Ten Years of Invasive Species Data Collection in the Greater Everglades

Chuck Bargeron and Rebekah Wallace
University of Georgia
Center for Invasive Species and Ecosystem Health
Tifton GA





Center for Invasive Species and Ecosystem Health

- Partnership between College of Agricultural and Environmental Sciences and School of Forestry and Natural Resources
- Focus on Invasive Species, Integrated Pest Management and Forest Health
- Use Information Technology to provide information to scientists, professionals & the public
- Build partnerships across agencies, organizations, disciplines and borders





What is EDDMapS?

- Existing range and leading edge of invasive species
- Uses standardized data collection protocols
- Aggregate database
- Tools for data submission
- Verification system





Partners















Everglades Cooperative Invasive Species Management Area





















Website





Home

Report Sightings

Distribution Maps

Species Information

Tools & Training

My EDDMapS

About

sign out



Statistics

321,748 County Reports 294,513 Point Reports 1,715 Species

Recent Reports in Florida

- New Guinea flatworm by Felix Gonzalez in Miami-Dade County, Florida
- New Guinea flatworm by Melissa Brown in Orange County, Florida
- brown anole by Emily Wagner in Santa Rosa County, Florida
- knight anole by Tom Dussault in Collier County, Florida
- knight anole by Tom Dussault in Collier County, Florida
- ✓ More Reports



Smartphone App

IveGot1 brings the power of EDDMapS to your iPhone. Now you can submit invasive species observations directly with your device from the field. These reports are uploaded to EDDMapS and e-mailed directly to local and state verifiers for review.





Educational Resources

- ✓ EDDMapS: Invasive Plant Mapping Handbook
- ✓ EDDMapS Training Video
- ✓ REDDy: Reptile Early Detection and Documentation Observer Training Course
- Step-By Step Instructions for Reporting an Invasive Animal Sighting in EDDMapS



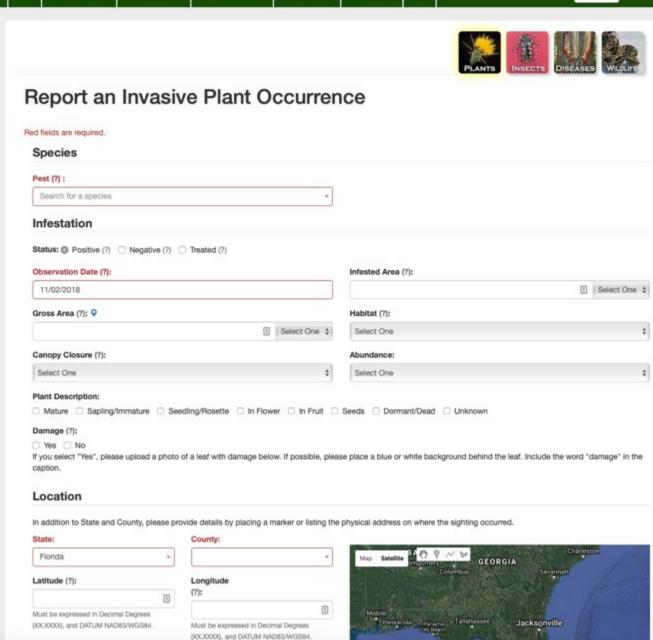
Home Report Sightings

Distribution Maps

Species Information

Tools & Training My EDDMapS About

sign out





Overview

Reports

Download

Alerts

Projects

Edit Profile

View Profile

My Uploads

Home Report Sightings Distribution Maps Species Information Tools & Training My EDDMapS About

Bulk Data Uploader

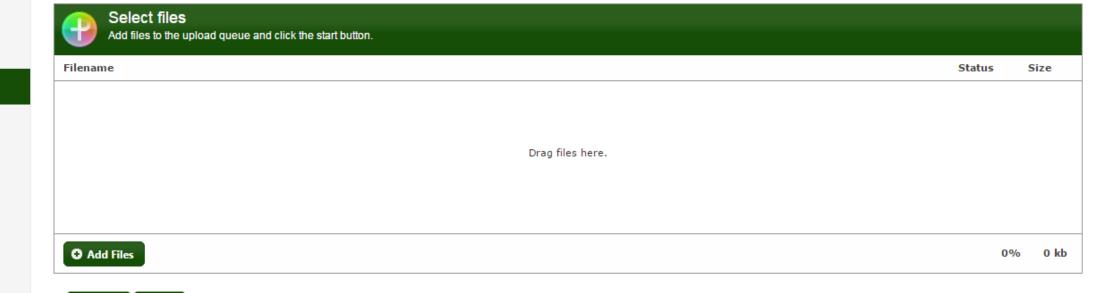
Batch Name (something you will recognize)

Reporter Name (who should these reports go under)

Joe LaForest

Upload

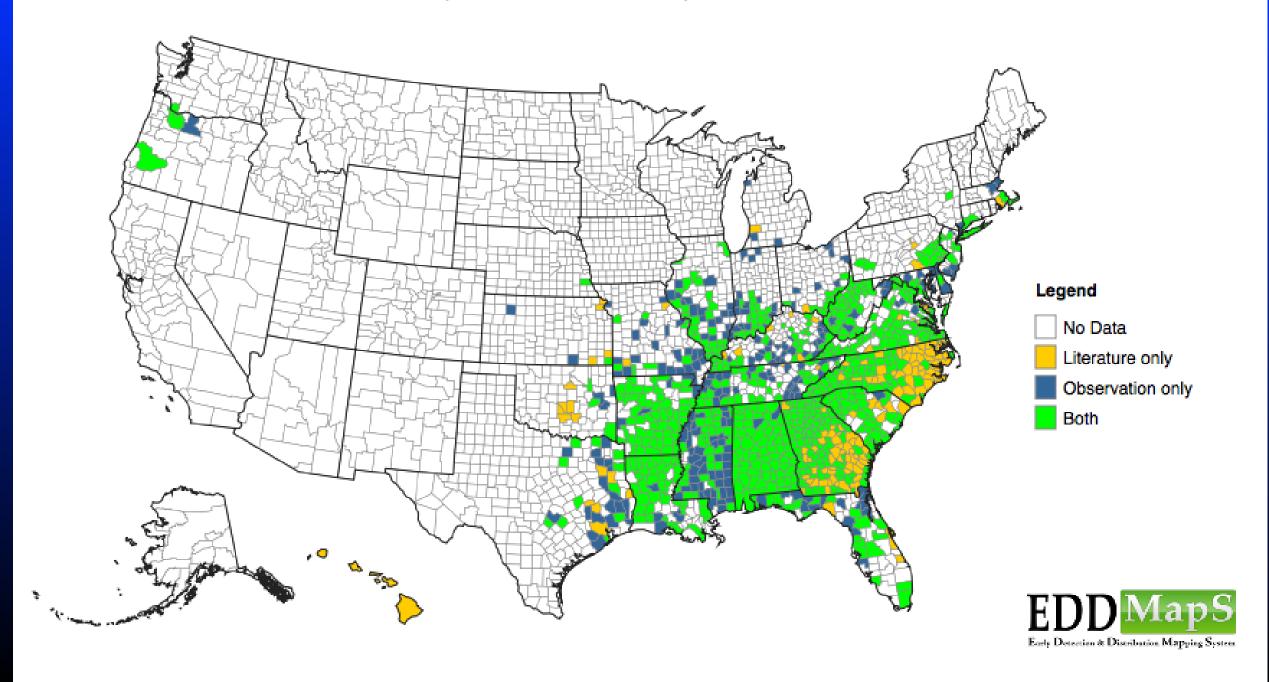
clear



sign out

If you are receiving a File Extension error or having trouble uploading a file please email mdliles@uga.edu or bugwood@uga.edu and we will add your file extension to our accepted list.

