

# Regulations that apply to moving firewood right now



Webinar prepared for Firewood Outreach Coordinating Initiative, January 2019

# Before we begin, let's review some vocabulary

## Quarantine:

### Geographic boundary that creates isolation of a threat

- External quarantines keep bad things **OUT** of a defined area, to protect that non-infested defined area from harm.
- Internal quarantines (sometimes just called quarantines) keep bad things **INSIDE** a defined already infested area, to prevent the spread of the bad thing beyond the existing known limit.

# Before we begin, let's review some vocabulary

## **Regulated Item:**

**An item that can serve as a carrier for the problem being regulated, so it too is regulated as part of the rule, law, or quarantine.**

- Regulated items cannot cross quarantine boundaries without appropriate treatment, inspection, or certification.
- In this presentation, I'll frequently talk about firewood as a regulated item, but that is not the only regulated item for any of the regulated pests.

# Before we begin, let's review some vocabulary

Temp C	Temp F	Time (min)	Shorthand / Casual Name	2012 PPQ treatment manual code	Notably is applied to:
56	133	30	Universal Heat Treatment	T 314 b	Gypsy moth; Sirex woodwasp; "Softwood" firewood and spruce logs from Canada into USA; Firewood from USA into Canada; ISPM 15 for solid wood packaging.
60	140	60	Emerald ash borer	T 314 a	Emerald ash borer; State standard of MN, NH, OR, WI "Hardwood" firewood from Canada into USA.
71	160	75	Various Wood Pests / Asian longhorned beetle	T 314 c	Asian longhorned beetle*; State standard of FL, IL, ME, NY, PA, UT, and VT; 314c was the EAB standard until 2012.

\*In 2014 there was a proposed rule that would have reclassified the standard for Asian longhorned beetle (ALB) into the 314a level. After proposal and comment, the draft rule was not accepted as a final rule, and therefore ALB remained at its original treatment of 314c. It is worth noting that this process resulted in some confusion about the current standard for ALB; it remains at 314c.

Regulations that apply to firewood can be wrangled into several broad categories

- **Pest Driven Regulations**

- Federally regulated pests
- Pests of Concern that are not federally regulated

- **Spatially Drawn Regulations**

- International Boundaries
- Individual State Border
- Land Owning Entity
- Less-than-state Size Geographic Boundary

- **Distance from Origin Regulations**

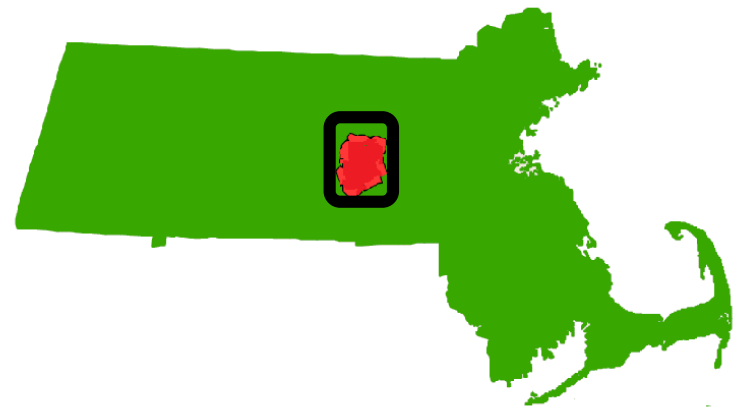
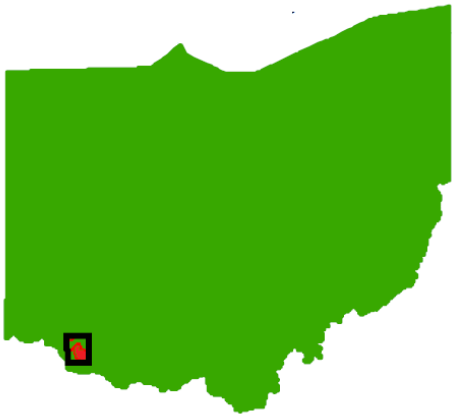
# Regulations that apply to firewood can be wrangled into several broad categories

- **Pest Driven Regulations**

- Federally regulated pests via USDA APHIS
  - Asian Longhorned Beetle (ALB)
  - Emerald ash borer (EAB)
  - European and Asian gypsy moth (GM)
  - Giant african snail
  - Pine shoot beetle
  - Red imported fire ant
  - Sudden oak death / *P. ramorum*

