

Apps in Invasive Species Monitoring

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University of Georgia

Center for Invasive Species and Ecosystem Health





Report an Invasive Plant Occurrence

Species

Pest:

Infestation

Observation Date: (?)

Infested Area: Select One (?)

Gross Area: Select One (?)

Habitat: (?)

Canopy Closure: (?)

Abundance:

Plant Description: **Mature** Sapling/Immature Seedling/Rosette In Flower In Fruit Seeds Dormant/Dead Unknown

Location

State:

County:

Location Description:

Latitude:
Must be expressed in Decimal Degrees (XX.XXXX) and DATUM NAD83/WGS84.

Longitude:
Must be expressed in Decimal Degrees (XX.XXXX) and DATUM NAD83/WGS84.

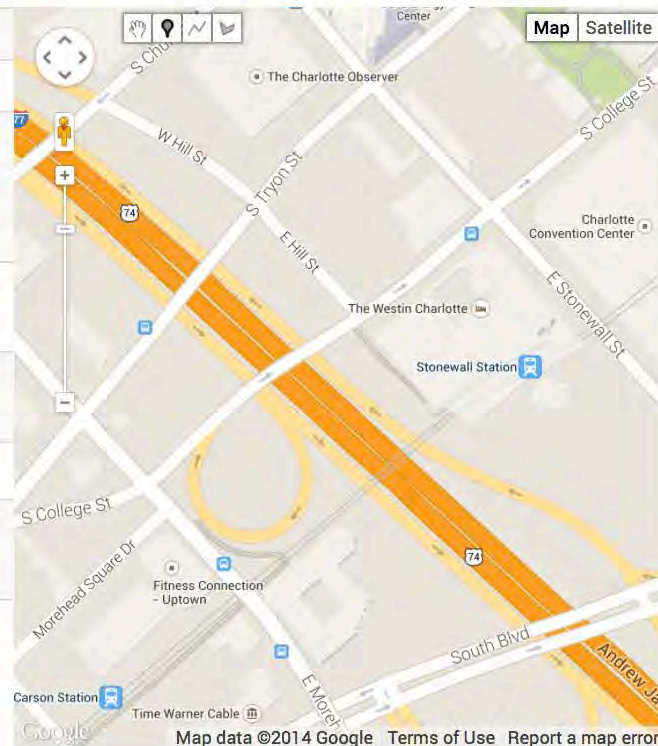
[place marker at latitude and longitude](#)

[clear map](#)

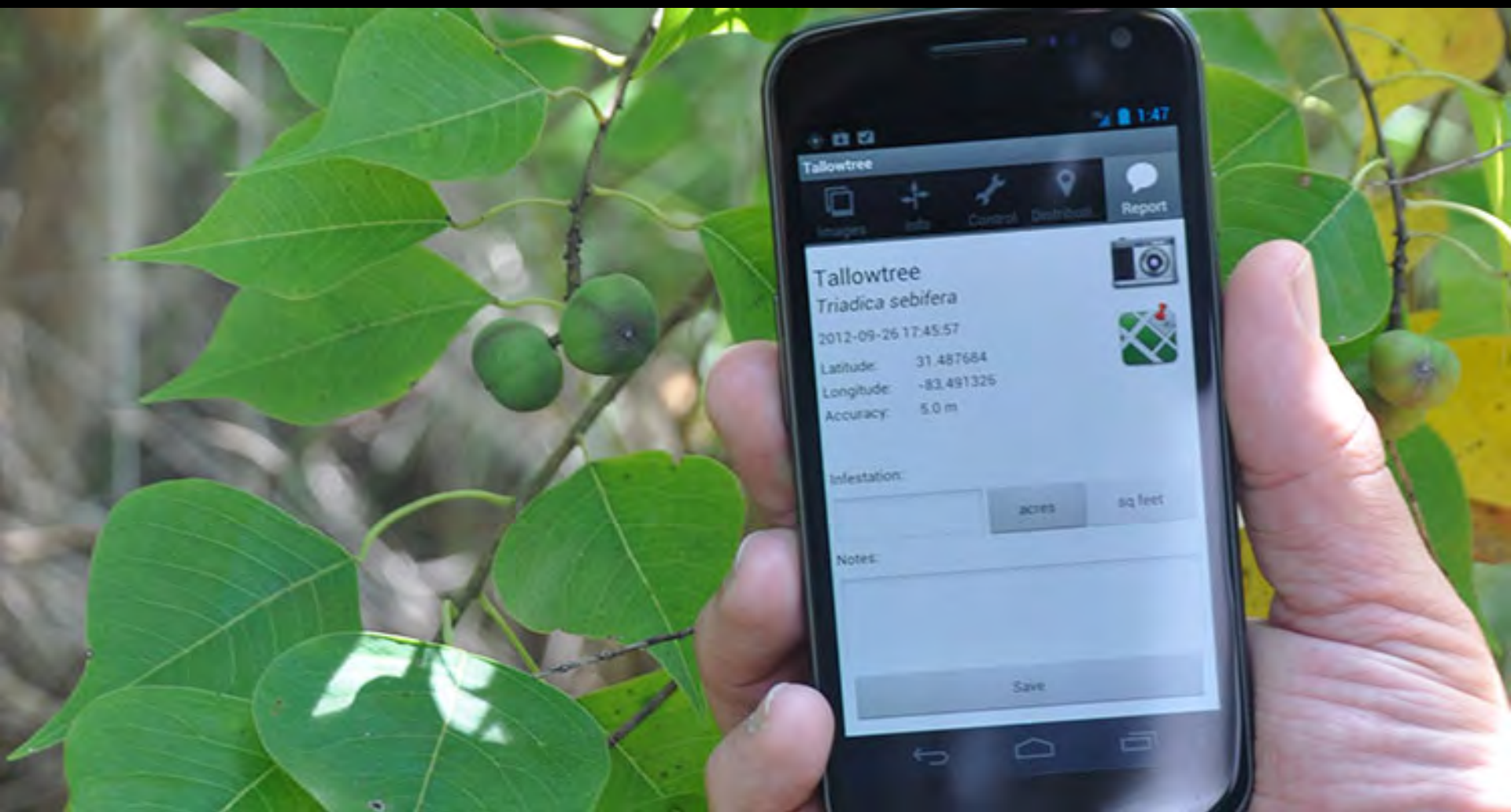
Ownership:

* If reporting infestation on private land, be sure to have landowner's permission.