kudzu (Pueraria montana var. lobata)



Brazilian peppertree Schinus terebinthifolius Raddi

States Counties Points GIS

Download Record (pdf)

 Record ID
 4130966

 Status:
 Positive

Location Miami-Dade County, Florida

Source Everglades Digital Aerial Sketchmapping

Project EDDMapS Florida

Comments Everglades Digital Area Sketchmapping data 2012-2013

Gross Area 3.86460804939 acres

Coordinates 25.7205963135, -80.6956253052

ReporterAffiliation SFWMD/USNP

Surveyor LeRoy Rodgers and Tony Pernas

Observation Date January 1, 2012
Date Entered December 1, 2014
Year Accuracy To the Year

Percent Cover 15

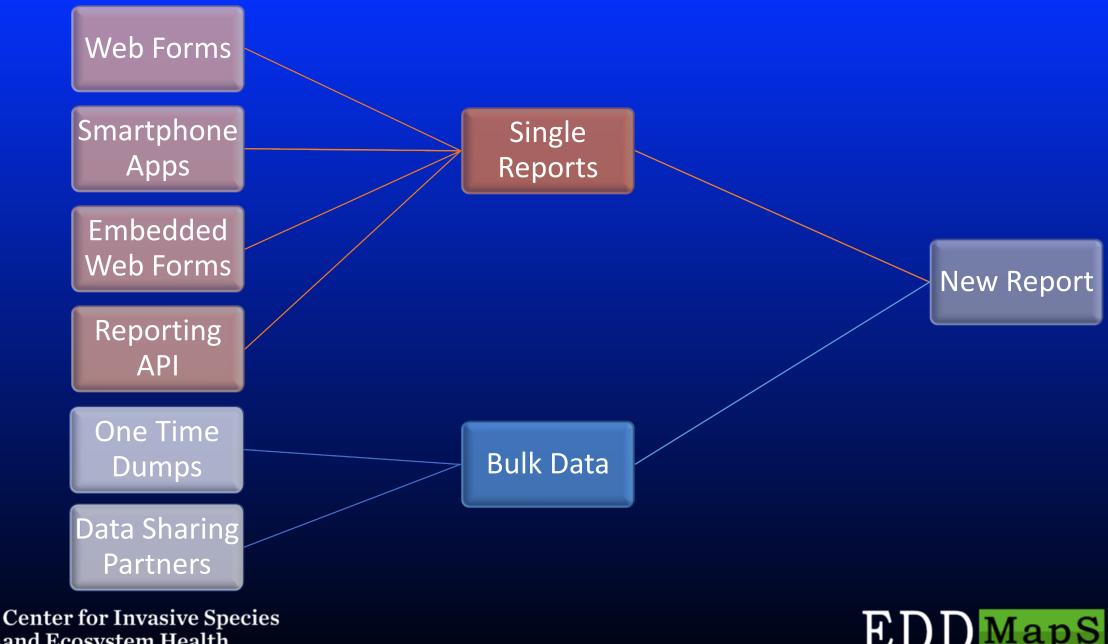
Source Type Joint Federal/State/County



Verification System



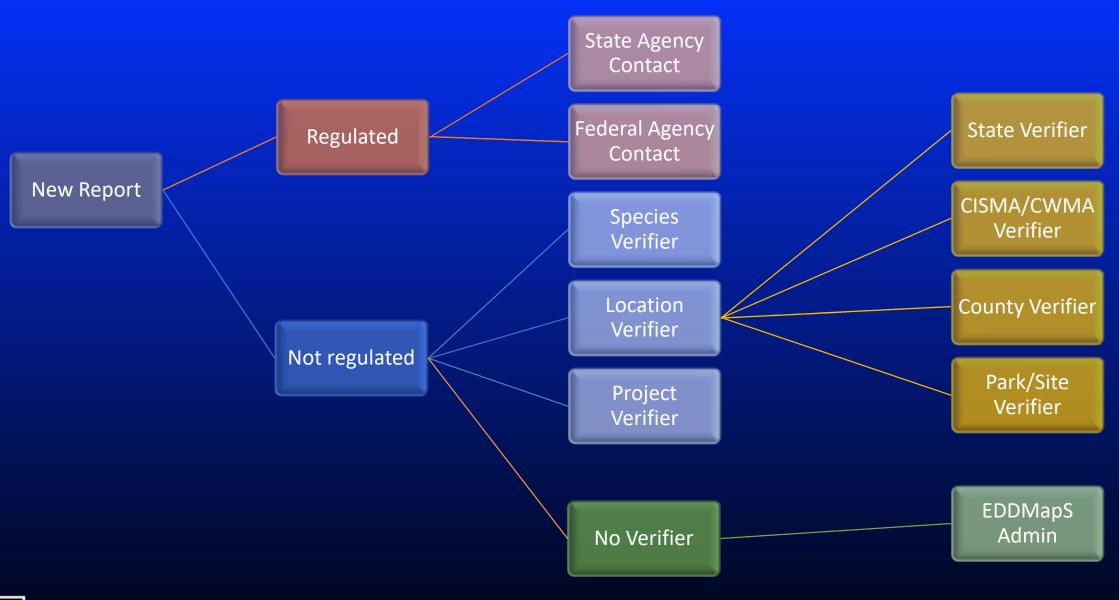






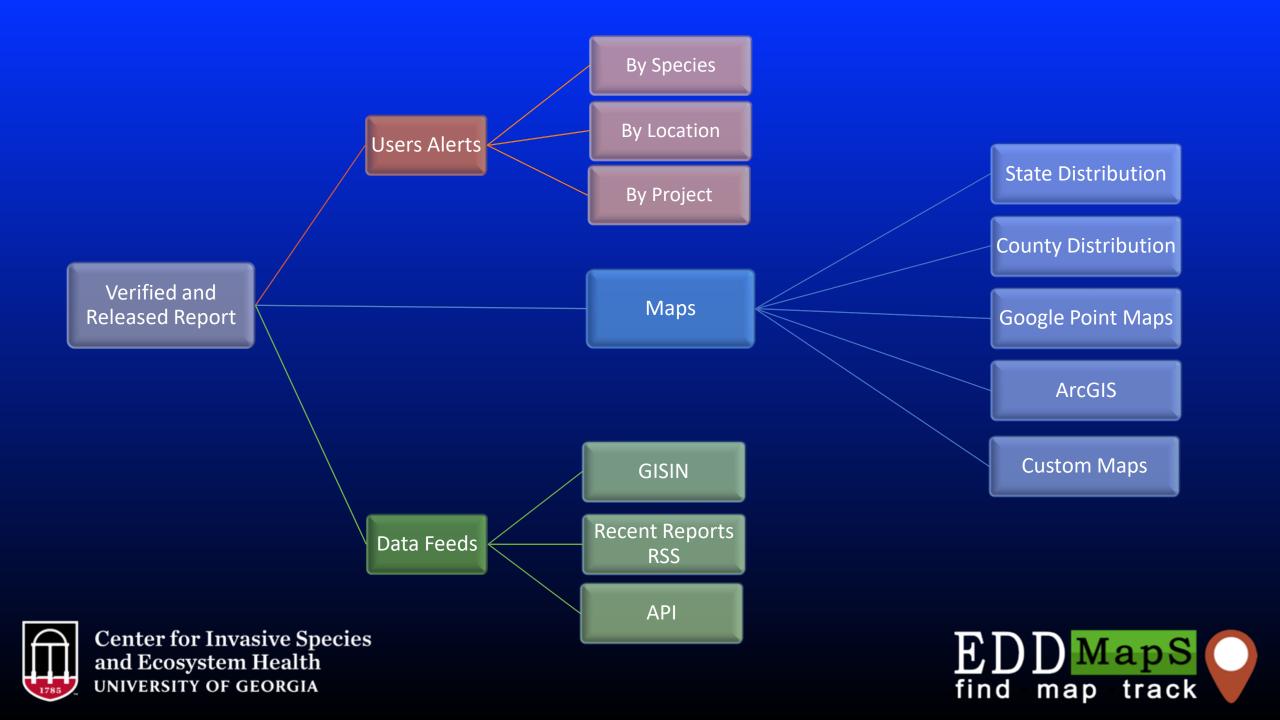
and Ecosystem Health
UNIVERSITY OF GEORGIA











