

Redbay Ambrosia Beetle
Laurel Wilt:
State Agencies: Regulatory Possibilities and Implementation



Redbay Ambrosia Beetle

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State Agencies: Regulatory Possibilities and Implementation

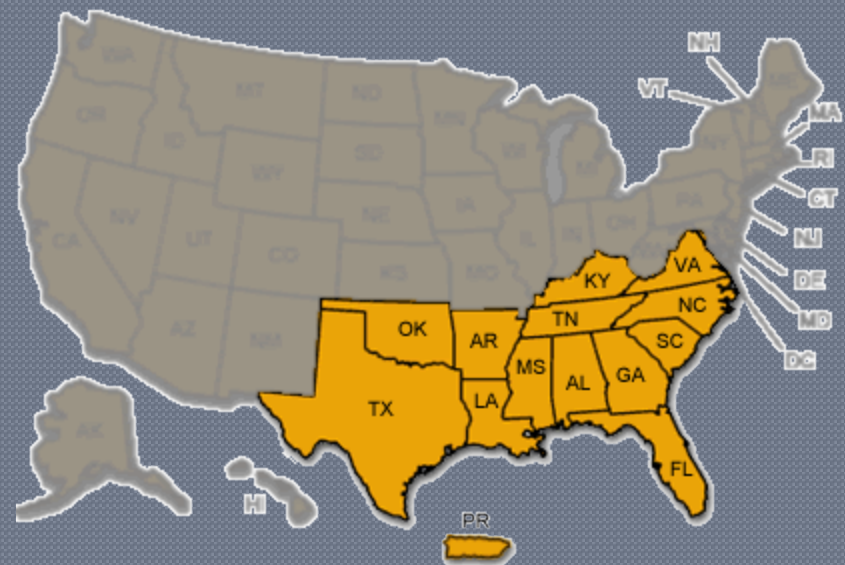


Wayne Dixon
Florida Department of Agriculture
and Consumer Services

Charles H. Bronson, Commissioner
Florida Department of Agriculture and Consumer Services

● Fire Wood and Unprocessed Wood Regulations in the Southern Plant Board States

- North Carolina **No** (GM, Sirex woodwasp –federal+)
- South Carolina **No**
- Texas **No**
- Oklahoma **No**
- Alabama **No**
- Arkansas **No**
- Mississippi **No**
- Georgia **No**
- Tennessee **No**
- Kentucky **No**
- Virginia **No**
- Louisiana **No**
- Florida **Yes, under development**



- Other states with some level of firewood regulations are Pennsylvania, Ohio, Michigan, Wisconsin, Minnesota, Illinois, Indiana, Maryland



- Minnesota** – firewood must be labeled with name, address of manufacturer, packer, or distributor, etc. ; sell close to where it will be burned. Firewood from quarantine area must have federal shield if interstate

- **Wisconsin has \$1,000 fine for bringing in firewood from EAB-quarantine areas (IL, IN, MI).**
- **In the 4-county WI quarantine, moving firewood out is a \$200 fine and/or 6 mos. jail; it is a criminal offense.**
- **Hardwood must be certified to move out the 4-cos.**
- **Hunters traveling through quarantine with firewood can only stop for traffic lights, refuel or “grab a bite to eat.”**

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State Agencies: Regulatory Possibilities and Implementation

<http://www.dnr.wi.gov/invasives/firewood/firewood-maps.htm>

101 S. Webster Street, PO Box 7821, Madison, Wisconsin 53707-7821 608.269.2621
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Redbay Ambrosia Beetle Laurel Wilt: State Agencies: Regulatory Possibilities and Implementation

Range of Allowable Firewood Map Viewer Text Version

Choose Map Scale
 State Local

Choose Property
Devil's Lake State Park

Invasive Species & FIREWOOD!

The screenshot shows a web-based map viewer interface. At the top, there's a title bar 'Range of Allowable Firewood Map Viewer' and a 'Text Version' link. Below that, there are two sections: 'Choose Map Scale' with radio buttons for 'State' (selected) and 'Local', and 'Choose Property' with a dropdown menu showing 'Devil's Lake State Park' and a 'GO' button. To the right of these sections is a logo that says 'Invasive Species & FIREWOOD!' with a fire graphic. The main area is a map of Wisconsin showing a green shaded region representing the 'Range of Allowable Firewood'. Major cities labeled include Oshkosh, Sheboygan, Madison, Milwaukee, and Janesville. Highways shown include I-90, I-90/94, US 151, and US 14. The map is zoomed in to 150%. The interface includes a toolbar with various navigation and tool icons, a 'Sign' button, and a status bar at the bottom indicating '1 of 1'.

