

Invasive Species in Georgia



THE UNIVERSITY OF GEORGIA
**CENTER FOR INVASIVE SPECIES
AND
ECOSYSTEM HEALTH**

WARNELL SCHOOL OF
FORESTRY AND NATURAL RESOURCES

COLLEGE OF AGRICULTURAL
AND ENVIRONMENTAL SCIENCES



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Insects

DON'T MOVE FIREWOOD

How you can help:

- Leave firewood at home, do not transport it to campgrounds or parks
- Use firewood from local sources
- If you have moved firewood, burn all of it before leaving your campsite



HELP STOP INVASIVE PESTS

Three recently introduced insects

emerald ash borer



Asian longhorned beetle



Sirex woodwasp



Current Occupation in Georgia Forests

March 2008

Japanese Honeysuckle	739,400 Acres (x27)
Privets (7 species)	345,000 Acres (x13)
Kudzu	26,600 Acres
Non-native Olives	17,800 Acres
Japanese Climbing Fern	9,200 Acres
Tallowtree	7,000 Acres
Non-native Roses	5,800 Acres
Non-native Wisteria	5,000 Acres
Cogongrass	< 300 Acres

18 Million Acres Occupied by 33 Taxa

9 Percent of Forested Acres in South

Japanese Climbing Fern – *fire hazard*



Acts as a fire ladder and will burn while it is still green

Japanese Climbing Fern

Impacts straw industry



At your local shop- Buyer beware!



