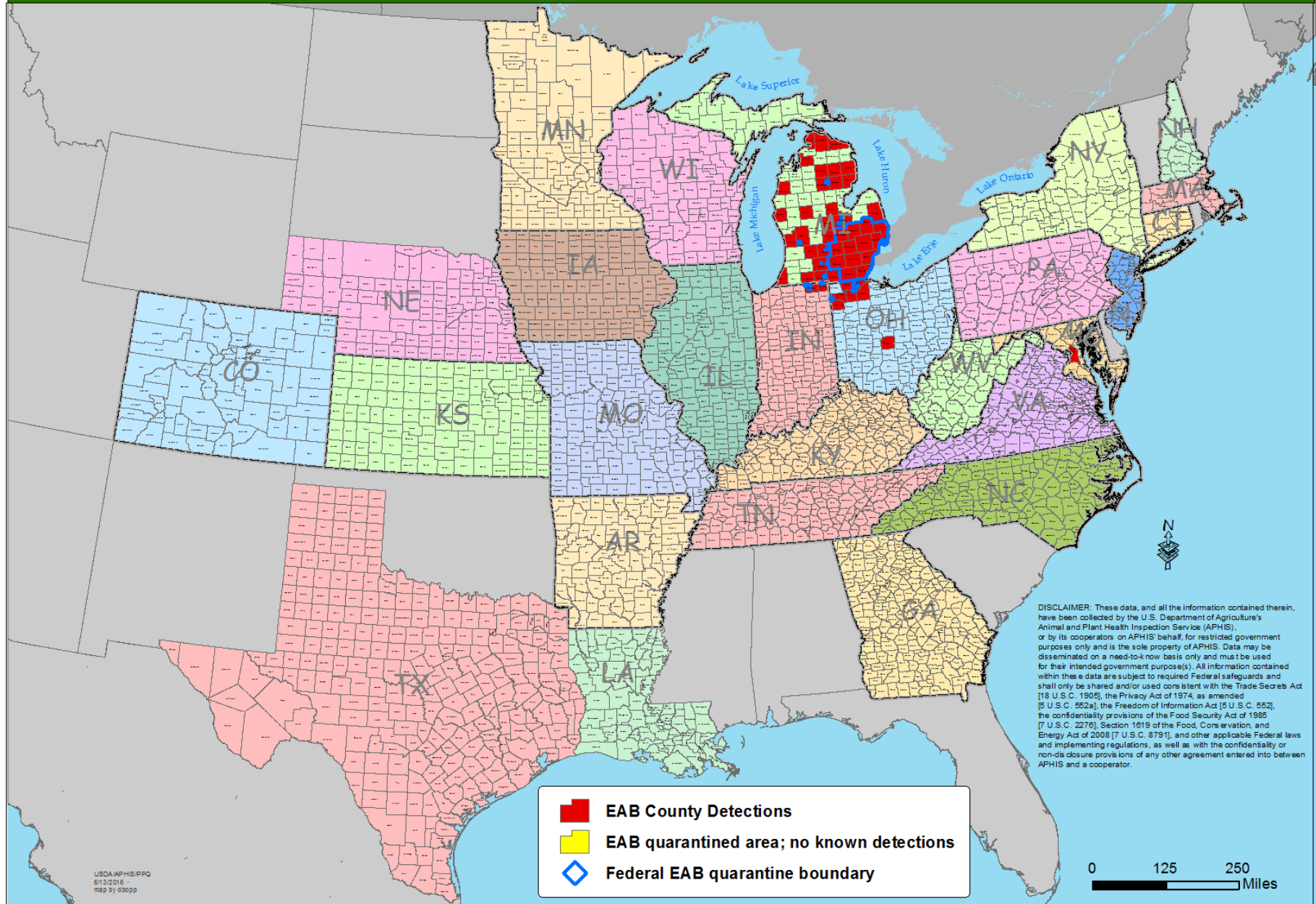


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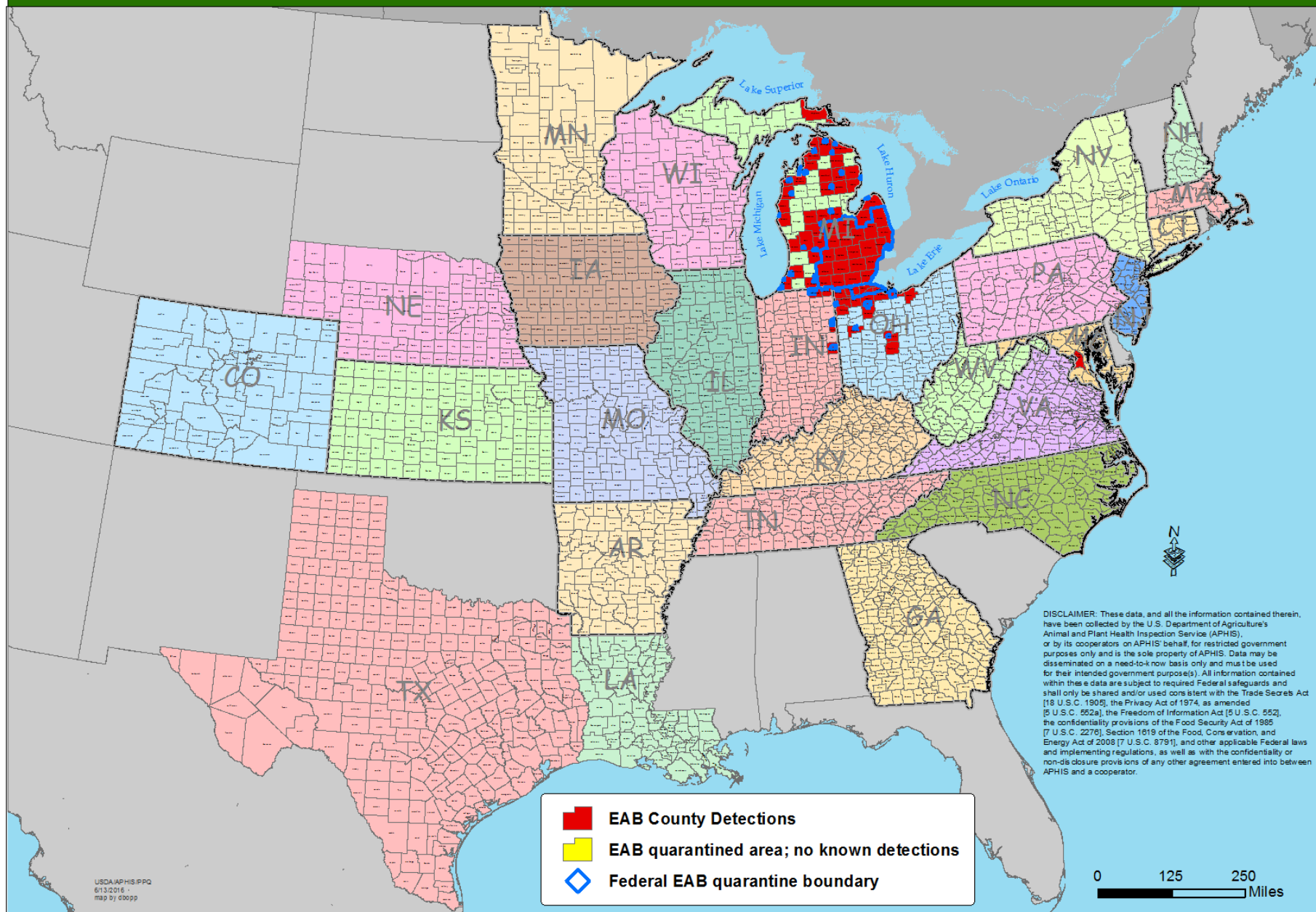
December 31, 2004