# Asian longhorned beetle quarantined areas overview

Derived from Ohio, New York, and Massachusetts quarantine maps





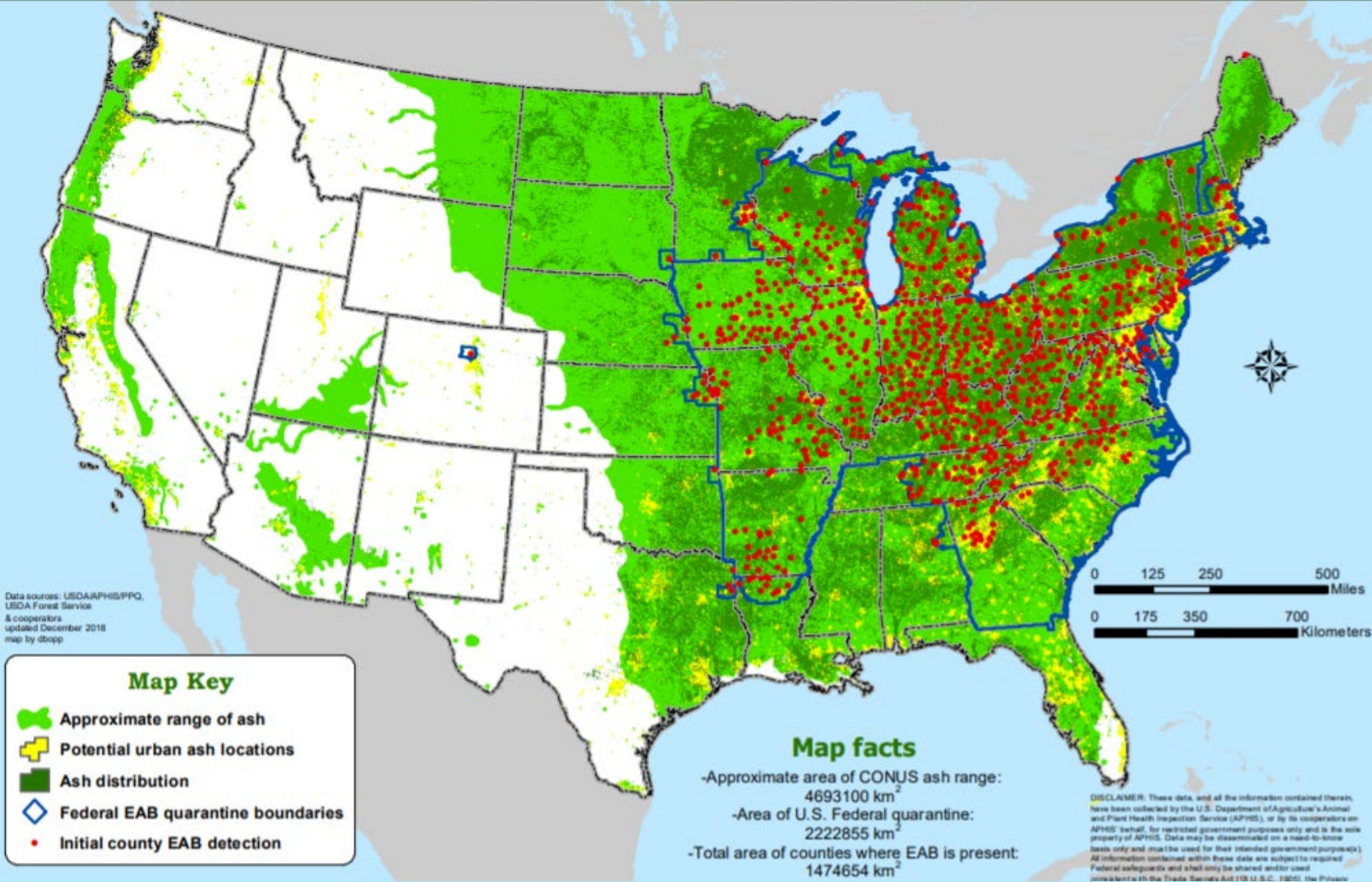


United States  
Department of  
Agriculture

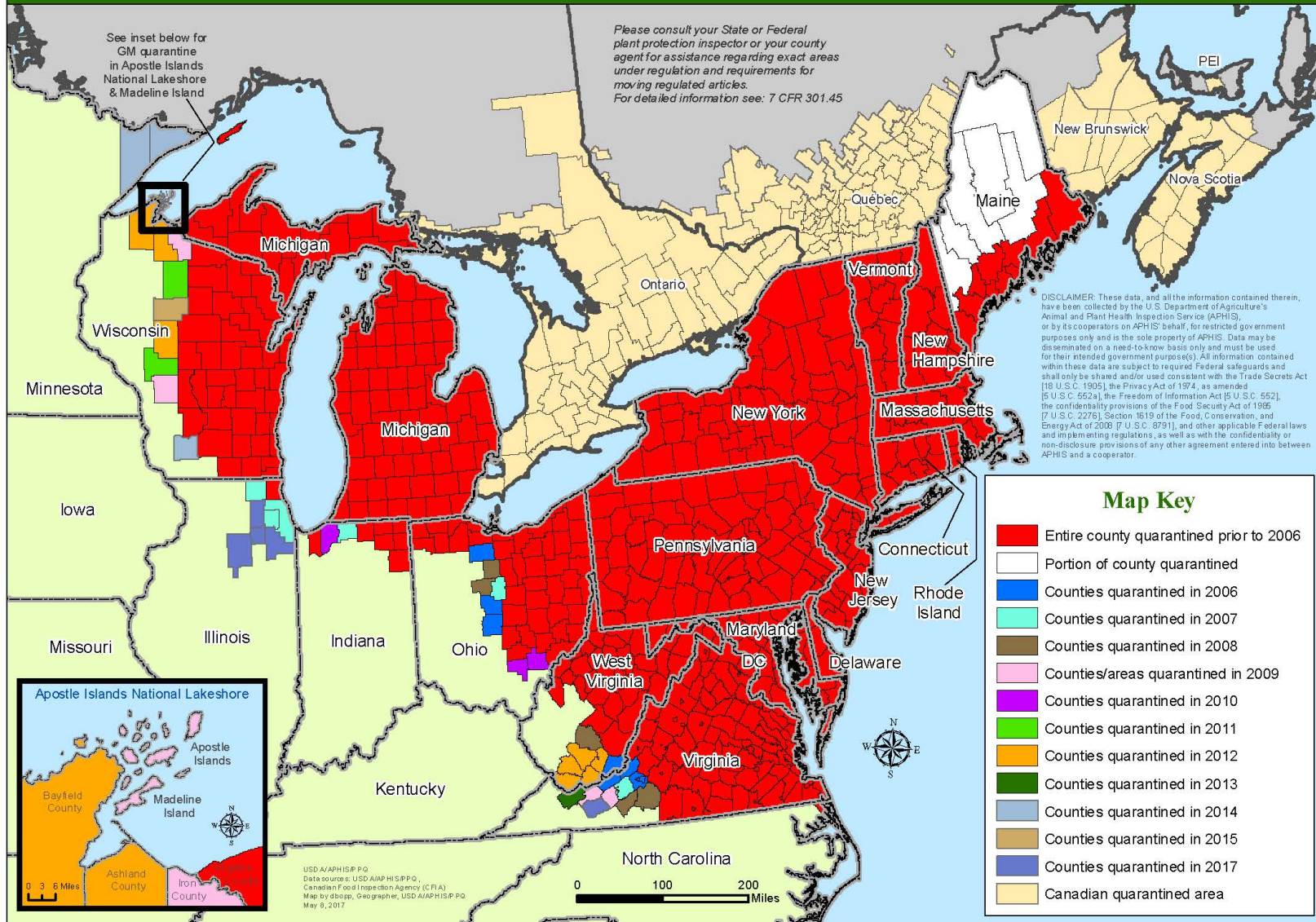
# Cooperative Emerald Ash Borer Project

Approximate range of ash species in the Contiguous U.S.  
with EAB positives and Federal quarantines