Cogongrass
warm season
grass which
seeds
March - May

In Georgia
cogongrass
infestations spread
mostly from
rhizomes



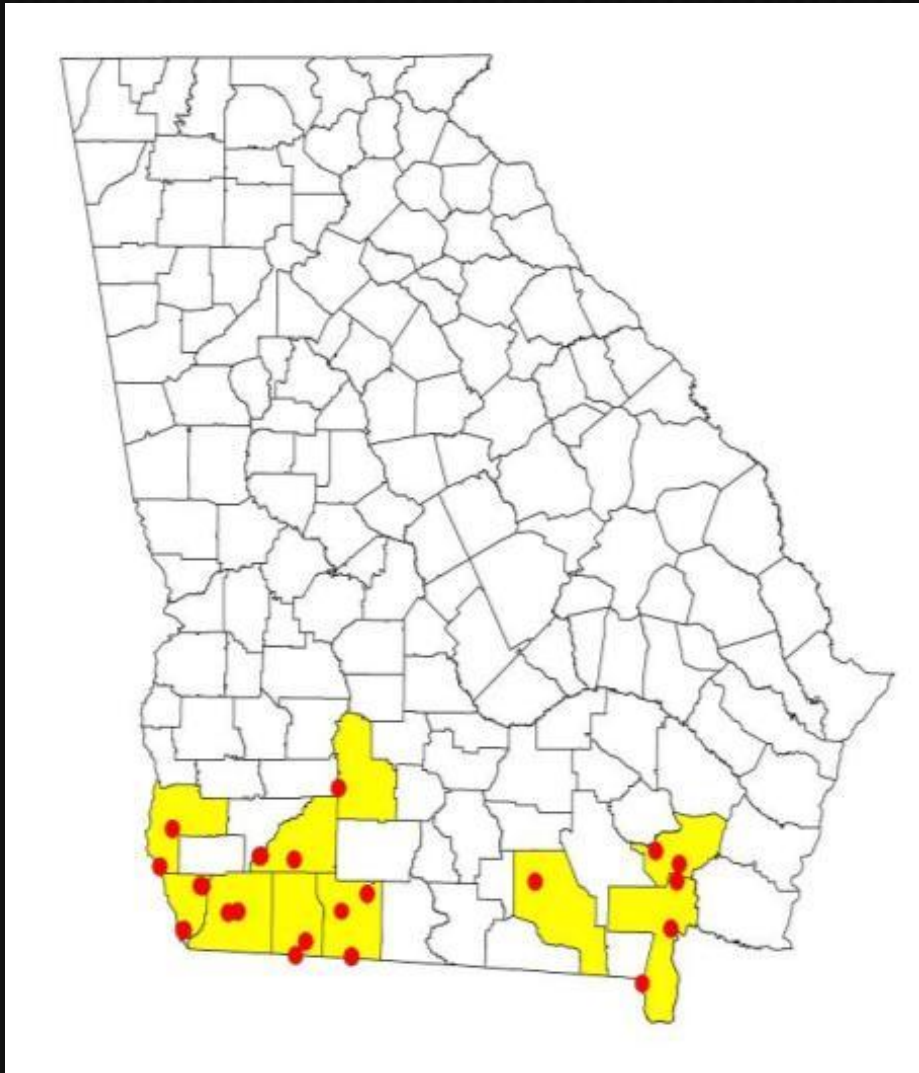


Cogongrass – An Extreme Fire Hazard

Cogongrass – Smoke Management Problem



Cogongrass

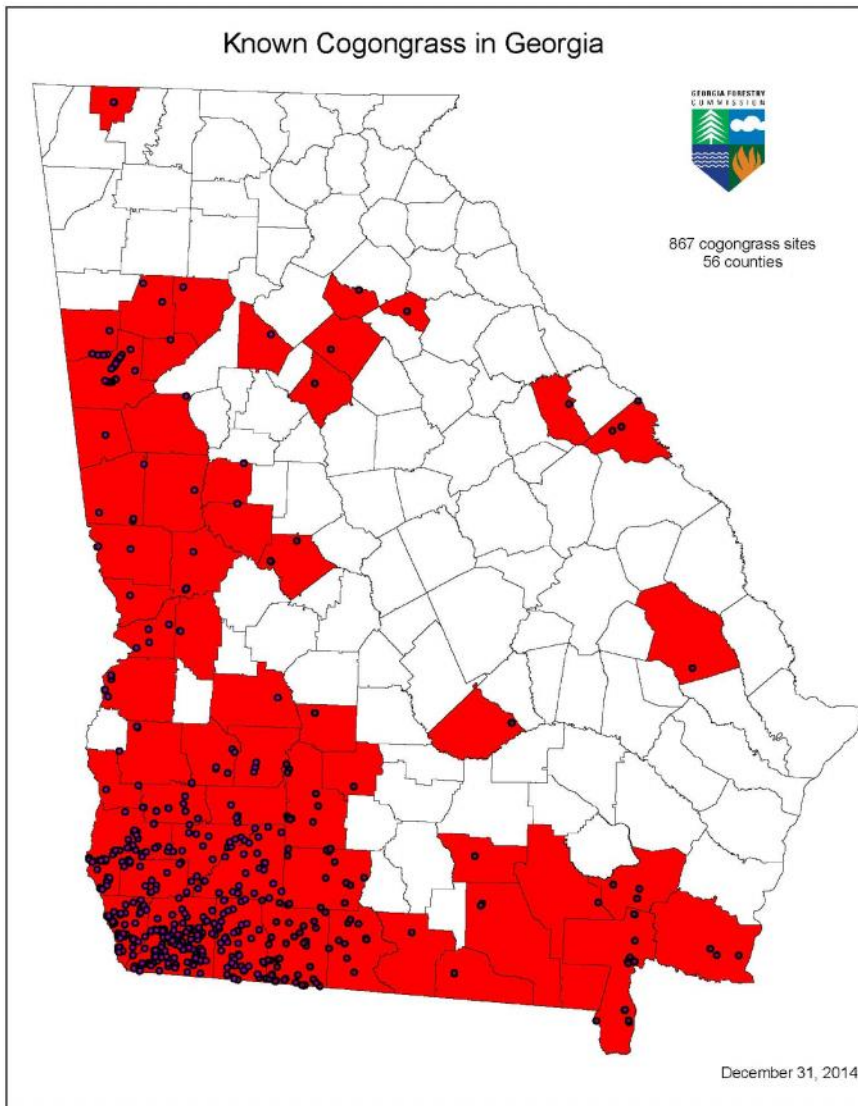


2006

**10 Georgia
Counties**

20 sites

Cogongrass



December
2014

56 Georgia
Counties

867 sites

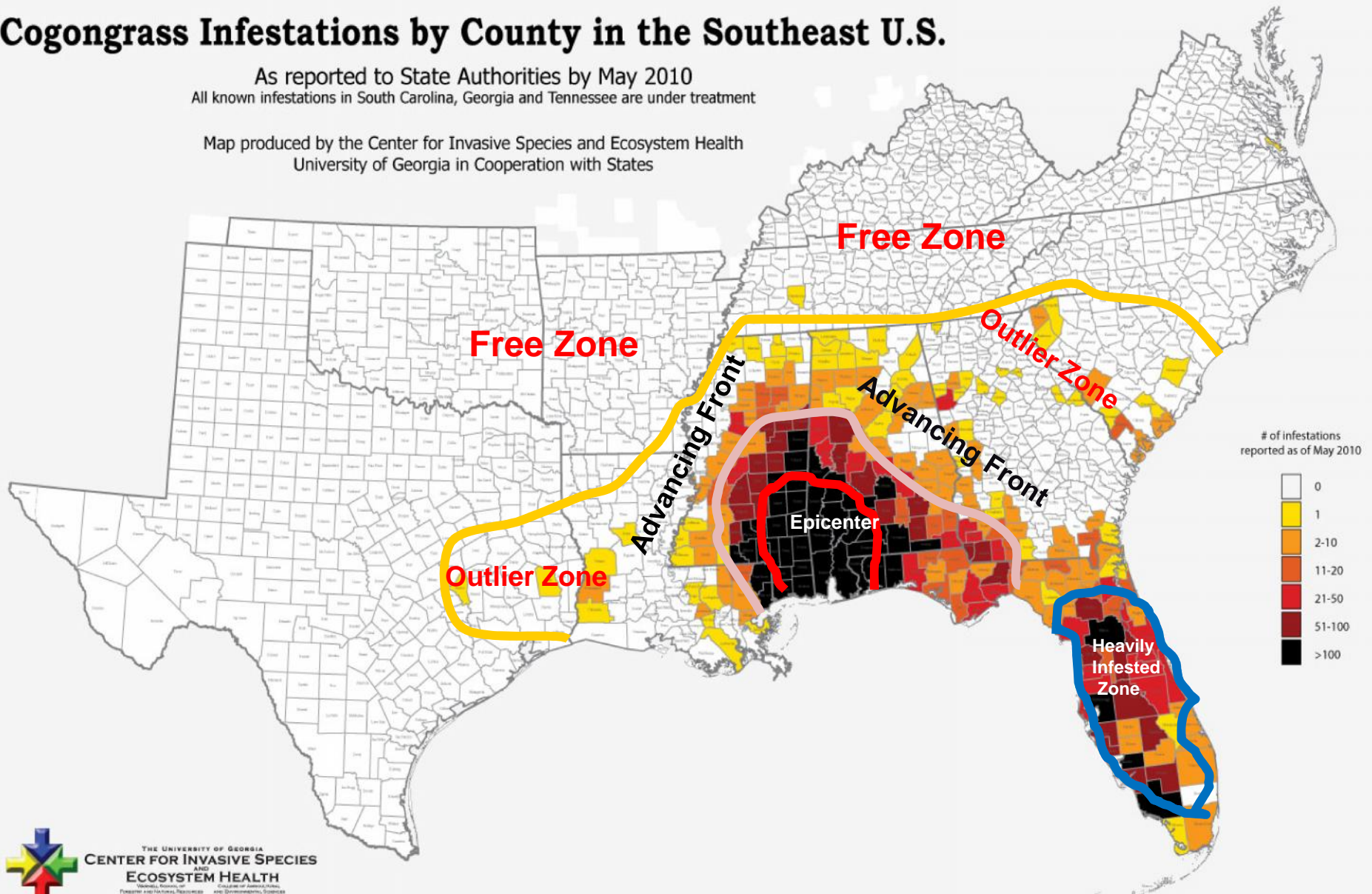
All Treated

Cogongrass Infestations by County in the Southeast U.S.

As reported to State Authorities by May 2010

All known infestations in South Carolina, Georgia and Tennessee are under treatment

Map produced by the Center for Invasive Species and Ecosystem Health
University of Georgia in Cooperation with States



Things You Can Do to Help

- Learn about Invasive Species

Invasive.org

InvasivePlantAtlas.org

Extension.org/invasive_species

