

Citizen Science and IveGot1

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

WARNELL SCHOOL OF
FORESTRY AND NATURAL RESOURCES

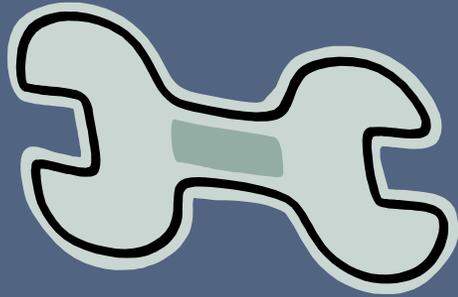
COLLEGE OF AGRICULTURAL
AND ENVIRONMENTAL SCIENCES



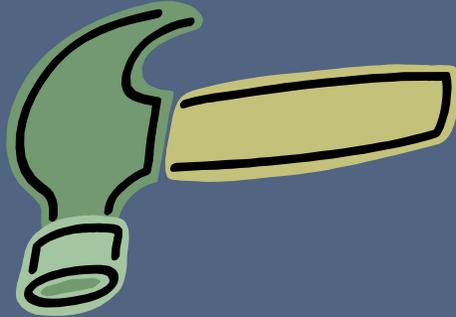
Bugwood? Center?

- Started 1994 / Bugwood Network until Feb. 2008
- Outreach/Extension Focused
- Land Grant University – 100% match/no profit
- Work across agency, organization, and discipline boundaries (landscape level)
- Provide easily accessible resources
 - Combine Science with Technology
 - Create freely available tools to help groups work together

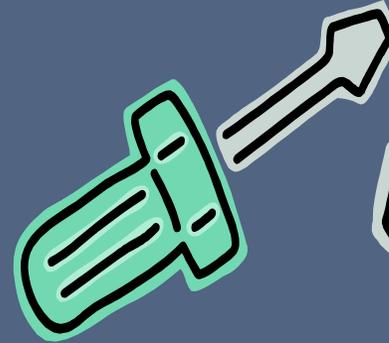
There is a tool for every job...



