

Wildlife & Invasive Species Education

February 11-13, 2020

UF/IFAS Extension Sumter County

Continuing education for Master Naturalists, Master Gardeners, UF/IFAS Extension Faculty, landowners, and others promoting native wildlife and plants and controlling invasive species in Florida.



Funding for this event is provided in part by University of Florida IFAS, USDA Forest Service through the Florida Department of Agriculture and Consumer Services Florida Forest Service and the Florida Sustainable Forestry Initiative Implementation Committee.

Table of Contents	Page
W.I.S.E. Workshop Information, Programs, and Assistance	
Workshop Agenda	3
W.I.S.E Resource Contact Page	5
Got Invasives? Get Assistance.	6
Want to be a Master Gardener?	7
Want to be a Master Naturalist?	9
Florida Forest Stewardship Program fact sheet	10
Florida Tree Farm Program fact sheet	11
Supplemental Resources	
Native Species in Florida – Online Resources	12
Invasive Plants and Control Techniques	13
Invasive Wildlife	14
Invasive Insects and Diseases	15
Prepare Your Property for Hurricane Season	16
Note space	19

Cover page photo credits:

Blazing Star, Jim Davis

Gopher Tortoise, Jim Davis

Hydrilla, Tyler Jones

Horseshoe Crabs, Brittany Scharf

Cottonmouth, Jim Davis

Goliath Grouper, Angela Collins

Agenda

Day 1: February 11, 8:30 a.m. to 4:30 p.m.

- 8:30 a.m. On-site Registration
- 8:45 a.m. Welcome – Jim E. Davis (UF/IFAS Extension Director Sumter & Hernando Counties)
- 9:00 a.m. Landscaping for Wildlife – Brooke Moffis, UF/IFAS Extension Lake County, Commercial Horticulture/Florida Friendly Landscaping Agent III
- 10:00 a.m. Break (Visit Booths and IFAS Bookstore)
- 10:30 a.m. Horseshoe Crabs - Brittany Scharf, UF/IFAS Extension Hernando County Sea Grant/Marine Science Agent II
- 11:00 a.m. Venomous Snakes -Dr. Steve Johnson, UF/IFAS Professor, Department of Wildlife Ecology & Conservation
- 12:00 p.m. Lunch (*Lunch ticket available through eventbrite registration*)
- 1:00 p.m. Nature Coast CISMA
- 1:15 p.m. Pollinators –Dr. Jaret Daniels, UF/IFAS Associate Professor, Department of Entomology
- 2:15 p.m. Break (Visit Booths and IFAS Bookstore)
- 2:30 p.m. The Florida Black Bear – Mike Orlando, Florida Fish and Wildlife Conservation Commission
- 3:30 p.m. Living with Panthers, Ashlee O'Connor, Panther Outreach Specialist Florida Fish & Wildlife Conservation Commission
- 4:30 p.m. W.I.S.E. Adjourns

Day 2: February 12, 8:30 a.m. to 4:30 p.m.

- 8:30 a.m. On-site Registration
- 8:45 a.m. Eye of the beholder: The Recovery of Florida's Native Goliath Grouper, Dr. Angela Collins, UF/IFAS Extension /Florida Sea Grant Multi-County Agent II

- 9:30 a.m. Fish on the Loose– Dr. Jeff Hill, UF/IFAS Extension, Associate Professor Non-Native Species and Aquaculture, UF/IFAS Tropical Aquaculture Laboratory
- 10:30 a.m. Break (Visit Booths and IFAS Bookstore)
- 11:00 a.m. Techniques for Dealing with Nuisance Wildlife, Maxine Hunter, UF/IFAS Extension Marion County Residential Horticulture Agent/Master Gardener Coordinator
- 12:00 p.m. Lunch - (*Lunch ticket available through eventbrite registration*)
- 1:00 p.m. Gopher Tortoises - Krista Stump, UF/IFAS Extension Osceola County Natural Resources Agent
- 1:45 p.m. Break (Visit Booths and IFAS Bookstore)
- 2:00 p.m. The Biology and Management of Hydrilla in Florida Lakes - Dr. James Leary, Center for Aquatic and Invasive Plants
- 3:00 p.m. Techniques for Managing Invasive Plants, Dr. Stephen Enloe, Associate Professor, Center for Aquatic and Invasive Plants
- 4:00 p.m. W.I.S.E. Adjourns

Day 3: February 13, 8:30 a.m. to 12:00 p.m.