December 3, 2018

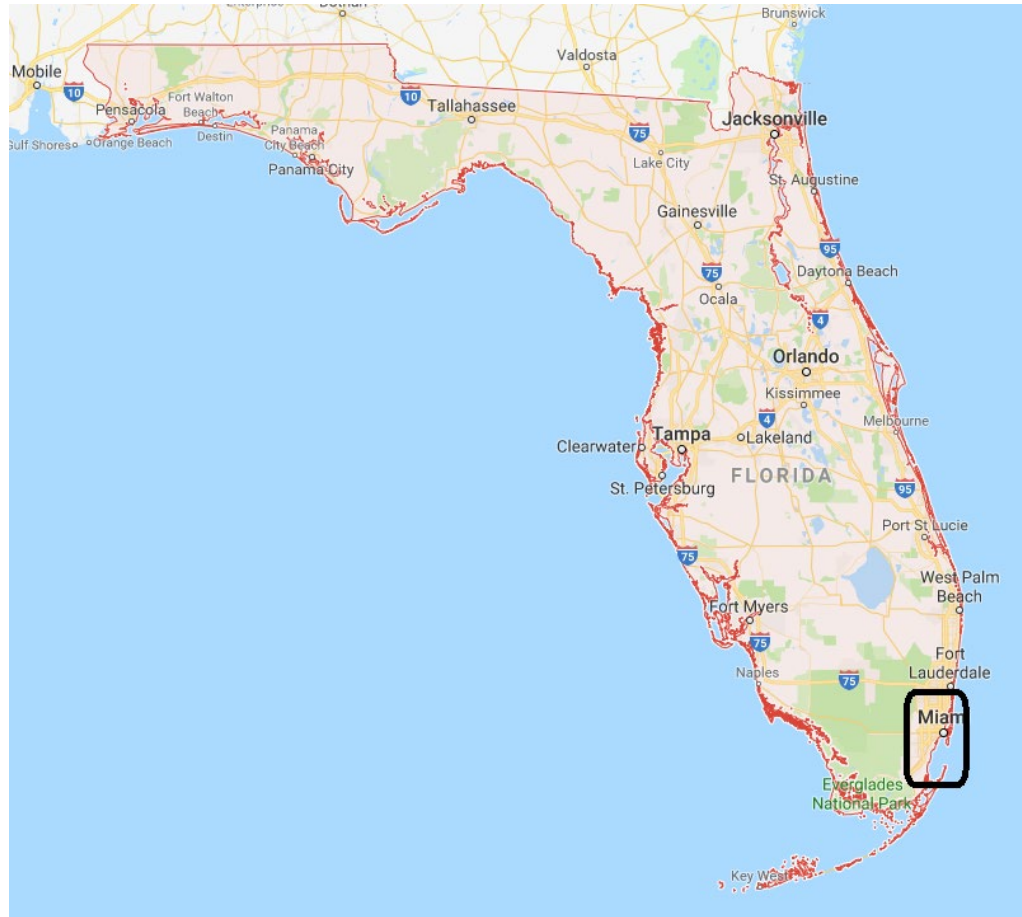






# Giant African Snail quarantined area overview

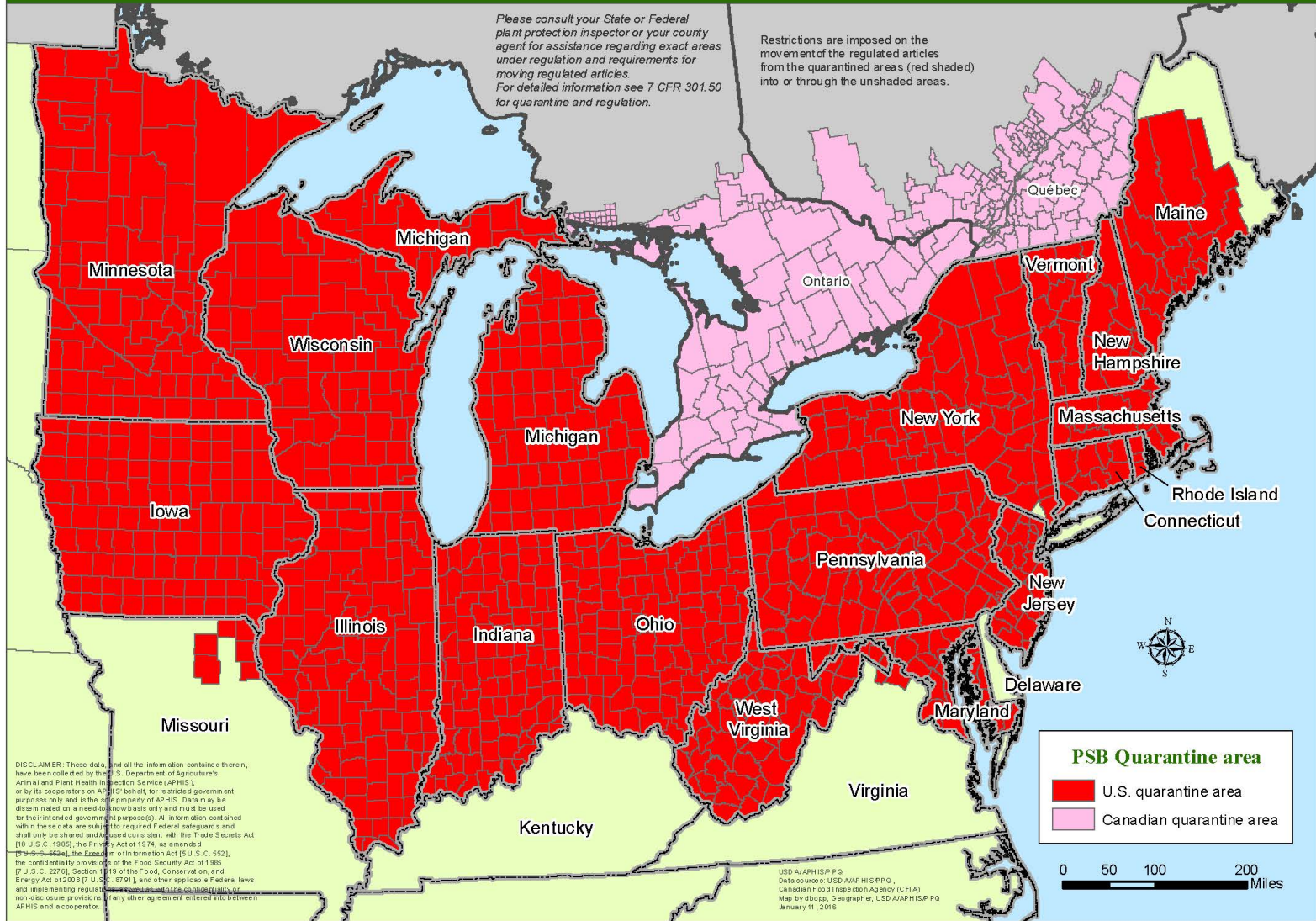
Sketched for general scale from Miami-Dade and Broward Counties quarantine map