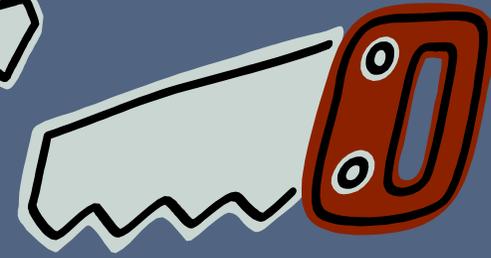
Early Detection



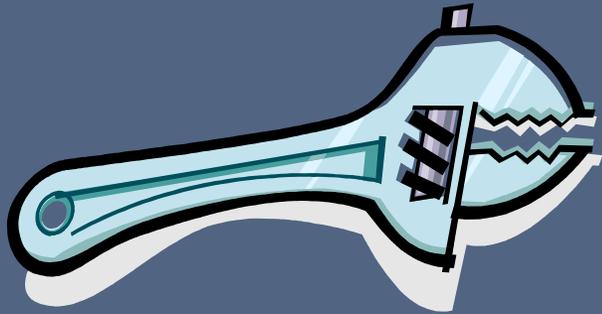
Verification



Alerts



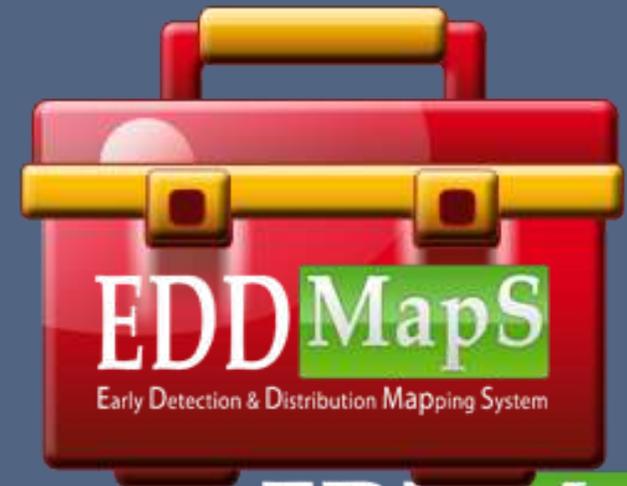
Visualization



Monitoring and Management

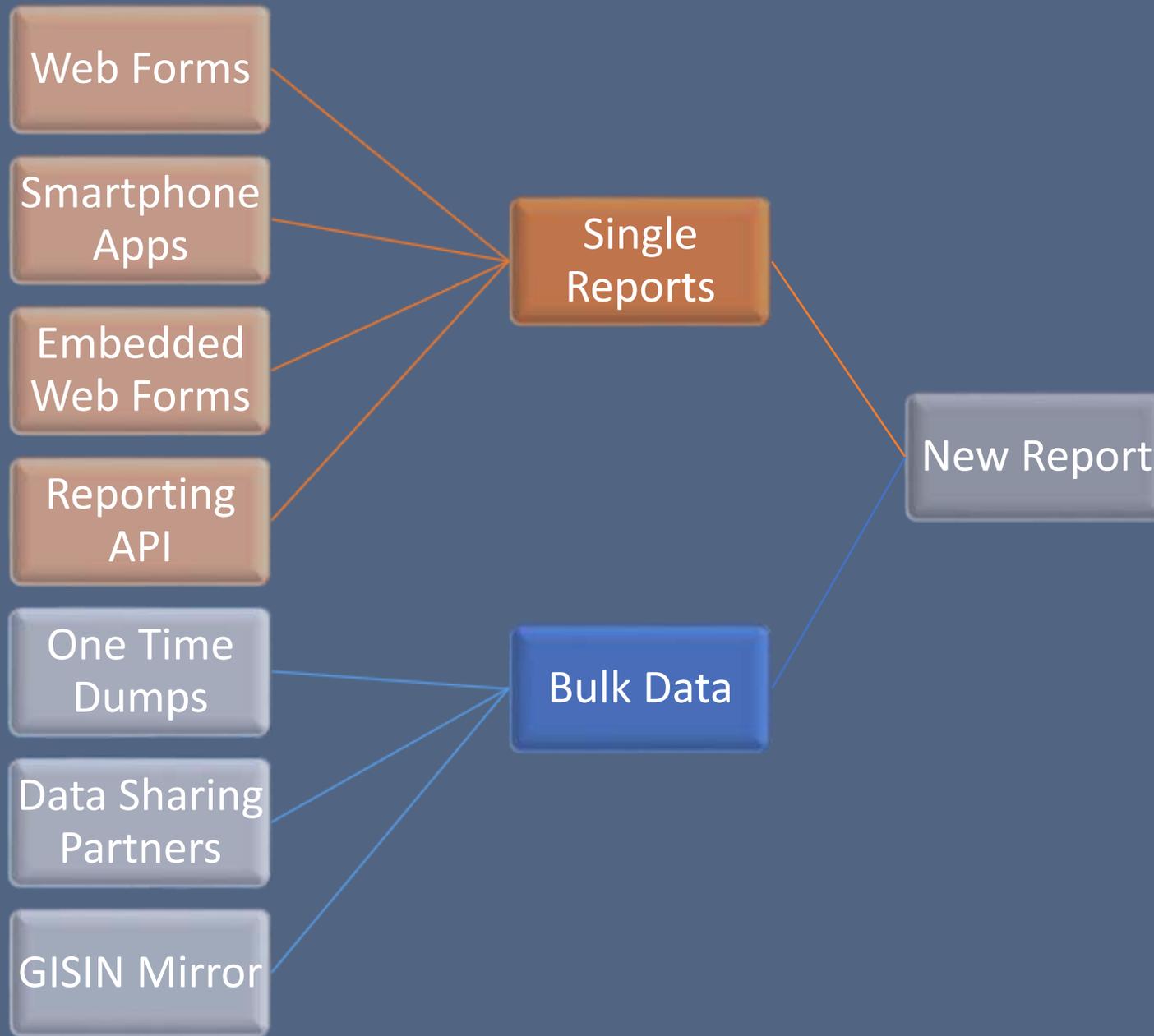


Data Sharing and Collaboration



Citizen Science - Quality and Quantity Data

- Training and resources improve data quality
 - In-person training, text/images, video for identification
 - Training provides collection standardization – fewer errors in data
 - Perform as well as professionals in some data collecting areas after training
- Citizen science data fills gaps left by researchers and professionals



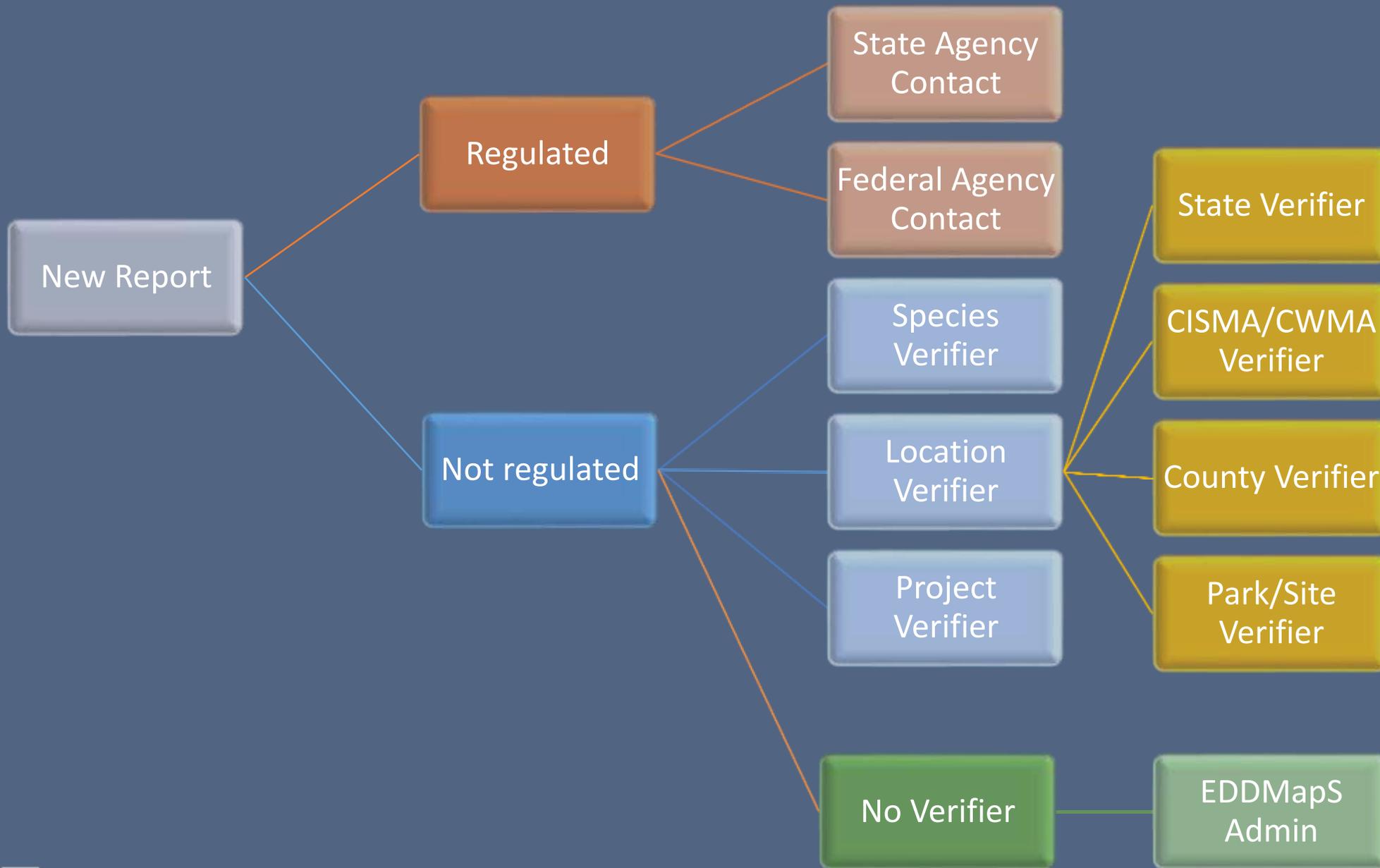
EDDMapS Data Recruiting

Bulk Data

- USDA NRCS Plants Database
- Biota of North America Program
- USFS Forest Inventory Analysis
- Florida Natural Areas Inventory Database
- Minnesota DNR
- SEWISC
- Alaska Natural Heritage Program
- Idaho Department of Agriculture