- Report Invasive Species

EDDMapS.org

- Cooperate/Coordinate/Communicate

Create a CISMA for your region

Join GA-EPPC

- Plant Wisely



Things You Can Do to Help

- **Educate**

Family, Friends, Neighbors

Your Representatives

City Councils

- **Replace Invasive Species**

Plant native plants

Or at least non-invasive

- **Volunteer/Join**

State, County, City Parks

Master Gardeners/Master Naturalists

Georgia Botanical Society

Georgia Native Plant Society

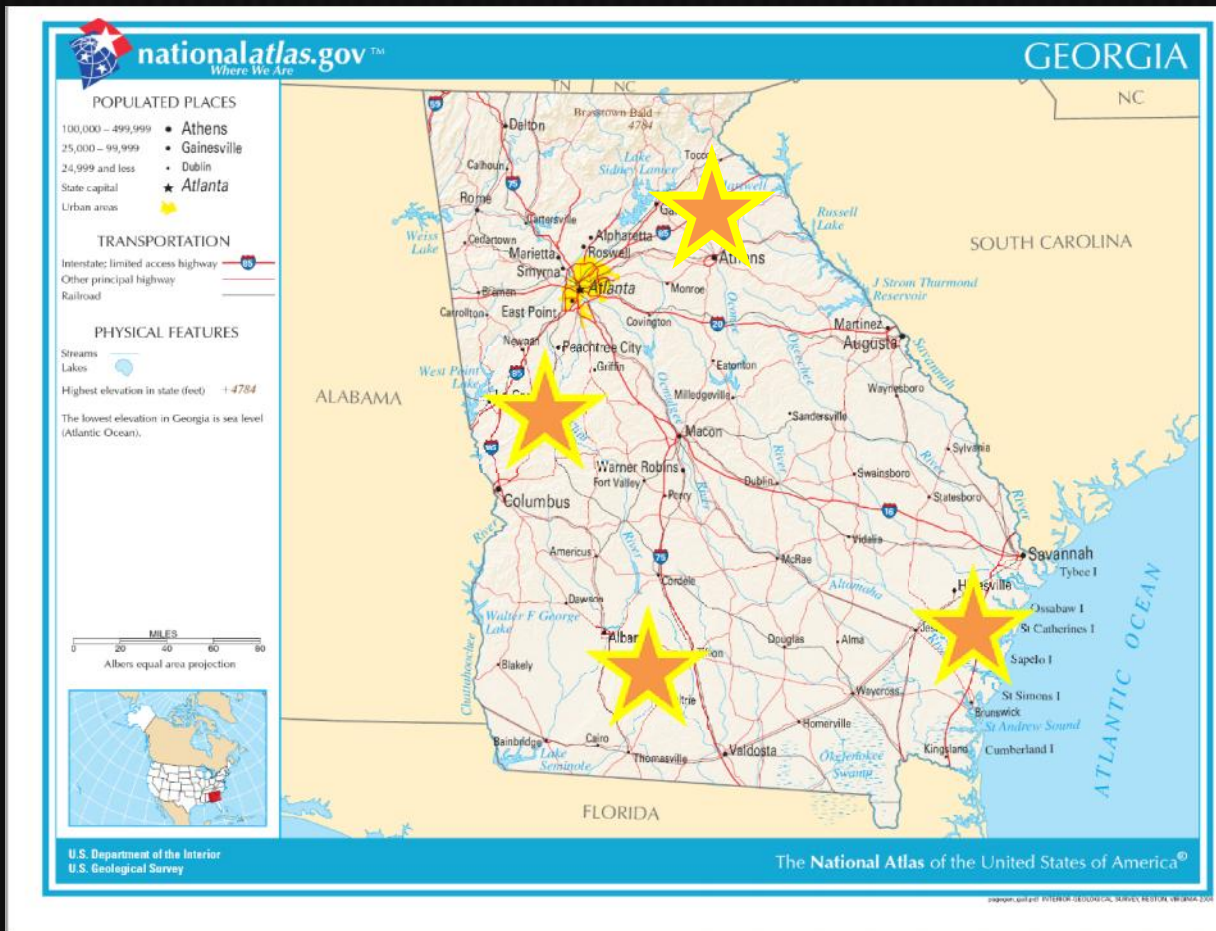
Garden Club

First Detector Program Invasive Species – All Taxa

Partners, Cooperators, Sponsors

- **Center for Invasive Species & Ecosystem Health, UGA**
- **USDA APHIS PPQ**
- **Georgia Department of Agriculture**
- **Georgia Exotic Pest Plant Council**
- **Georgia Forestry Commission**
- **Georgia DNR State Parks & Friends**
- **Master Gardener Program, UGA Cooperative Extension Service**