[Lat/Long Conversion Tools](#)

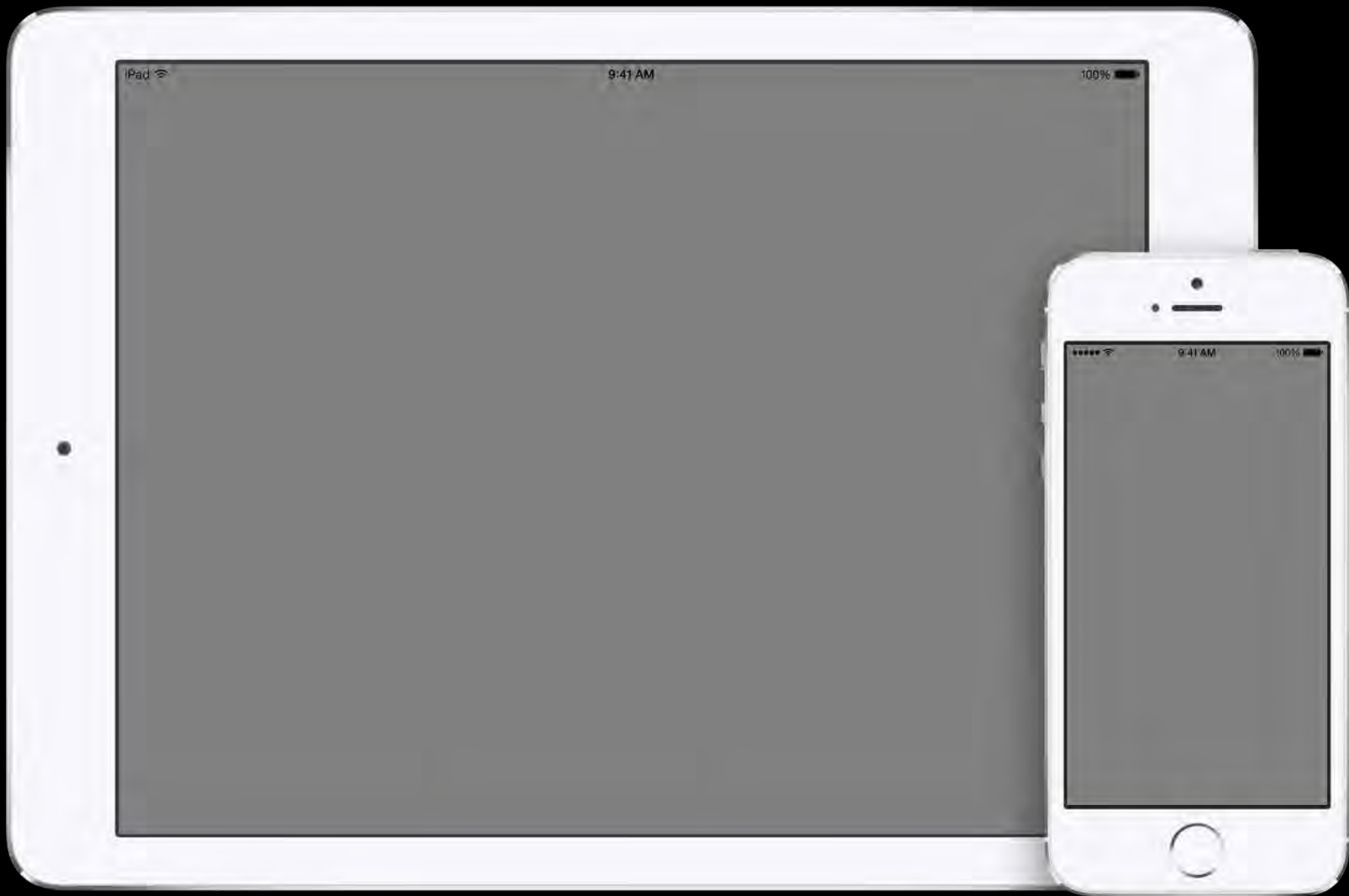


Images











Download on the
App Store

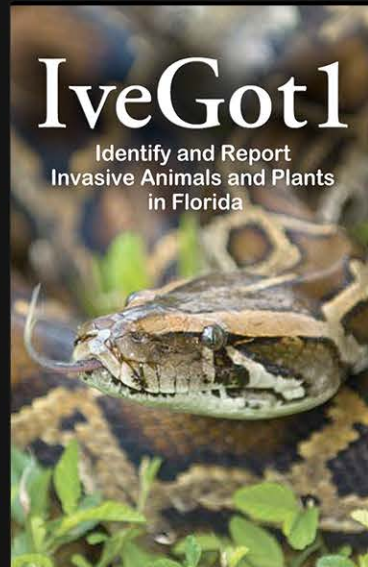


ANDROID APP ON

Google™ play

IveGot1

Identify and Report
Invasive Animals and Plants
in Florida



THE UNIVERSITY OF FLORIDA
CENTER FOR INVASIVE SPECIES
ECOSYSTEM HEALTH
EDDMapS
Early Detection & Distribution Mapping System



UNIVERSITY OF
FLORIDA
IFAS Extension
Center for Invasive
and Exotic Species









AT&T LTE

3:25 PM

80%



Scout



StinkbugID



GA Cotbug



VegDr



GL Veg



Phone



Mail

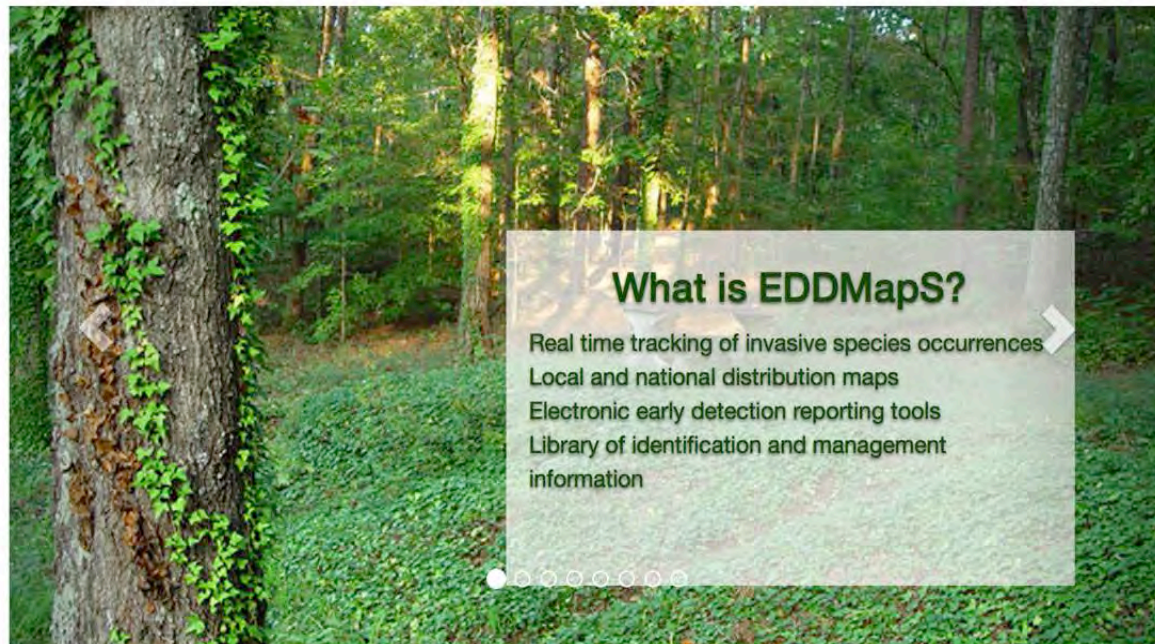


Safari



Music





What is EDDMapS?