Individual Reports

- Homeowners/Landowners
- “Friends Of...”
- Volunteer Service Days
- Recreationalists
 - Hikers
 - Campers
 - Geocachers



EDDMapS Report Verifier Lookup

Subject:

Burmese python (*Python molurus* ssp. *bivittatus*)



Subject: Burmese python (*Python molurus* ssp. *bivittatus*)

Location: Palm Beach County, Florida (26.71375, -80.50977)

Is the subject in the regulated species list?

- No

Has the subject been previously reported

- in Florida? Yes
- in Palm Beach County? Yes

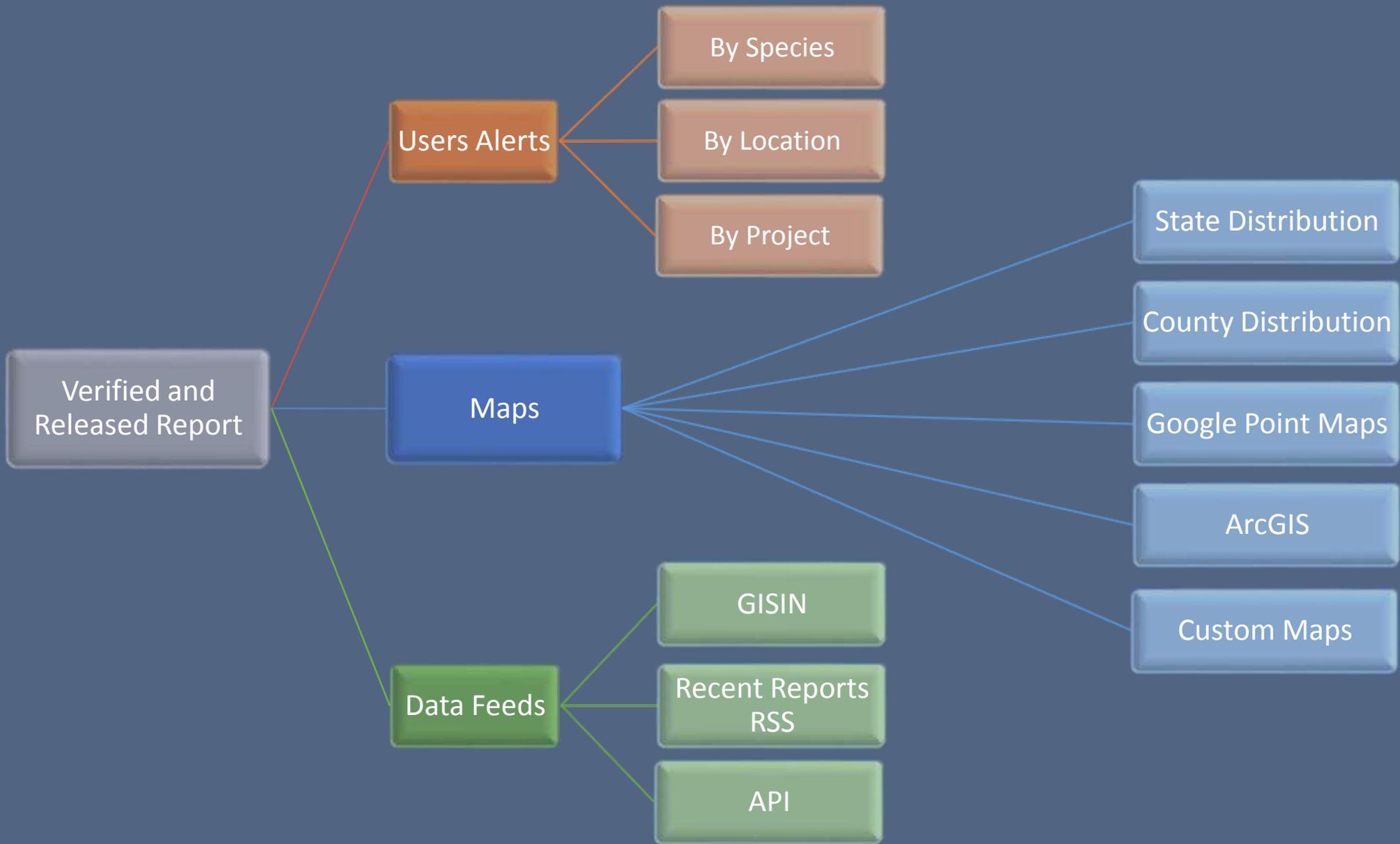
What apps/projects currently support reporting it?

- EDDMapS
- US Army Corps of Engineers Invasive Species

What Invasive Species Lists is it on?