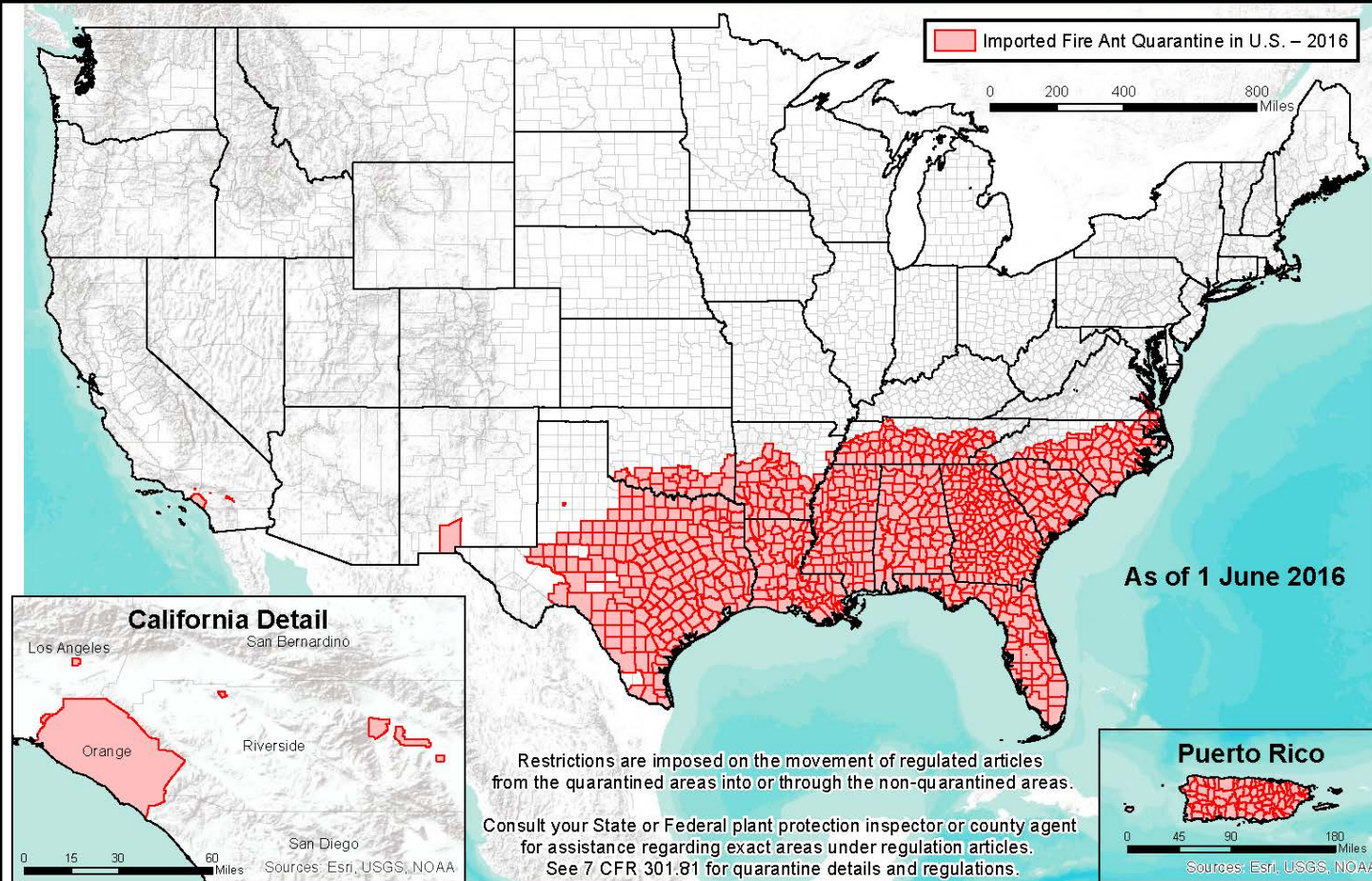
# Pine Shoot Beetle (*Tomicus piniperda*) North America quarantine area





United States  
Department of  
Agriculture

# Imported Fire Ant Quarantine



USDA, APHIS, PPG  
GIS Specialist  
1506 Klondike Rd Suite 306  
Conyers, GA 30094

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere  
Projection: Mercator Auxiliary Sphere  
Datum: WGS 1984  
Data Source: PPG, ESRI