Four Regional Workshops Across Georgia in 2015



State Parks

- Northeast Georgia
- Southwest Georgia
- Coastal Georgia

UGA Campus

- Griffin: Midwest Georgia

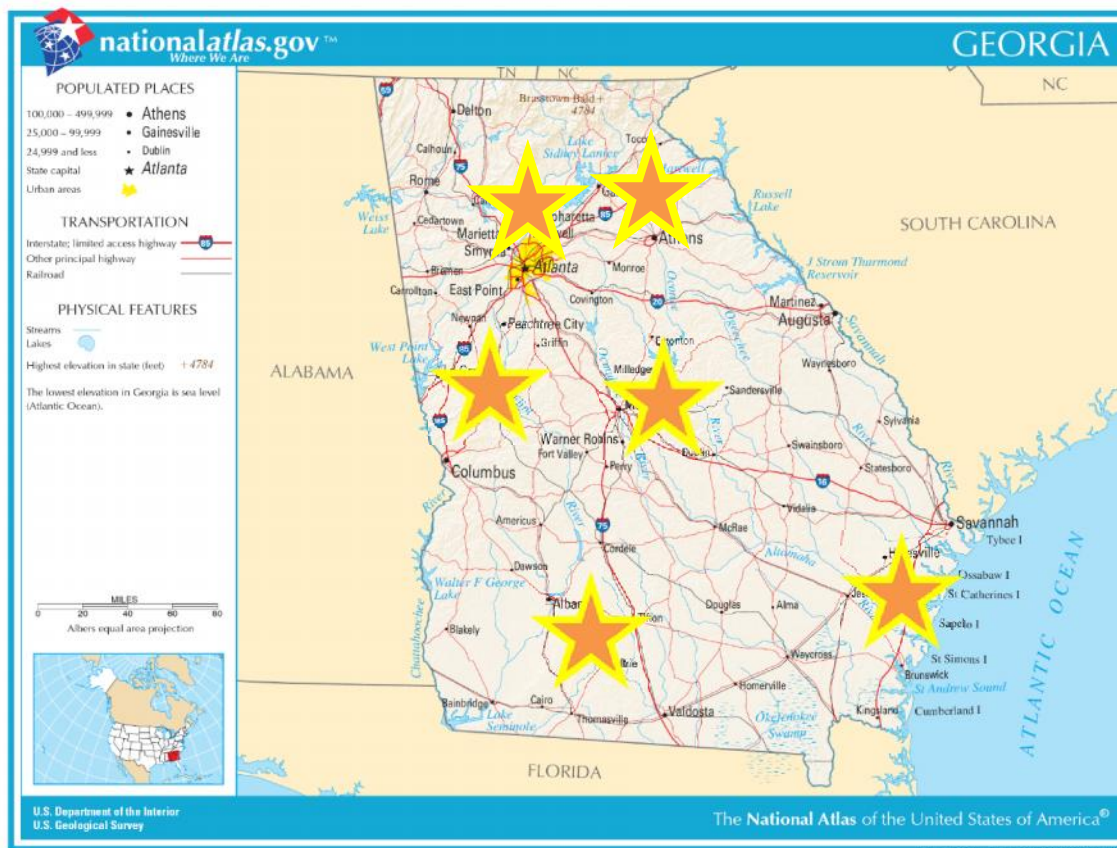
Plus Workshops organized by County Extension Agents

County Agents

- Advertising
- Registration
- Lunch
- Venue

First Detector Program

- Experts in invasive species
 - Identification
 - Mapping & Reporting
 - Management
- Educational materials



Experts will present on

- Invasive Species (all taxa) in Georgia:
Issues & Identification
- How to collect data and report Infestations:
Online & Smartphone App
- Management techniques:
Mechanical & Chemical
- Hands on practice:
Identify, Map and Manage Invasive Species

Educational materials

A Field Guide for the Identification of
Invasive Plants in Southern Forests



United States
Department
of Agriculture

Forest Service
Southern Research Station
General Technical Report

James H. Miller, Erwin B. Chambliss, and Nancy J. Loewenstein

A Field Guide for the Identification of
Invasive Plants in Southern Forests

EDDMapS: Invasive
Plant Mapping Handbook

EDDMapS Invasive Plant
Mapping
Handbook
Early Detection & Distribution Mapping System



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ECOSYSTEM HEALTH
WOODRUFF SCHOOL OF FORESTRY AND NATURAL RESOURCES COLLEGE OF AGRICULTURAL
AND ENVIRONMENTAL SCIENCES

A Homeowner's Guide to
Preventing the
Introduction and Spread
of Invasive Species

*How You Can
Make a Difference*



"The two great destroyers of biodiversity are, first,
habitat destruction and, second, invasion by
exotic species." E.O. Wilson

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A Management Guide for
Invasive Plants in Southern Forests

James H. Miller, Steven T. Manning, and Stephen F. Enloe



United States Department of Agriculture • Forest Service • Southern Research Station
General Technical Report SRS-131

A Management
Guide for Invasive
Plants of
Southern Forests

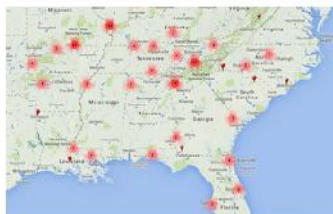
Resources – reporting tools

SEEDN
Southeast Early Detection Network

Home Report Sightings Distribution Maps Species Information Tools & Training My EDDMapS About [sign out](#)

What is the Southeast Early Detection Network (SEEDN)?