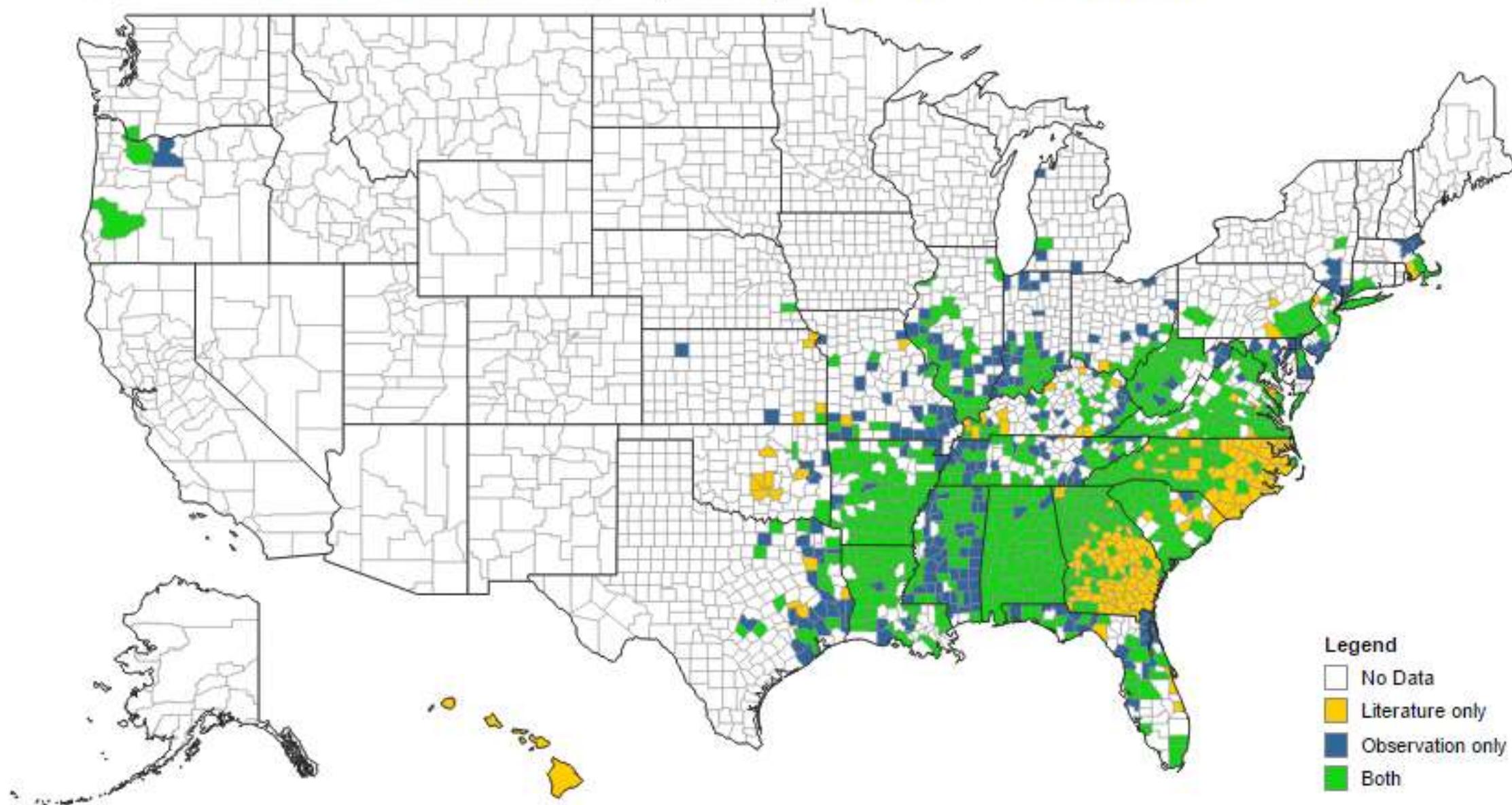
- Everglades Cooperative Invasive Species Management Area
- Florida Invasive Species Partnership
- Invasive Species of Concern in Georgia
- Nonnative Invasive Species in Southern Forest and Grassland Ecosystems
- Southwest Florida Cooperative Invasive Species Mgmt. Area
- Treasure Coast Cooperative Invasive Species Mgmt. Area - EARLY DRAFT

- Evan Freeman, FWC
- Eric LeVeon, FDACS-Plant Industry
- Daniel Quinn, Florida FWC