Real time tracking of invasive species occurrences
Local and national distribution maps
Electronic early detection reporting tools
Library of identification and management information

Projects

- ✓ Southeast Early Detection Network
- ✓ EDDMapS West
- ✓ Mid-Atlantic Early Detection Network
- ✓ Invasive Plant Atlas of New England
- ✓ Florida Invasive Species Partnership
- ✓ EDDMapS First Detector Programs
- ✓ EDDMapS Alberta - Alberta Invasive Plants Council
- ✓ EDDMapS Ontario
- ✓ EDDMapS Prairie Region - Manitoba and Saskatchewan
- ✓ Biological Control Agents of Weeds
- ✓ Invasive Plant Atlas of New England
- ✓ What's Invasive
- ✓ National Wildlife Refuge Early Detection Network for New England
- ✓ Appalachian Trail Conservancy
- ✓ Invaders of Texas
- ✓ Alaska Exotic Plant Information Clearinghouse
- ✓ New Invaders Watch Program
- ✓ Outsmart Invasive Species



BRING THE POWER OF EDDMAPS TO YOUR SMARTPHONE

Introducing BugwoodApps - comprehensive mobile applications that engage users with invasive species, forest health, natural resource and agricultural management

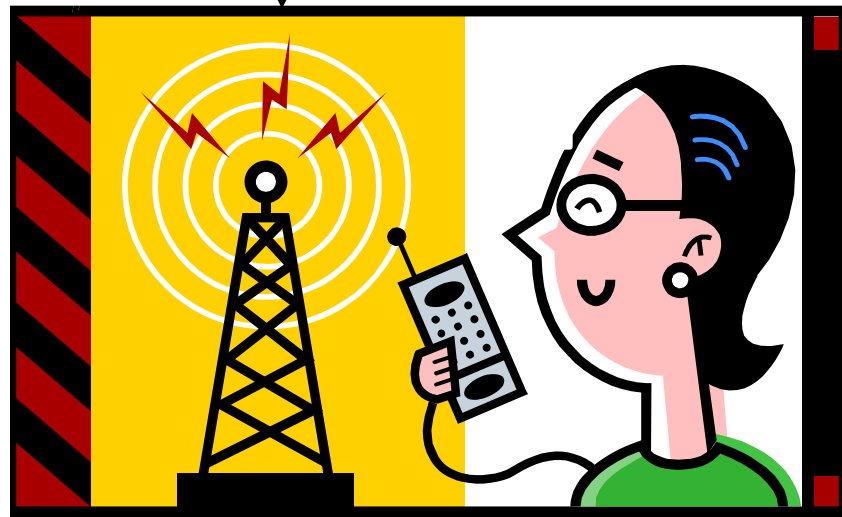
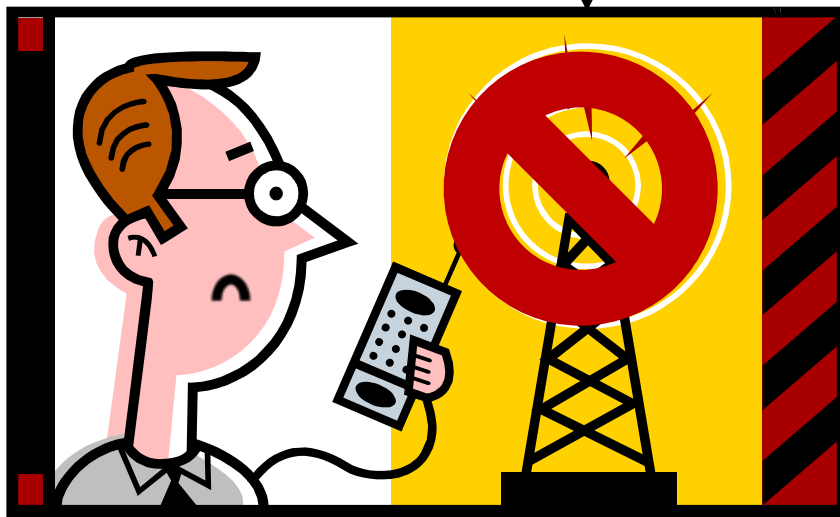
iPhone | iPad | Android

Statistics

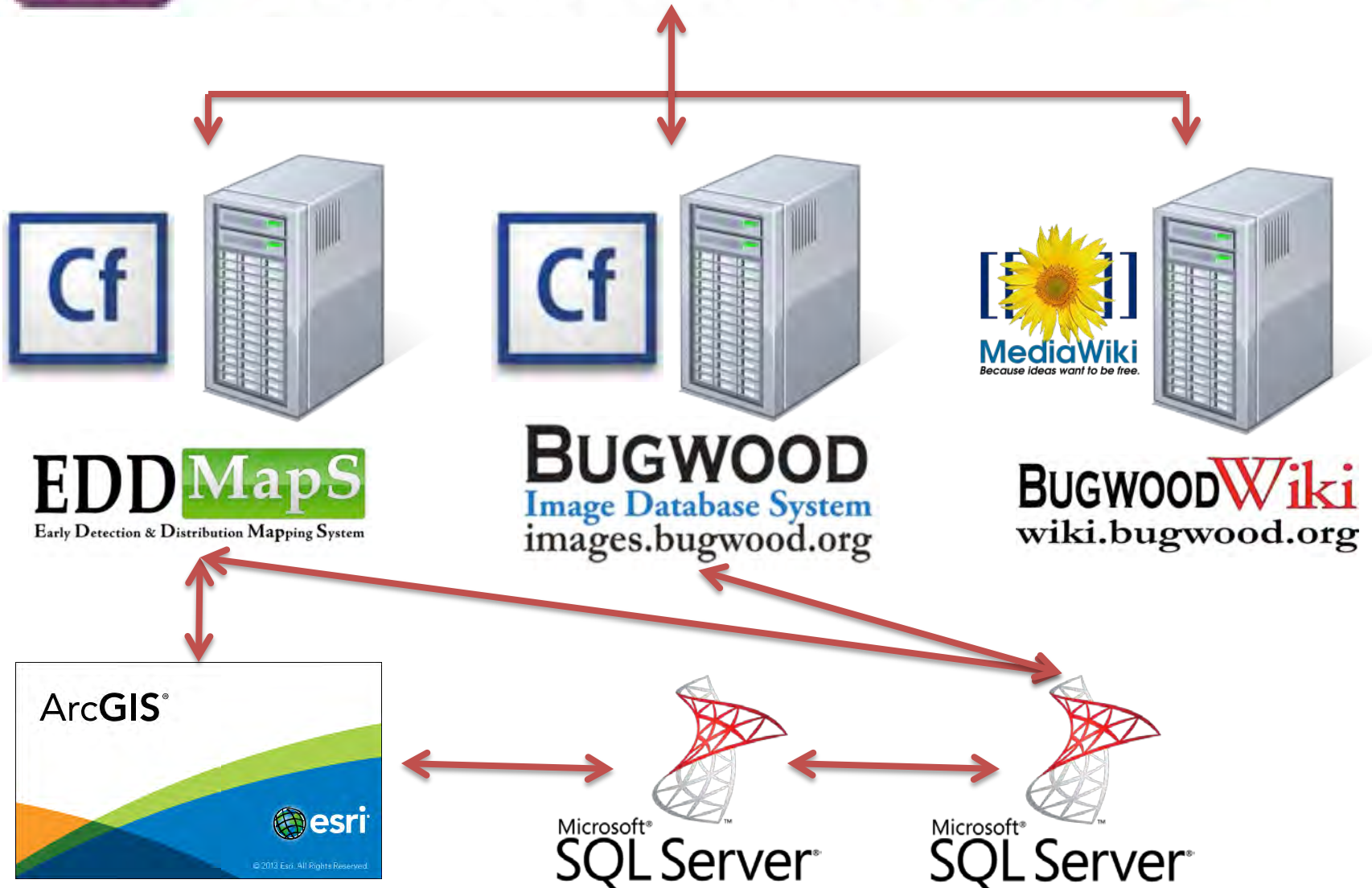
2,637,486 County Reports
1,696,387 Point Reports
4,582 Species / 22,702 Users