Field Trips –

1. Dade Battlefield
2. Florida Bass Conservation Center/Hatchery
3. Chinsegut National Wildlife Refuge
4. Half Moon WMA

Expert speakers from UF/IFAS Extension and Florida Fish and Wildlife Conservation Commission
Free educational materials (wildlife posters, FFL guides) *limited supply and first come first served

Catered lunch through Oakwood Smokehouse and Grill

Educational Booths: Wildlife Photography, Clearwater Marine Aquarium, Honeybee Research Laboratory, Nature Coast CISMA, Center for Aquatic Invasive Plants, Master Naturalist, Master Gardener and More!

UF/IFAS Bookstore

Snacks including coffee and water

W.I.S.E. Resource Contacts

<p>Dr. Angela Collins Multi-County Agent II UF/IFAS Extension Manatee County 1303 17th Street W Palmetto, FL 34221 (941) 722-4524 ext. 1826 abcollins@ufl.edu</p>	<p>Dr. Stephen Enloe Associate Professor UF/IFAS Center for Aquatic and Invasive Plants PO Box 110610 Gainesville, FL 32611 (352) 392-6841 sfenloe@ufl.edu</p>	<p>Brooke Moffis Extension Agent III UF/IFAS Extension Lake County 951 Woodlea Rd Tavares, FL 32778 (352) 343-4101 burnb48@ufl.edu</p>
<p>Jim E. Davis Multi-County Extension Director UF/IFAS Extension Sumter County 7620 SR 471 Ste. 2 Bushnell, FL 33513 (352) 569-6862 dvisshdn@ufl.edu</p>	<p>Dr. Jeff Hill Associate Professor UF/IFAS School of Forest Resources and Conservation 1408 24 St SE Ruskin, FL 33570 (813) 671-5230 ext. 118 jeffhill@ufl.edu</p>	<p>Ashlee O'Connor Panther Research Specialist Florida Fish and Wildlife Conservation Commission 298 Sabal Palm Road Naples, FL 34114-2572 (239) 417-6352 Ashlee.OConnor@MyFWC.com</p>
<p>Dr. Jaret Daniels Associate Curator and Director McGuire Center for Lepidoptera and Biodiversity University of Florida PO Box 112710 Gainesville, FL 32611 (352) 273-2022 jdaniels@flmnh.ufl.edu</p>	<p>Maxine Hunter Extension Agent I UF/IFAS Extension Marion County 2232 NE Jacksonville Rd Ocala, FL 34470 (352) 671-8400 maxine32666@ufl.edu</p>	<p>Mike Orlando Wildlife Biologist Florida Fish and Wildlife Conservation Commission 601 W. Woodward Ave Eustis, FL 32726 (352) 732-1225 Mike.Orlando@MyFWC.com</p>
<p>Chris Demers Extension Program Manager UF/IFAS School of Forest Resources and Conservation PO Box 110410 Gainesville, FL 32611 (352) 846-2375 cdemers@ufl.edu</p>	<p>Dr. Steven Johnson Associate Professor UF/IFAS Dept. of Wildlife Ecology and Conservation PO Box 110430 Gainesville, FL 32611 (352) 846-0557 tadpole@ufl.edu</p>	<p>Brittany Scharf Sea Grant Agent II UF/IFAS Extension Hernando County 16110 Aviation Loop Drive Brooksville, FL 34604 (352) 754-4433 bhallscharf@ufl.edu</p>
<p>Dr. Jamie Ellis Associate Professor UF/IFAS Department of Entomology and Nematology PO Box 110620 Gainesville, FL 32611 (352) 273-3924 jdellis@ufl.edu</p>	<p>Dr. James Leary Associate Professor UF/IFAS Center for Aquatic and Invasive Plants PO Box 110610 Gainesville, FL 32611 (352) 273-2451 learyj@ufl.edu</p>	<p>Krista Stump Extension Agent I UF/IFAS Extension Osceola County 1921 Kissimmee Valley Ln Kissimmee, FL 34744 (321) 697-3000 stumpk@ufl.edu</p>

Got Invasives?

Invasive exotic plant problem? Find a program to help by using FloridaInvasives.org.