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December 31, 2005



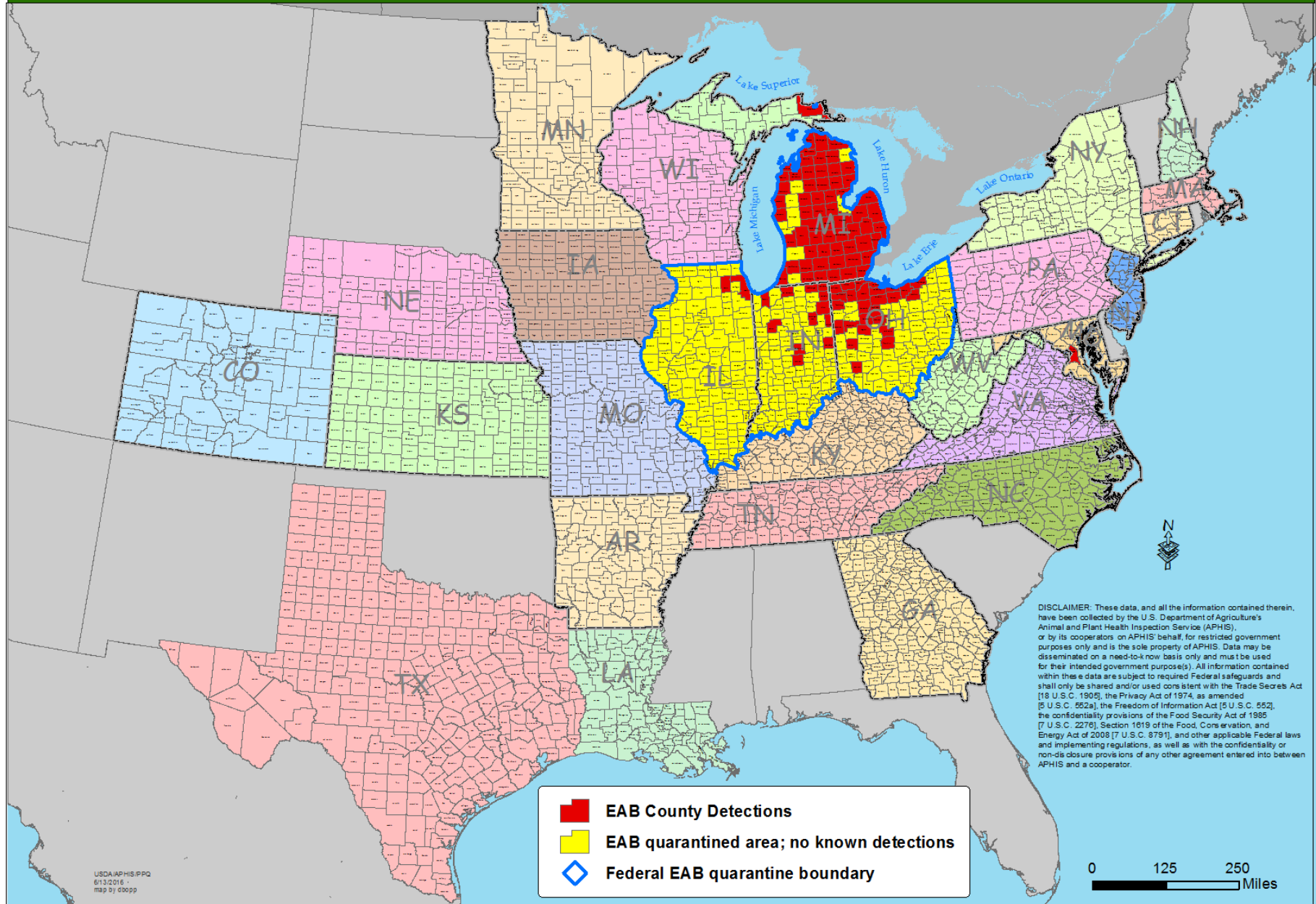


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December 31, 2006



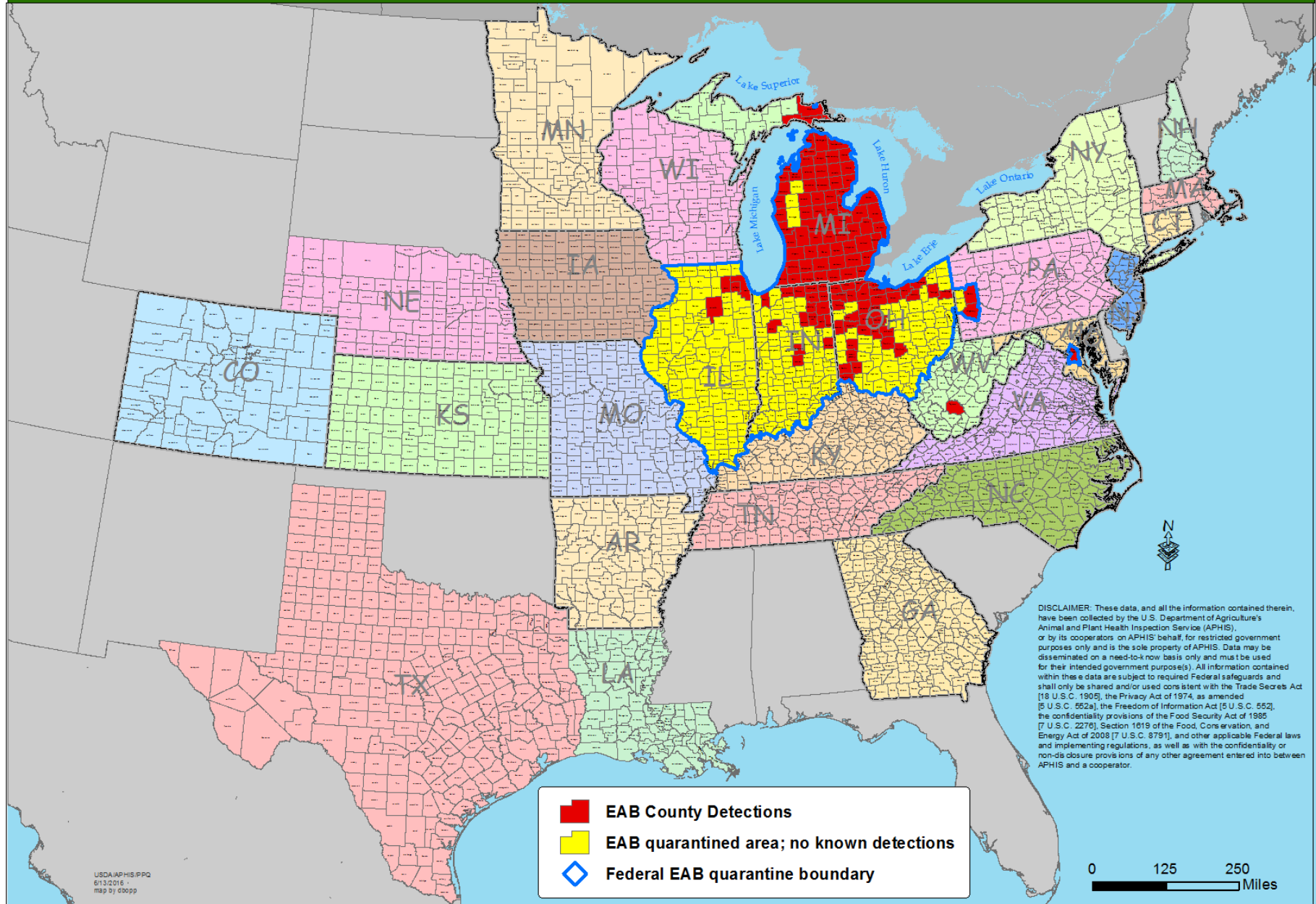


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December 31, 2007