- ◎ **Pennsylvania:** Movement of any/all firewood from infested and/or quarantine areas is prohibited in accordance with the Pennsylvania Plant Pest Act of 1992. All such regulated firewood will be confiscated and destroyed.
- ◎ Banned import of any firewood into the state unless it had been kiln-dried.

- **First time offenders** will be issued a warning letter by Pennsylvania Department of Agriculture, with repeat offenders subject to prosecution according to provisions in the Pennsylvania Plant Pest Act.
- Even if you are not within a quarantine area using local firewood is best. Do not take wood home with you and do not leave firewood - Burn It!

- Ohio regulates firewood movement with a fine of \$4,000 if moving out of quarantine area (EAB)
- Other states considering action are:
 - South Dakota, Missouri, West Virginia, New Jersey, Vermont

◎ New York, Department of Environmental Conservation –

- DEC Emergency Regulation 12.5.2008 to protect forests from invasive species. Prompted by Asian longhorned beetle, emerald ash borer, hemlock woolly adelgid, oak wilt, sudden oak death and Sirex wood wasp.
- ◎ Over \$100 million expended for eradication efforts.

- Therefore, ruled to limit the importation and movement of firewood, a high-risk forest pest host
- Focused on importation and movement of untreated firewood, source-labeling and established treatment standards

- All species used for firewood are regulated
- All trees that are processed into firewood must be from named source and grown within 50 miles prior to being obtained by the producer

- Firewood is any kindling, logs, chunkwood, boards, timber cut into form and size for use as fuel.
- Logs destined for lumber, poles, pallets, pulp manufacture or biomass are not affected.

- 50 miles chosen for consistency with known firewood distribution patterns and cost of fuel to move beyond 50 miles is prohibitive and general pest distribution within an area.
- If transporting within 50 miles, NY source, personal use (not for sale), can use “Self-issued Certificate of Source” declaring location of firewood origin.
- Treatment: kiln-drying 71C (160 F) at core for 75 minutes.

◎ NY Environmental Conservation Law:

- Violations are \$250 plus \$100 civil penalty and up to 15 days in jail
- Will emphasize outreach and education to consumers, producers and dealers
- Exempts out-of-state firewood being transported through NY
- Christmas trees are not covered – viewed as not a pathway

- EAB was estimated to spread 2-10 miles/yr. However from 2002 to 2008, it spread to 9 additional states, a distance of 1,000 miles – firewood+.
- Most new discoveries were linked to campgrounds or major interstate corridors, suggesting artificial movement to campgrounds.

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- The purpose of this rule is to prevent the introduction and spread of serious plant pests harbored in or infesting firewood and unprocessed wood products. This will affect the interstate and intrastate movement of firewood and unprocessed wood products that are not treated to eliminate the plant pests of concern in order to protect Florida's forests and other plant resources.



Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

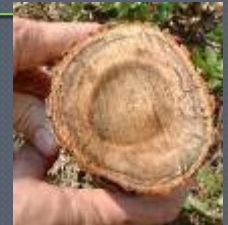
- The movement of commercial shipments of firewood, unprocessed wood products and other regulated articles into the state is prohibited unless a special permit has been issued by the Director.
- Locally produced or harvested firewood and unprocessed wood products are exempt from this rule provided they are not moved more than 50 miles from the distribution point.

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products



- Master Permit. A permit issued by the department allowing the movement of regulated articles into and within the state and specifying the conditions under which the regulated articles are allowed to be moved.
- Producers. Individuals or companies responsible for cutting, packing or distributing regulated articles into or within the state.

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products



- ◉ **Shippers.** Individuals or companies responsible for sending or transporting regulated articles into the state.
- ◉ **Regulated Articles.** Firewood or unprocessed wood products including palm products and cut Christmas trees.
- ◉ **Unprocessed wood products.** Bark, trunks, limbs, stumps or other woody plant material that results from yard waste, is used as mulch or is incorporated into the construction of furniture, handicrafts, planting containers or other products that have not been treated, processed or finished to eliminate wood boring pests, wood inhabiting pests and plant pathogens as defined in 5B-65.002 (6), (11), and (12), F.A.C..