The Florida Invasive Species Partnership has collected, evaluated and categorized assistance programs into a single resource, making it easier to find the financial and/or technical assistance available to Florida landowners to prevent or control invasive exotic species problems. FloridaInvasives.org has an online resource of management assistance programs to help in your fight against problematic plant species. This resource takes the guesswork out of finding the agencies or organizations offering assistance and will direct you to available programs. The Landowner's Incentives Database will also provide the requirements for each program, to help you decide if they are a good match for your needs.

Why was FloridaInvasives.org developed?

Invasive species have been identified as being costly ecologically and economically statewide in Florida. The Florida Invasive Species Partnership (FISP) is a collaboration of public and private entities in Florida, formed to link efforts at preventing and controlling invasive exotic plants across agency and property boundaries. FISP has developed an on-line tool of available financial and technical assistance sources to make it easier for landowners and land managers to find them.

How does FloridaInvasives.org help you?

FISP has created a searchable database, the [Florida landowner incentives database](http://FloridaInvasives.org), accessible at FloridaInvasives.org that allows you to find an assistance program for your needs. Search by your county, target species or other pertinent information into the online tool, and you will retrieve a current list of available programs.

FloridaInvasives.org will help provide focus to your search so that you can get the right person at the right program.

FloridaInvasives.org:

- Builds community awareness,
- Leverages limited resources through cooperation and
- May reduce individual land management costs.

This resource will be regularly updated with the most current program information to provide you the most up-to-date opportunities.

Go to FloridaInvasives.org to find out more.

Species Shown from top to bottom:

Mexican Petunia, Boston Fern, Mimosa, Cogongrass, Camphor



Think Locally, Act Neighborly

invasive species know no boundaries!



Do you want to be a Master Gardener?



Why Would I Want to Be a Florida Master Gardener?

Are you someone that enjoys plants and gardening or want to know more about gardening in central Florida? Do you enjoy volunteering in your community? Are you interested in the environment and water quality in Florida? Are you someone that looks forward to learning new skills through workshops or classes? And, do you enjoy sharing what you know with others? If you answered yes to any of these questions, the Master Gardener program could be for you!

How do I become a Master Gardener?

Here's how you apply to the Sumter County Master Gardener program:

- Complete and send in the Sumter County Master Gardener Application by July 1 and submit it to UF/IFAS Sumter County Extension, ATTN: Donna Lester, 7620 SR 471, Suite 2, Bushnell, FL 33513
- Interviews will start in July
- Pay Class Fee
- Complete a background check
- Complete over 50 hours initial training (which includes completing Green Industry Best Management Practices certification)
- Complete 75 volunteer hours and 10 hours of continuing education within the first year of certification through the Sumter County Extension office

The Florida Master Gardener Volunteer Program offered by UF/IFAS Sumter County Extension provides a program Classes will be held on Fridays from 9 am to 3:30 pm at the Sumter County Extension Office.

Formal classroom work consists of more than 75% of the intensive initial training. You'll learn about basic botany, soils, fertilizers, vegetables, entomology, citrus, turfgrass, use of (and alternatives to) pesticides, ornamentals, diseases and other related topics. All information is based on knowledge and research from University of Florida.

What do Master Gardeners do?

Master Gardeners are educators who answer horticultural questions for county residents, sharing unbiased, research-based information with the public. Other activities include:

- disseminating science-based information by phone, email, through plant clinics and event booths
- write newsletter or newspaper articles
- develop and deliver presentations for garden clubs, civic organizations and MG speaker series
- support youth programs
- garden in the Florida-Friendly Demonstration Garden in Bushnell
- become more knowledgeable through advanced educational opportunities

After Master Gardener Interns complete their first year, as Master Gardeners they will annually renew their recertification by completing 35 volunteer hours and 12 continuing education hours.

For any additional information or questions call Lisa Sanderson, the Sumter County Residential Horticulture Agent II and Master Gardener Coordinator at 352-569-6862.

UF/IFAS Extension programs are open to all persons without regard to race, color, sex, age, disability, religion, or national origin.

Do you want to be a Master Naturalist?

The Florida Master Naturalist Program

The Florida Master Naturalist Program (FMNP) is a University of Florida/IFAS Extension environmental education program developed for adult audiences. FMNP courses are provided by Certified Instructors throughout the state of Florida at Extension offices and other environmental education organizations.



The goal of the FMNP is to promote awareness, understanding, and respect of Florida's natural world. Students of the FMNP promote this goal by sharing their knowledge with family, friends, and through both formal and informal environmental education programs as employees or volunteers at parks, nature centers, eco-tour operations, and other organizations.