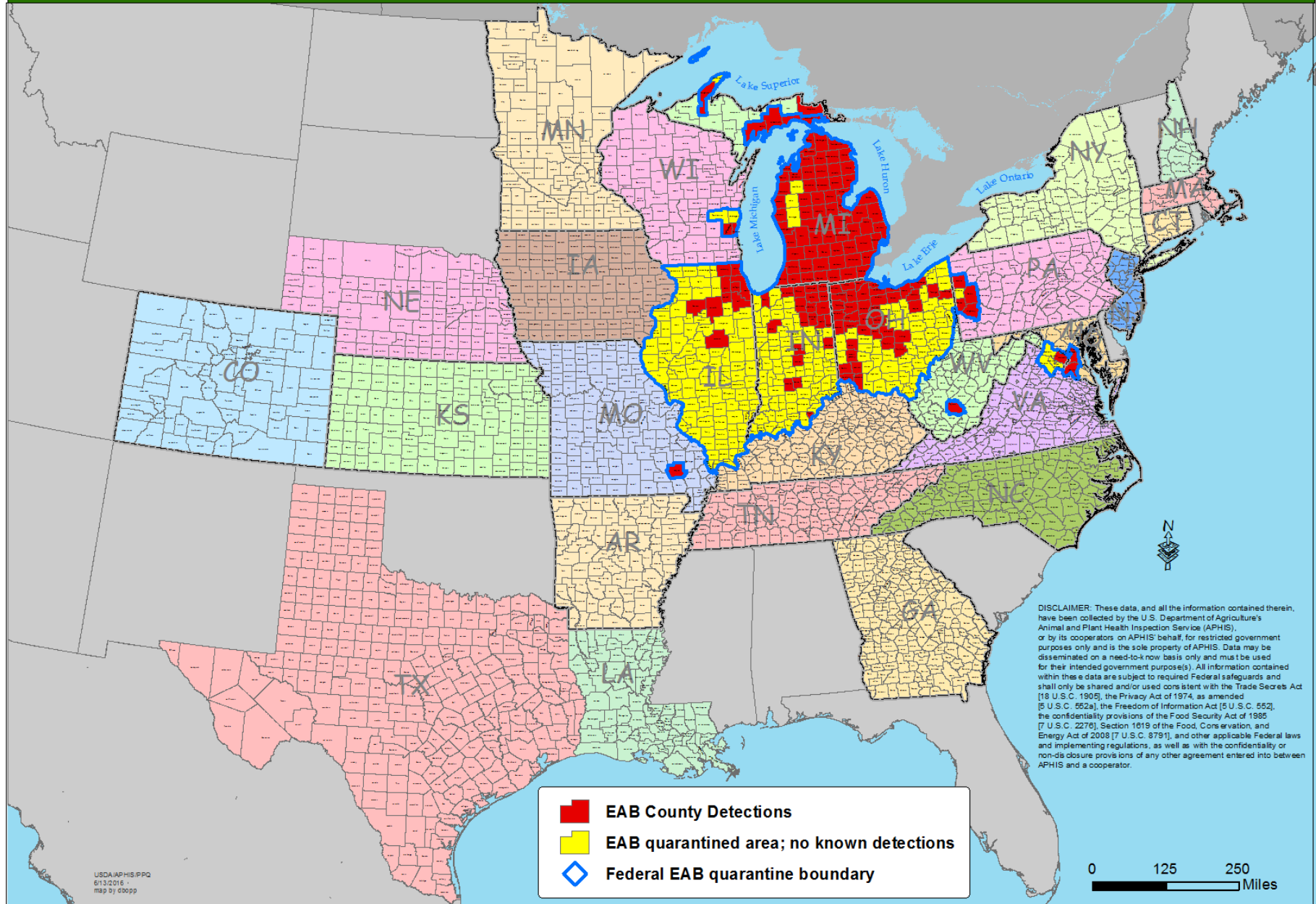


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December 31, 2008



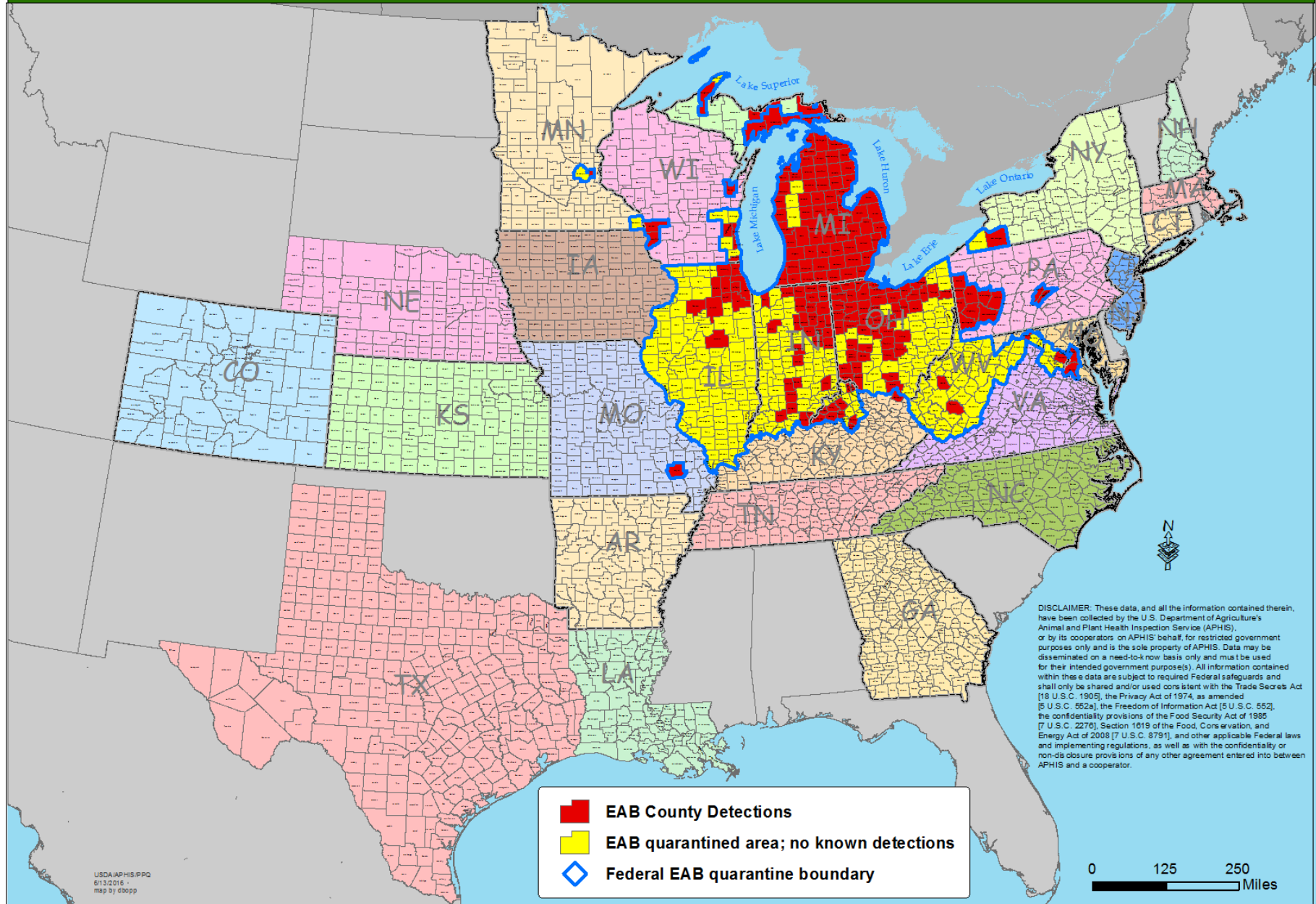


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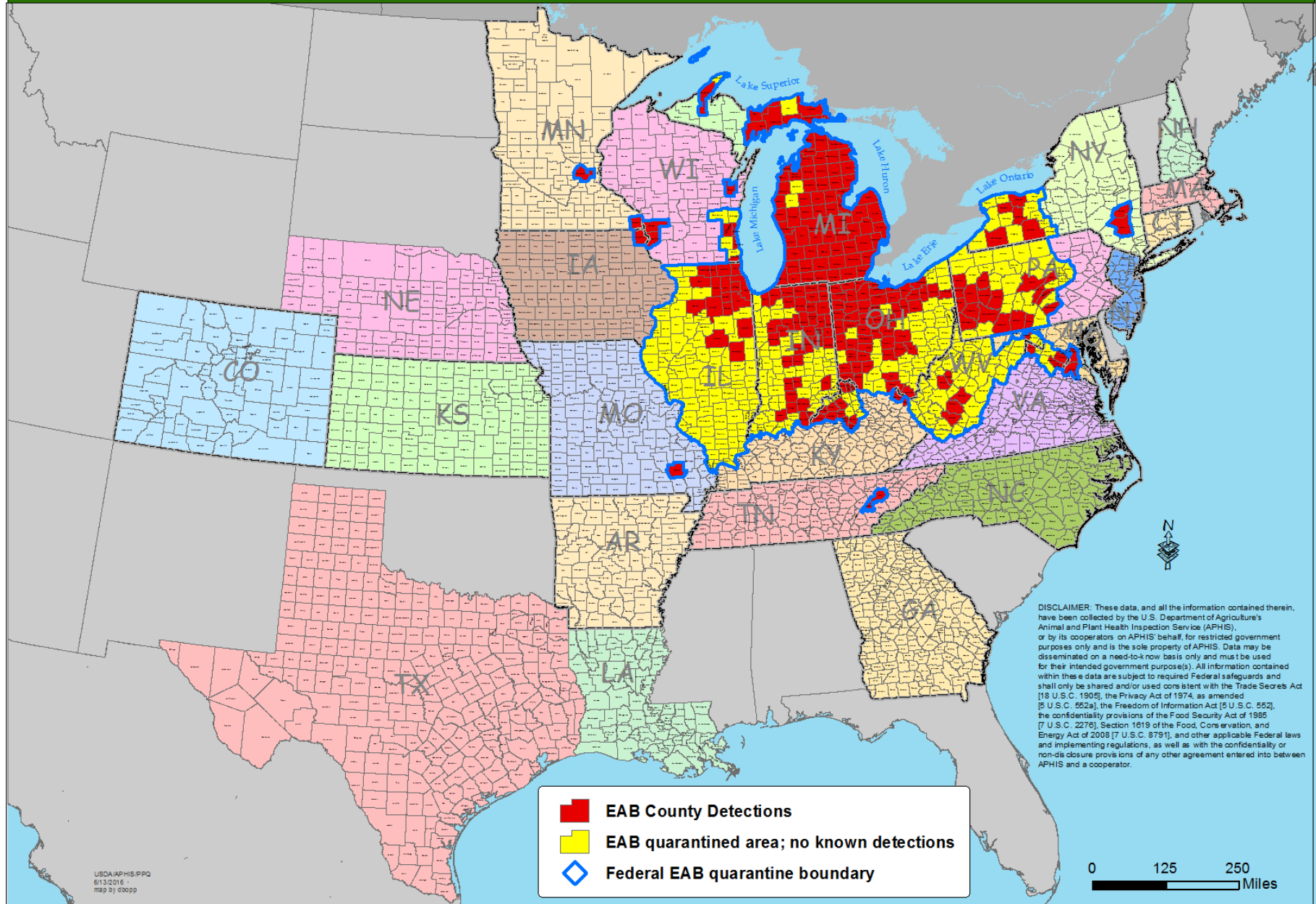