Report Images





BUGWOOD APPS



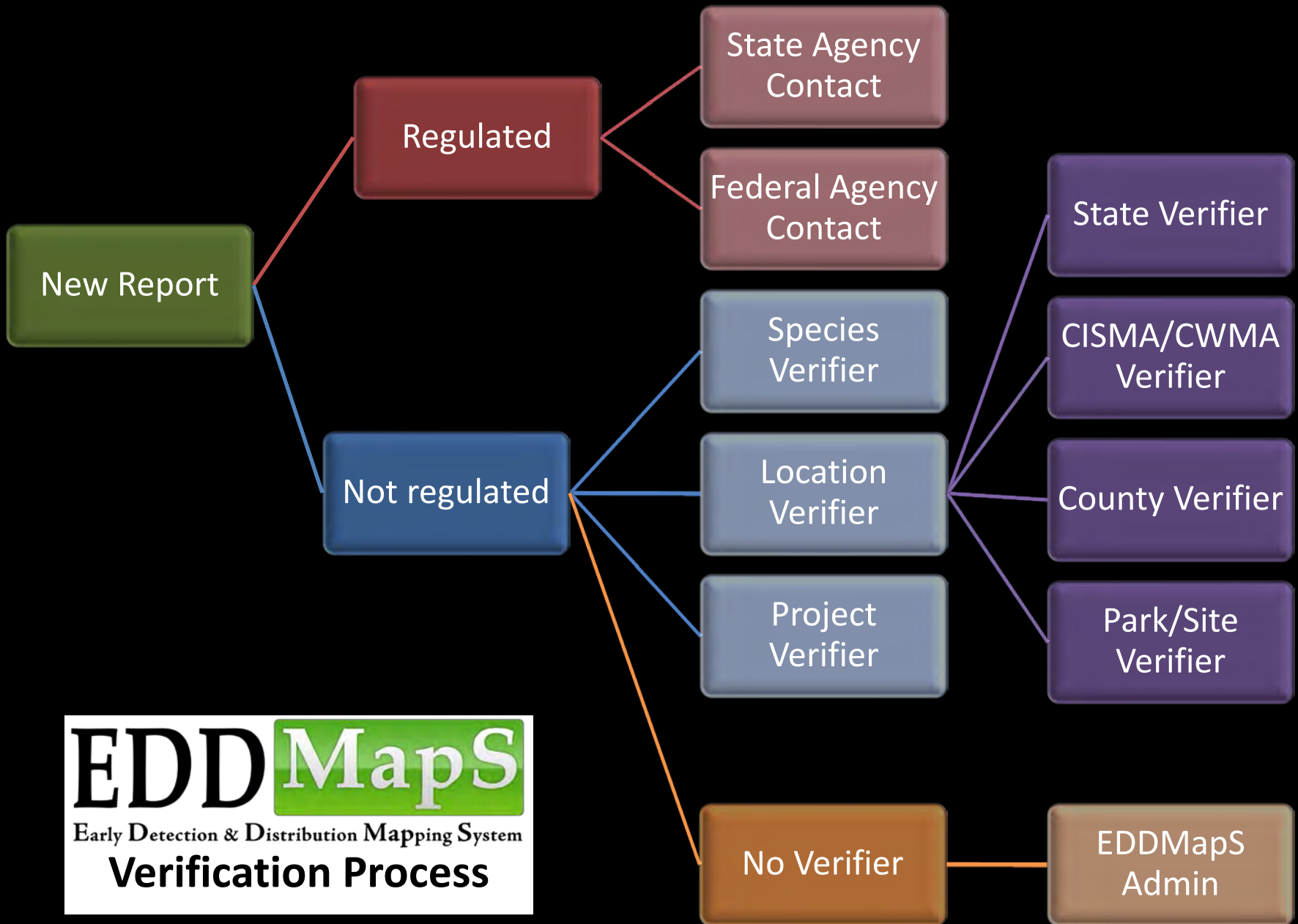


amazon
web services™



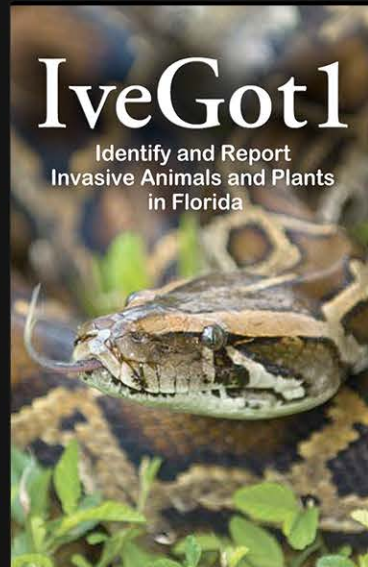






IveGot1

Identify and Report
Invasive Animals and Plants
in Florida



THE UNIVERSITY OF FLORIDA
CENTER FOR INVASIVE SPECIES
ECOSYSTEM HEALTH
Early Detection & Distribution Mapping System

EDDMapS



UF UNIVERSITY OF
FLORIDA
IFAS Extension
Center for Invasive
Species and Ecosystem Health

IveGot1



ANIMALS

PLANTS



ALL
SPECIES

An illustration of two snails. One is a large, dark brown snail with its body extended from its shell. The other is a smaller, light-colored snail with a yellowish shell.

MY
LIST

An illustration of two fish. The top one is a small, dark blue fish. The bottom one is a larger, more complex fish with a brown and white striped pattern and blue fins.NEGATIVE
SURVEYUPLOAD
QUEUE



Amphibians



Birds



Crocodilians



Fish



Lizards



Mammals



Aquatic



Grasses



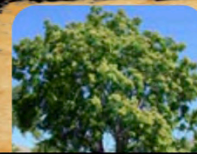
Herbs/Forbs



Other/Unknown Plant



Shrubs



Trees

Back

Add to My List



Images



Details



Map

Back

Add to My List

Ligustrum sinense

Chinese privet

Appearance: Semi-deciduous shrub or small tree to 4 m (12 ft) tall or more; twigs densely pubescent.

Leaves: Opposite, simple (on long twigs, at first glance, may appear compound); all green (in cultivation usually variegated, cream-white and green); leaf blades to 4 cm (1.5 in) long and 2 cm (0.75 in) wide, elliptic to elliptic-oblong, with tips blunt, margins entire, and pubescence persistent on midvein below; petioles short, pubescent.