The Southeast Early Detection Network (SEEDN) website helps you identify and report invasive plants, insects and plant pathogens in the Southeastern United States. By reporting sightings of invasive plants and other invasive pests, we can better assess the extent of the infestations and hopefully eradicate new infestations before they become huge problems.



Statistics

746,255 County Reports
343,720 Point Reports
1,933 Species

Recent Reports in SEEDN States

- ✓ multi-flora rose by Justina Everhart in Fulton County, Georgia
- ✓ Chinese privet by Justina Everhart in Fulton County, Georgia
- ✓ thorny olive by Justina Everhart in Fulton County, Georgia
- ✓ Chinese wisteria by Justina Everhart in Fulton County, Georgia
- ✓ English Ivy by Justina Everhart in Fulton County, Georgia
- ✓ More Reports

Educational Resources

- ✓ EDDMapS: Invasive Plant Mapping Handbook

Powered by
EDDMapS
Early Detection & Distribution Mapping System

BUGWOOD APPS

Live Us a Call: 229-386-3238

Home Our Apps Contact

Southeast Early Detection Network

Submit invasive species observations directly with your iPhone from the field.

Features:

- ✓ GPS automatically captures your current location
- ✓ Submit an image of your sighting to add validity to your report
- ✓ Online reporting
- ✓ Offline reporting - records saved on your phone to upload when you have network connectivity
- ✓ species GUIDs include images and information on the worst non-native invasive plants, insects and plant pathogens in the Southeastern United States
- ✓ provides real-time point distribution maps centered on your current location
- ✓ invasive species resources



Identify and Report Invasive Plants, Insects and Plant Pathogens in the Southeastern United States

The Southeast Early Detection Network (SEEDN) app brings the power of EDDMapS to your smartphone. Now you can submit invasive species observations directly with your smartphone from the field. These reports are uploaded to EDDMapS and a mailed directly to local and state verifiers for review. SEEDN was developed by the University of Georgia's Center for Invasive Species and Ecosystem Health. SEEDN is more than just a smartphone app, it is an integrated invasive species reporting and outreach campaign for the Southeastern United States that includes the app and the EDDMapS website.

Every year new invasive plants, insects and plant pathogens are found in the Southeast. These non-native invasive species threaten to undermine the health of our environment. More than an environmental concern, invasive plants and animals can greatly alter our native lands, adversely impact native wildlife, destroy agricultural crops and threaten our health. Invasions of exotic species cost the United States over \$120 billion each year. The economic costs are small compared to the ecological ones. The southern United States has millions of acres of public lands, these lands furnish us the water we drink, the air we breathe and countless recreational opportunities. These public lands are highly vulnerable to invasion by exotic plant and animal species; it is estimated that over 10 million or 10% of forested acres in the South have been infested by invasive species.

By reporting sightings of invasive plants and other invasive pests, we can better assess the extent of the infestations and hopefully eradicate new infestations before they become huge problems such as kudzu. The goal of SEEDN is to make identification and reporting as easy and efficient as possible.

Just a few minutes of your time can help provide vital information needed to protect vital wildlife habitats, agriculture, forestry and your favorite recreational areas from the damage caused by invasive species. This app is so easy to use, you can collect data while out fishing, hiking, kayaking or walking near your neighborhood.

BUGWOOD CENTER for Invasive Species and Ecosystem Health
The University of Georgia - Warnell School of Forestry and Natural Resources and
College of Agricultural and Environmental Sciences - Dept. of Entomology

Partners



Resources - information

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INVASIVE.ORG
Center for Invasive Species and Ecosystem Health

Invasives 101 | Species | Images | Publications | Maps | Videos | Control | EDRR | CWMA/CI/IMA's | How to ... | Global

Invasive and Exotic Species of North America

any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem and whose introduction does or is likely to cause economic or environmental harm or harm to human health.

Plants | **Insects** | **Pelagics** | **Other Species**

A Field Guide for the Identification of Invasive Plants in Southern Forests

Updates of Jim Miller's book now providing information on accurate identification of all plants that are aggressively invading forests of the 13 Southern States at identify table.

More info...

Cooperative Agricultural Pest Survey

With the extensive range of foreign and domestic pests that could wreak havoc on native plant species and agricultural industries, protecting U.S. agriculture and plant resources.

Invasive Plant Atlas of the U.S.

This web site is a collaborative project between the National Park Service and the University of Georgia - Center for Invasive Species and Ecosystem Health.

The Nature Conservancy Global Invasive Species Team Website

INCV's Global Invasive Species Team (GIST) was established in March 2003. The GIST web site including the Global Invasiveness Abstracts, Invasives and INVASION/USA were in danger of becoming lost. Invasive.org in collaboration with the Global Invasive Species Team, is pleased to announce that the GIST web site has been archived.