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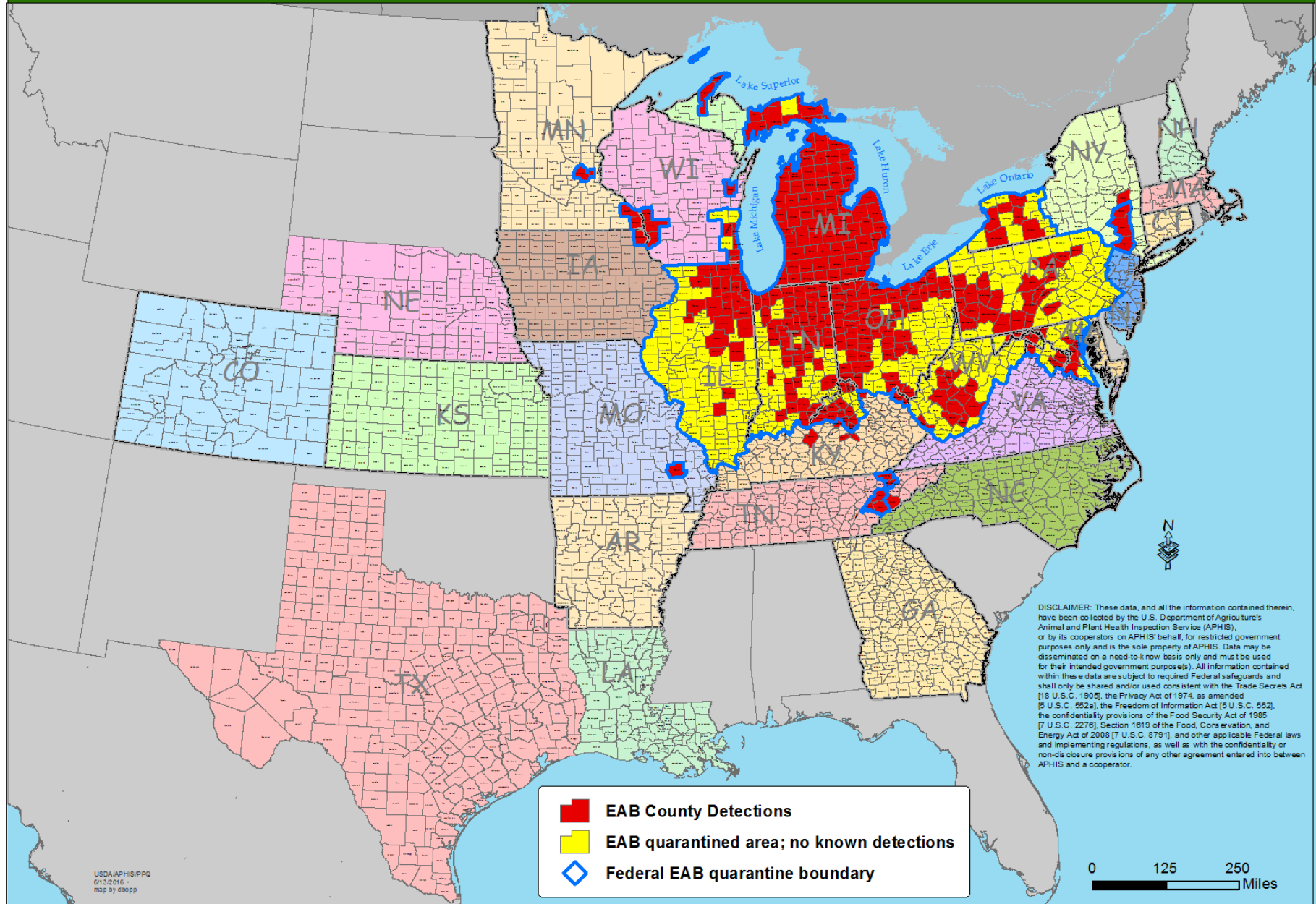


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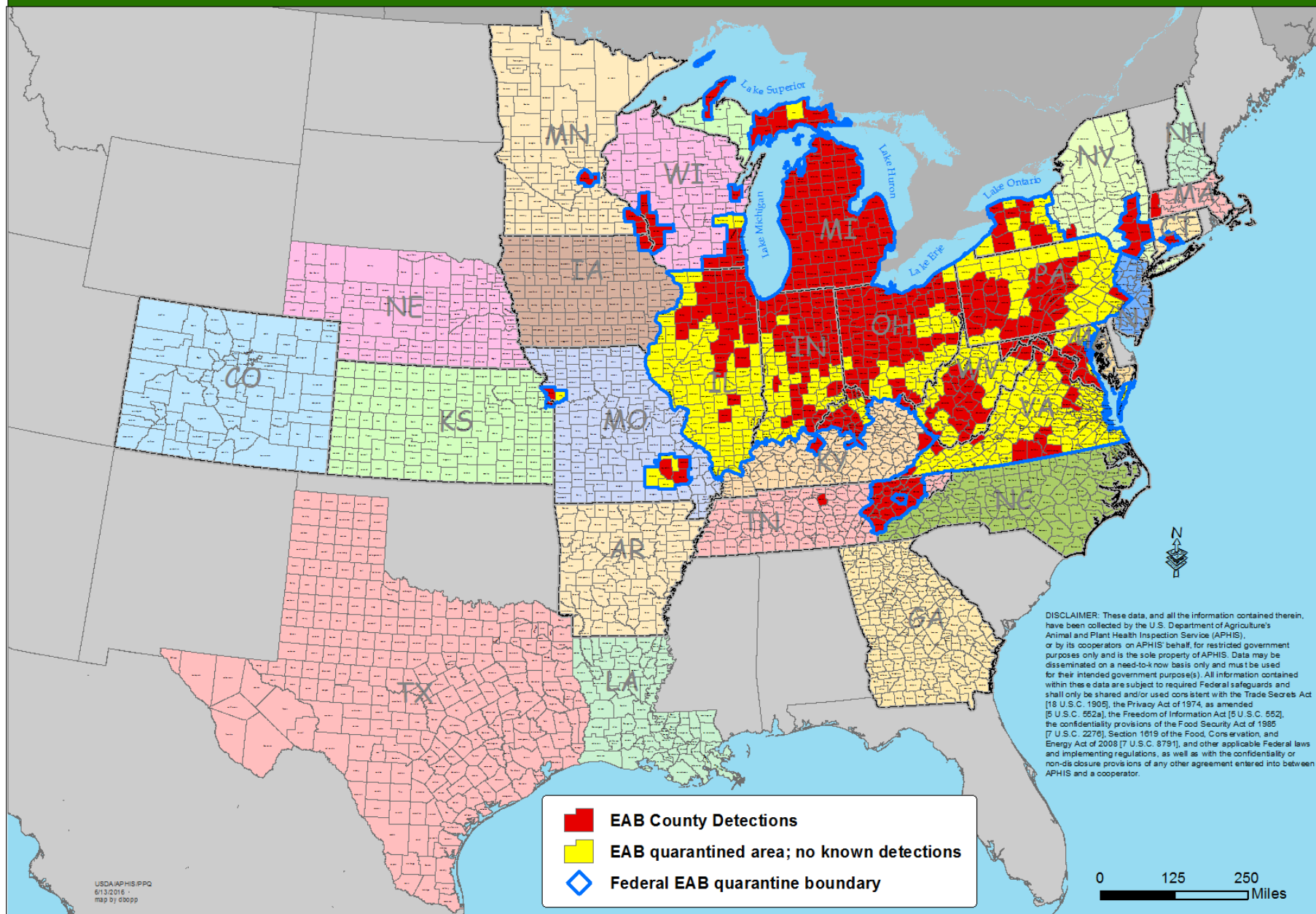
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December 31, 2011