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- The following wood boring and wood inhabiting pests are known to infest firewood and other unprocessed wood products and can be transported through the movement of these products to areas where they can infest and damage live host trees and other plants and are therefore considered to be a nuisance:

- (1) *Agrilus planipennis*, emerald ash borer
- (2) *Anoplophora glabripennis*, Asian longhorned beetle
- (3) *Bursaphelenchus cocophilus*, red ring nematode
- (4) *Dinapate wrighti*, giant palm borer
- (5) *Hylurgus ligniperda*, red-haired pine bark beetle
- (6) *Hylurgops palliates*, exotic bark beetle
- (7) *Metamasius hemipterus*, silky cane weevil
- (8) *Orthotomicus erosus*, Mediterranean pine engraver beetle
- (9) *Rhynchophorus cruentatus*, palmetto weevil
- (10) *Rhynchophorus ferrugineus*, red palm weevil
- (11) *Rhynchophorus palmarum*, American palm weevil
- (12) *Scaphoideus luteolus*, whitebanded elm leafhopper
- (13) *Scolytus schevyrewi*, banded elm bark beetle
- (14) *Sirex noctilio*, Sirex woodwasp
- (15) *Tomicus piniperda*, pine shoot beetle
- (16) *Xyleborus glabratus*, redbay ambrosia beetle
- (17) *Xyleborus similis*



Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- Plant Disease Pathogens Infecting Firewood and Unprocessed Wood Products. Pathogens that cause the following plant diseases are known to infect firewood and unprocessed wood products and can be transported through the movement of these products to areas where they can infect and damage live host trees and other plants and are therefore considered to be a nuisance:
 - (1) *Nectria coccinea* var *fagiata* and *N. galligena*, beech bark disease
 - (2) *Discula destructiva*, dogwood anthracnose
 - (3) *Ophiostoma ulmi* and *O. novo-ulmi*, Dutch elm disease
 - (4) *Candidatus Phytoplasma ulmi*, elm yellows
 - (5) *Raffaelea lauricola*, laurel wilt disease
 - (6) *Ceratocystis fagacearum*, oak wilt disease
 - (7) *Phytophthora ramorum*, sudden oak death



Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- The movement of commercial shipments of regulated articles into the state is prohibited except under a Master Permit (Master Permit For Wood Products, DACS-08444, 02/09) issued by the Department.
- The Master Permit will require all shippers of regulated articles to be under compliance with the state of origin's plant regulatory organization. The compliance agreement will indicate the requirement for inspections and/or treatments required. Only heat, fumigation, or chemical treatments consistent with the USDA Treatment Manual effective for pests of concern in section 5B-65.003 will be acceptable.

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- Any shipment of firewood or unprocessed wood products found infested or infected with a wood boring or wood inhabiting pest or plant disease pathogen listed in 5B-65.003 or 5B-65.004, F.A.C., shall be quarantined and returned to the shipper or producer or destroyed by the Department. Infested or infected regulated articles will be placed under Stop Sale and Hold Order.
- Shipments entering the state through the Department's agricultural interdiction stations without certification of compliance with the Master Permit of the state of origin will be returned out of state and issued a Report of Plant and Plant Material in Transit

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- The destruction or return of shipments in violation shall be at the expense of the shipper.
- **The intrastate movement of commercial shipments of firewood or unprocessed wood products will be regulated under a compliance agreement, Firewood and Unprocessed Wood Products, DACS-08444, 02/09**
- The importation or movement of non-certified, commercial or non-commercial shipments of firewood or unprocessed wood products within or into the state is prohibited except as exempted

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products

- **Exemptions.** Locally produced or harvested firewood and unprocessed wood products are exempt from this rule provided they are harvested or produced within a 50-mile radius of the distribution point and not moved more than 50-miles from the point of origin.
- **Cut Christmas trees** may enter the state provided they are accompanied by a federal certificate required for movement from regulated areas of the United States or a certificate of inspection issued by the department of agriculture in the state of origin.
- **Fine for Violation:** may impose an administrative fine not exceeding \$5,000 (soon to be \$10,000) for each violation of this chapter, upon any person, nurseryman, stock dealer, agent or plant broker.

