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FORM APPROVED  
OMB NUMBER 0579-  
0054/0088/0129/0198/  
0238/0257/0306/0310

**UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE  
PLANT PROTECTION AND QUARANTINE**

**COMPLIANCE AGREEMENT**

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM

2. LOCATION

3. REGULATED ARTICLE(S)

4. APPLICABLE FEDERAL QUARANTINE(S) OR REGULATIONS

5. I / WE AGREE TO THE FOLLOWING:

6. SIGNATURE

7. TITLE

8. DATE SIGNED

The affixing of the signatures below will validate this agreement which shall remain in effect until canceled, but may be revised as necessary or revoked for noncompliance.

9. AGREEMENT NO.

10. DATE OF AGREEMENT

11. PPQ/CBP OFFICIAL (NAME AND TITLE)

12. ADDRESS

13. SIGNATURE

14. U.S. GOVERNMENT/STATE AGENCY OFFICIAL (NAME AND TITLE)

15. ADDRESS

16. SIGNATURE

## Non-Flight Period Zones for Emerald Ash Borer throughout the CONUS

Non-flight periods employ phenological (effects of temperature or day length) characteristics of the target organism. EAB initially emerges when the growing degree day (GDD) threshold achieves 450 GDD (base 50<sup>0</sup>F). This signals the beginning of the flight period for regulatory purposes.

In determining the beginning of the non-flight period, one must consider when an insect is in diapause or at least incapable of dispersing. For EAB this task is compounded by its variable life cycle of one or two years. When larval densities of EAB are low within an ash tree (*Fraxinus* spp.), adult emergence may require two years. Adult emergence decreases to one year when larval densities increase to higher levels. Apparent competition for the phloem resource causes an increase in the speed of development.

Using the latest occurrence of 28°F frost which induces diapause and arrests development of EAB life stages, together with data from the National Oceanic and Atmospheric Administration's National Climatic Data Center, the latest occurrence of "Medium" frost is determined for each state.

Therefore, the EAB Non-Flight Map identifies three different zones:

- Zone 1. EAB non-flight from October 1 to May 1
- Zone 2. EAB non-flight from November 1 to March 1
- Zone 3. EAB activity potential year round