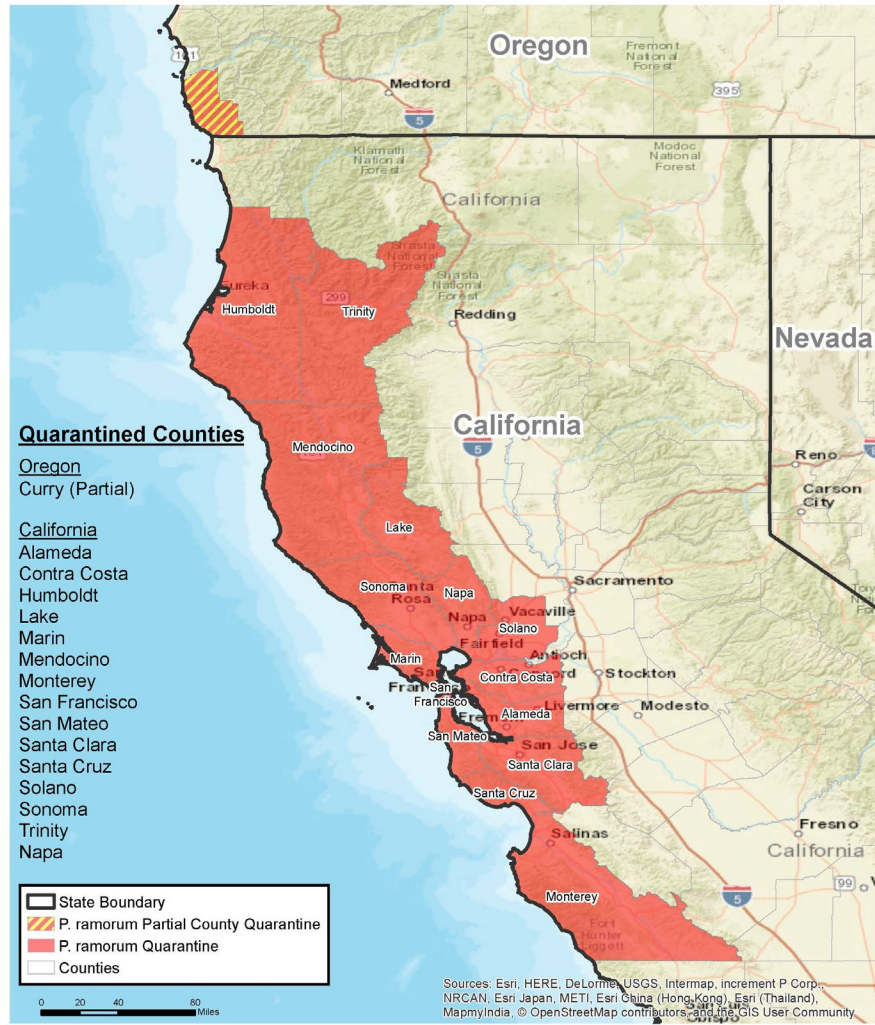


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# *P. ramorum* Federal Quarantine Status



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Coordinate System: GCS WGS 1984  
Datum: WGS 1984  
Date: 8/26/2016  
Data Source: ESRI, PPO

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# Regulations that apply to firewood can be wrangled into several broad categories

- **Pest Driven Regulations**

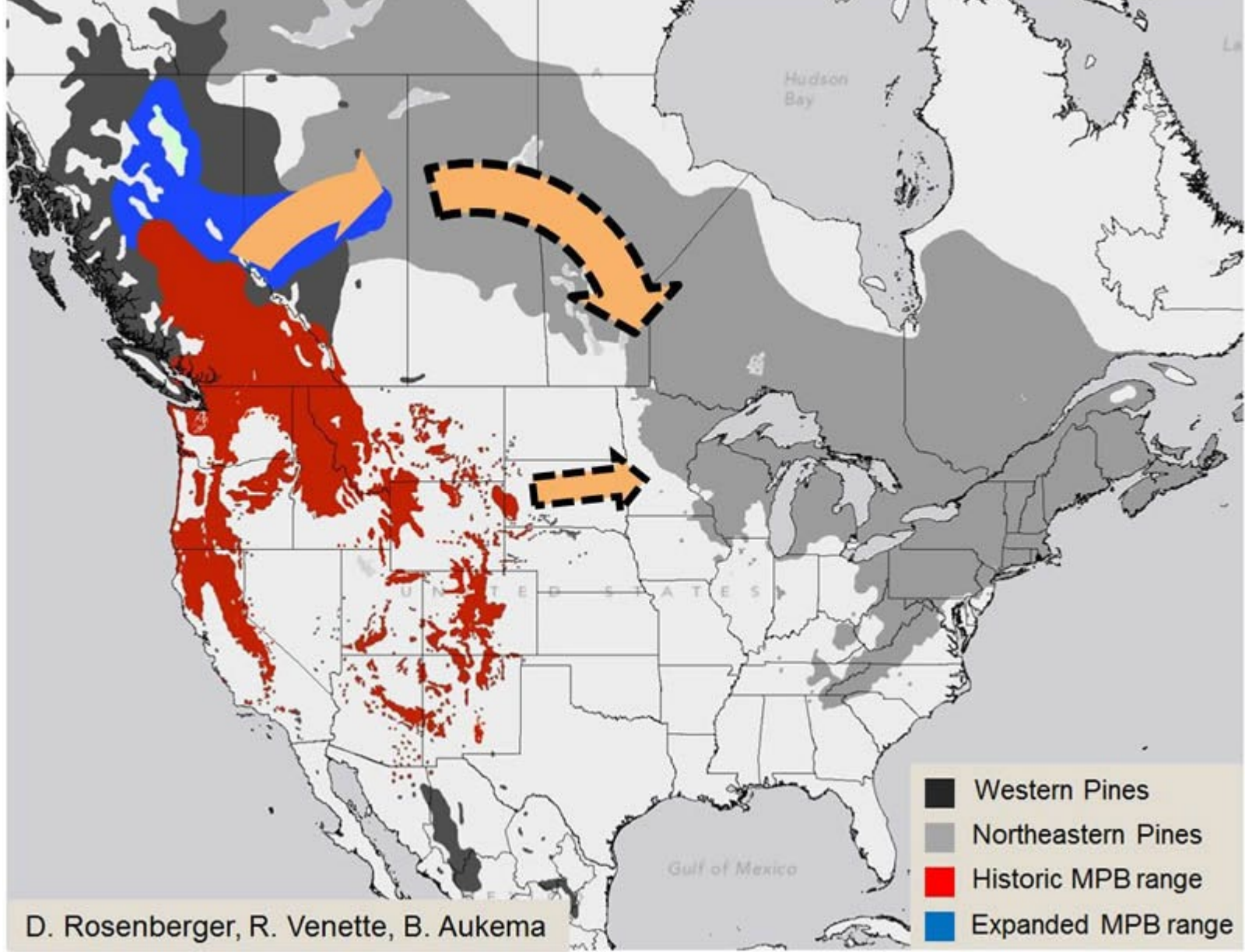
- Pests of Concern that are not federally regulated
  - Mountain Pine Beetle (MN Exterior Quarantine)
  - Rapid 'Ohi'a Death (HI Inter-island Quarantine)
  - Spotted Lanternfly
  - Thousand Cankers Disease of Walnut