December 31, 2012



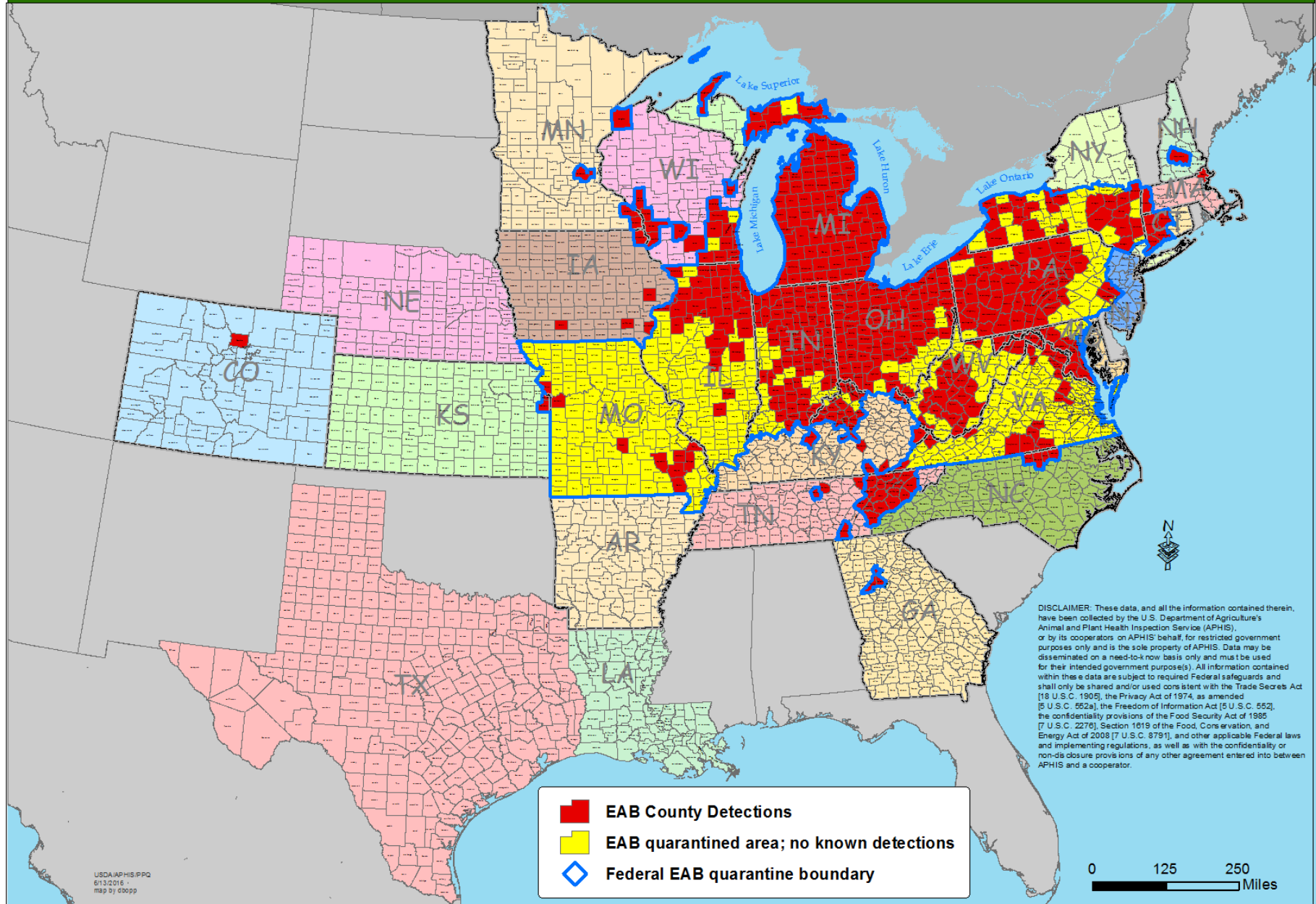


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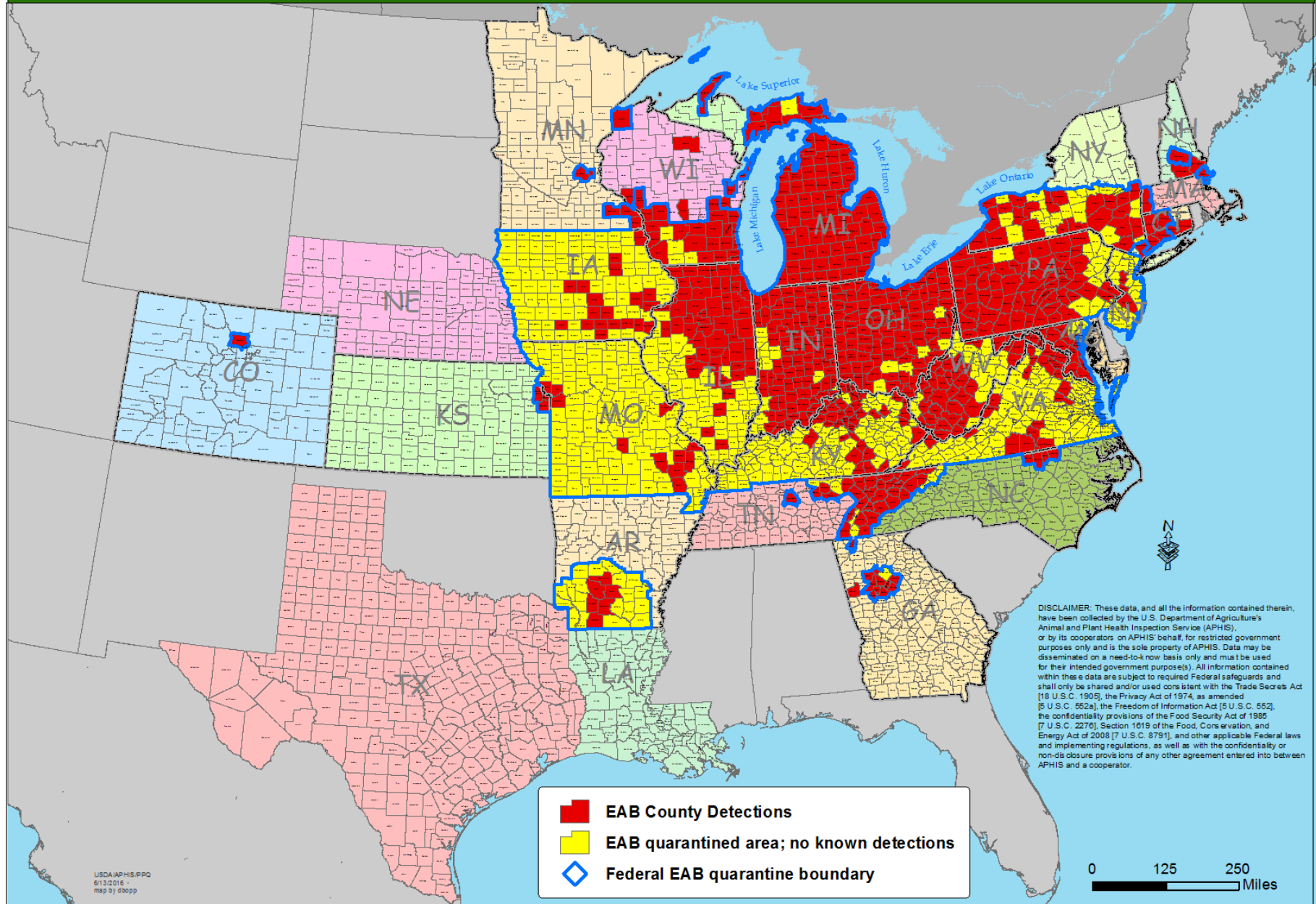