kudzu

Pueraria montana var. *lobata* (Willd.) Maesen & S. Almeida



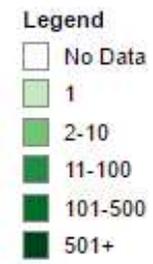
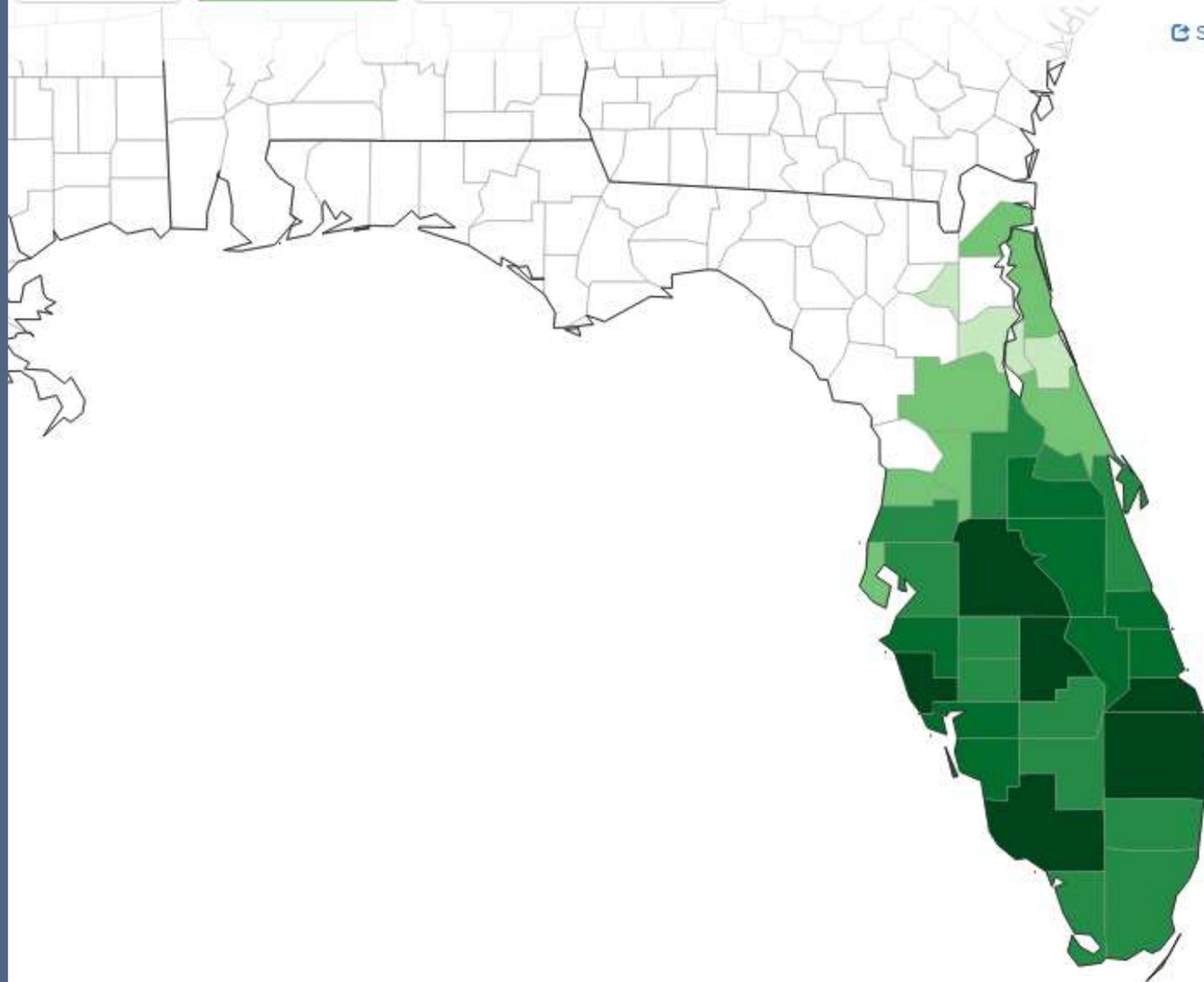
old world climbing fern

Lygodium microphyllum (Cav.) R. Br.

[Distribution](#) **Record Density** [Literature vs Observation](#)

[CSV](#) [KML](#) [GPX](#) [Shapefile](#)

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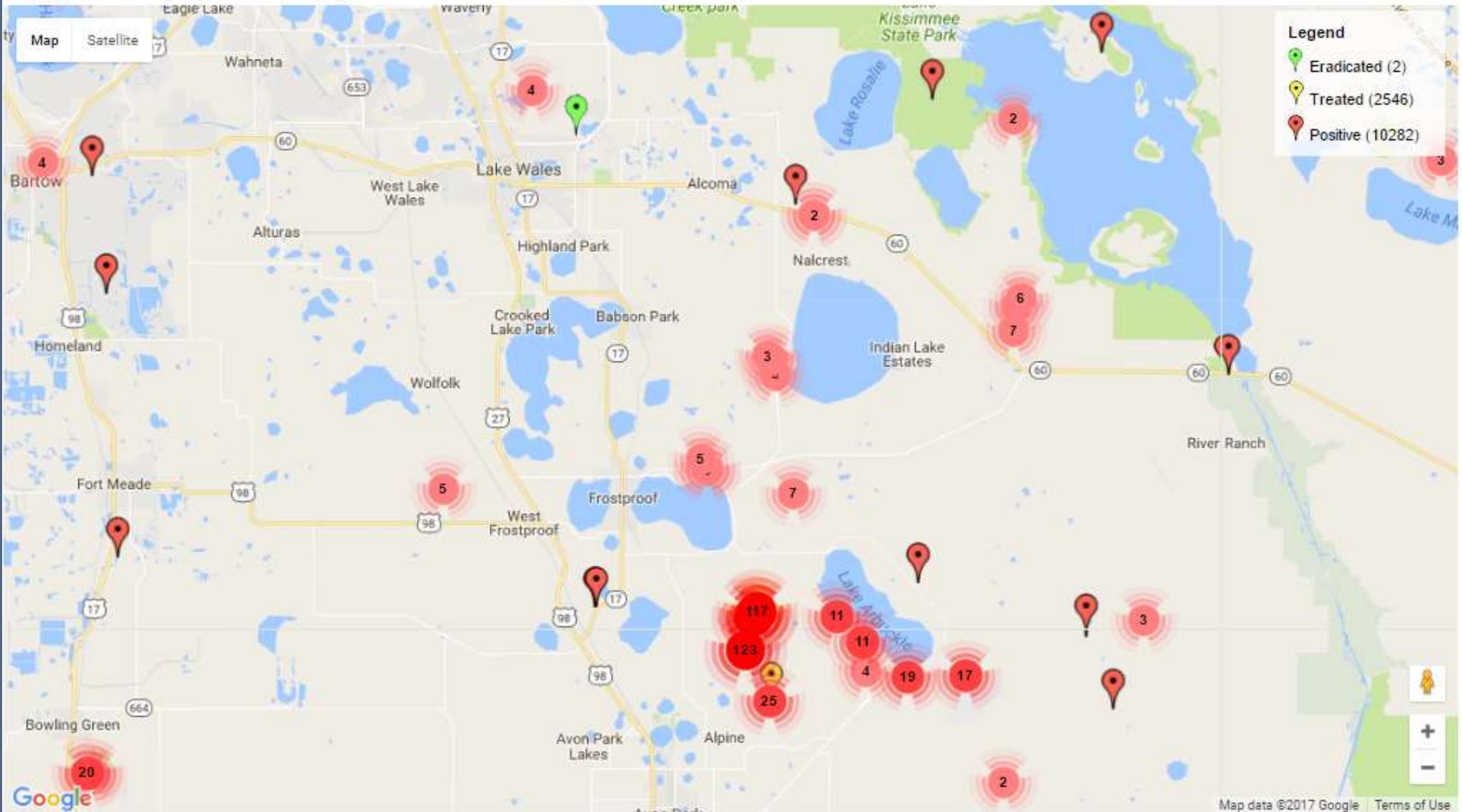


Japanese climbing fern

Lygodium japonicum (Thunb. ex Murr.) Sw.