Redbay Ambrosia Beetle Laurel Wilt:

State Agencies: Regulatory Possibilities and Implementation

Florida Rule Chapter 5B-65: Firewood and Unprocessed Wood Products


 Florida Department of Agriculture and Consumer Services
 Division of Plant Industry
COMPLIANCE AGREEMENT
FIREWOOD AND UNPROCESSED WOOD PRODUCTS
MOVEMENT WITHIN THE STATE OF FLORIDA
 Section 5B1-03(2), F.S. / Rule 5B-65.001, F.A.C.

1911 S.W. 34th St. P.O. Box 147100, Gainesville, FL 32614-7100 (352)703-3005

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM	2. LOCATION
3. REGULATED ARTICLES: Firewood and Unprocessed Wood Products Movement within the State of Florida	
4. APPLICABLE STATE QUARANTINES OR REGULATIONS: Section 5B1-03(1) F.S./Rule-Chapter 5B-65, F.A.C.	


I agree to handle, pack, process and move regulated articles in accordance with applicable plant quarantines, use all permits and certificates in accordance with instructions, maintain and offer for inspection such records as may be required, and abide by the following stipulations:

- In accordance with Rule-Chapter 5B-65, F.A.C. to handle, process, and treat regulated articles that are transported more than 50 miles from origin within the state.
- To treat all regulated articles with an effective and approved treatment to minimize the introduction or spread of various plant pests known to be present in firewood or unprocessed wood products. Heat treatment, fumigation, or chemical treatments consistent with the USDA Treatment Manual will be acceptable.
- To maintain and provide upon request all treatment records of regulated articles and documentation of movement of regulated articles.
- That in authorizing and participating in these treatment requirements as a basis for the certification of the regulated articles no liability shall be attached either to the Florida Department of Agriculture and Consumer Services, to cooperating agencies, or to any of their employees in the event of injury to the property or the regulated articles.

5. WITNESS	6. TITLE	7. SIGN DATED	
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.		8. AGREEMENT TO	9. DATE OF AGREEMENT
10. OFFICIAL (Name and Title)	11. ADDRESS		
12. SIGNATURE			

Original - Gainesville, 1st Copy - Nursery, 2nd Copy - Inspector

DACS-0848 Rev. 02/09


 Florida Department of Agriculture and Consumer Services
 Division of Plant Industry
MASTER PERMIT FOR FIREWOOD AND UNPROCESSED WOOD PRODUCTS
 Section 5B1-03(1), F.S./Rule 5B-65.001, F.A.C.

P. O. Box 147100, Gainesville, Florida 32614-7100
Phone: (352) 373-3905 Fax: (352) 956-2801

FL-WP _____

Only firms that have signed a compliance agreement with the [name of state] Department of Agriculture will be authorized to ship firewood or unprocessed wood products under this permit. DEPARTMENT OF WOOD PRODUCTS (FIREWOOD AND UNPROCESSED WOOD PRODUCTS) FROM THE STATE OF _____ TO FLORIDA IN COMPLIANCE WITH CHAPTER 5B-65, FLORIDA ADMINISTRATIVE CODE, WOOD PRODUCTS

Permission is granted to the [name of state] Department of Agriculture to authorize firms to ship firewood or unprocessed wood products from [name of state] to Florida subject to the conditions of this permit.

CONDITIONS

- The compliance agreement shall specify all required treatments applied or measures taken prior to shipment to assure the product is free of pests and disease as defined in Rule-Chapter 5B-65.005(1), F.A.C.
- The [name of state] Department of Agriculture shall provide to the Florida Department of Agriculture and Consumer Services, Division of Plant Industry (DACS/DPI), a list of firms authorized to ship under this master permit and their identification number of each.
- All shipments of firewood or unprocessed wood products shall be accompanied by a certificate indicating compliance with Florida's Firewood and Unprocessed Wood Products Rule, Chapter 5B-65, F.A.C.
- Any shipment of firewood or unprocessed wood products found to be infested or infested with pests or plant disease pathogens as defined in Rule-Chapter 5B-65.002, F.A.C., shall be disposed of in accordance with Rule-Chapter 5B-65.005, F.A.C., and acceptance of further shipments of firewood or unprocessed wood products from the party in violation shall be suspended. The suspension shall remain in effect until the department of agriculture of the state of origin has notified the Division of Plant Industry in writing that the shipper is in compliance with all requirements for treatment of firewood or unprocessed wood products.