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December 31, 2014



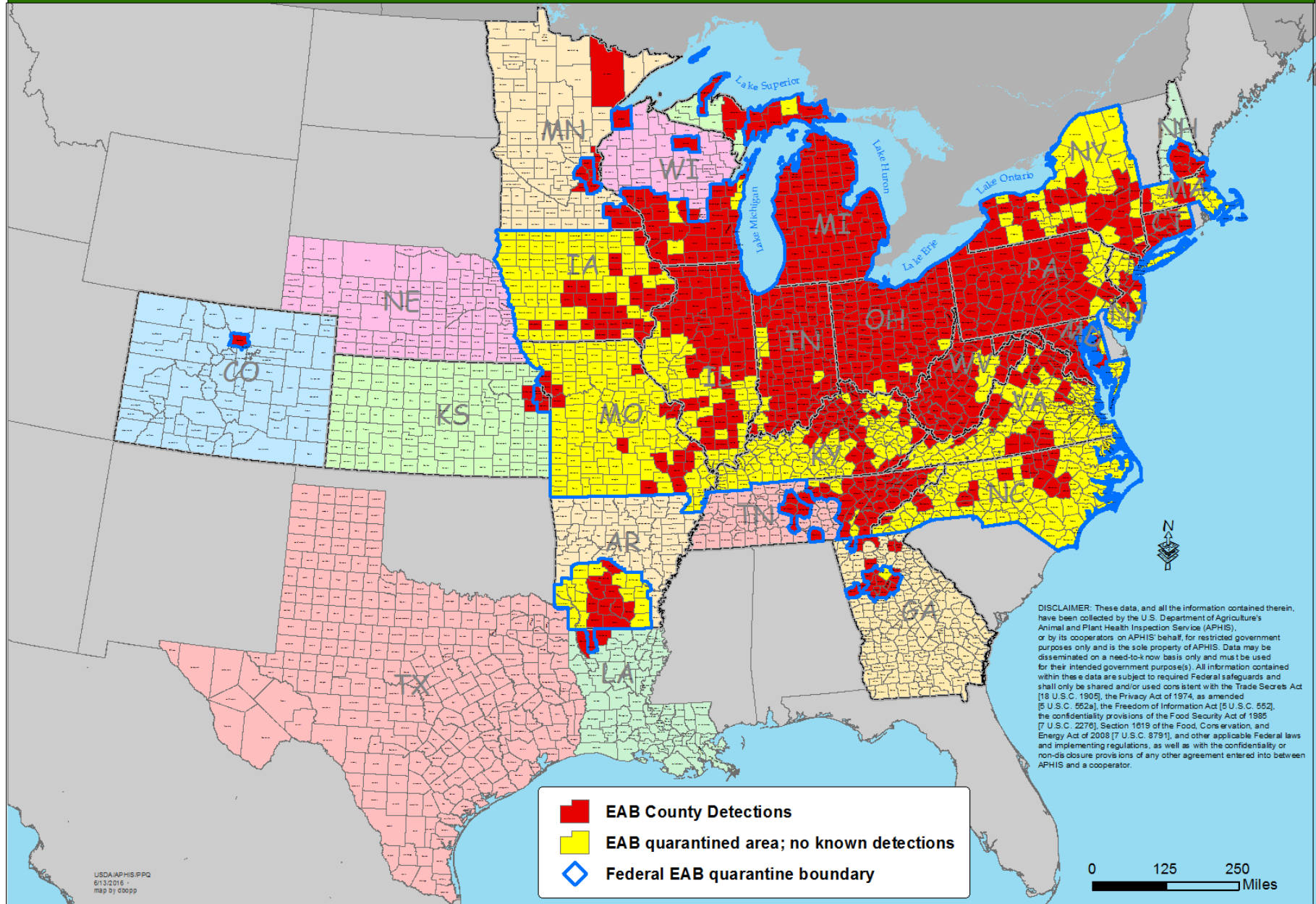


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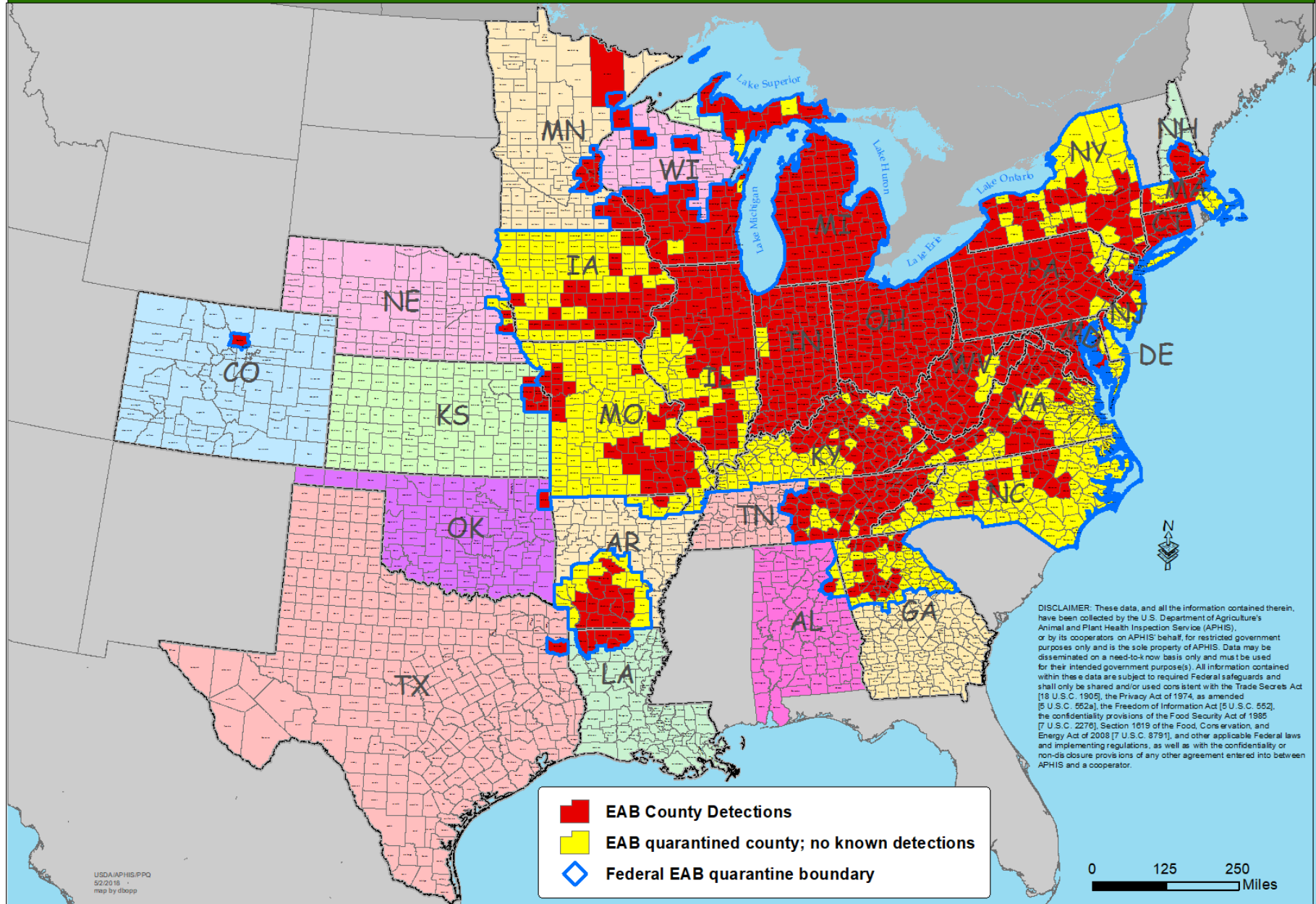