FMNP Students and Instructors

FMNP students include anyone over the age of 18 interested in learning more about Florida's environment. Those who benefit include environmental educators, natural resource managers, volunteers, eco-tour guides, teachers and anyone wishing to expand their knowledge of Florida's natural world. Professionals and teachers have obtained CEUs and in-service credit.

FMNP Instructors include individuals from the University of Florida/IFAS Extension, environmental educators, natural resource managers, teachers, professors and others. All FMNP Instructors receive training and are certified by the FMNP.

Core Modules

FMNP Core Modules provide a holistic approach to understanding Florida's ecology, natural history, and environmental issues. There are three Core Modules: Freshwater Wetlands, Coastal Systems, and Upland Habitats. Training includes ecosystem processes, identification of key plants and wildlife, the role of humans in shaping Florida's environment, interpretation skills, and environmental ethics.

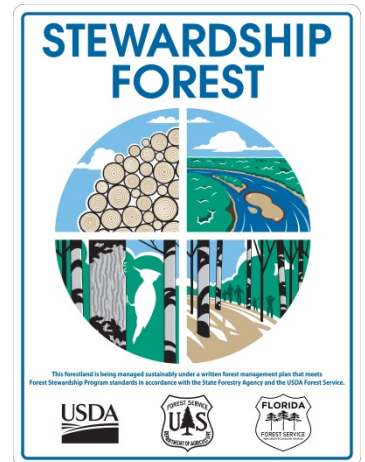
Each Module is 40 contact hours and includes classroom presentations, discussions, videos, field trips, and practical experience in interpretation. Students receive detailed course manuals and, upon completion, certificate of achievement, patch and pin, and registration in our online student database. Students who complete all three Modules are designated Florida Master Naturalists and receive a plaque and special recognition in an online database.

See <https://masternaturalist.ifas.ufl.edu/> for more information!

Florida's Forest Stewardship Program

Forest Stewardship is active management of forest land to keep it in a productive and healthy condition for present and future generations, and to increase the economic, environmental and social benefits of these lands. Forest Stewards are landowners who manage their forest lands on a long-term basis by following a multiple resource management plan.

The Forest Stewardship Program addresses the improvement and maintenance of timber, wildlife, soil and water, recreation, aesthetics, as well as forage resources.



Eligibility

Private forest landowners with at least 20 acres of forest land and a desire to manage their ownerships according to Stewardship principles can participate in the Forest Stewardship Program. Also, adjacent landowners, with similar management objectives, may combine their holdings to meet this acreage limitation.

Benefits to Landowners

- A customized management plan that is based on the landowner's objectives. The plan will include forest stand characteristics, property maps, management recommendations, and a five-year time line for future planning. This plan also serves as documentation of active management on the property that may help reduce tax liability.
- An opportunity for public recognition as a certified "Forest Steward".
- Educational workshops and tours, weekly Florida Land Steward email updates, and the quarterly Florida Land Steward newsletter produced by the University of Florida, IFAS Cooperative Extension Service and other partners.

How to Enroll

Contact your local Florida Forest Service County Forester and tell them that you would like to have a Forest Stewardship Plan prepared for your property. More information and application online at:

<http://FDACS.gov/ForestStewardship>



Tree Farm Program

The American Tree Farm System® is a program of the American Forest Foundation and was founded in 1941 to promote the sustainable management of forests through education and outreach to family forest landowners. Nearly 26 million acres of privately owned forestland and 80,000 family forest landowners in 46 states are enrolled in the program and committed to excellence in forest stewardship. About half of all Tree Farms are located in the South.

Eligibility

Private forest landowners with at least 10 acres of forest land and have a desire to manage their ownerships according to sustainable forestry guidelines can participate in Tree Farm.

Benefits to Landowners

Tree Farmers are good stewards of their forestland, committed to protecting watersheds and wildlife habitat and conserving soil. They manage their forestland for various reasons, including timber production, wildlife, recreation, aesthetics, and education/outreach. Florida Tree Farmers receive many benefits:

- Representation on local, state, and federal issues affecting forestland owners.
- Exposure to a network of forestry professionals and landowners committed to sustainable forestry.
- Invitations to workshops and tours, weekly Florida Land Steward email updates, and the quarterly Florida Land Steward newsletter produced by University of Florida IFAS and other partners.
- Certification that meets international standards of sustainable forest management.
- Participation in local, state, regional, and national Outstanding Tree Farmer of the Year awards and recognition.