Date _____	State Official _____
------------	----------------------

The affixing of the signatures below will validate this Permit. It shall remain in effect until it expires, or is cancelled, revised as necessary, suspended, or revoked for noncompliance, in accordance with Section 5B1-083, Florida Statutes.

This permit shall expire on _____


Date _____	Richard Crockett, Director Division of Plant Industry
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DACS-0848-02/09

Redbay Ambrosia Beetle Laurel Wilt:

State Agencies: Regulatory Possibilities and Implementation

Master Permit


 Florida Department of Agriculture and Consumer Services
 Division of Plant Industry

**COMPLIANCE AGREEMENT
 FIREWOOD AND UNPROCESSED WOOD PRODUCTS
 MOVEMENT WITHIN THE STATE OF FLORIDA**

Section 581.031(20), F.S. / Rule 5B-65.001, F.A.C.

1911 S.W. 34th St., P.O. Box 147105, Gainesville, FL 32614-7100 (352)372-3005

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM	2. LOCATION
3. REGULATED ARTICLES: Firewood and Unprocessed Wood Products Movement within the State of Florida	
4. APPLICABLE STATE QUARANTINES OR REGULATIONS: Section 581.031 (1) F.S./Rule-Chapter 5B-65, F.A.C.	

I/ we agree to handle, pack, process and move regulated articles in accordance with applicable plant quarantines, use all permits and certificates in accordance with instructions; maintain and offer for inspection such records so may be required, and abide by the following stipulations:

- In accordance with Rule-Chapter 5B-65, F.A.C. to handle, process, and treat regulated articles that are transported more than 50 miles from origin within the state.
- To treat all regulated articles with an effective and approved treatment to minimize the introduction or spread of serious plant pests known to be present in firewood or unprocessed wood products. Heat treatments, fumigation, or chemical treatments consistent with the USDA Treatment Manual will be acceptable.
- To maintain and provide upon request all treatment records of regulated articles and documentation of movement of regulated articles.
- That in authorizing and participating in these treatment requirements as a basis for the certification of the regulated articles no liability shall be attached either to the Florida Department of Agriculture and Consumer Services, to cooperating agencies, or to any of their employees in the event of injury to the property or the regulated articles.

7. SIGNATURE	8. TITLE	9. 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 non-compliance.		10. AGREEMENT NO.
		11. DATE OF AGREEMENT

10. OFFICIAL (Name and Title)	11. ADDRESS
12. SIGNATURE	

Original - Gainesville, 1st Copy - Nursery, 2nd Copy - Inspector

DACS-08459 Rev. 0209

State Agencies: Regulatory Possibilities and Implementation



CHARLES H. BRONSON
COMMISSIONER

Florida Department of Agriculture and Consumer Services
Division of Plant Industry

**MASTER PERMIT FOR FIREWOOD AND UNPROCESSED
WOOD PRODUCTS**

Section 581.031(1), F.S./Rule 5B-65.001, F.A.C.

P. O. Box 147100, Gainesville, Florida 32614-7100
Phone: (352) 372-3505/Fax: (352) 955-2301

FL-WP _____

Only firms that have signed a compliance agreement with the [name of state] Department of Agriculture will be authorized to ship **firewood or unprocessed wood** products under this permit. SHIPMENT OF WOOD PRODUCTS (FIREWOOD AND UNPROCESSED WOOD PRODUCTS) FROM THE STATE OF _____ TO FLORIDA IN COMPLIANCE WITH CHAPTER 5B-65, FLORIDA ADMINISTRATIVE CODE, -WOOD PRODUCTS

Permission is granted to the [name of state] Department of Agriculture to authorize firms to ship **firewood or unprocessed wood products** grown in [name of state] to Florida subject to the conditions of this permit.


CONDITIONS

1. The compliance agreement shall specify all required treatments applied or measures taken prior to shipment to assure the product is free of pests and disease as defined in Rule-Chapter 5B-65.005(1), F.A.C.