**1**  **DON'T MOVE 'ŌHI'A WOOD**

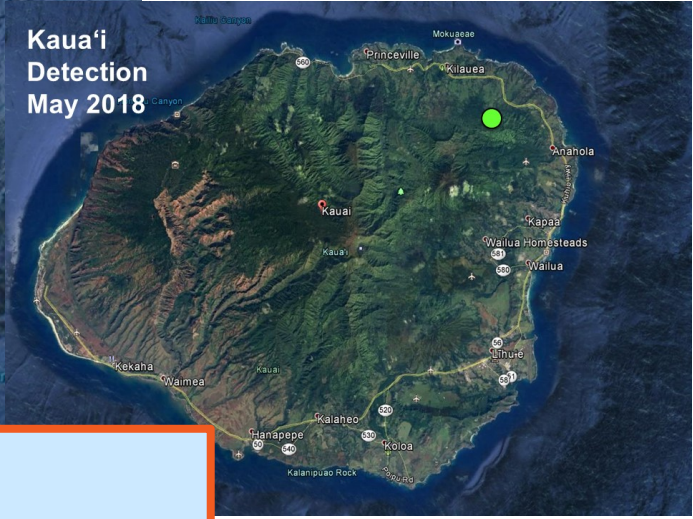
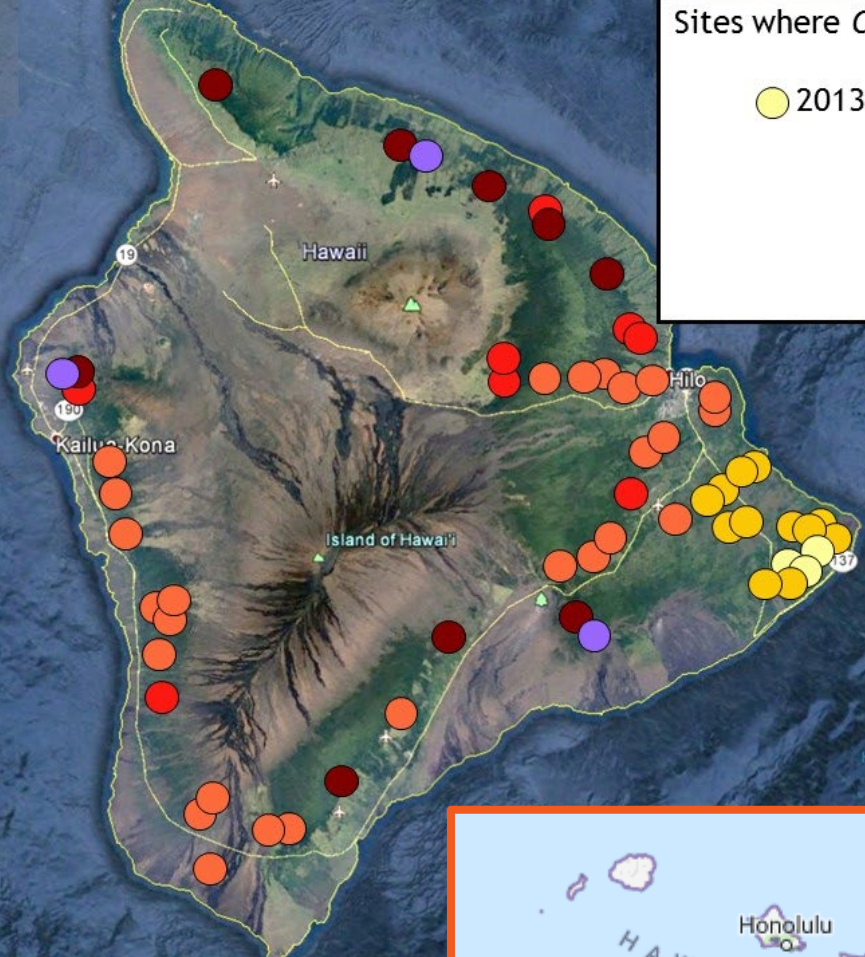
Don't move 'ōhi'a wood, firewood or posts, especially from an area known to have ROD. If you don't know where the wood is from, don't move it.