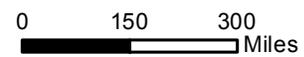
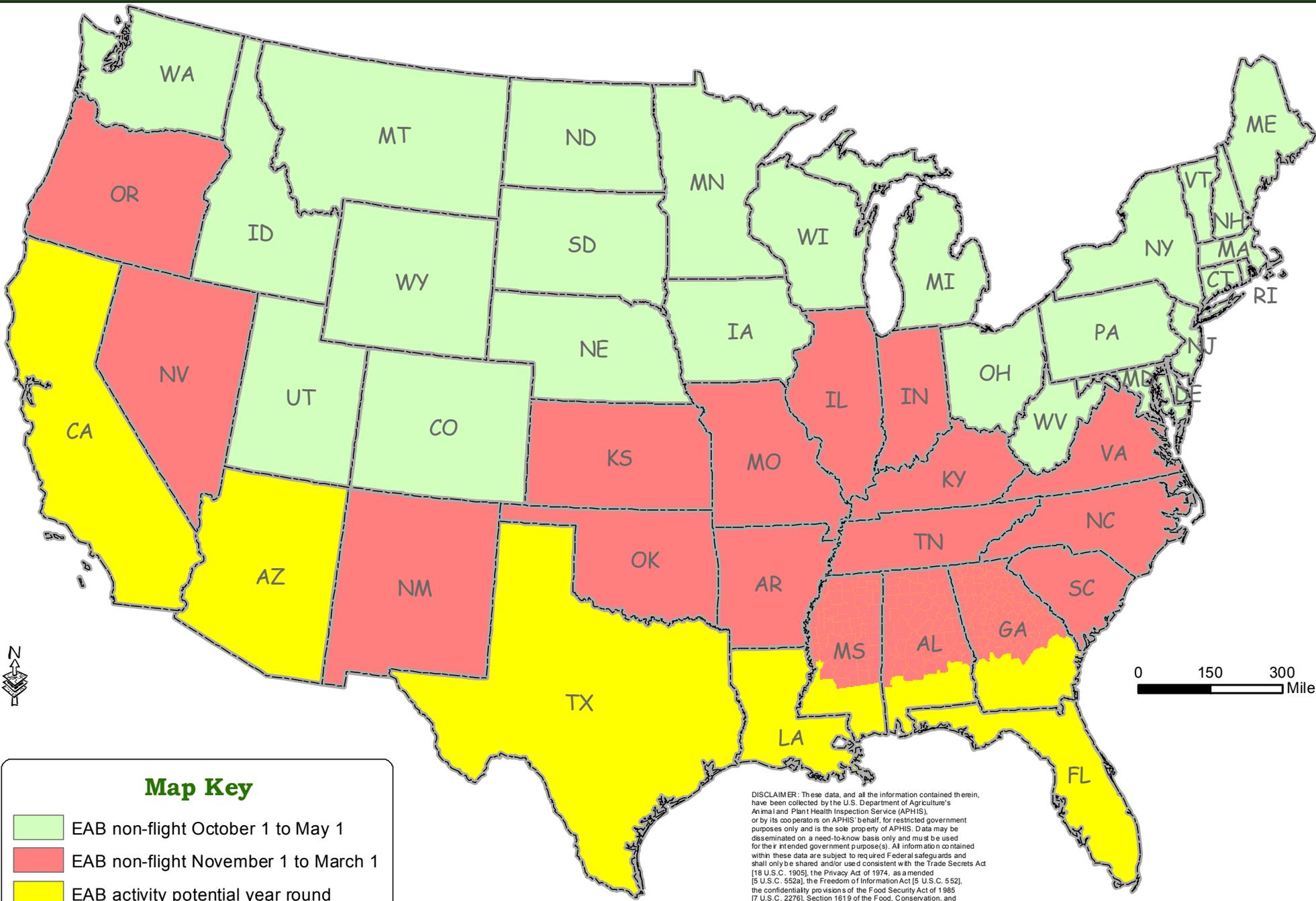
**States in Zone 1 include:** Colorado, Connecticut, Delaware, Idaho, Iowa, Maine, Maryland, Massachusetts, Michigan, Minnesota, Montana, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Utah, Vermont, Washington, West Virginia, Wisconsin, and Wyoming.

**States in Zone 2 include:** Arkansas, Illinois, Indiana, Kansas, Kentucky, Missouri, Nevada, New Mexico, North Carolina, Oklahoma, Oregon, South Carolina, Tennessee, and Virginia. **Partial States:** Alabama, Georgia and Mississippi - reference individual State maps

**States in Zone 3 include:** Alabama, Arizona, California, Florida, Georgia, Louisiana, Mississippi, and Texas. **Partial States:** Alabama, Georgia and Mississippi - reference individual State maps