Redbay Ambrosia Beetle Laurel Wilt:

State Agencies: Regulatory Possibilities and Implementation

○ Compliance Agreement


Florida Department of Agriculture and Consumer Services
Division of Plant Industry
**MASTER PERMIT FOR FIREWOOD AND UNPROCESSED
WOOD PRODUCTS**
Section 581.031(1), F.S./Rule 5B-65.001, F.A.C.
P. O. Box 147100, Gainesville, Florida 32614-7100
Phone: (352) 372-3905/Fax: (352) 955-2901

_____ **FL-WP** _____

Only firms that have signed a compliance agreement with the [name of state] Department of Agriculture will be authorized to ship firewood or unprocessed wood products under this permit. SHIPMENT OF WOOD PRODUCTS (FIREWOOD AND UNPROCESSED WOOD PRODUCTS) FROM THE STATE OF _____ TO FLORIDA IN COMPLIANCE WITH CHAPTER 5B-65, FLORIDA ADMINISTRATIVE CODE, -WOOD PRODUCTS

Permission is granted to the [name of state] Department of Agriculture to authorize firms to ship firewood or unprocessed wood products grown in [name of state] to Florida subject to the conditions of this permit.

CONDITIONS

1. The compliance agreement shall specify all required treatments applied or measures taken prior to shipment to assure the product is free of pests and disease as defined in Rule-Chapter 5B-65.005(1), F.A.C.
2. The [name of state] Department of Agriculture shall provide to the Florida Department of Agriculture and Consumer Services, Division of Plant Industry (FDACS/DPI), a list of firms authorized to ship under this master permit and their identification number of each.
3. All shipments of firewood or unprocessed wood products shall be accompanied by a certificate indicating compliance with Florida's Firewood and Unprocessed Wood Products Rule, Chapter 5B-65, F.A.C.
4. Any shipment of firewood or unprocessed wood products found to be infested or infested with pests or plant disease pathogens as defined in Rule-Chapter 5B-65.002, F.A.C., shall be disposed of in accordance with Rule-Chapter 5B-65.005, F.A.C., and acceptance of further shipments of firewood or unprocessed wood products from the party in violation shall be suspended. The suspension shall remain in effect until the department of agriculture of the state of origin has notified the Division of Plant Industry in writing that the shipper is in compliance with all requirements for treatment of firewood or unprocessed wood products.

_____ Date _____ State Official _____

The affixing of the signature below will validate this Permit. It shall remain in effect until it expires, or is cancelled, revised as necessary, suspended, or revoked for noncompliance, in accordance with Section 581.083, Florida Statutes.

This permit shall expire on _____

_____ Date _____ Richard Guskalis, Director
Division of Plant Industry

DACS-08444 02/09

Redbay Ambrosia Beetle Laurel Wilt:

State Agencies: Regulatory Possibilities and Implementation



CHARLES H. BRONSON
COMMISSIONER

Florida Department of Agriculture and Consumer Services
Division of Plant Industry

COMPLIANCE AGREEMENT FIREWOOD AND UNPROCESSED WOOD PRODUCTS MOVEMENT WITHIN THE STATE OF FLORIDA

Section 581.031(26), F.S. / Rule 5B-65.001, F.A.C.

1911 S.W. 34th St./P.O. Box 147100, Gainesville, FL 32614-7100/ (352)372-3505

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM	2. LOCATION
3. REGULATED ARTICLE(S): Firewood and Unprocessed Wood Products Movement within the State of Florida	
4. APPLICABLE STATE QUARANTINE(S) OR REGULATIONS: Section 581.031 (1) F.S./Rule-Chapter 5B-65, F.A.C.	

I / we agree to handle, pack, process and move regulated articles in accordance with applicable plant quarantines; use all permits and certificates in accordance with instructions; maintain and offer for inspection such records as may be required; and abide by the following stipulations:


1. In accordance with Rule-Chapter 5B-65, F.A.C. to handle, process, and treat regulated articles that are transported more than 50 miles from origin within the state.
2. To treat all regulated articles with an effective and approved treatment to minimize the introduction or spread of serious plant pests known to be present in firewood or unprocessed wood products. Heat treatments, fumigation, or chemical treatments consistent with the USDA Treatment Manual will be acceptable.