Smartphone Apps







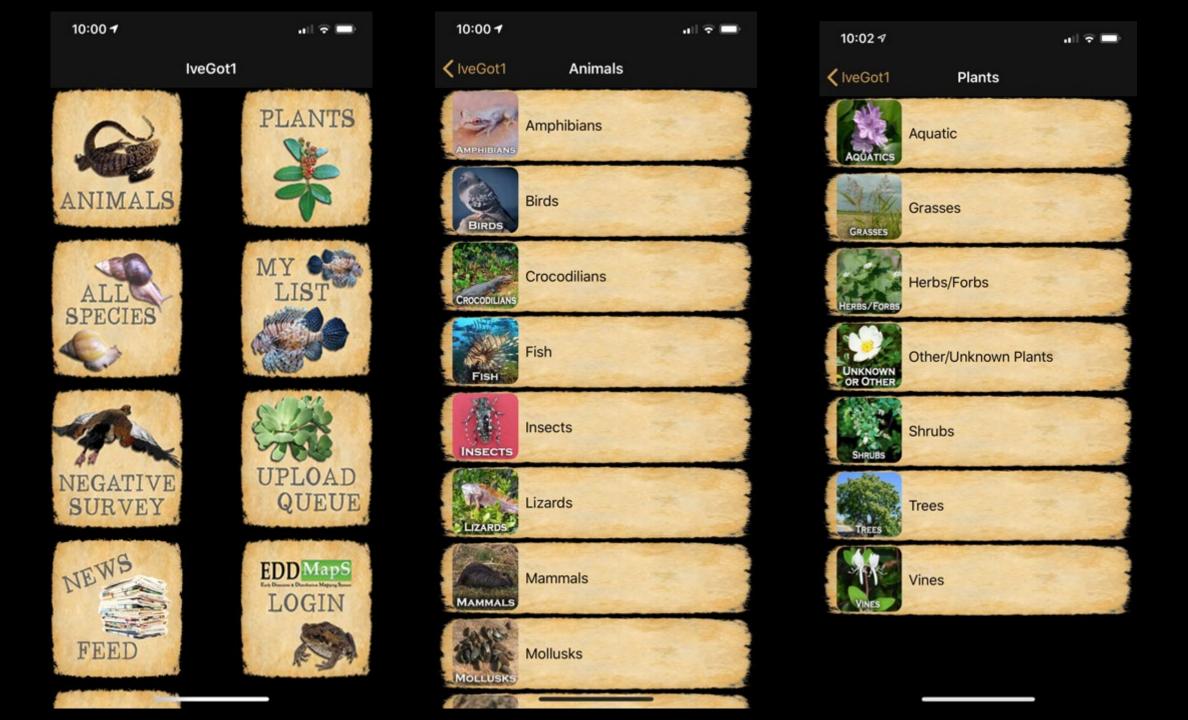
IveGot1 Smartphone App Stats

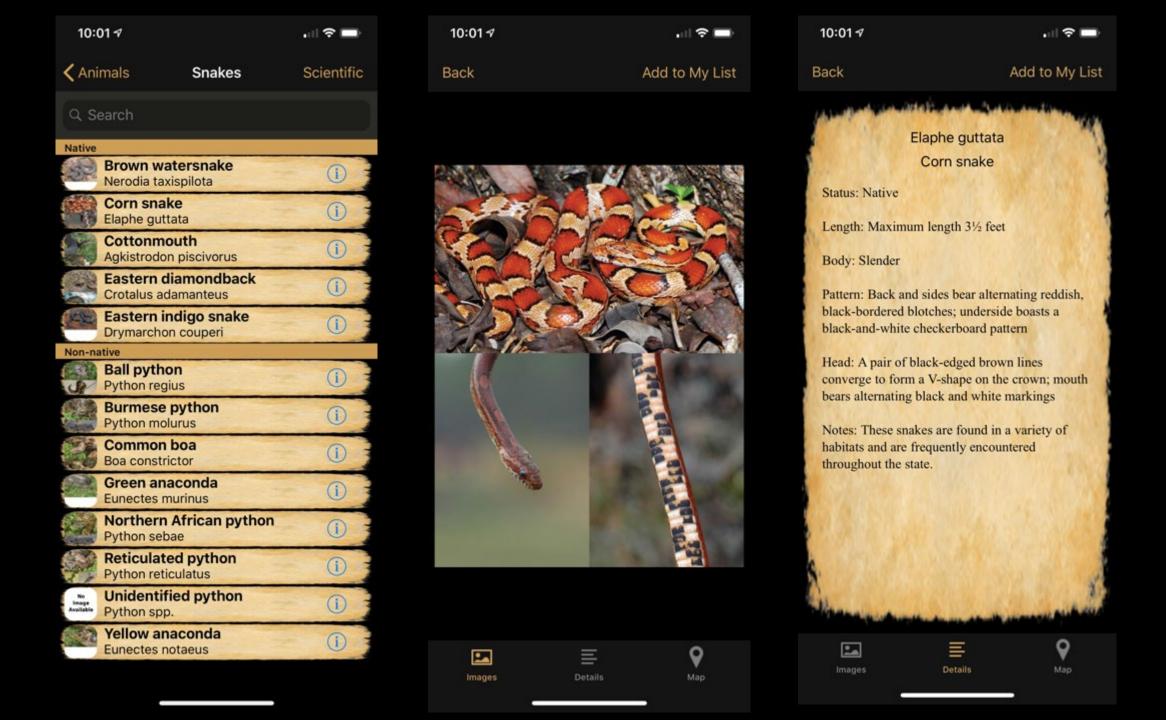
iOS – iPhone and iPad 40,957 downloads +4,594 last year 117,512 upgrades 59 IveGot1 Español