CSV KML GPX Shapefile

Zoom to My Location Share Download Flag Fullscreen



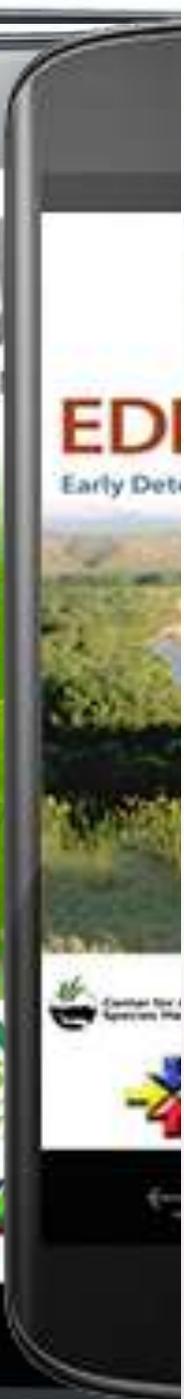
Statistics for EDDMapS

September 2010

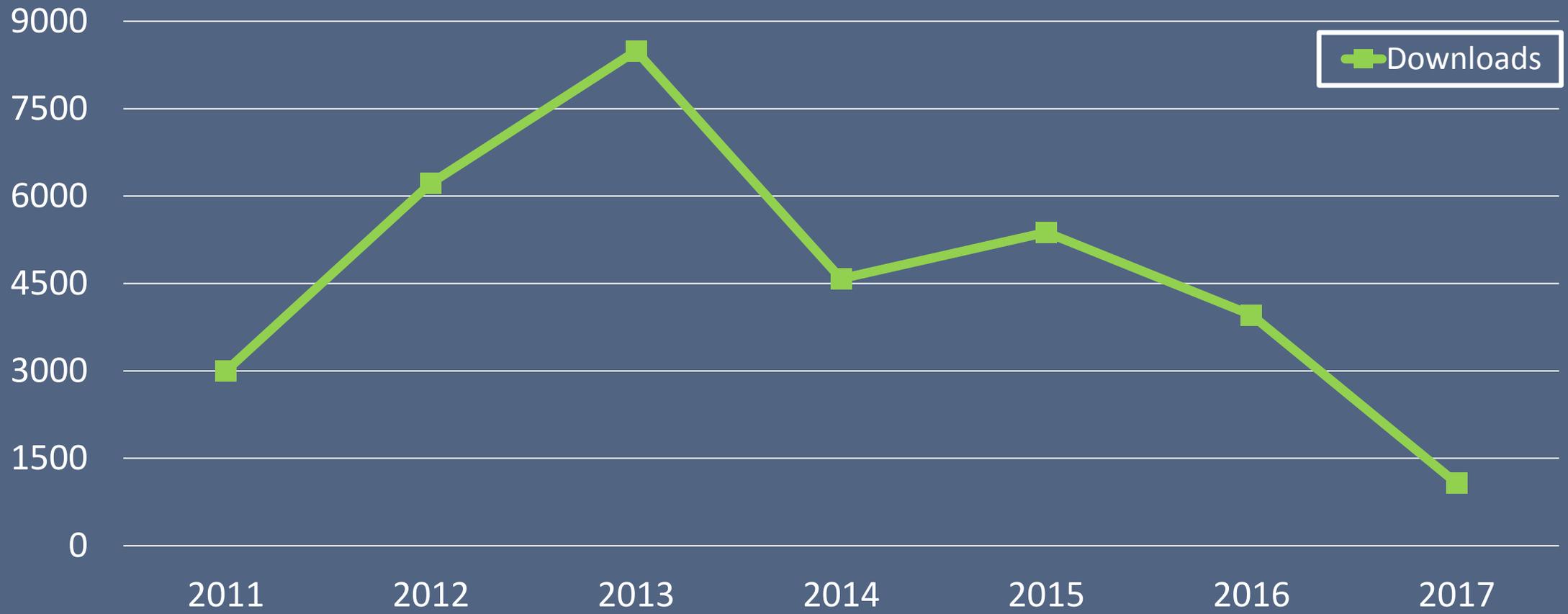
- 1,052,743 records
 - incl. 353,393 point records
- 1,748 species
 - 1,488 plants
 - 259 animals (FL only)
- 506 users (1556 registered)

April 2017

- 3,105,693 records
 - incl. 2,023,239 point records
- 5,176 species (4,138 plants)
- 12,932 users (38,502 registered)
- 1 million visitors viewing 7.8 million pages