Maps of Occupation and Estimates of Acres Covered by Nonnative Invasive Plants in Southern Forests

Regional maps of occupation and coverage estimates are available for 23 recognized invasive plants invading forests of the 13 southern States using U.S. Forest Service Southern Research Station Forest Inventory and Analysis data. More info.

Hosted Web sites

EPPCs | SE-EPIC | Florida Invasive Species Partnership | RIVER TO RIVER

Center for Invasive Species and Ecosystem Health
The University of Georgia - Warnell School of Forestry and Natural Resources and College of Agricultural and Environmental Sciences - Dept. of Entomology
Last updated on Monday, September 15, 2014 at 05:05 PM

Georgia Invasive Species Task Force

Educating the public on invasive species in Georgia

About Us | What is an Invasive Species? | Why should I care? | What can I do? | Species of Concern | Publications | Regulations | Contact Us

Georgia Invasive Plants Outreach Program

Developed by the Center for Invasive Species and Ecosystem Health
The University of Georgia

Funding, in part, for these publications is from a grant from the Georgia Forestry Commission and USDA Forest Service as part of the American Recovery & Reinvestment Act

A Land Manager's Guide to Best Management Practices (BMPs) to Prevent the Introduction and Spread of Invasive Species

A Homeowner's Guide to Preventing the Introduction and Spread of Invasive Plants in Georgia

Top 6 Poster

Invasive Species in Georgia Presentation

Plant Factsheets

cogongrass - *Imperata cylindrica*

Japanese climbing fern - *Lygodium japonicum*

olives - *Elaeagnus spp.*

privet - *Ligustrum spp.*

multiflora rose - *Rosa multiflora*

tallowtree - *Triadica sebifera*

Miniflyers

tallowtree - *Triadica sebifera*

Japanese climbing fern - *Lygodium japonicum*

SUPPORTERS

APHIS | UAS | INIFA

CONTACT US

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Karan Heasley, Invasive Species
Joe LaFollet, ITM and Forest Health

Invasive Plant Atlas of the United States

Home | Aquatics | Grasses | Herbs/Forbs | Shrubs/Subshrubs | Trees | Vines | All Species | Images | Parks | Sources

Contribute Plant Distribution Data to EDDMapS
Contribute Pictures of Invasive Plants to BUGWOOD Image Database System

Invasive Species News

Invasive monk parakeets come from one small spot

Invasive Plant Management and Grand Sayer species Collaboration

Now on profile for Invasive ants

New subspecies estimated to survive next, southern oak, hickory, and pine

Knowledge gain through citizen science

HEPA Landshark alternative Apo-vulvated Endangered Species Zoo

Increasing natural habitat for sustainable pest management also brings back butterflies

Legislative craftspunk cutting their way around Atlanta

Dendroica creates habitat and food source for deer ticks, hantavirus

More news

Non-native invasive species and organisms that have been introduced by humans either purposely or by accident and that have become serious environmental pests. One reason for their success as pests is that they are typically better suited to the wide range of environmental conditions (the various parasites, pathogens, predators) that occur in their native range. In addition to the great loss of biodiversity, habitat degradation and other ecological consequences, invasive species removal is a major challenge, with the billions of dollars our country will have to spend to meet health threat.


Invasive alien plants threaten native species and habitats by competing for critical and often limited resources like sunlight, water, and soil nutrients. They also have the ability to suppress growth, prolific reproductive capabilities and by causing changes that favor their growth and spread, invasive plant species displace and/or native plant communities, impede forest regeneration and the health of ecosystems. The species featured in this Invasive Plant Atlas are the most aggressive, cause genetic changes in native plant relatives through hybridization and some serve as agents for the transmission of harmful plant pathogens.

The Invasive Plant Atlas of the United States is a collaborative project between the Warnell School of Forestry, the University of Georgia Center for Invasive Species and Ecosystem Health, the Invasive Plant Atlas of Hawaii and the Lady Bird Johnson Wildflower Center. The purpose of the Atlas is to provide users with the most accurate, up-to-date information on all non-native invasive plants. The focus is on non-native invasive plant species that pose a great ecological, agricultural and other heavily developed and managed lands. Four main components are species lists, images, images of distribution maps, and a list of management actions. The Invasive Plant Atlas is one step in the effort to combat invasive species, preserve our natural landscapes and the native plants, animals, and other creatures that inhabit them.

Website developed by The University of Georgia - Center for Invasive Species and Ecosystem Health and the National Park Service in cooperation with the Invasive Plant Atlas of Hawaii and the Invasive Plant Control Unit, USDA Forest Service. UGA INVASIVE PLANTS Database, Lady Bird Johnson Wildflower Center, Virginia Association of Exotic Plant Controlists, State Department of Agriculture and Risk Management Program