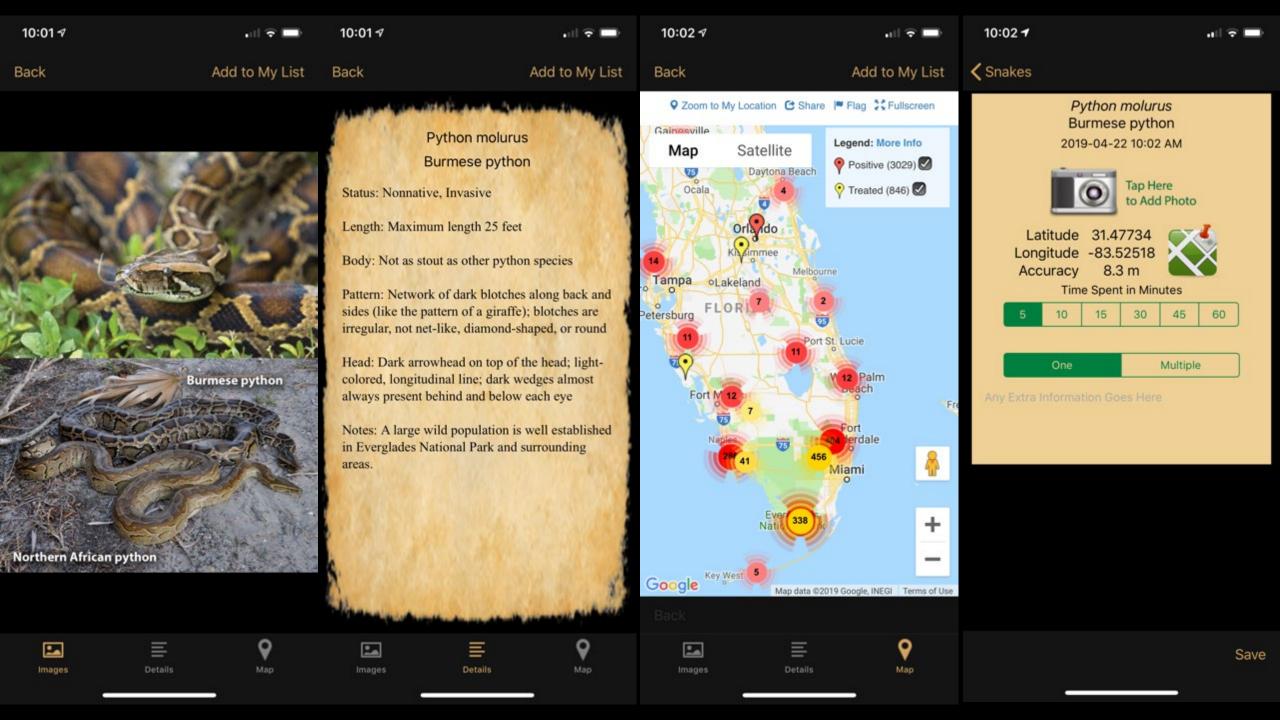
Android
5,830 downloads +823 last year
9,720 updates
4 IveGot1 Español

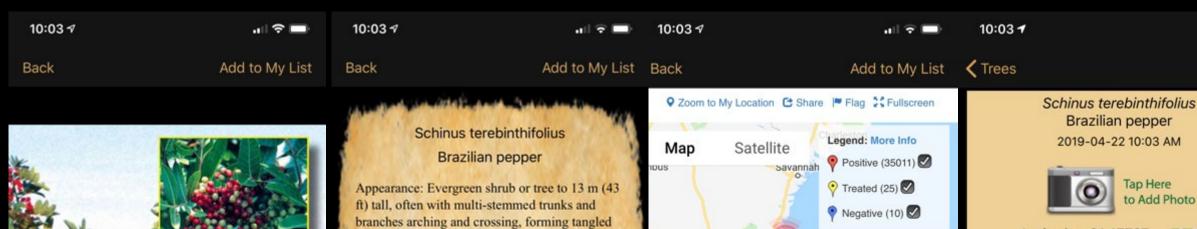














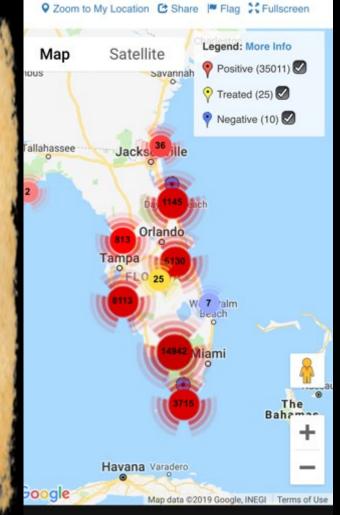
masses.

Leaves: Alternate, odd-pinnately compound with 3-11 leaflets (usually 7-9); elliptic-oblong, 2.5-5 cm (1-2 in) long, with upper surfaces dark green, lower surfaces paler, and leaflet margins often somewhat toothed. Leaves aromatic when crushed, smelling peppery or like turpentine.

Flowers: Unisexual (dioecious), small, in shortbranched clusters at leaf axils of current-season stems; 5 petals, white to 2 mm (0.07 in) long.

Fruit: A small, bright-red spherical drupe.

Ecological threat: Forms dense thickets of tangled woody stems that completely shade out and displace native vegetation. Has displaced some populations of rare listed species. Produces certain agents, which appear to suppress other plants growth. FLEPPC Category I





Seribution NIW ME C CW CE













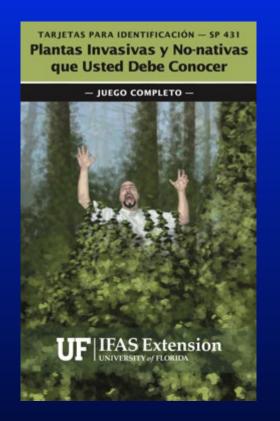






IveGot1 español - Now Available





Translation by Ernesto Lasso de la Vega, Lee County
Hyacinth Control District





Statistics





EDDMapS Florida Statistics

Overall

318,433 County Reports

291,482 Point Reports

1,683 Species

3,788 Reporters

Last Year

13,866 Reports (includes bulk data)