IveGot1 Application



IveGot1 App Statistics



29,767 downloads

4,740 downloads

78,369 updates

7,657 updates

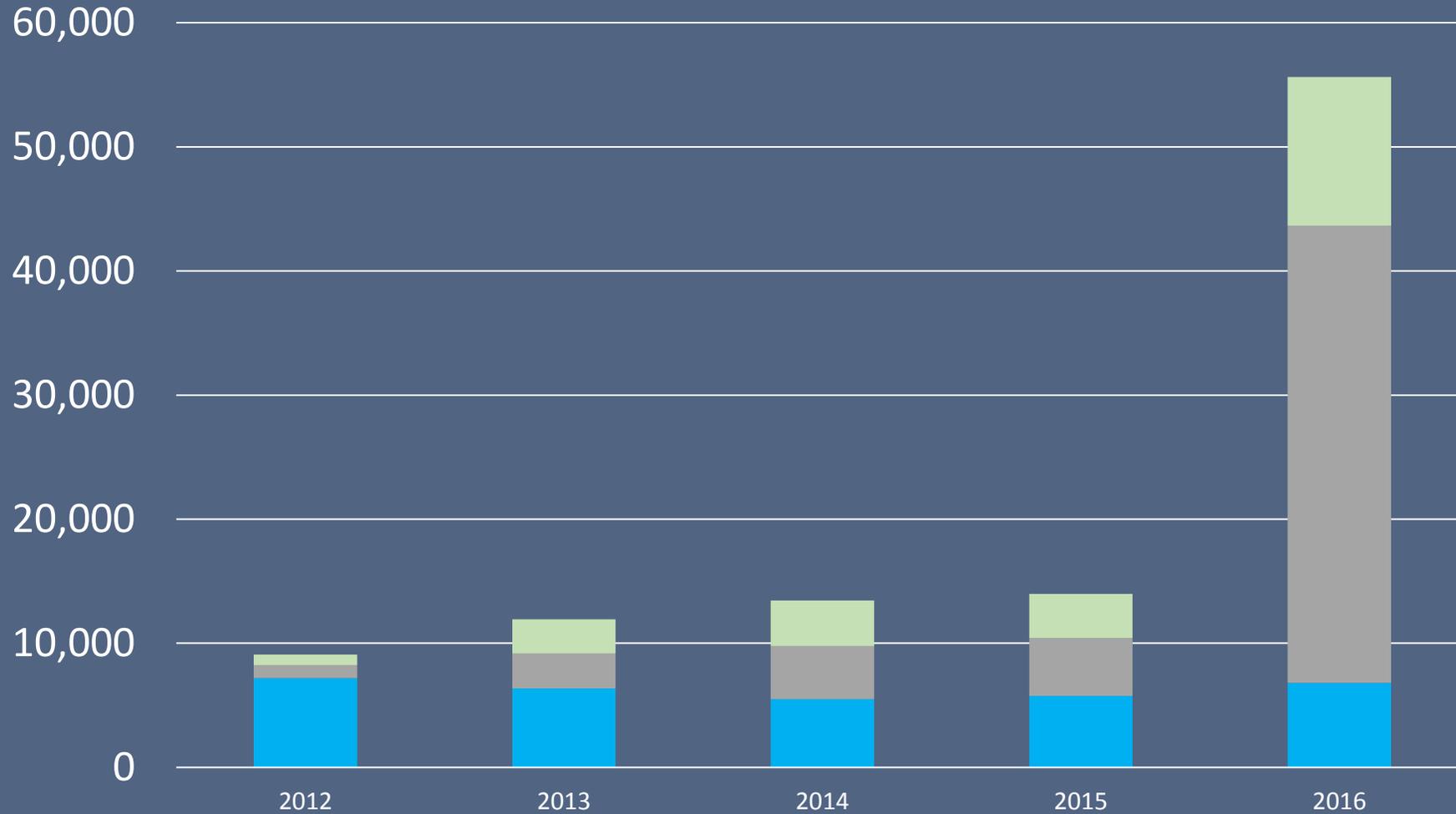
1780 reports

1031 reports

800 reports in 2016

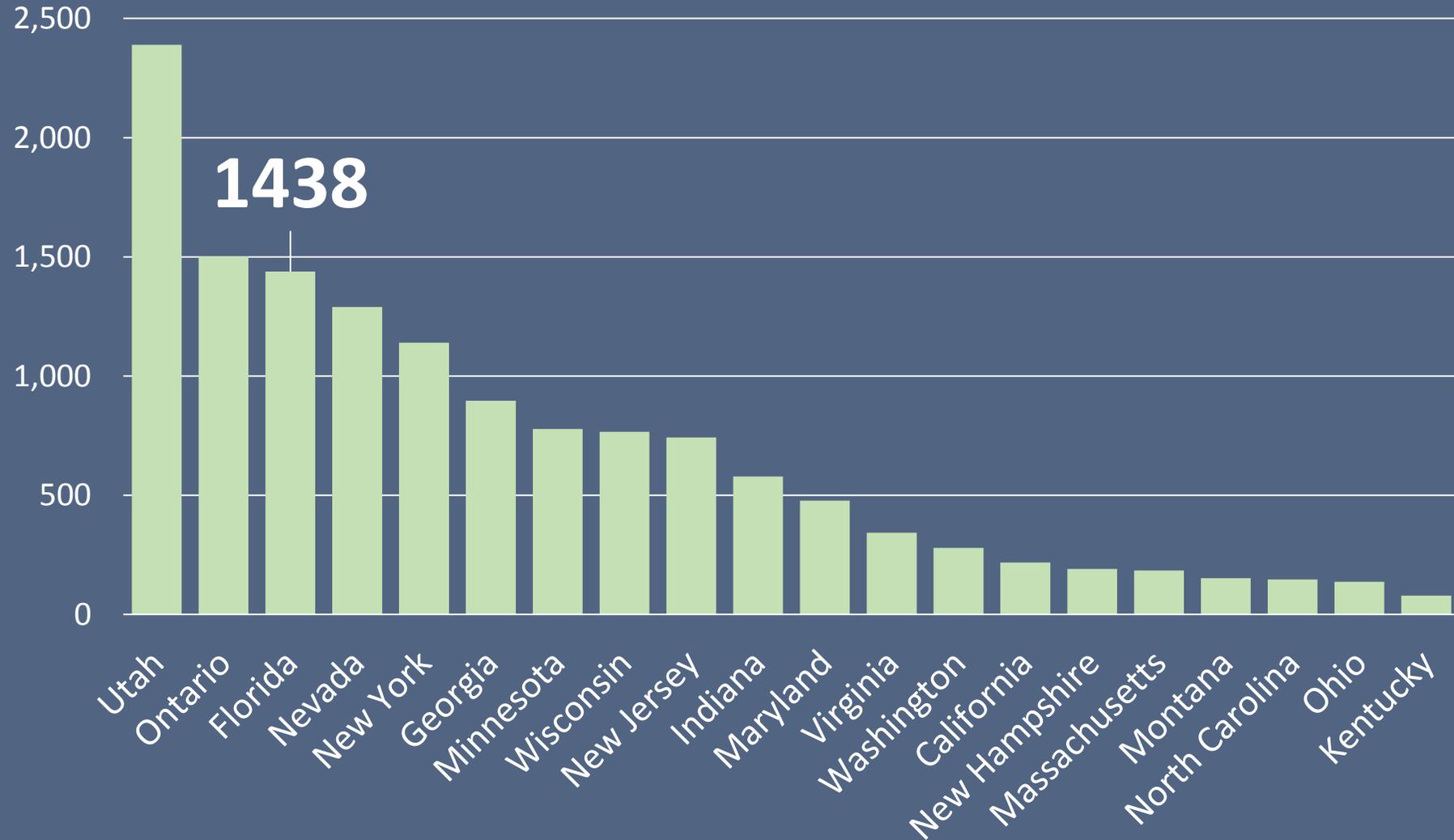
426 reports in 2016

Observations sent to EDDMapS by year

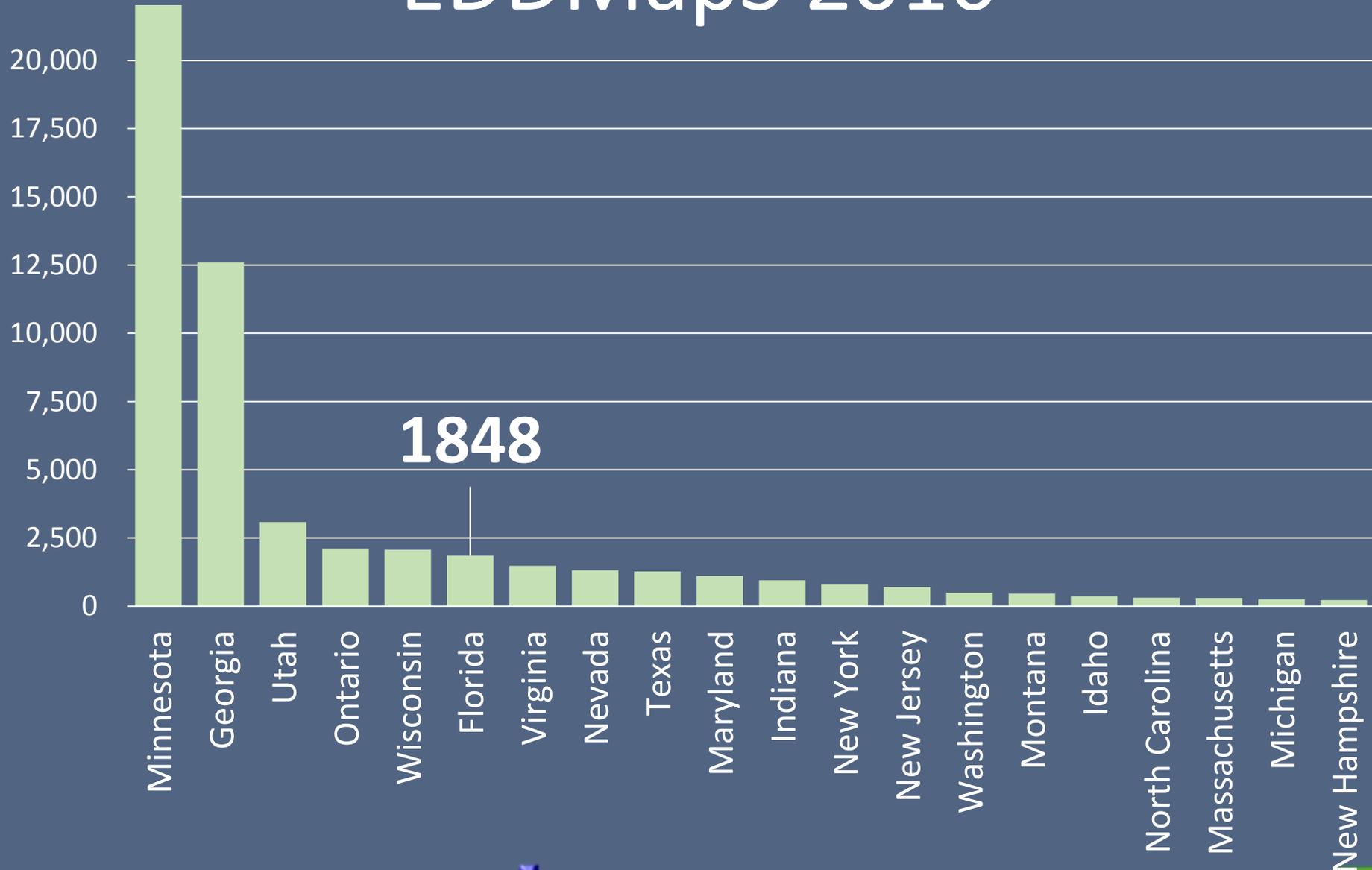


■ Web ■ iOS ■ Android

EDDMapS 2015



EDDMapS 2016





REPORT INVASIVE SPECIES



LIZARDS PYTHONS CHAMELEONS FISH

IveGot1.org

1-888-Ive-Got-1



Seen something exotic?
Report your sighting!

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

By phone: 888-Ive-Got1 (888-483-4681) Online: IveGot1.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/Nonnatives



REPORT INVASIVE SPECIES
www.IveGot1.org



Citizen Science and Professional Users

- EDDMapS aggregates data from other invasive species mapping projects across North America with 2.875 million records coming in as “bulk data”
- However, 121,046 records have been entered via web or smartphone.
 - 98% of reporters have <1000 reports
 - 94% of reporters have <100 reports