Flowers: Many small white blooms on slender pubescent stalks in narrow,



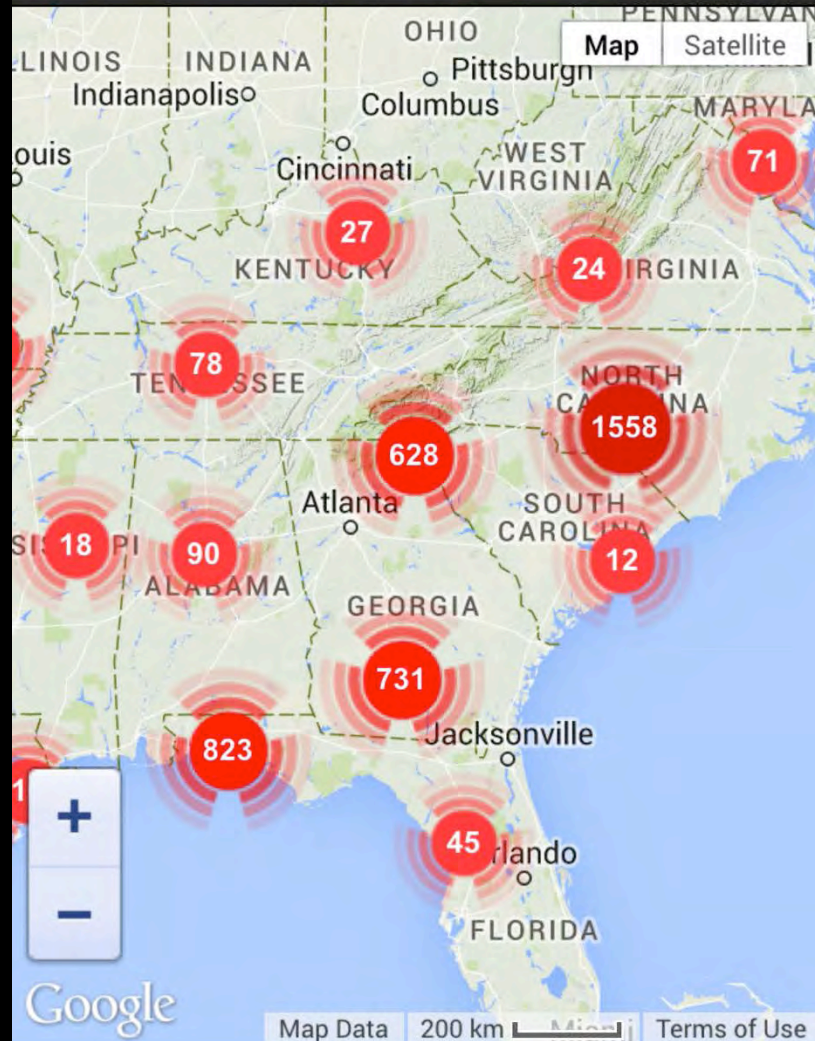
Images



Details



Map

[Back](#)[Add to My List](#)[Back](#)

Images



Details



Map

[< Back](#)

Ligustrum sinense
Chinese privet

2014-11-03 21:02 PM



Upload Image

Latitude 37.33233
Longitude -122.0312
Accuracy 30.0 m



Time Spent in Minutes

5	10	15	30	45	60
---	----	----	----	----	----

Area

##

Acres

Sq Feet

Density

Low

Medium

High

Any Extra Information Goes Here

Save

[< IveGot1](#)

Date/Time

2014-11-03 09:01 PM

List of Species

Edit

No Species have been selected for negative data.

Time Spent in Minutes

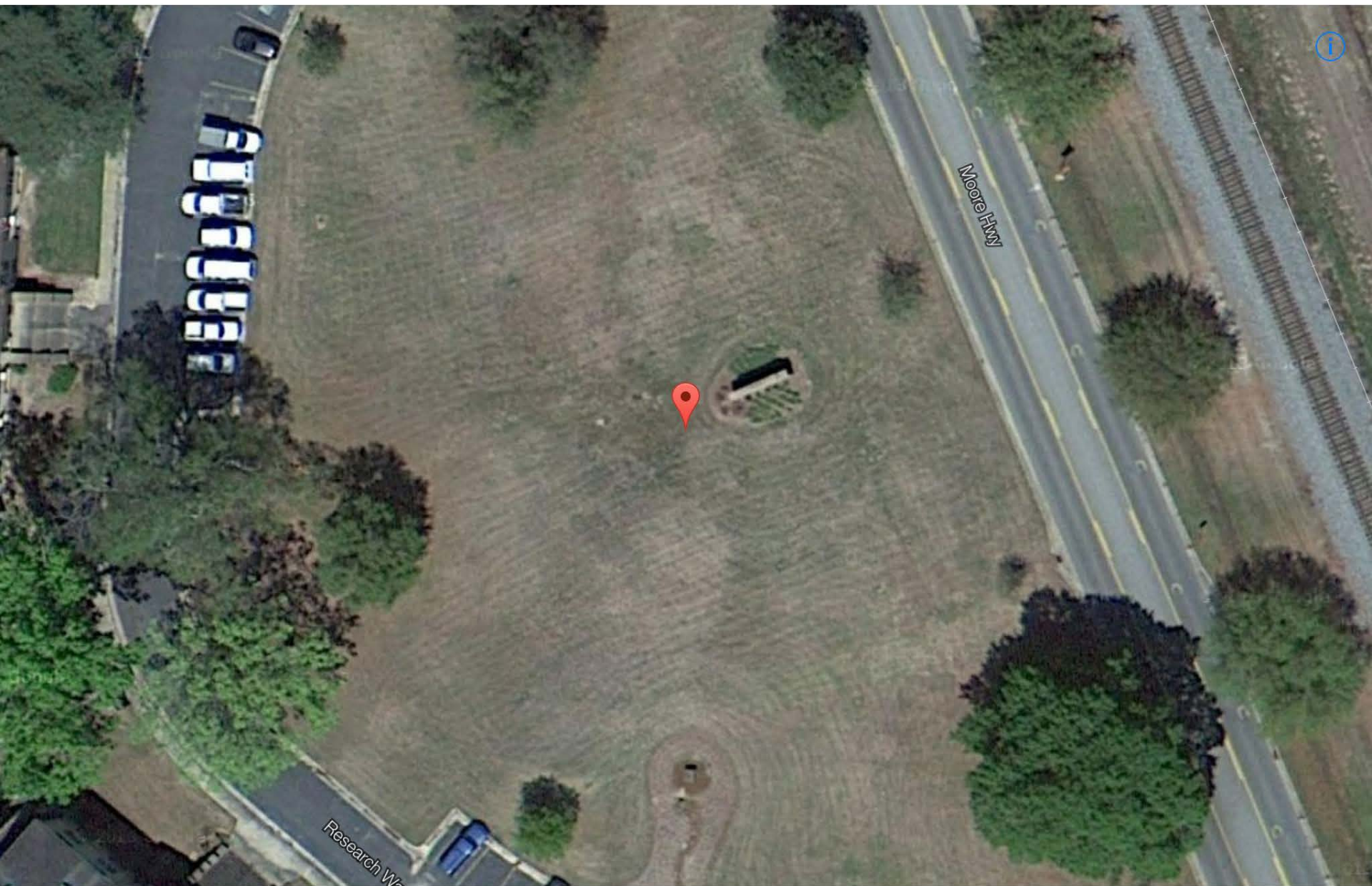
5	10	15	30	45	60
---	----	----	----	----	----