Getting into the Program

Contact your local Florida Forest Service County Forester and tell them that you would like to join the Tree Farm program. More information is available at:

<https://www.treefarmssystem.org/florida>



Native Species in Florida — Online Resources

Supplement to WISE Workshop—February 2020

Prepared by: Chris Demers, School of Forest Resources and Conservation
University of Florida IFAS, cdemers@ufl.edu

Plants & Pollinators

Native Florida Plants Topic Area: https://edis.ifas.ufl.edu/topic_native_plants

Butterfly Gardening, Landscaping Topic Area: https://edis.ifas.ufl.edu/topic_butterfly_gardening

Bees and Beekeeping Topic Area: https://edis.ifas.ufl.edu/topic_beekeeping

Forests

Forest Management and Stewardship:

https://edis.ifas.ufl.edu/topic_forest_management_and_stewardship

Amphibians and Reptiles

Reptiles and Amphibians Topic Area: https://edis.ifas.ufl.edu/topic_reptiles_and_amphibians

Mammals

Florida Panther: <https://edis.ifas.ufl.edu/uw402>, <https://edis.ifas.ufl.edu/uw390>

Florida Black Bear Topic Area: https://edis.ifas.ufl.edu/topic_bears

Other Mammals Topic Area: http://edis.ifas.ufl.edu/topic_mammals

Other Wildlife

Wildlife Topic Area: https://edis.ifas.ufl.edu/topic_wildlife

Safe Harbor Agreements for Endangered Species: <http://edis.ifas.ufl.edu/uw403>

Invasive Plants and Control Techniques

Management of invasive vegetation in natural areas requires control methods that will minimize damage to non-target vegetation and soil. Control methods include cultural, preventative, manual, and mechanical removal, biological control, physical controls, and herbicides. Generally, these tools are utilized as part of a comprehensive management plan that considers a wide range of issues to control invasive plants and protect the native plants of a given natural area. These tools are not silver bullets and cannot be expected to solve invasive plant problems with a one-time shot. Eradication, which is the complete elimination of all living propagules of a species, is extremely difficult and often infeasible for well-established invasive plants. Without a clear management plan and long-term commitment, most single invasive plant control efforts result in short-lived success.

Herbicide Application Techniques for Woody Plant Control:

<https://edis.ifas.ufl.edu/ag245>

Integrated Management of Nonnative Plants in Natural Areas of Florida:

<http://edis.ifas.ufl.edu/wg209>

Controlling Invasive Plants in North Florida Forests:

<https://edis.ifas.ufl.edu/fr133>

Invasive Landscape Plants and Trees:

https://edis.ifas.ufl.edu/topic_invasive_landscape

Biology and Control of Cogongrass (*Imperata cylindrica*) in Southern Forests:

<https://edis.ifas.ufl.edu/FR411>

Cogongrass (*Imperata cylindrica*) Biology, Ecology, and Management in Florida Grazing Lands:

<https://edis.ifas.ufl.edu/WG202>

Efficacy of herbicide active ingredients against aquatic weeds:

<https://edis.ifas.ufl.edu/ag262>

UF/IFAS Center for Aquatic and Invasive Plants:

<http://plants.ifas.ufl.edu/>

Invasive Wildlife

Many invasive wildlife species are opportunistic and this leads to many problems with the habitats and native wildlife they impact. They can directly compete with many native species and some have become a significant limiting factor for native populations. Some can consume young domestic livestock including poultry, lambs, and goats. When natural foods are scarce or inaccessible, some will readily forage on almost any agricultural crop and feed set out for livestock and wildlife, leading to significant losses. Some will also feed on tree seeds and seedlings, causing significant damage in forests, orchards, and plantations. In Florida and the Southeast, this may be a serious impediment to regenerating and restoring longleaf pine forests. Some non-native fish species have established permanent populations in surrounding ecosystems, spread into other ecosystems, and cause harmful environmental, economic, or human health effects.