Last updated on Thursday, September 23, 2010 at 05:22 PM

Resources - information



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Welcome to the BugwoodWiki

<p>High Plains IPM</p> <p>The High Plains IPM website covers current effective management options for insect, weed, pathogen and environmental problems affecting all major field crops grown in the High Plains. Here are some examples of the informational resources HPIM offers:</p> <ul style="list-style-type: none"> Bacterial Spot Fusarium Head Scab Eggplant, Pepper, and Tomato Nematodes Small Grains Armyworm Tomato Psyllid Jointed goatgrass 	<p>Diagnostician's Cookbook</p> <p>The Diagnostician's Cookbook is an effort to compile standard recipes and techniques used by plant diagnosticians. Here are some of the latest additions:</p> <ul style="list-style-type: none"> Malt salt agar Erythromycin test Kings Medium B Agarose dihydrolysis test Tobacco hypersensitivity reaction Tetrazolium medium Synthetically nutrient poor agar Ohio medium 	<p>Invasive Species</p> <p>A Field Guide for the Identification of Invasive Plants in Southern Forests. Update of Jim Miller's book now providing information on accurate identification of 55 plants that are aggressively invading forests of the 13 Southern States.</p> <p>A Management Guide for Invasive Plants of Southern Forests. This book provides the latest information on how to organize and enact prevention programs, build strategies, implement integrated procedures for management, and proceed towards site rehabilitation and restoration.</p> <p>Invadepedia! Please become a Scholar to contribute.</p> <p>Early Detection and Distribution Mapping System: A free online tool for reporting invasive species and looking at their distribution.</p> <p>Urban environments and structures</p> <p>Biocontrol In Your Backyard: Youth Biocontrol Education Programs in the Inermountain West 'NEW'</p>
<p>NPDN First Detector Training Materials</p> <p>A list of pests, diseases, and weeds that the National Plant Diagnostic Network Education and Training Committee is creating factheets and Power Point materials for. They will be used by first detectors and other educators. Browse the entire list or look at some of the latest additions:</p> <ul style="list-style-type: none"> First Detector Entomology 'NEW' Oak Wilt (<i>Ceratophyllum ficiforme</i>) Apple Scab (<i>Venturia inaequalis</i>) Winter Moth (<i>Operophtera brumata</i>) 	<p>Urban Forest Inventory Pest Evaluation and Detection (IPEd)</p> <p>The Inventory Pest Evaluation and Detection, (IPEd) protocol provides a portable, accessible and standardized method of observing a tree for possible insect or disease problems. It is intended to be a modern protocol for long-term national urban pest networking, detection, and monitoring. Explore the online resources for this protocol including:</p> <ul style="list-style-type: none"> The IPEd Manual The Early Detection Targets Glossary 	<p>New BugwoodWiki Features</p> <ul style="list-style-type: none"> BugwoodImages: Use images from the Bugwood Image Database just by using the image number! Textbox: How to include an image and the taxonomy of a species in an article. State Specific Wiki articles: Add a state specific page on to any article! Bugwood Image Gallery: Add a gallery of user selected images from the Bugwood Image Database!
<p>See how you can help the BugwoodWiki!</p> <p>We are maintaining 1,500 articles!</p> <p>See: Recent changes New pages</p> <ul style="list-style-type: none"> Community portal: Find out how to become an author and more about our goals. Current events: Take a look at the ongoing projects. Articles that could use some help: See what articles have been requested or need more information. Sandbox: A "play" area to get familiar with the wiki. Don't worry about making a mess in the Sandbox! 	<p>Topics</p> <p>Crop Management Commercially available biological controls Integrated Pest Management</p> <p>Fruits and Nuts Apples Pecan Blueberry Peaches Grape Other articles have been requested in this section. See the discussion page to see the requested areas.</p> <p>Field Crops Soybean Cotton Peanuts Wheat Tobacco Other articles have been requested in this section. See the discussion page to see the requested areas.</p> <p>Forestry Christmas trees Conifers Other forestry topics</p> <p>Vegetables Solanaeous crops Beans Onions Cucurbits Crucifers Other vegetables</p>	

This page has been accessed 1813,000 times.

This page was last modified: 12:05, 27 November 2012 by [Joseph LaForest](#). Based on work by [Chuck Sageran](#) and [Zim Griffin](#) and others.


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FORESTRY IMAGES

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Welcome Back, Karan A. Fawcett!

Random Image



direct seeding
Photo by Thomas C. Oraker, USDA Forest Service

Statistics

236,859 images
22,284 subjects
2,340 photographers

News & Site Updates

5/21/2015 - Invasive monk parakeets come from one small region

5/21/2015 - Invasive Plant Management and Greater Sage-grouse Conservation

5/20/2015 - Size no problem for invasive ants

5/18/2015 - New soybeans resistant to soybean rust, soybean cyst nematode, and more!

5/18/2015 - Low-allergen soybean developed

5/16/2015 - MIPN Landscape alternative App updated

5/15/2015 - Endangered Species Day for sustainable pest management also brings back butterflies

5/13/2015 - Louisiana crayfish eating their way around Africa

5/12/2015 - Bamboo creates habitat and food source for deer mice, hantavirus

More News from the Bugwood Blog

Forestry Images is a joint project of the Center for Invasive Species and Ecosystem Health, USDA Forest Service and International Society of Arboriculture.
The University of Georgia - Warnell School of Forestry and Natural Resources and College of Agricultural and Environmental Sciences



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Last updated on Tuesday, May 04, 2010 at 02:41 PM