Area Surveyed

Edit

Save

Pin Location:
LAT:31.476442 LNG:-83.524559



Cancel

Point

Polygon

Done

Pin Location:
LAT:31.476442 LNG:-83.524559



Draw

Cancel

Point

Polygon

Done

Polygon Drawn:
Approximatly 0.1026 Acres



Draw

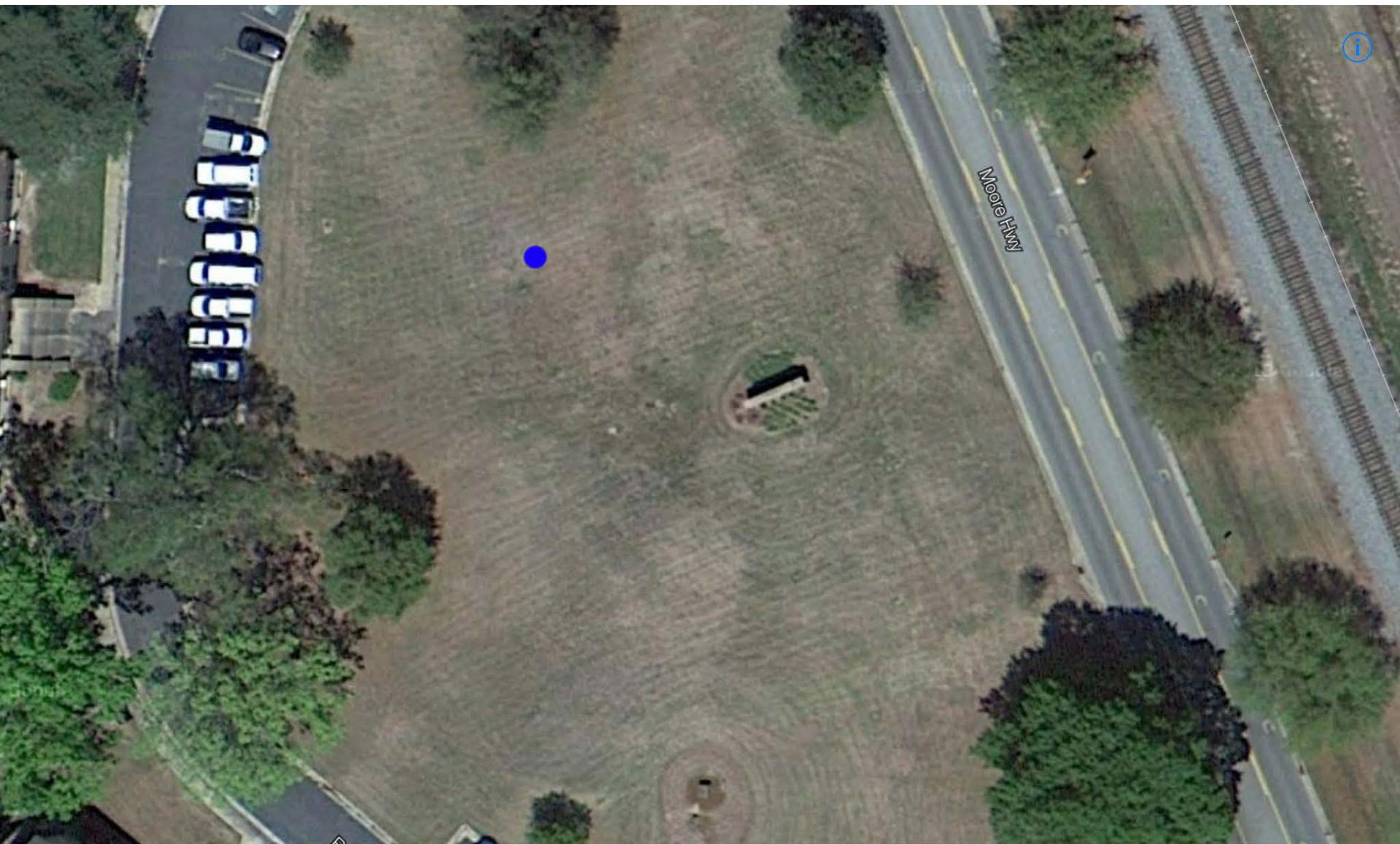
Cancel

Point

Polygon

Done

Pin Location:
LAT:31.476597 LNG:-83.524720



Draw

Cancel

Point

Polygon

Done

Polygon Drawn:
Approximatly 0.1659 Acres



Draw

Cancel

Point

Polygon

Done



HEALTHY TREES

HEALTHY CITIES



Healthy Trees Healthy Cities



Planting



Stewardship



Pruning



**Tree Health
Monitoring**



**Early Pest
Detection**



**Pest
Reporting**



**Upload
Queue**



More



[< Back](#)

Planting

2014-11-03 21:10 PM

No Species Selected

No Species Selected

[Select Species](#)[Upload Image](#)

Latitude 37.33233

Longitude -122.0312

Accuracy 5.0 m



Tree Size (Distance at Breast Height)

####

in inches

Tree Type

Any Extra Information Goes Here

[Save](#)[Cancel](#)[Common](#)

Search

Abies amabilis

Abies balsamea

Abies bracteata

Abies concolor

Abies fraseri

Abies grandis

Abies lasiocarpa

Abies magnifica

Abies procera

Acacia constricta

Acacia greggii

[< Back](#)

Stewardship

2014-11-03 21:10 PM

No Species Selected

No Species Selected

[Select Species](#)



[Upload Image](#)

Latitude 37.33233
Longitude -122.0312
Accuracy 5.0 m



Tree Size (Distance at Breast Height)

####

in inches

Stewardship Tasks

[Edit](#)

Tap edit and select all that apply

[Save](#)

[Cancel](#)[Done](#)

Dead/diseased branch pruning

Water

Other - see notes

Topsoil over roots

Mulch over roots

Removal of refuse/litter

Stake tree for safety/protection from...

Stake tree for lean

Install tree fence/guard

[Back](#)

Asian Longhorned Beetle

[Select Species](#)

Report Image



[Upload Image](#)

Location

Latitude 37.3323...
Longitude -122.03...
Accuracy 5.0 m



Time Spent in Minutes

5	10	15	30	45	60
---	----	----	----	----	----

Number Observed

One	Multiple
-----	----------



Save

[Back](#)



Images



Details



Video

[Back](#)

Asian Longhorned Beetle

Identifying Characteristics

Large 1"-1.5" long body; Shiny black outer wings with round 20 white spots; Very long white and black striped antennae; Six legs; can have blue-ish feet; Beetles most often seen in late summer (June-August)

Host Trees

* Most Common

Maples*, Willows*, Aspen, Birch, Elm, Box Elder, Buckeye, Horsechestnut, Katsura, London Planetree, Mountain Ash, Poplar (Cottonwood), Ash

What to Look For

Trees usually die back first along the center & top of branches; Infestation can cause patches of trunk to appear black and covered in sap; Feeding galleries under bark; Exit holes are perfectly round and the diameter of a pencil

[Image](#)[Details](#)[Video](#)