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Florida Department of Agriculture & Consumer Services
Division of Plant Industry 

Charles H. Bronson, Commissioner - Richard Gaskalla, Director

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MISSION

The **Division of Plant Industry** is a regulatory agency of the Florida Department of Agriculture & Consumer Services which works to detect, intercept and control plant and honey bee pests that threaten Florida's native and commercially grown plants and agricultural resources.

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Division of Plant Industry 

Charles H. Bronson, Commissioner - Richard Gaskalla, Director

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Laurel Wilt Disease

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Laurel Wilt Disease Updates

- > [New disease may cost Florida's avocado industry millions \(UF/IFAS press release, 1-26-09\)](#)  
- > [Division of Forestry Pest Leaflet](#)  
- > [UF-IFAS-EDIS publication](#)  
- > [Current distribution map](#) 
- > [USDA Forest Health Protection, Southern Region - Laurel Wilt Disease Information](#)
- > [DPI Pest Alert, The Redbay Ambrosia Beetle, Xyleborus glabratus Eichhoff \(Scolytinae: Curculionidae\)](#)

How to Submit a Sample

- > [Suspect Plant Samples](#) 
- > [Suspect Beetle Samples](#) 

Host Descriptions

- > [UF/IFAS - Red Bay \(Persea borbonia\)](#)
- > [UF/IFAS, US Forest Service - Sassafras Tree \(Sassafras albidum\)](#) 
- > [UF/IFAS - Avocado \(Persea americana\)](#) 

State Agencies: Regulatory Possibilities and Implementation

- **Pest Alerts and Extension Publications**
- Mayfield, A.E. III. 2008. **Laurel wilt**. Florida Department of Agriculture and Consumer Services, Division of Forestry, Forest and Shade Tree Pests Leaflet No. 13. 2 p. [PDF 2.2 MB]
- Mayfield, A.E. III, Crane, J.H., and Smith, J.A. 2008. **Laurel Wilt: A Threat to Redbay, Avocado and Related Trees in Urban and Rural Landscapes**. University of Florida , Institute of Food and Agricultural Sciences Extension, Document HS-1137. 6 p.
- Mayfield, A.E. III, and Thomas, M.C. 2006. **The redbay ambrosia beetle, Xyleborus glabratus Eichhoff (Scolytinae: Curculionidae)**. Florida Department of Agriculture and Consumer Services, Division of Plant Industry Pest Alert.
- **Pest Alert: Don't Transport Redbay Firewood** (poster). Florida Department of Agriculture and Consumer Services, Division of Forestry.



○ **General Caution to Inspectors, Extension Agents, Master Gardeners and others:**

- Nursery stock in the laurel family showing signs of wilt, sapwood discoloration or ambrosia beetle attack should not be sold or transported, and should be reported to the Division of Plant Industry.