Sites where *Ceratomyx* confirmed

- 2013 and before
- 2014
- 2015
- 2016
- 2017
- 2018

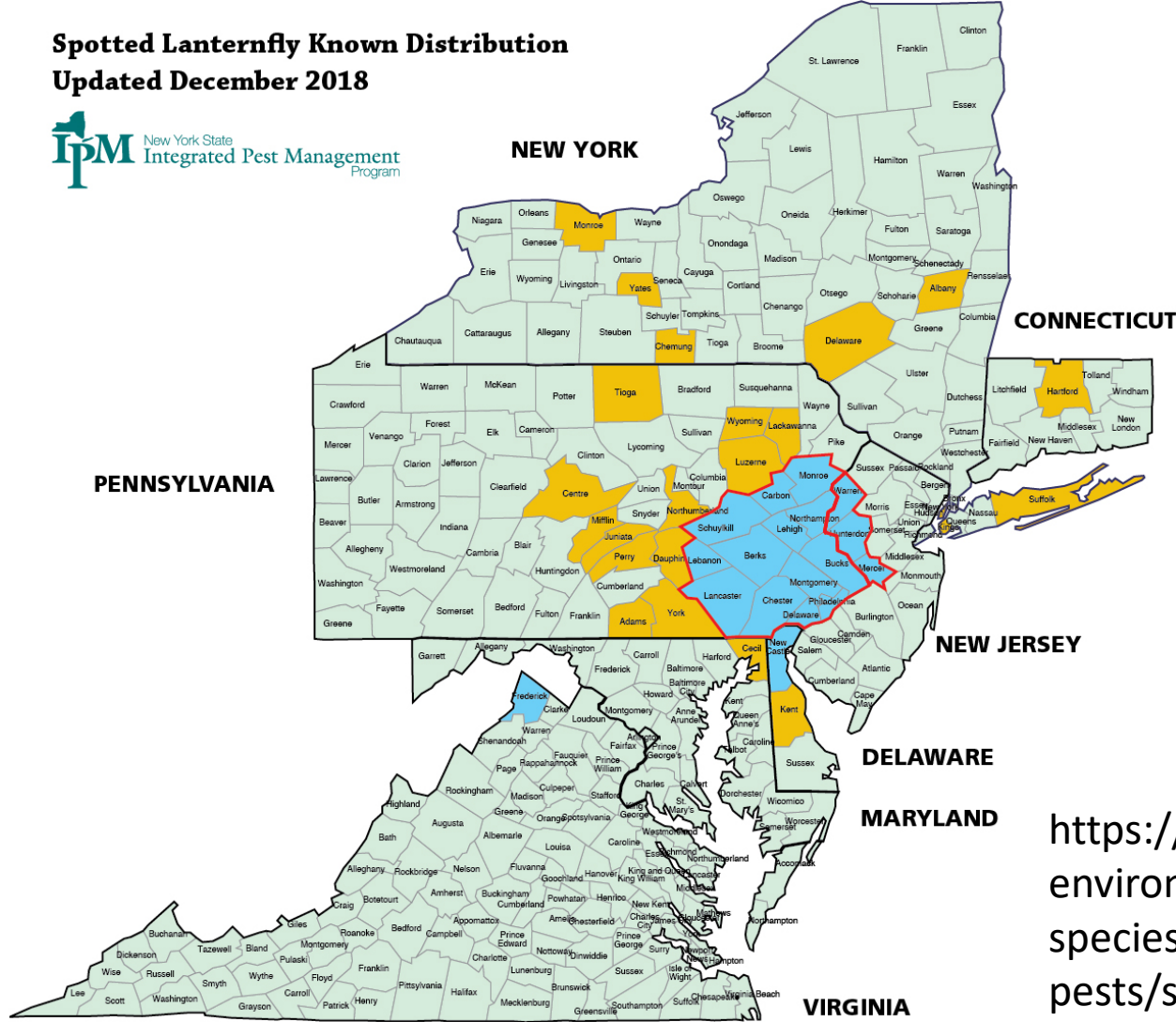


Google Earth  
 © 2017 Google  
 Image Landsat / Copernicus  
 Data LDEO, Columbia, NSF, NOAA  
 Data SIO, NOAA, U.S. Navy, NGA, GEBCO



# Spotted Lanternfly Known Distribution

## Updated December 2018

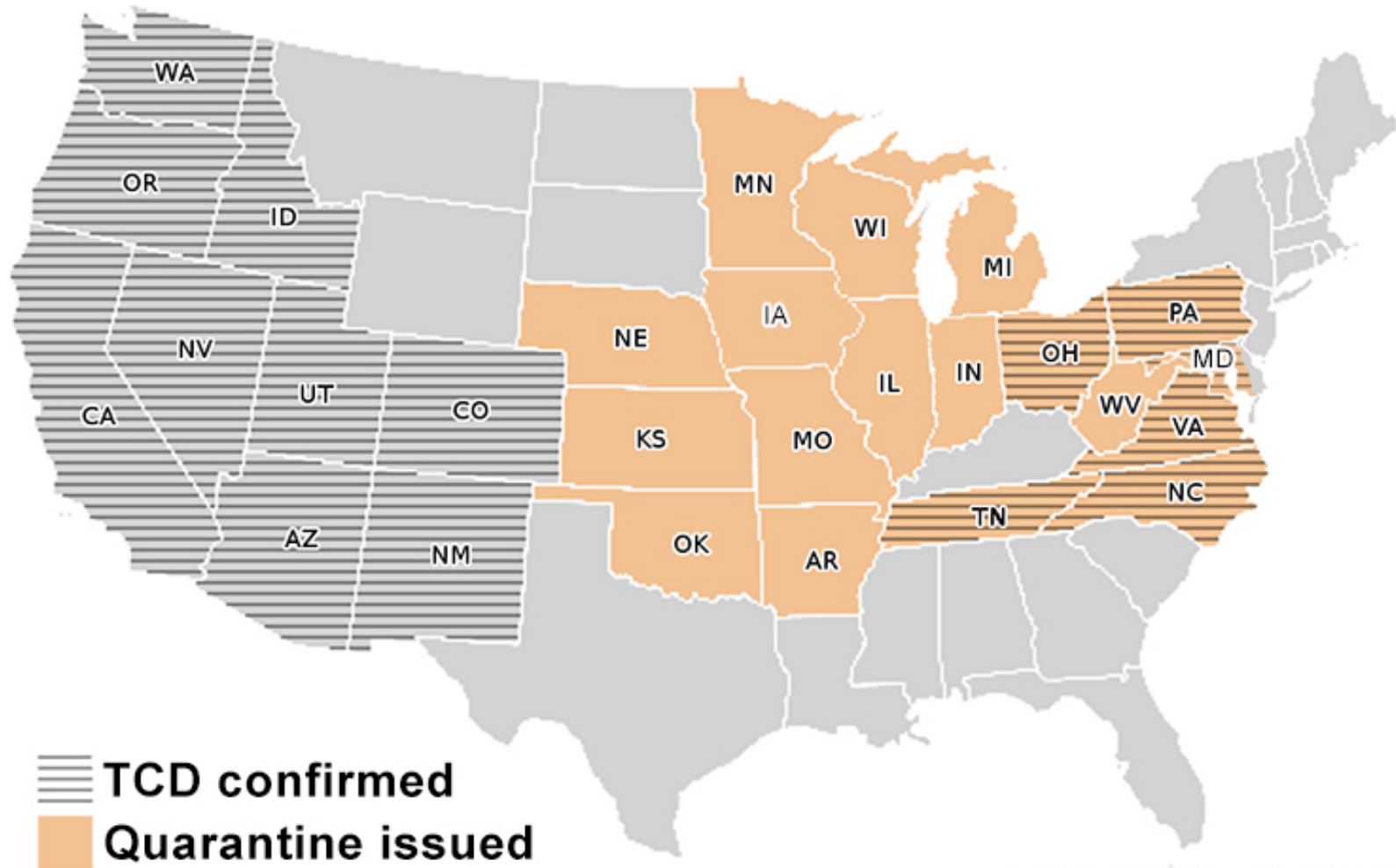


NY external quarantine areas. Spotted lanternfly infestation found.
  Spotted lanternfly found, no infestation.
  Internal state quarantine areas.