Done 0:48 -1:34





Healthy Trees Healthy Cities

Planting

Stewardship

Pruning

**Tree Health
Monitoring**

**Early Pest
Detection**

**Pest
Reporting**

**Upload
Queue**

More

Coming Soon





Report Invasive Plants and Animals in Indiana

Report IN

Report online at **EDDMaps.org/Indiana**

Report by smartphone using Great Lakes Early Detections Network app



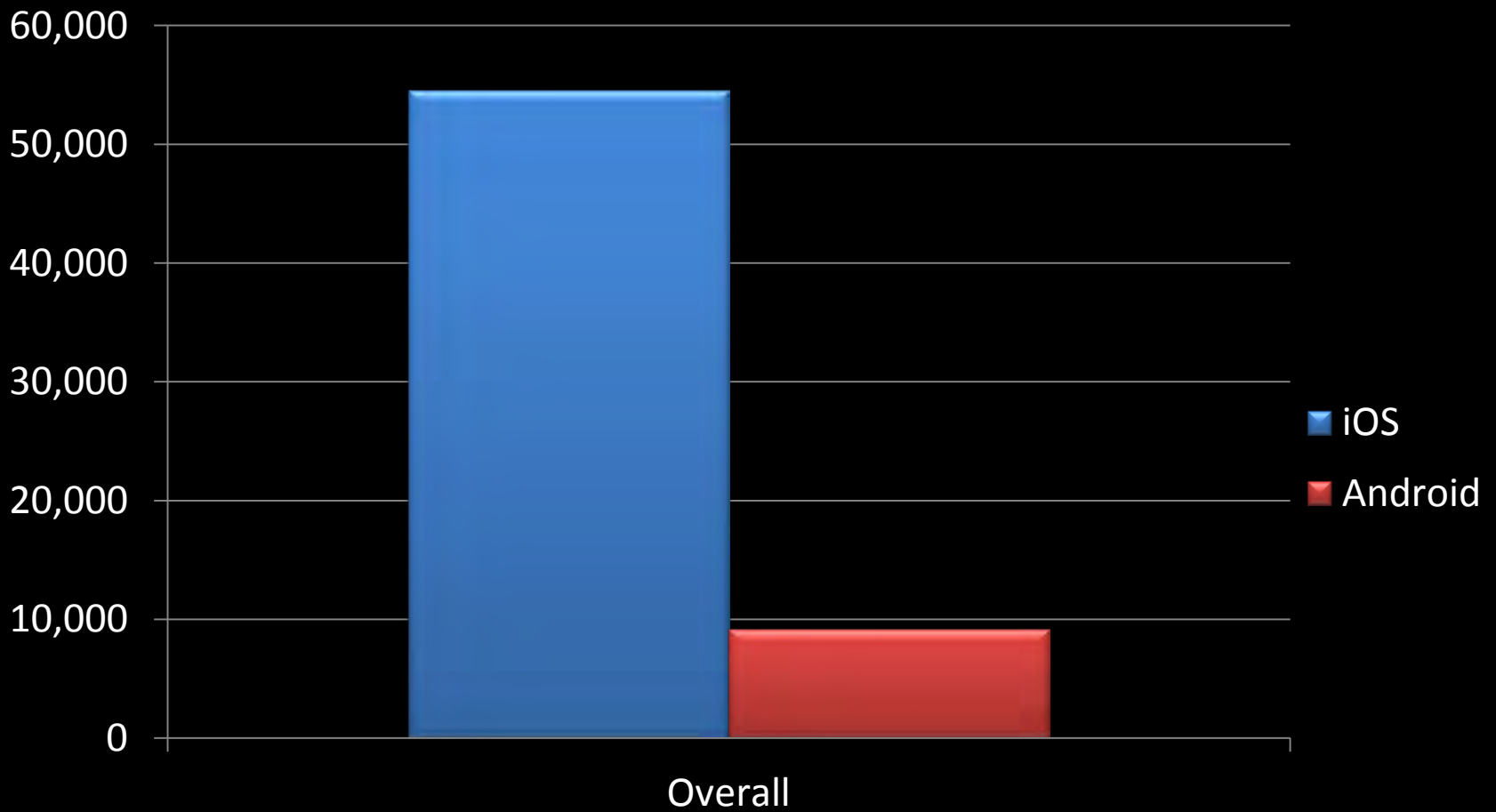
United States Department of Agriculture Forest Service

Kudzu or English Ivy?

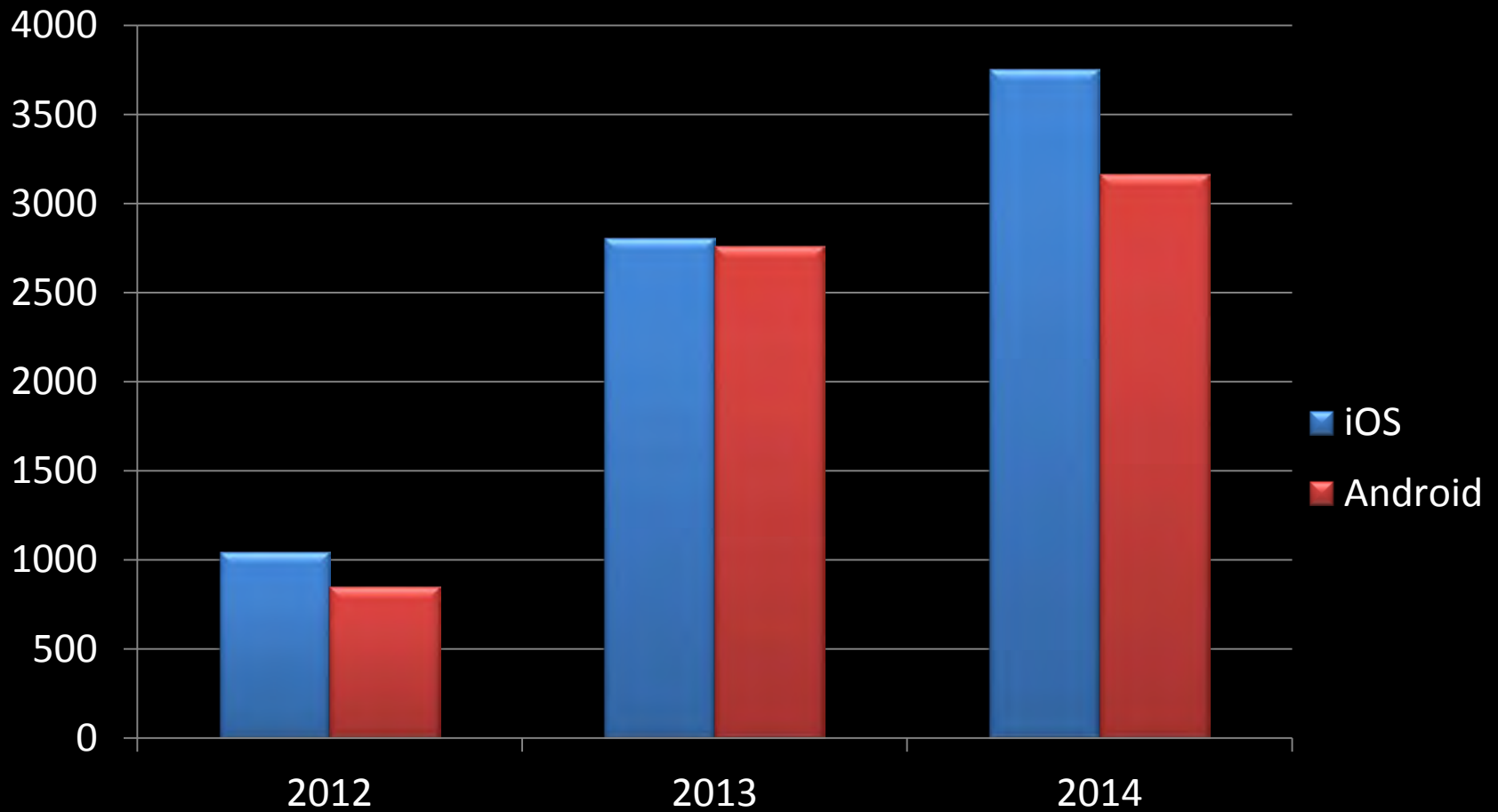


The free new Invasive Plants iPhone App can help ...