# Cooperative Emerald Ash Borer Project EAB Regulatory Flight Zones in the contiguous United States



**Map Key**

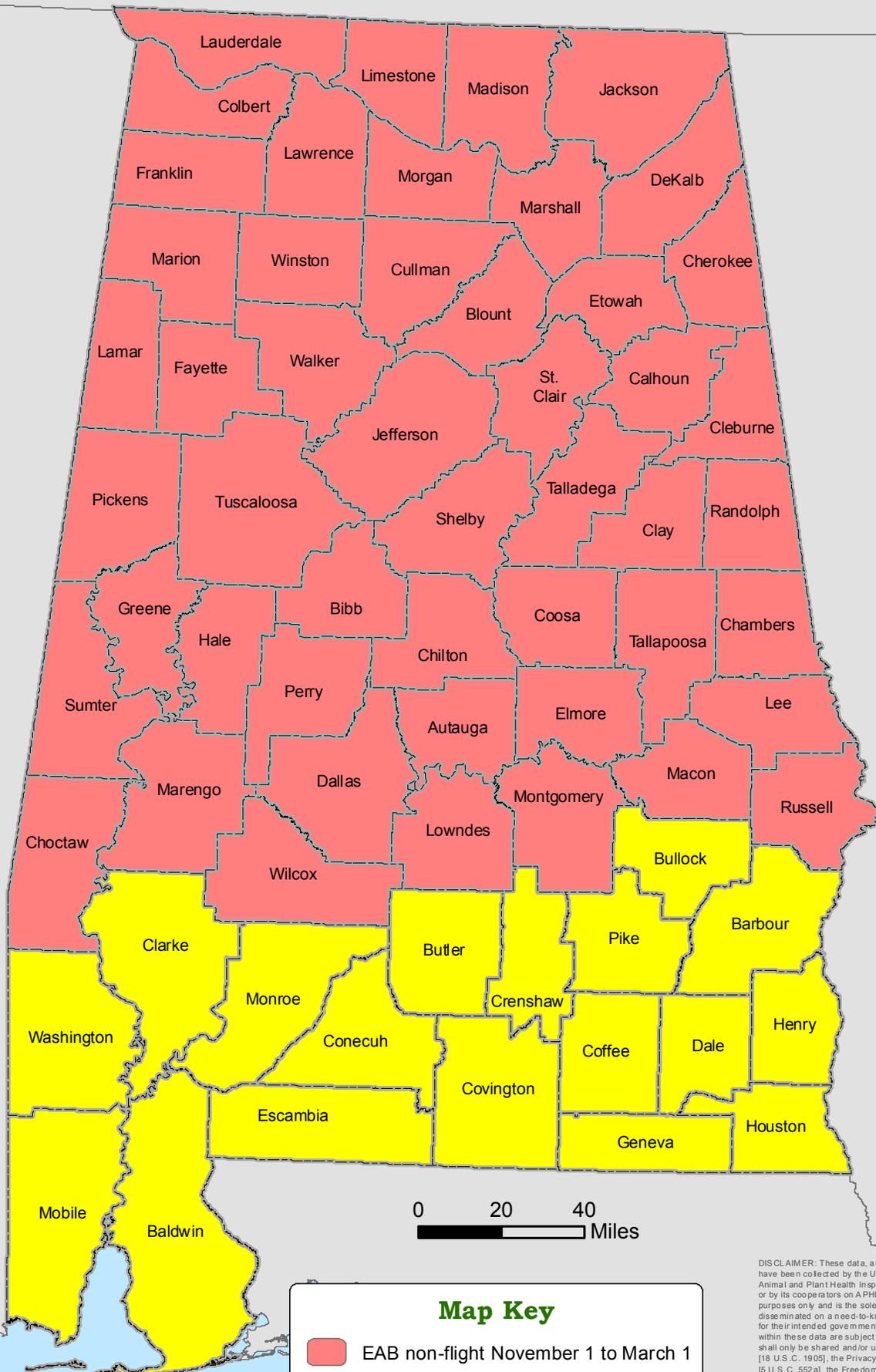
- EAB non-flight October 1 to May 1
- EAB non-flight November 1 to March 1
- EAB activity potential year round

DISCLAIMER: These data, and all the information contained therein, have been collected by the U.S. Department of Agriculture's Animal and Plant Health Inspection Service (APHIS), or by its cooperators on APHIS' behalf, for restricted government purposes only and is the sole property of APHIS. Data may be disseminated on a need-to-know basis only and must be used for the intended government purpose(s). All information contained within these data are subject to required Federal safeguards and shall only be shared and/or used consistent with the Trade Secrets Act [18 U.S.C. 1905], the Privacy Act of 1974, as amended [5 U.S.C. 552a], the Freedom of Information Act [5 U.S.C. 552], the confidentiality provisions of the Food Security Act of 1985 [7 U.S.C. 2276], Section 1619 of the Food, Conservation, and Energy Act of 2008 [7 U.S.C. 8791], and other applicable Federal laws and implementing regulations, as well as with the confidentiality or non-disclosure provisions of any other agreement entered into between APHIS and a cooperator.