BUGWOOD Image Database System images.bugwood.org

Log In

Image Recruitment

Taxonomic Recruiting		Overall - Insects - Diseases - Plants - Wildlife - Nematodes	
Subject Name	Scientific Name	Current Images	
Plants			
Wildlife and other animals			
Birds			
Reptiles			
Amphibians			
Drinks and slugs			
Invertebrates			
Fish			
Chickadees			
Fungi			
Bacteria			
Viruses			
Nematodes			
Insects			
Collembola			
Lepidoptera			
Hymenoptera			
Diptera			
Orthoptera			
Hemiptera			
Coleoptera			
Blattodea			
Mites			
Mezocoryza			
Centistes			
Water primrose			
Phytolacca americana			
Loose straws			
Water hyacinth			
Swamp stonecrop			
Cucurbit beetle			
Agave sawfly			
Sugarcane cyst nematode			
False Colorado potato nematode			
Java coffee mite			
Hybrid beetle			
Asian longhorn			
Oak ambrosia beetle			
Quercus moniliformis			
Seedcorn maggot			
Cyrtosia scabra			
Citrus psyllid			
Citrus greening			
Black scale			
Soybean maggot			
Plant hopper			
Japanese weevil caterpillar			

Project List Recruiting

Title	Description
Field to Forest to Coast in North America	Various agencies have identified a number of organisms that may be problematic if they were to be introduced into North America. This list seeks to build a resource repository to provide scientists with the images they need to verify identification and create resources for the field and others if the need were to be introduced.
Cooperative Agricultural/Soil Survey	The Cooperative Agricultural/Soil Survey performs annual surveys for viable spores of pests that may affect agriculture in the United States. By providing images of bacteria these pests and diseases, we seek to establish and foster partnerships between already available sources of images to be used in educational and public media materials.
USDA Weeds	The United States Society of America has partnered with the Cooperative Image Database in the hopes of building a repository of images of weeds in the United States. Although this is currently an ongoing project, we are currently gathering images along these lines and seeking cooperation from additional partners.
Urban Forest Inventory/Tree Early Detection	The Urban Forest Inventory has been working with a wide array of stakeholders to build an inventory of all the urban inventory program that would be able to help users to have pest or disease information in the urban forest based on the signs and symptoms of the trees. We have been recruiting images to build a list of the forest data.
Southern Plant Diagnostic Network	The Southern Plant Diagnostic Network created what of organisms that are either known to have a problem on crops in the south or could be a problem if they were introduced. Images supporting this list are used by diagnosticians, extension agents, crop consultants and other people involved in teaching and training pest and disease prevention.
Northern Plant ID Guide	The Northern Plant ID Guide is intended to provide current effective management options for forest and other wildland pests and the pest pathogens affecting all major forest types in North America (conifer, deciduous, mixed conifer-deciduous, temperate, boreal, etc.). The project is funded by the recruiting effort are mentioned in the guide.
Invasive Species Photo Inventory	Certain invasive species currently have no images available in our database despite the potential impact that they may have in the United States. It is our hope to gather images of these species and make them available in our Central Invasive Species Database.
Forest Ecology Training	Many organizations in Forest are trying to keep more people from coming to the field and the country. The recruiting project focuses on a list of the subjects that people should have the field for.
Wild Disease Agents	Wild is a major part in the United States and is widely grown around the world. This recruitment effort seeks to build a resource of the disease agents that are listed in the various tables.
Soybean Disease Agents	Concomitant to the field work mentioned above are agents on the United States and the field work mentioned above are agents on the United States. The United States is the world's largest producer of grain and oil crops (corn, soybean, etc.). It is a leading global producer in Africa and is an important part of the world's economy. The United States and the United States are the world's largest producers of grain and oil crops. The recruiting project seeks to build a resource of the disease agents that affect the commodity.
EDDMapS Representative Photos	Representative pictures of pests and animals are needed to display on the EDDMapS Reporting Page and on a phone app that is being developed.
Local Common and Problematic Weeds in the South	The Local Common and Problematic Weeds surveys are used to document which are weed problem and management systems. The survey is designed to use photos of common grasses, broadleaf, vegetable and fruit, and aquatic wetland plants. Each class is reviewed in turn every four years. The surveys are used to determine species in each state responsible for the crop damage in that year's survey. These resources for the top common and problematic weeds in that crop are based on experience with grasses, conifers, and cottons.
AgriPhotoNet Project	AgriPhotoNet is an online, GIS-based, web-based mapping tool that aggregates and displays invasive species location data in real time. It provides valuable mapping resources for monitoring and managing invasive species. This is a web-based platform that is available to all users across the state or through a mobile app for smartphones and tablet devices.
Urban Pests and Plant Management	There are many pests that we commonly find in the urban environment. This project will help recruit images for the more common ones that are commonly found and some of those that may be introduced in the future.
Important Lepidoptera	Many different butterflies and moths can cause damage to economically important commodities. There is a need for a repository that we can currently looking for images.
Lepidoptera Photo	The Lepidoptera Photo Inventory will be an online resource for insect photos with general support, related to lepidoptera and pest management and IPM strategies for non-pesticide control (including control, conservation biology and research) against. The goal is to develop, promote and enhance diagnostic tools and resources for citizen forest, landscape, vine and resource management of pests.
PlantVillage	The PlantVillage app for your smartphone, like so other apps provide reliable info to identify weeds, insects and diseases in your fields while additionally creating and uploading reports enabling you to make and/or management decisions. This project is recruiting images of crop pests.
SoilNet for Corn	The SoilNet app for your smartphone, like so other apps provide reliable info to identify weeds, insects and diseases in your fields while additionally creating and uploading reports enabling you to make and/or management decisions. This project is recruiting images of crop pests.
PlantVillage for Corn	The PlantVillage app for your smartphone, like so other apps provide reliable info to identify weeds, insects and diseases in your fields while additionally creating and uploading reports enabling you to make and/or management decisions. This project is recruiting images of crop pests.

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Last updated on Tuesday, May 04, 2010 at 02:41 PM



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