347 Species

950 Reporters

5,838 Web Reports

2,157 iPhone Reports

1,382 Android Reports

971 Web Reports

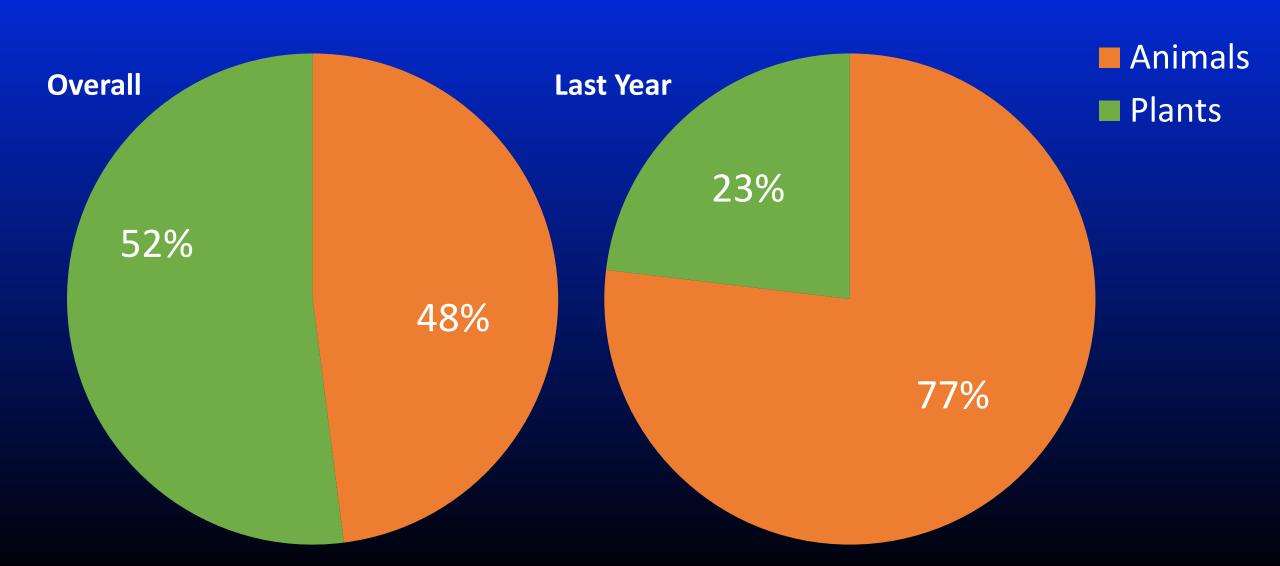
457 iPhone Reports

257 Android Reports



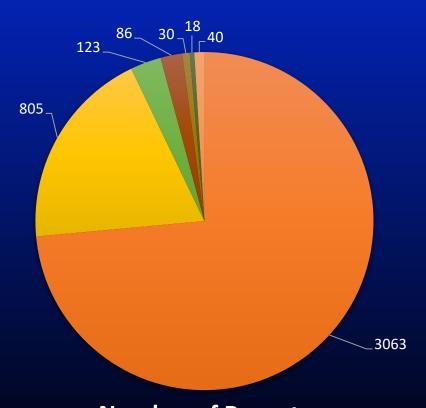


EDDMapS Florida Statistics



Number of Florida Reporters by Number of Reports

Number of Reporters

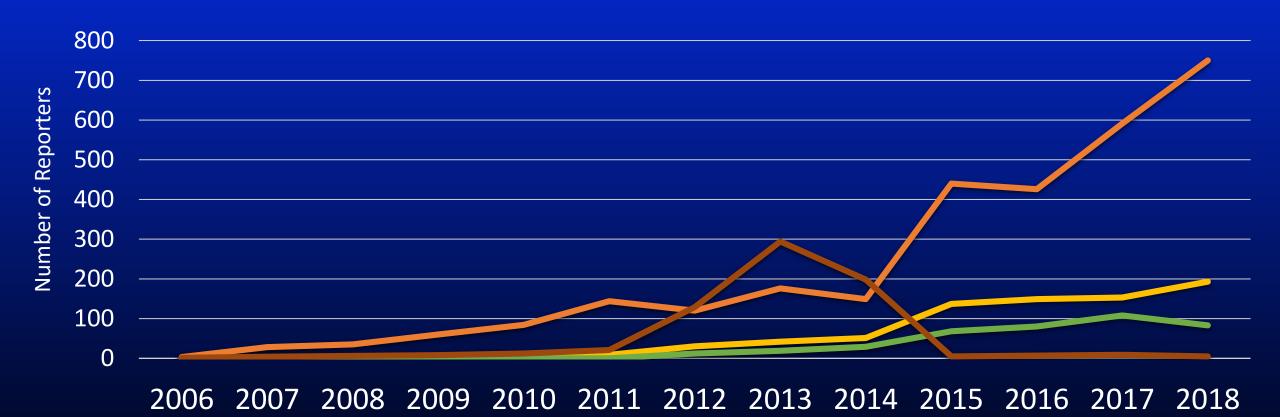




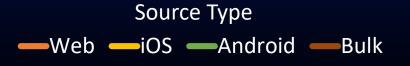




Reviewed data in Florida by number of reporters by year by source type

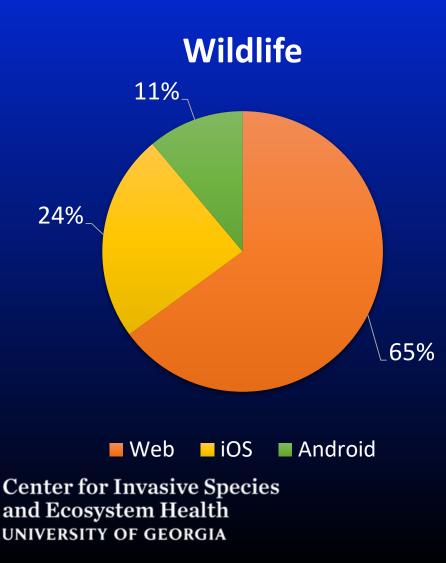


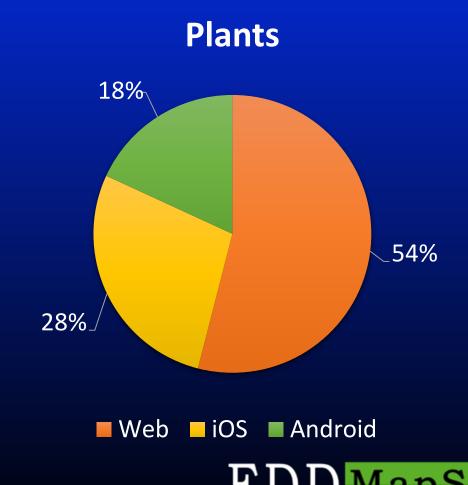






Reviewed data in Florida by category by source

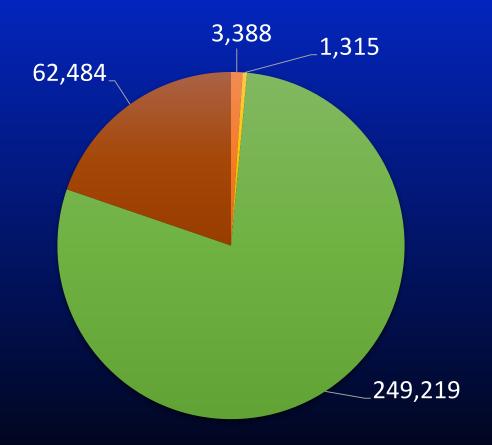




map track

Reviewed bulk data in Florida by category

Bulk Data

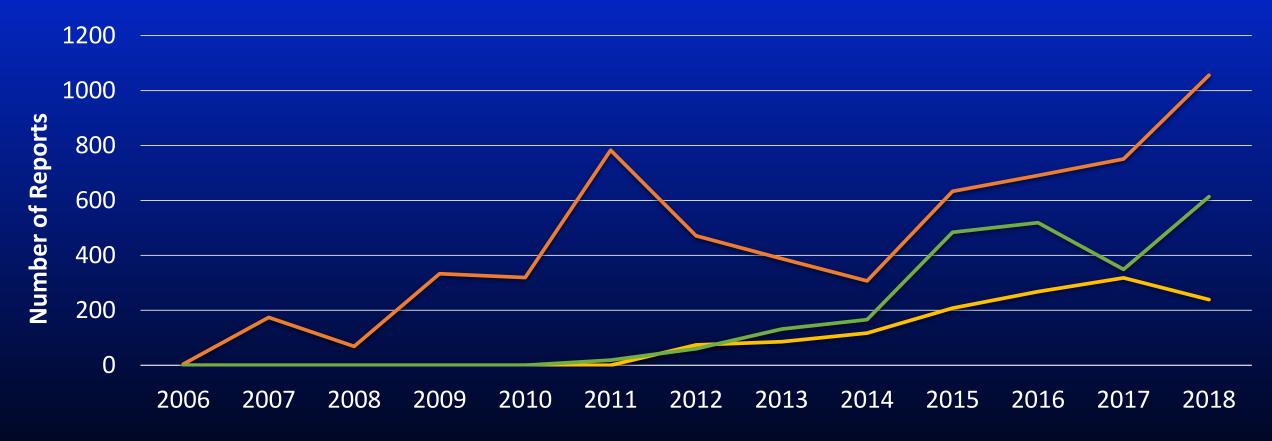








Reviewed data in Florida by year by source

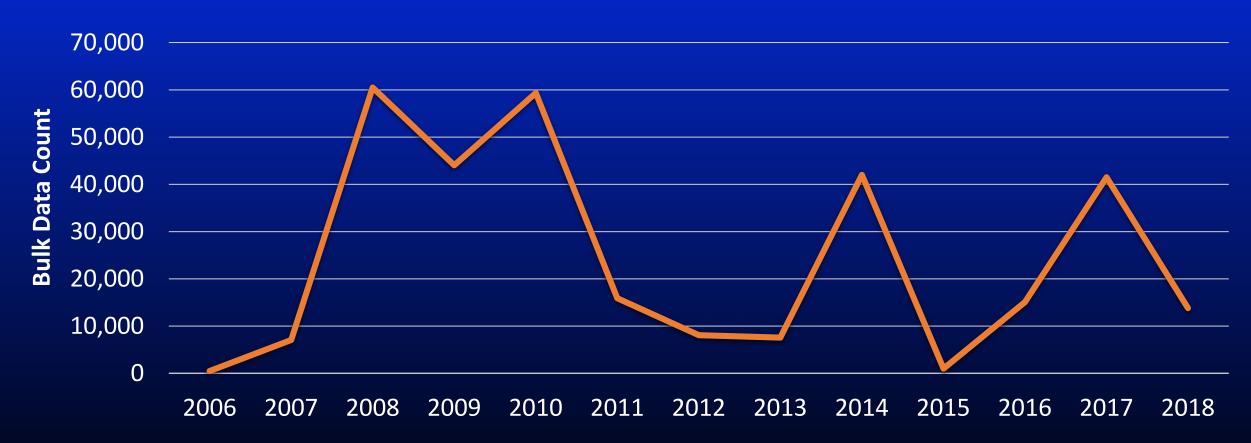








Reviewed bulk data in Florida by year



Record Count







REPORT

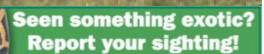
LIZARDS PYTHONS CHAMELEONS FISH











- 1. Take a picture
- 2. Note the location
- 3. Report your sighting

By phone: 888-lve-Got1 (888-483-4681) Online: lveGot1.org or download the IveGot1 reporting app.

Knowing the distribution of nonnative species in Florida helps wildlife biologists plan more effective management strategies.

MyFWC.com/Nonnative







Anaconda found swimming St. Johns **River in North Florida**

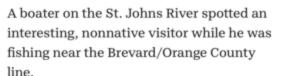
10 NEWS STAFF | WTSP | 12:08 pm EST December 2, 2015











He quickly called The FWC and officers responded to to retrieve the 9+ foot green anaconda. Thanks to the quick reporting by the caller, the officers were able to euthanize the nonnative constrictor before it could escape into the water.

This incident shows how important it is to report sightings of nonnative wildlife including constrictor snakes like this one. If you see nonnative fish and wildlife please report them to our Invasive Species Hotline at 1-888-IveGot1 (1-888-483-4861), online at IVEGOT1.org or by using the free smart phone app IVEGOT1.

If you would like to provide hands-on help to combat nonnatives in Florida, register for the Python Challenge.