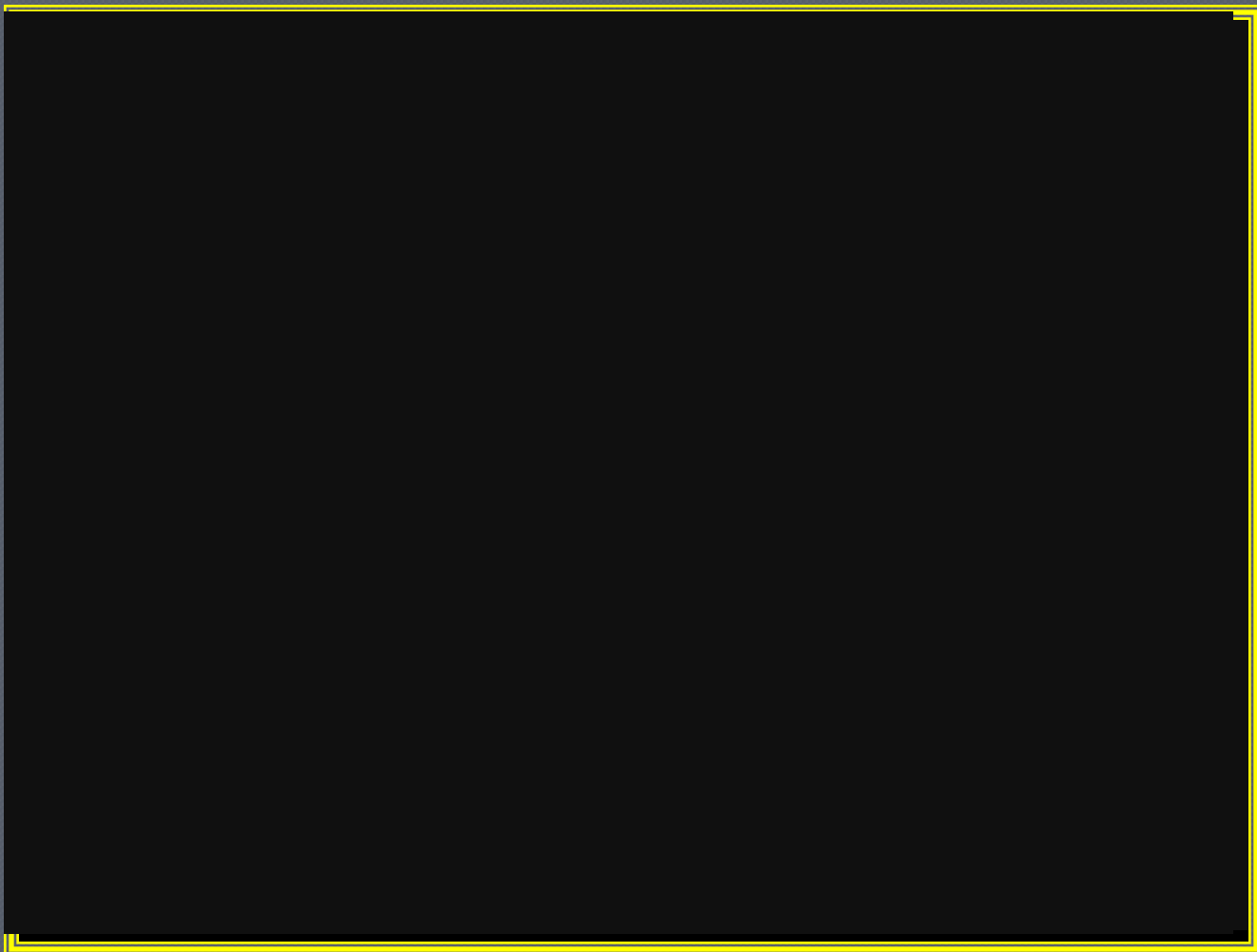


Redbay Ambrosia Beetle

Laurel Wilt:

State Agencies: Regulatory Possibilities and Implementation

Movie Time:



Florida is on the Lookout for the **EMERALD ASH BORER!**

- ▲ The emerald ash borer (EAB) has been on the move since its US arrival in 2002
- ▲ It has killed millions of ash trees in Michigan, Indiana, Ohio, Illinois, Missouri, Pennsylvania, Maryland, Virginia and West Virginia

Do Not Transport Firewood from Other States

- ▲ EAB can hitchhike on firewood infesting new areas at an alarming rate
- ▲ When building a fire, use local firewood only
- ▲ Burn all firewood at your campsite before you leave
- ▲ Do not take any firewood home with you
- ▲ View firewood video at fl-dpi.com



www.fl-dpi.com
DPI Helpline: 800-397-1517

EAB Trapping Program



- ▲ EAB traps are being placed in Florida counties identified as high risk areas because of the possibility of insect-infested firewood being brought in by campers from states where EAB has been found
- ▲ 25 initial sites with a minimum of 50 traps have been selected in northern Florida for placement and monitoring
- ▲ Traps will be checked on a monthly basis and trap contents will be examined by entomologists at the Division of Plant Industry's headquarters in Gainesville, FL

**If you think you have seen an emerald ash borer or a diseased ash tree, contact the
DPI Helpline: 800-397-1517**

**Help prevent the introduction of any other
exotic invasive plant pests and diseases . . .**

- ▲ Report suspicious plant pests and diseases to the Division of Plant Industry's Helpline 888-397-1517
- ▲ Don't pack a pest. When you travel don't pack food or other products in your luggage that might contain harmful pests and diseases
- ▲ Purchase only certified plants from registered nurseries


Division of
PLANT INDUSTRY
Fresh Florida Protection through Detection
Florida Department of Agriculture & Consumer Services
Charles H. Workman, Commissioner

Redbay Ambrosia Beetle
Laurel Wilt:

State Agencies: Regulatory Possibilities and Implementation

Thank you
for your attention



Redbay Ambrosia Beetle

Laurel Wilt:

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