<https://nysipm.cornell.edu/environment/invasive-species-exotic-pests/spotted-lanternfly/>



# Distribution of Thousand Cankers Disease as of August 1, 2017.



Source: [www.thousandcankers.com](http://www.thousandcankers.com)

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- **Spatially Drawn Regulations**
  - International Boundaries
  - Individual State Border
  - Land Owning Entity
  - Less-than-state Size Geographic Boundary
- Distance from Origin Regulations

# Regulations that apply to firewood can be wrangled into several broad categories

- **Spatially Drawn Regulations**

- International Boundaries

- Canada

- Into USA from source in Canada (USDA APHIS via CBP)
- Into Canada from source in United States (CFIA via CBSA)

- Mexico

- Into USA from source in Mexico (USDA APHIS via CBP)
- Into Mexico from source in United States (CONAFOR)

- Other Countries

- Into USA from overseas (USDA APHIS via CBP)



Regulations that apply to firewood can be wrangled into several broad categories

- **Spatially Drawn Regulations**

- Individual State Border

- **Comprehensive External Quarantine:** FL, IL, ME, NH, NY, PA, VT, VA, WI
- **Not Comprehensive External Quarantine or Equivalent:** CA, MN, OR, UT
- **TCD origin only, Hardwood External Quarantine:** IN, MI, MO, NE, NC, OH, OK, PA, TN, WV, WI
- **TCD origin only, *Juglans spp* External Quarantine:** AR, IL, KS, MN, VA

# Regulations that apply to firewood can be wrangled into several broad categories

- **Spatially Drawn Regulations**

- Land Owning Entity - Federal
  - **National Parks** (Great Smoky Mountains, Blue Ridge Parkway, Sleeping Bear Dunes, Isle Royale, Delaware Water Gap, Ozark National Scenic Riverway, Cumberland Gap National Park, Land Between the Lakes National Recreation Area, Mammoth Cave National Park, Big South Fork National River & Recreation Area, *many more!*)
  - **National Forests** (Chequamegon-Nicolet, Chippewa, Hiawatha, Hoosier, Huron-Manistee, Ottawa, Ouachita, Superior, *many more!*)
  - **Army Corps of Engineers** (Nashville District, St. Paul District, *this list may be incomplete*)
  - **Bureau of Land Management** (no regulations known, recommendations are in place nationwide)

# Regulations that apply to firewood can be wrangled into several broad categories

- **Spatially Drawn Regulations**

- Land Owning Entity - State

- California State Parks (no oak firewood allowed in some parks)
- Kentucky State Parks (certified firewood only)
- Michigan State Lands (certified or debarked firewood only)
- Tennessee State Parks (certified firewood only)
- Wisconsin State Parks (certified firewood or sourced within 10 miles of park)
- Vermont State Parks (certified firewood or harvested in Vermont)
- Virginia State Parks (will confiscate untreated firewood from EAB infested counties)
- *This list may be incomplete*

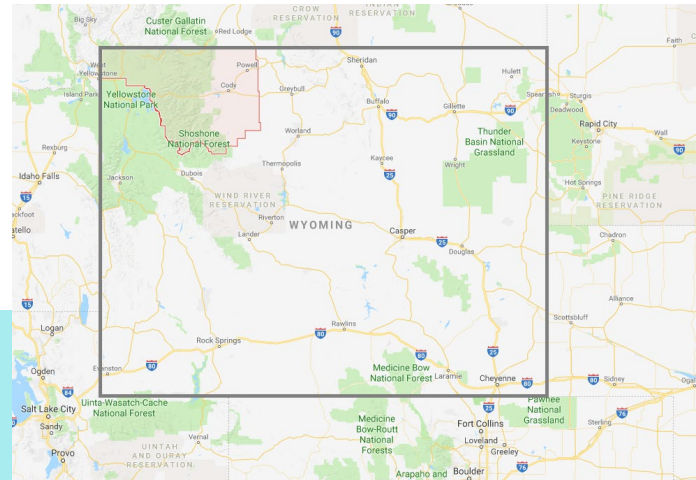
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- **Spatially Drawn Regulations**

- Land Owning Entity

- Less-than-state Size Geographic Boundary

- **Connecticut, Iowa, and Wisconsin:** Transport is prohibited between EAB infested and uninfested counties within these states
- **Hawaii:** Inter-island prohibition on 'Ohi'a wood
- **Wyoming** Weed and Pest Control Act, Park County
  - *4.25M visitors in 2016*



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  - Pests of Concern that are not federally regulated
- Spatially Drawn Regulations
  - International Boundaries
  - Individual State Border
  - Land Owning Entity
    - Federal entities such as National Park, National Forest, Army Corp Sites, and BLM
    - State entity such as a State Parks system
  - Less-than-state Size Geographic Boundary
- **Distance from Origin Regulations**

# Regulations that apply to firewood can be wrangled into several broad categories

- **Distance from Origin Regulations-**

- **New York:** No farther than 50 miles within NY, with a self certification
- **Florida:** Out of state firewood has a 50 mile grace zone
- **Oregon:** Firewood from Washington and Idaho is not subject to heat treatment requirement
- ***Vermont and Wisconsin State Parks rules already mentioned***



# AND WHAT ABOUT CANADA?

- **Pest Driven Regulations**

- Additional Canadian pests with quarantine regions: brown spruce longhorned beetle, Dutch elm disease, hemlock woolly adelgid

- **Spatially Drawn Regulations**

- International Boundaries (parallel to US systems)
- Individual Provincial Law (Saskatchewan and Alberta interprovincial agreement)
- Land Owning Entity: Kejimikujik (NS), Kouchibouguac (NS), and Bruce Peninsula (ON) National Parks prohibit outside firewood
- Less-than-province Size Geographic Boundary (none found)

- **Distance from Origin Regulations** (none found)

Across North America, the complexity of the regulatory environment is significant.

- **Pest Driven Regulations**

- USA federal, Canadian federal, and all Pests of Concern (14 pests in sum)

- **Spatially Drawn Regulations**

- International Boundaries (3 categories)
- Individual State Border (24 states + 2 provinces)
- Land Owning Entity (5 major entity types)
- Less-than-state Size Geographic Boundary (3 models)

- **Distance from Origin Regulations** (5 states)

# Questions?

Thank you to all our partners throughout North America, and special thanks to USDA APHIS for funding the Don't Move Firewood campaign and FOCL Initiative.

Reach me at  
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