What's Next



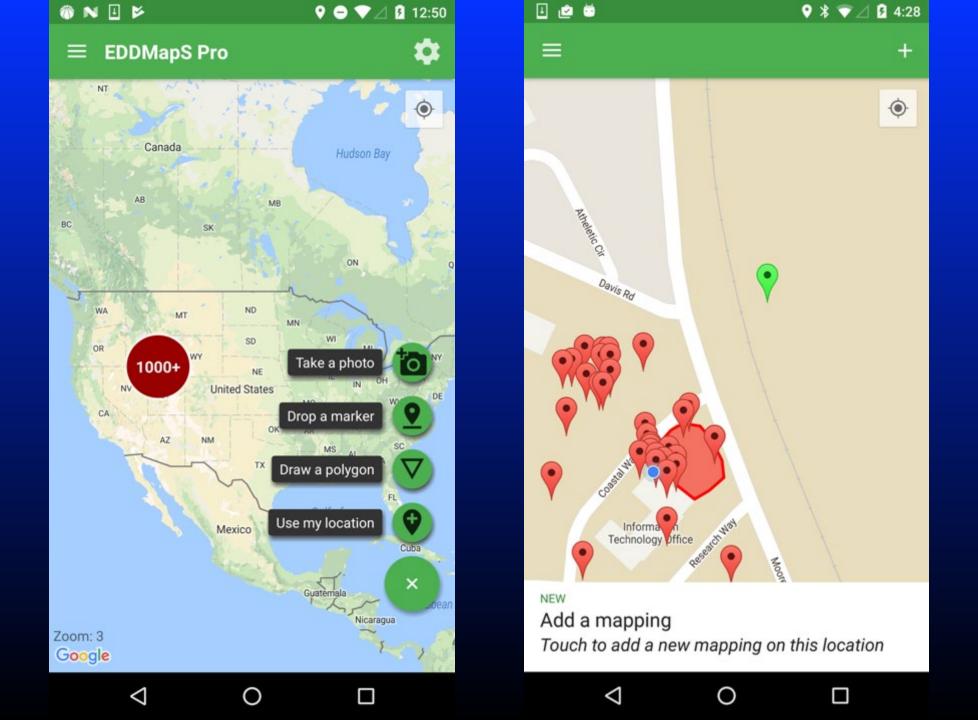


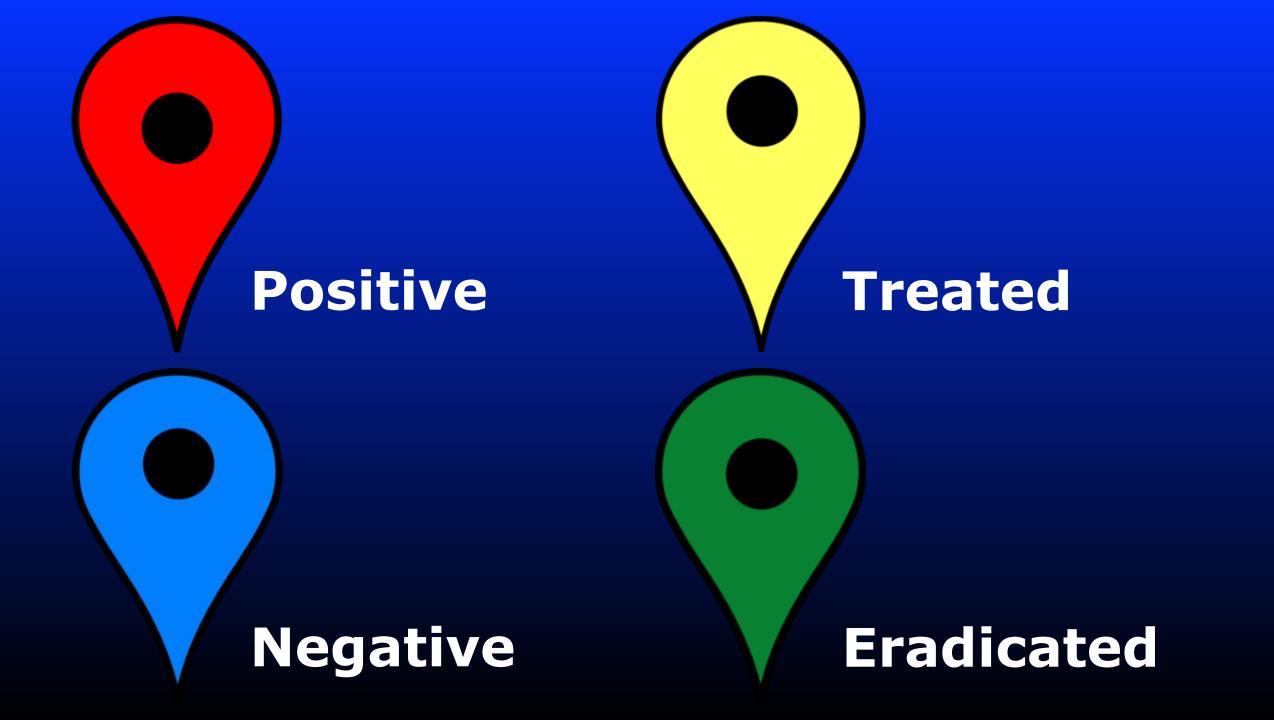
EDD Maps Pro



Center for Invasive Species and Ecosystem Health UNIVERSITY OF GEORGIA

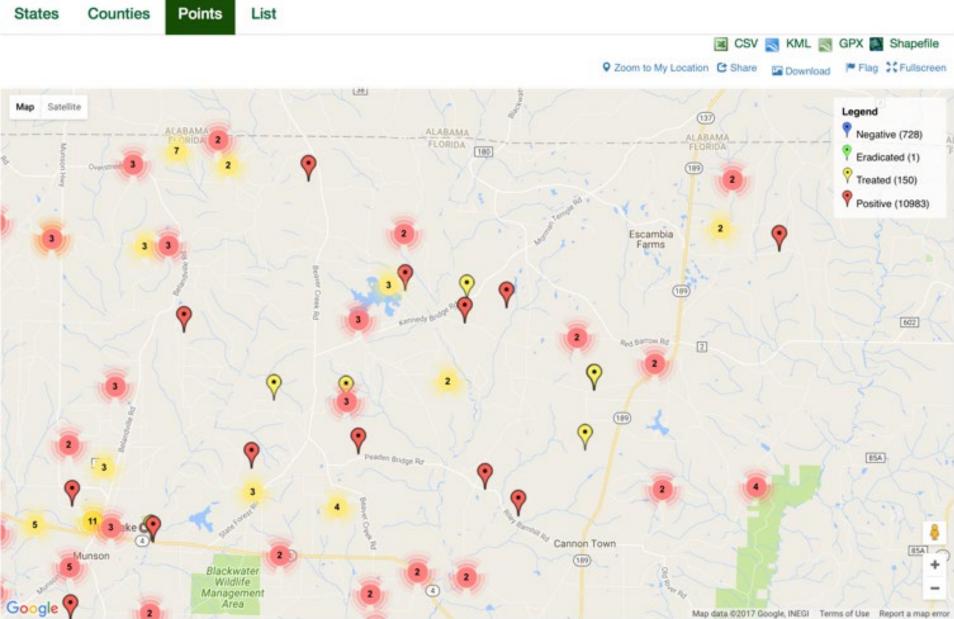






USDA PLANTS Symbol:LOJA Invasive Plant Atlas Species Information

Points





Mapping Invasives in America's Wild Places™



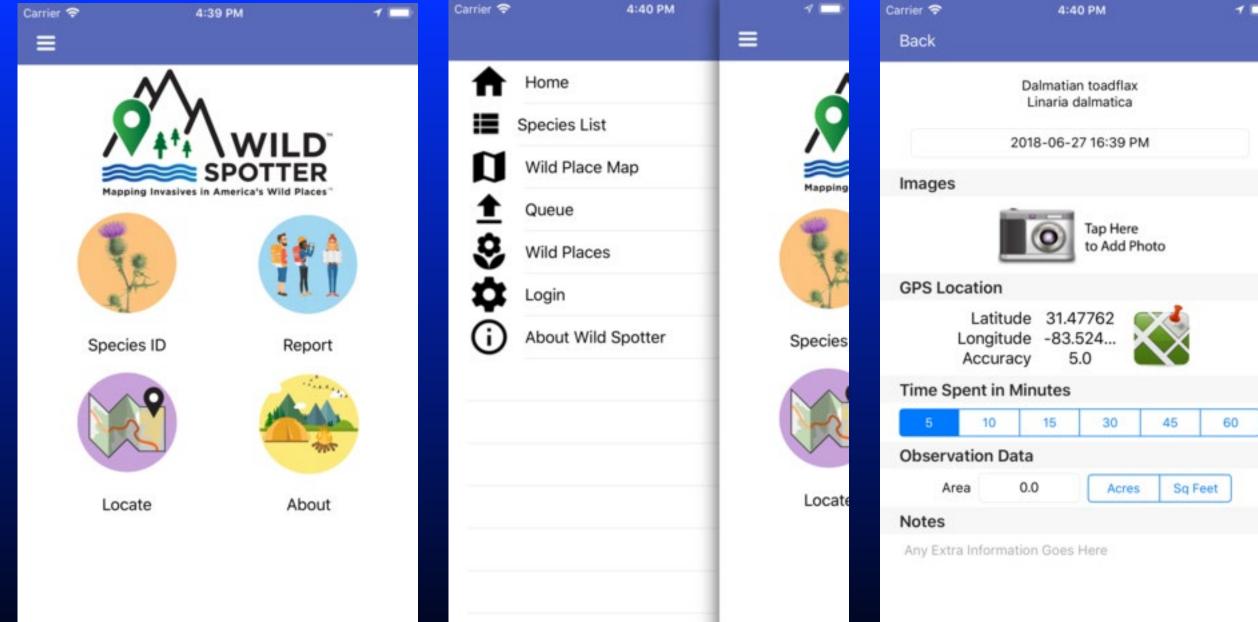




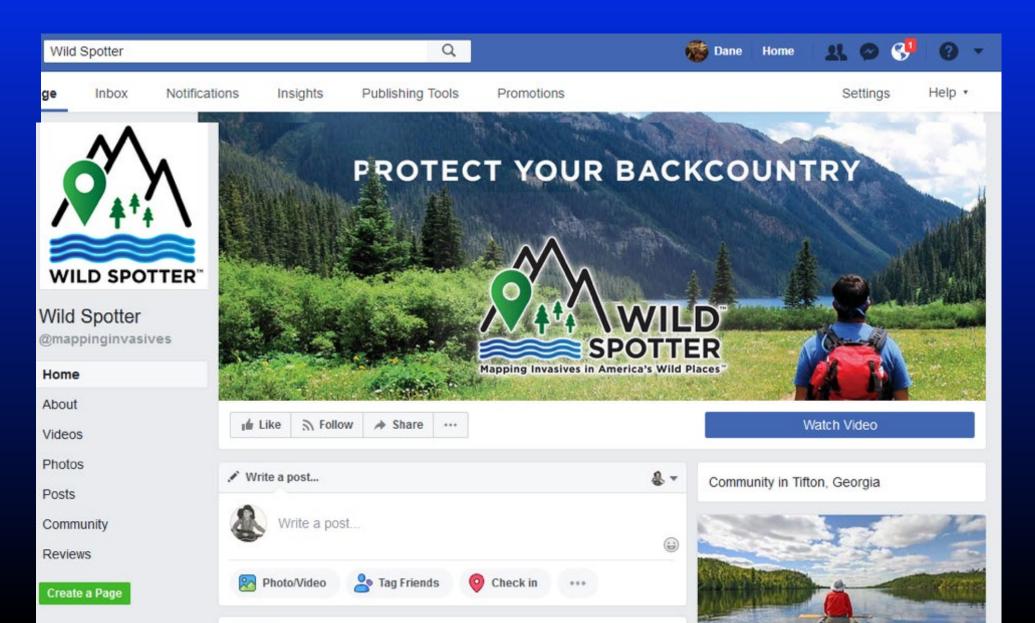








Facebook: Build Community

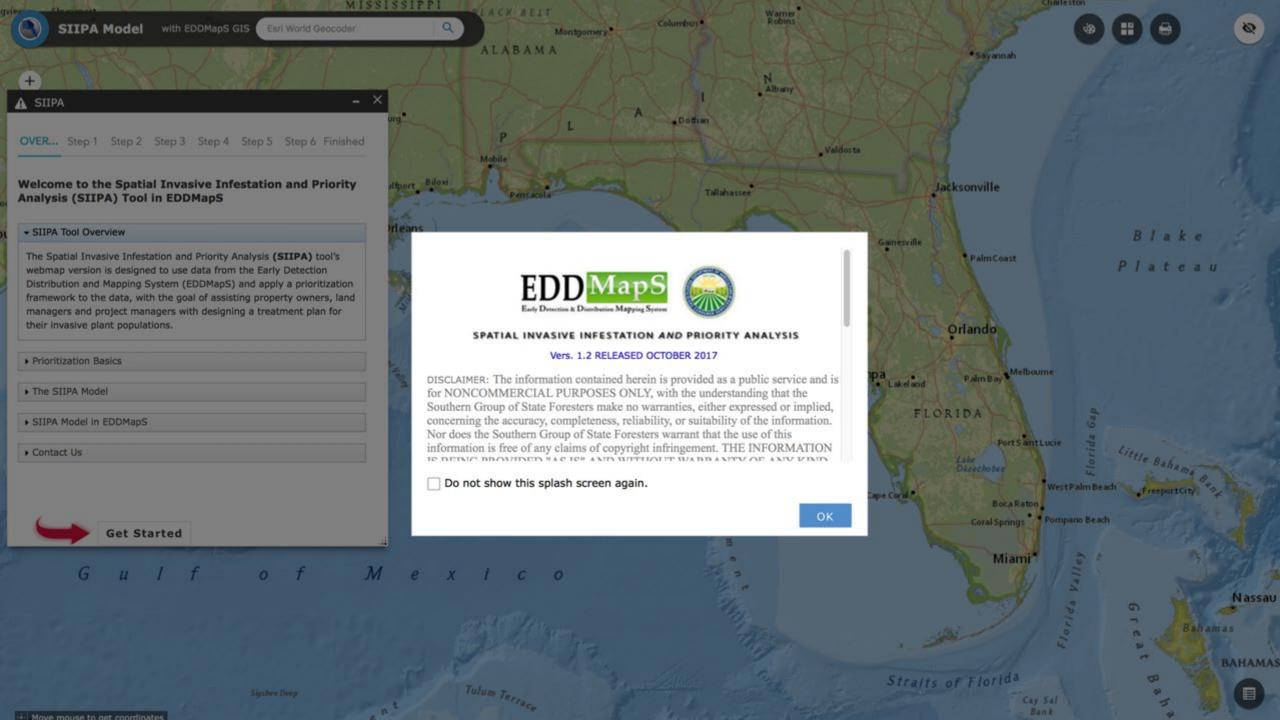


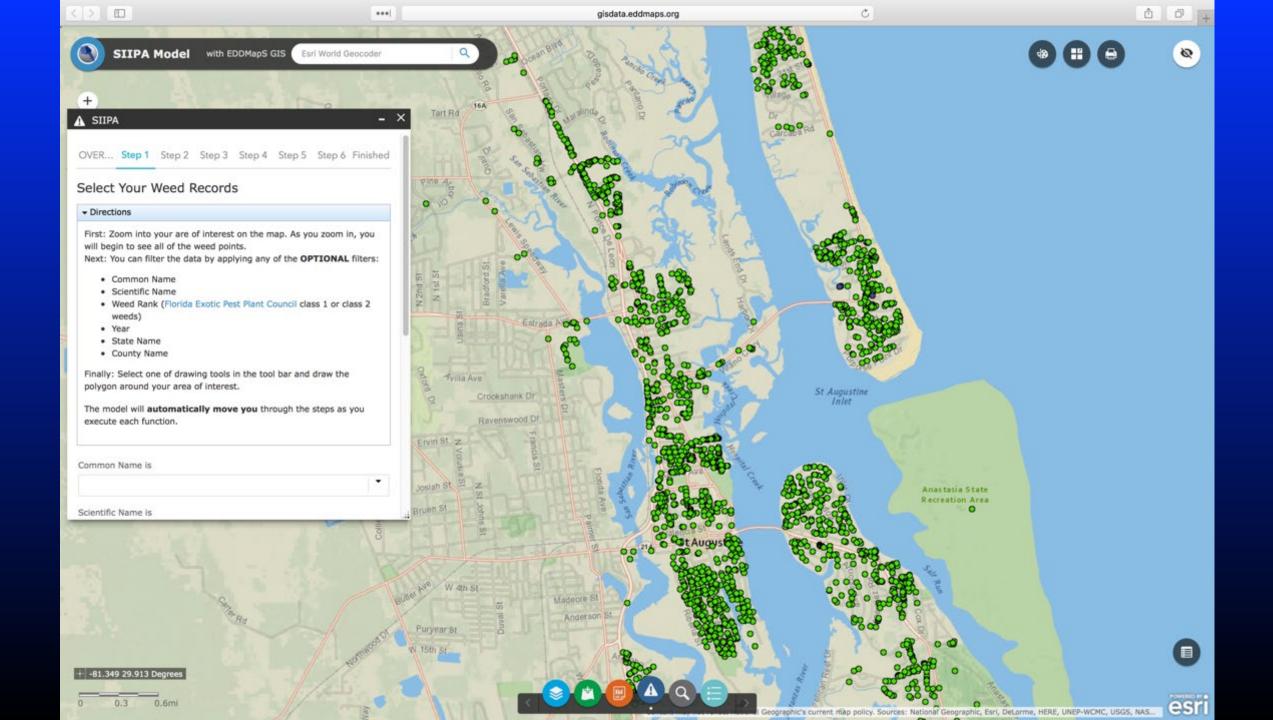
Pilot National Forests



Promotional Materials







EDDMapS 2019

- New responsive modern website design
- Unified branding
- Unified apps
- Annual training and feature release





Key Points

- Available Now!
- Fast and easy to use no knowledge of GIS
- Aggregate data (not replace) from other systems
- Working toward "complete" county level distribution
- Tool/platform to Facilitate Early Detection and Rapid Response implementation with online data entry forms, email alerts and network of expert verifiers





Key Points

- EDDMapS is a tool that can be used to enhance existing programs
- It is up and working now, and was built to be easily customizable
- Free to use, long term commitment from UGA to support as key product of Center
- Groups don't have to "buy" in and data is freely shared costs are for customizations, custom interfaces/apps





Key Points

- One important point to remember is that the public needs something as easy as possible, thus integrating regulated pests with non regulatory plants make sense (IveGot1 model)
- However, we must all work together to make this happen and provide feedback to user when they report something



Talking Points

- How can this help your programs?
- What features are coming?
- What features are needed?
- How can this tool be used for professionals and citizen scientists?
- Where are we going to be in 5, 10, 20 years?

















Center for Invasive Species and Ecosystem Health UNIVERSITY OF GEORGIA



















Thanks

www.ivegot1.org www.eddmaps.org www.bugwood.org

cbargero@uga.edu