Invasive Wildlife (birds, mammals, reptiles, amphibians, fish):

https://edis.ifas.ufl.edu/topic_invasive_animals

Wild Hogs in Florida: Ecology and Management: <http://edis.ifas.ufl.edu/uw322>

USDA Animal and Plant Health Inspection Service Feral Swine Management Program:

<https://www.aphis.usda.gov/aphis/ourfocus/wildlifedamage/operational-activities/feral-swine>

University of Florida Wildlife Extension (Dr. Steve Johnson's lab):

<http://ufwildlife.ifas.ufl.edu/index.shtml>

Options for Unwanted Exotic Pets: <http://edis.ifas.ufl.edu/uw353>

Invasive Insects and Diseases

Our rural and urban landscapes are increasingly suffering from emerging invasive pests and diseases with important economic, ecological, aesthetic and cultural impacts. Introduced tree diseases, like laurel wilt fungus vectored by wood boring ambrosia beetles, have nearly eradicated a number of tree species and are threatening crops such as walnuts, avocados and mangoes.

Though it has not yet been found in Florida, there is tremendous potential for emerald ash borer (EAB) to establish directly or via movement of infested wood into the Florida. Since first recorded in Michigan in 2002, the EAB has broadened its range in the United States and has killed millions of ash trees.

Emerald Ash Borer: <https://edis.ifas.ufl.edu/in1141>

Redbay Ambrosia Beetle and Laurel Wilt Fungus:

<https://www.fdacs.gov/Divisions-Offices/Florida-Forest-Service/Our-Forests/Forest-Health/Forest-Insects/Redbay-Ambrosia-Beetle-and-Laurel-Wilt-Forest-Insects>

University of Florida Emerging Threats Research and Extension:

<http://sfrc.ufl.edu/emergingthreats/>

Florida Forest Service Forest Health:

<https://www.fdacs.gov/Divisions-Offices/Florida-Forest-Service/Our-Forests/Forest-Health>

Prepare Your Property for Hurricane Season

DRAFT

By Chris Demers

Hurricane season is June 1 through November 30. As we have learned in recent years, powerful hurricanes can make their way inland and do considerable damage to forest and agricultural lands and enterprises. It's never too early to start planning for a major hurricane that could make a direct hit on your land. There is no way to fully prepare for major devastation in advance, but there are some strategies and steps you can take to prepare you and your land for a major storm and recover more smoothly.

Connect with Professionals

Don't go it alone. There are resources and services available to help with your land management activities, and these connections can give you a leg up in the event of a hurricane or other natural disaster.

Work with a Consulting Forester and Get a Forest Inventory

Consulting foresters provide technical assistance in all phases of forest management for a fee. Their services include management plan preparation, forest inventory, timber sales, thinning, tree planting, herbicide and fertilizer application, and prescribed burning. The expertise, guidance, and connections of a consultant can be invaluable in the recovery process after the storm. If you have a lot of value in standing timber, a forest inventory will provide a detailed account of that value, which can be important for documentation for financial assistance after a hurricane or other natural disaster.

Get Connected to Assistance before the Storm

Don't wait for disaster to strike to contact the people and agencies that can help and provide management and recovery assistance. Get to know your University of Florida IFAS County Extension Agent and Florida Forest Service County Forester. They can provide valuable management assistance and will be knowledgeable about local recovery efforts, workshops, and available assistance after a hurricane.

Also contact your USDA Natural Resources Conservation Service and Farm Service Agency to see what assistance they can offer to help you reach your land management goals. Having your land or farm enrolled in an assistance program will help you get connected to recovery assistance when it is available after a natural disaster.

Pre-Storm Preparation

Do some pruning —Trees, especially those over structures and fences, should be pruned regularly to reduce broken or dead limbs that could cause damage.

Fill the tanks — Tanks containing fuel, herbicides, fertilizer, and other materials should be kept full, or otherwise secured, and to ensure that sufficient fuel is available for machinery used in recovery efforts after the storm.

Keep ditches clean — If present, ditches should be kept clean so excess storm water can drain properly.

Emergency equipment — Make sure that all emergency equipment; including generators, chain saws, air compressors, and other equipment; is on hand and in good working order.

Communications equipment — If you have them, ensure that radios are in good working order. Have hand-held portable radios with extra charged battery packs available for family or hired help after the storm. Direct truck-to-truck radio communication is most reliable when phone lines are down, but cellular phones with radio capabilities and standard cellular phones can help family and workers save valuable time during the recovery process, as opposed to communication systems that require communications to be relayed through a base unit.

Hazardous materials—Hazardous materials should be secured prior to a storm, and gasoline pumps, if present, should be shut down.