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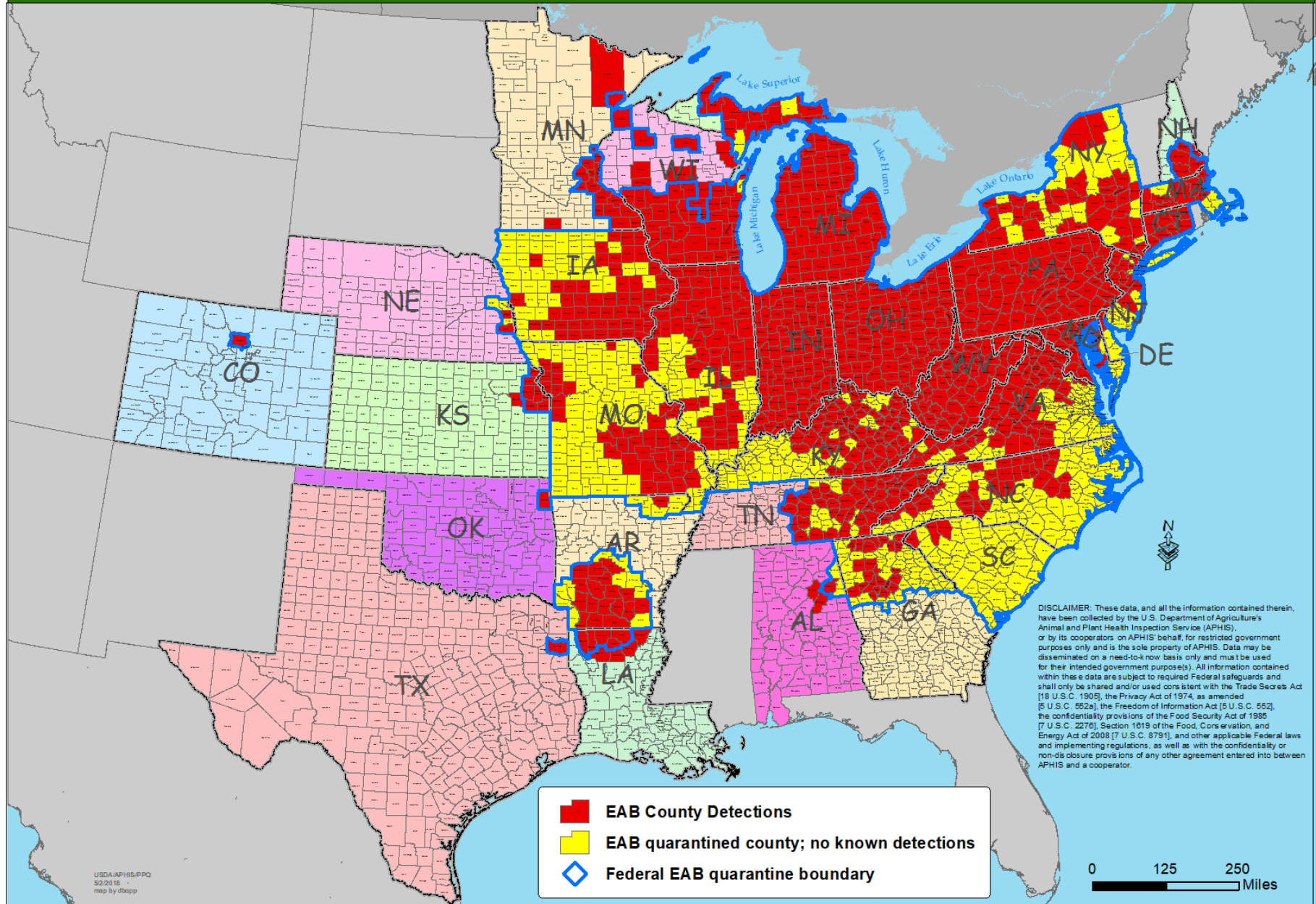