# Cooperative Emerald Ash Borer Project

## EAB Regulatory Flight Zones in Alabama



**Map Key**

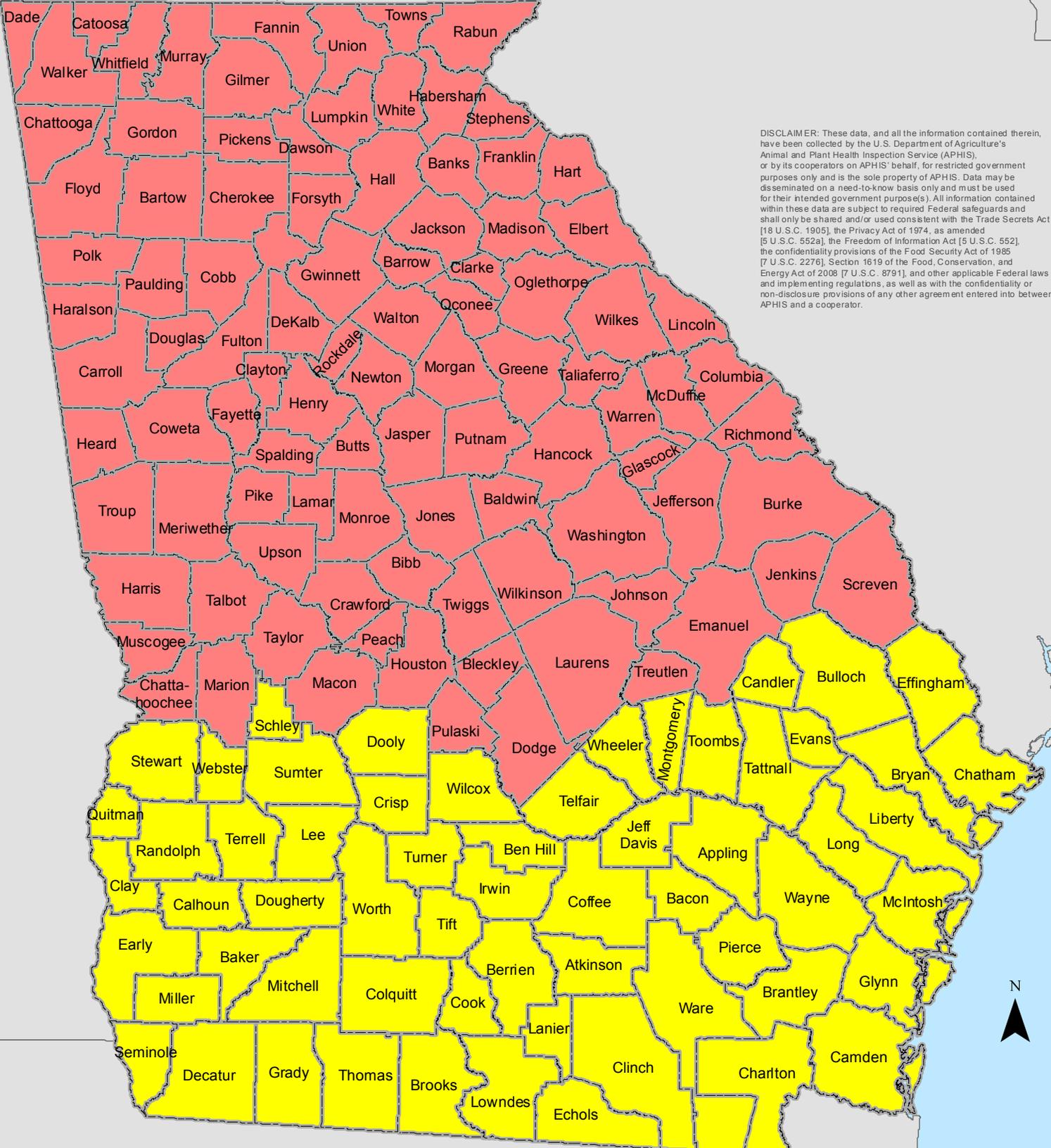
- EAB non-flight November 1 to March 1
- EAB activity potential year round

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# Cooperative Emerald Ash Borer Project