Emergency contacts — Have a list of phone numbers you might need in an emergency, including numbers for phone and internet service, utilities, fire department, police, and medical facilities.

Take photos – Take photos of your stands and/or fields before the storm so you can have a record of the condition of these areas before damage occurs. This could help with records needed for insurance claims and/or government assistance programs.

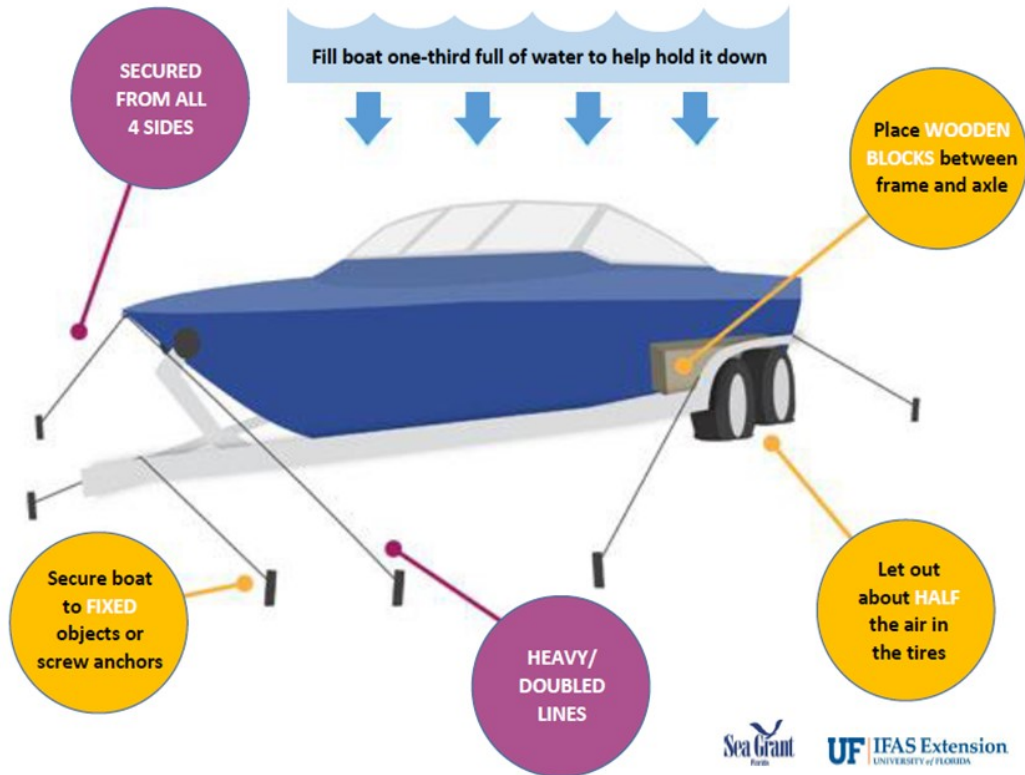
Time for harvest? – If in line with your management plan and objectives, consider harvesting mature timber stands to capture the full market value of the products you have. A salvage sale of a storm-damaged stand will only yield 10-15% of the normal market value. See Steps to Marketing Timber, <https://edis.ifas.ufl.edu/fr130>, for important considerations for selling your timber.

References

Zekri, M., R. Rouse, and J. Crane. 2017. Hurricane Preparedness for Citrus Groves. HS-804. Gainesville: University of Florida Institute of Food and Agricultural Sciences. Available online: <https://edis.ifas.ufl.edu/ch178>

Demers, C. and A. Long. 2019. Selecting a Consulting Forester. SS-FOR-16. Gainesville: University of Florida Institute of Food and Agricultural Sciences. Available online: <https://edis.ifas.ufl.edu/fr125>

Preparing Your Boat for a Hurricane





UF/IFAS Invasive Species Programs

<https://invasivespecies.ifas.ufl.edu/>

Florida Master Naturalist

<http://www.masternaturalist.ifas.ufl.edu/>

Florida Master Gardener

<http://gardeningsolutions.ifas.ufl.edu/mastergardener/>

Department of Wildlife Ecology and Conservation Extension Programs

<http://www.wec.ufl.edu/extension/>

School of Forest Resources and Conservation Extension Programs

<http://sfrc.ufl.edu/extension/index.html>

Florida–Friendly Landscaping Program

<https://ffl.ifas.ufl.edu/>