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December 31, 2017



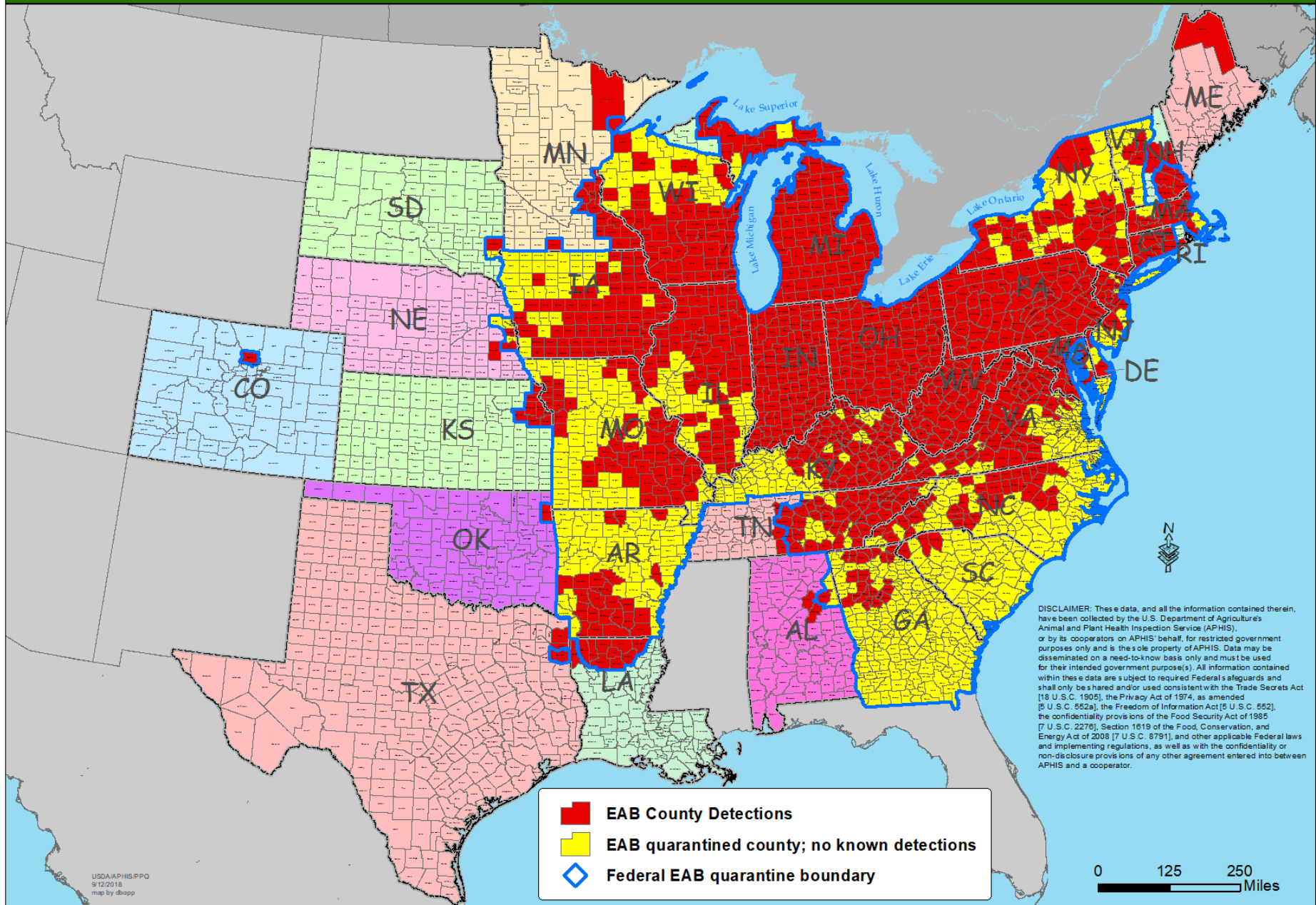


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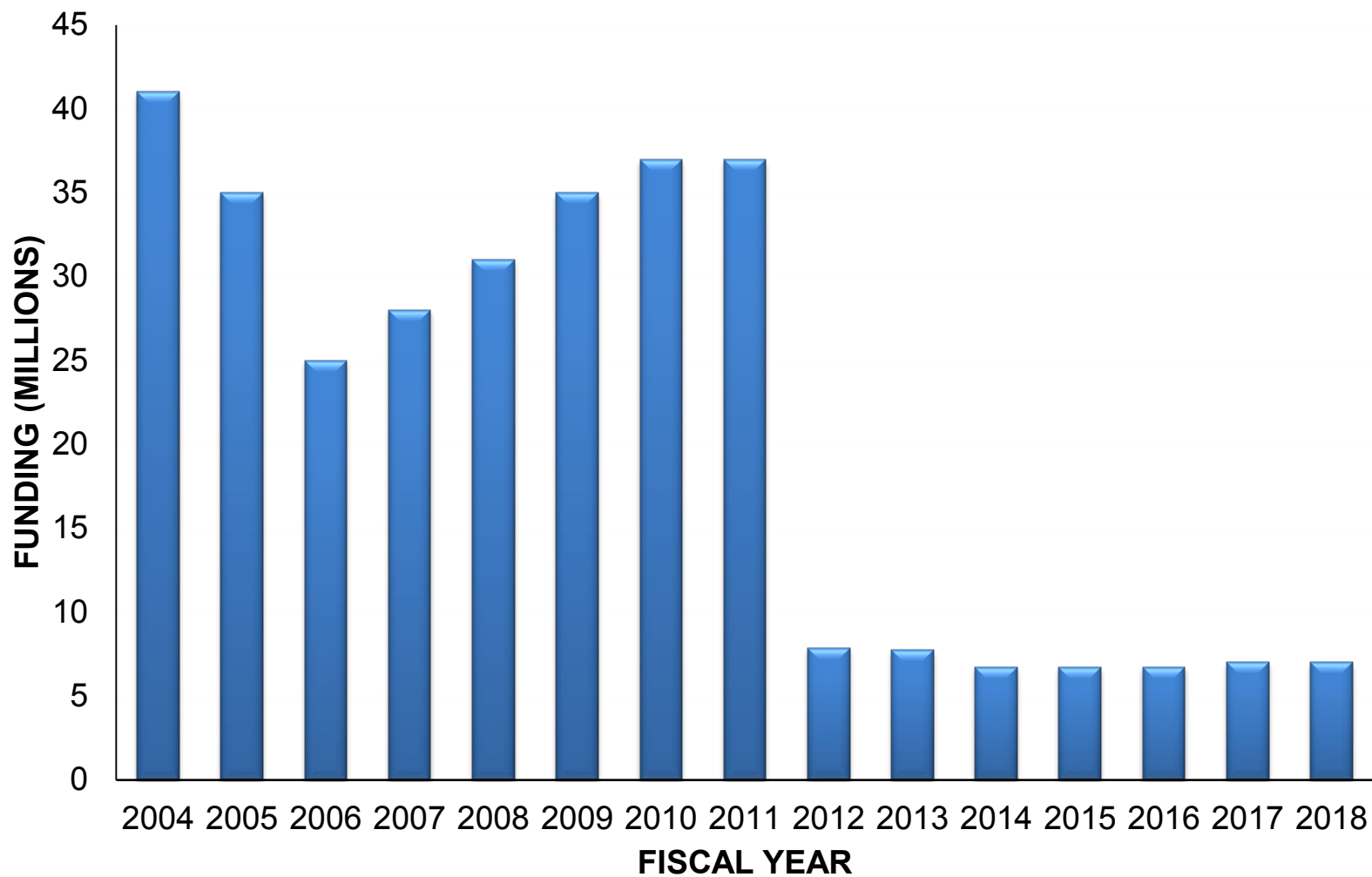
September 2018





United States Department of Agriculture

EAB Funding





Proposed Rule

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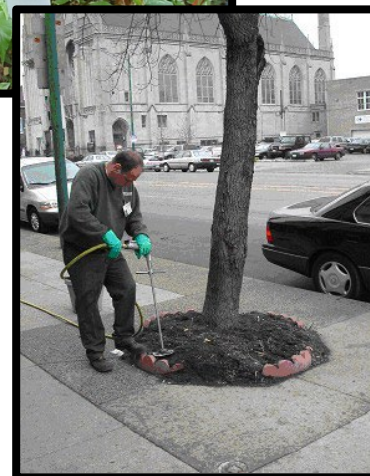
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Integrated Pest Management

- Biological Control Focus
- Host Plant Resistance
- Chemical
- Mechanical
- Outreach







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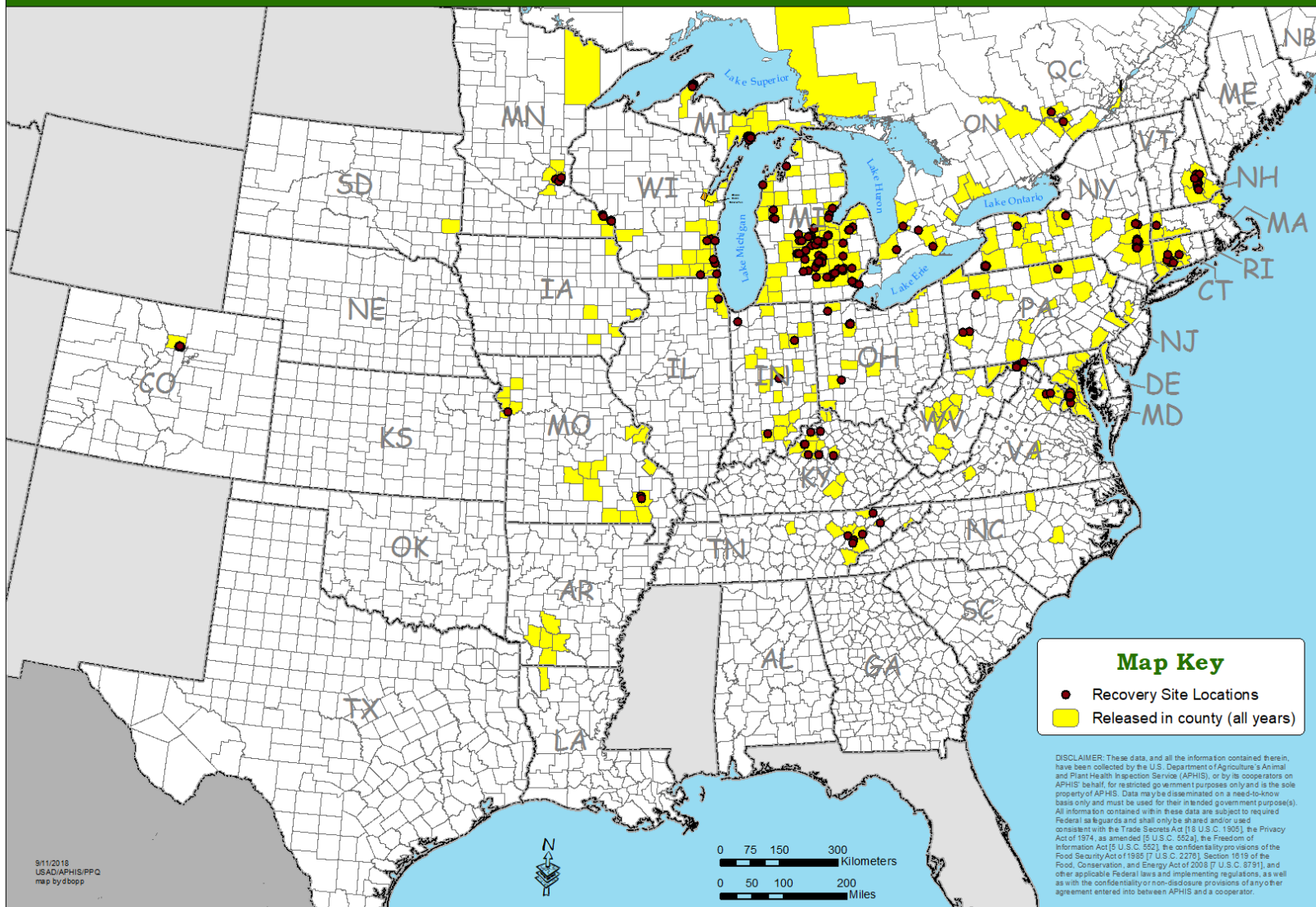


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Cooperative Emerald Ash Borer Project

North America Parasitoid Release and Recovery Locations

September 2018





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Survey / Trapping





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**DON'T MOVE
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Thank You

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