## EAB Regulatory Flight Zones in Georgia



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### Map Key

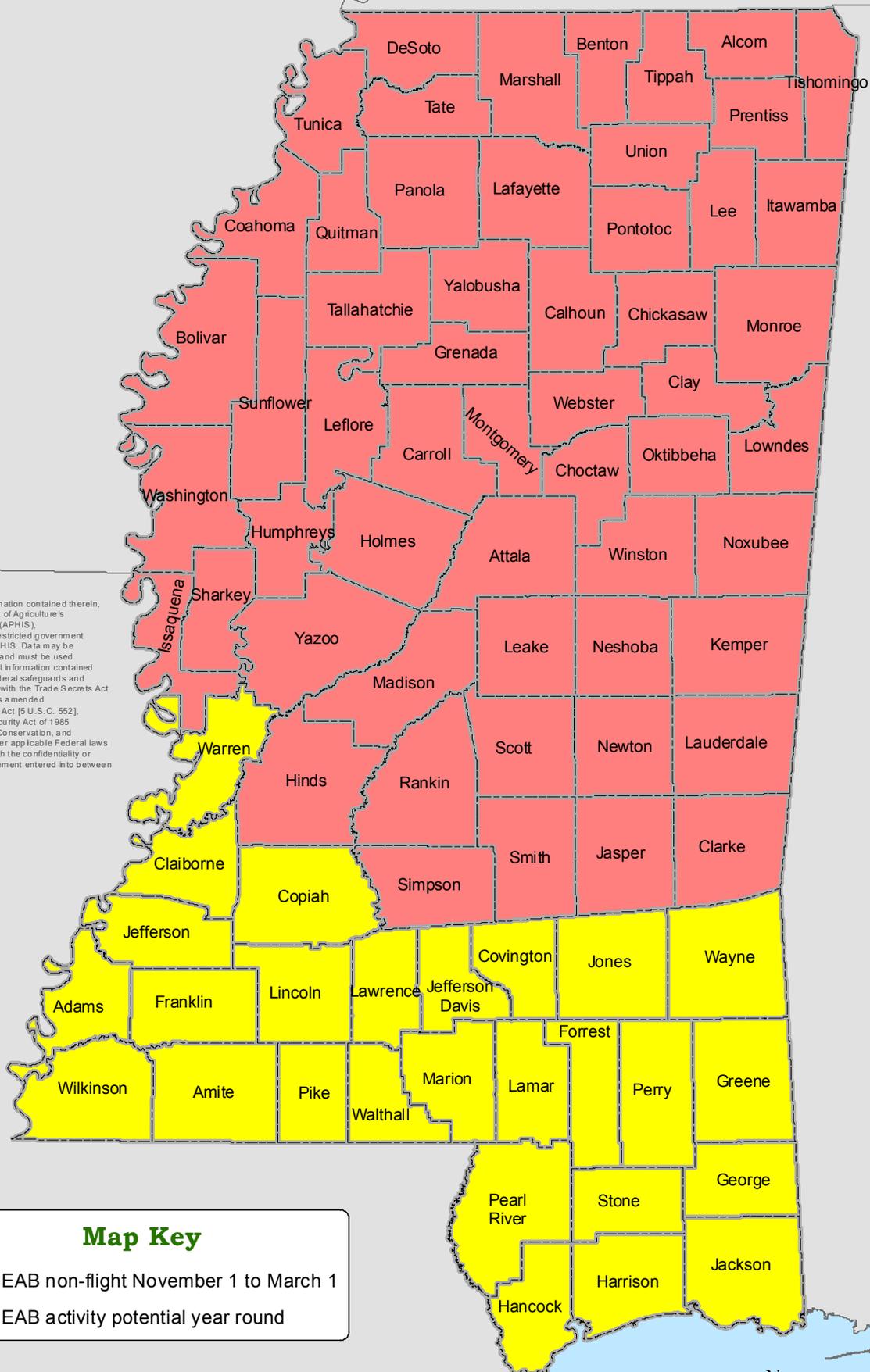
- EAB non-flight November 1 to March 1
- EAB activity potential year round





# Cooperative Emerald Ash Borer Project

## EAB Regulatory Flight Zones in Mississippi



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**Map Key**

- EAB non-flight November 1 to March 1
- EAB activity potential year round