App Downloads



App Reports



One more thing



Tim Cook, chief executive officer of Apple Inc., prepares to unveil the Apple Watch during a product announcement at Flint Center in Cupertino, California, U.S., on Tuesday, Sept. 9, 2014.

David Paul Morris/Bloomberg



United States Department of Agriculture

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Open iTunes to buy and download apps.

iPhone Apps



1.

Save Our Citrus
[View In iTunes ▶](#)



2.

Federal Noxious Weeds ...
[View In iTunes ▶](#)



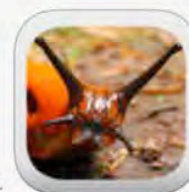
3.

Citrus Diseases Key
[View In iTunes ▶](#)



4.

Citrus Pests Key
[View In iTunes ▶](#)



5.

Terrestrial Mollusc Key
[View In iTunes ▶](#)



6.

Dried Botanicals Key
[View In iTunes ▶](#)



7.

Palm ID Key
[View In iTunes ▶](#)



8.

Palm Symptoms Key
[View In iTunes ▶](#)



9.

Citrus ID
[View In iTunes ▶](#)



10.

Palm Screening Aid Key
[View In iTunes ▶](#)



11.

TortAI Key
[View In iTunes ▶](#)

IveGot1

Breeding population of Burmese Pythons
found at Disney's Animal Kingdom.

OK

10:05

Tuesday, 3 November

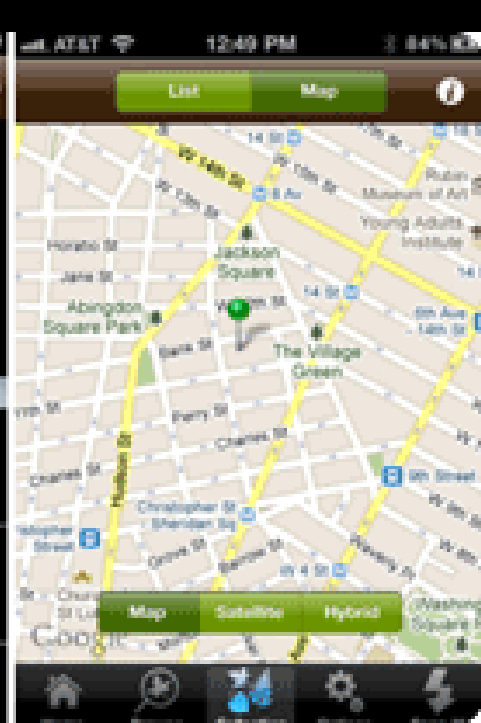
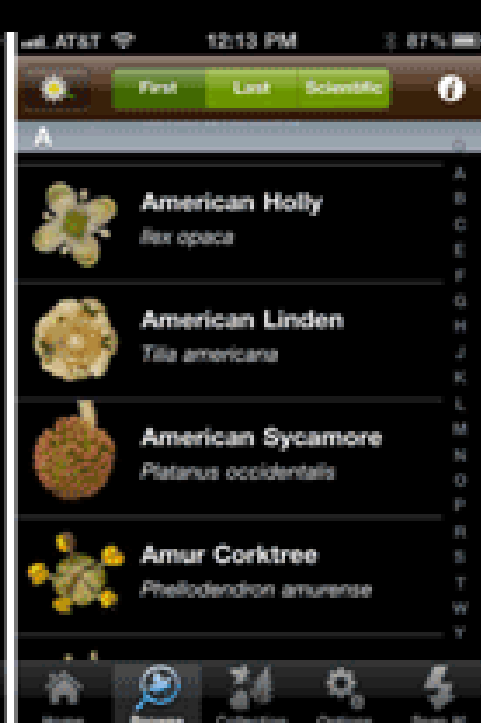
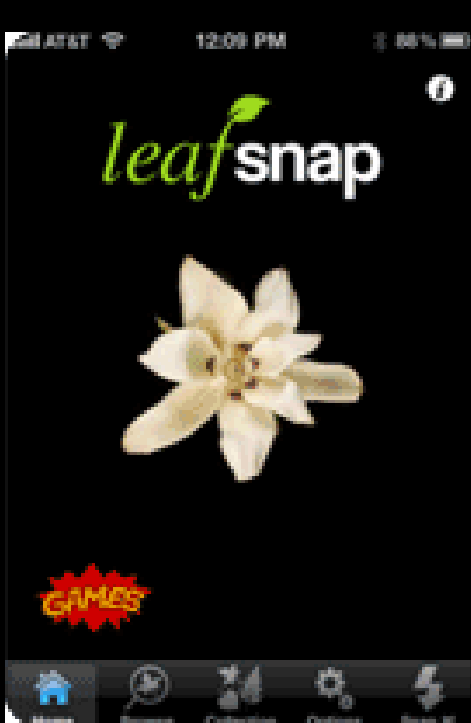


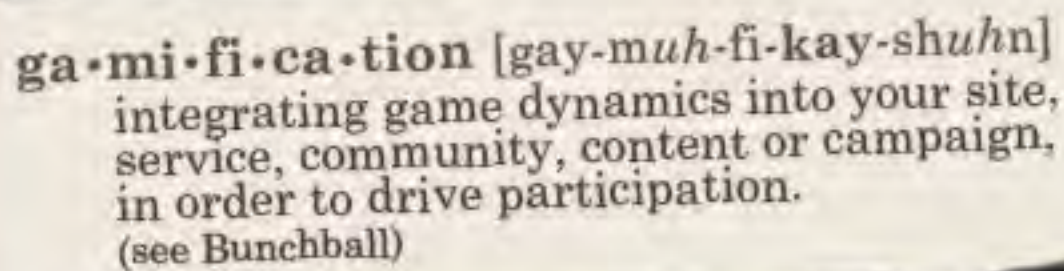
IveGot1 now

Breeding population of Burmese
Pythons found at Disney's Animal
Kingdom.

slide to view

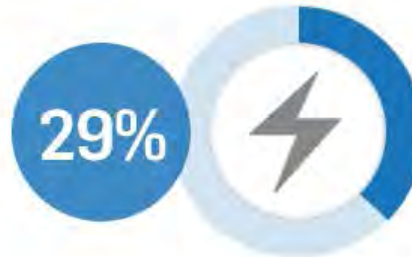
> slide to unlock





Gamification: Real Results, Not Hype

How gamification increases valuable online behavior



Websites with gamification experience a **29% increase in site actions**

Increases in Plugin Engagement on Websites with Gamification



COMMENTING

Gamification increases commenting by 13%



SHARING

Gamification increases social sharing by 22%



ACTIVITY FEED

Gamification amplifies content discovery, increasing activity feed engagement by 68%

*all findings from Gigya implementations in 2012

GIGYA

ABOUT GIGYA

Gigya provides websites with a complete social infrastructure that creates immersive social experiences for users and provides unparalleled customer insights for businesses.

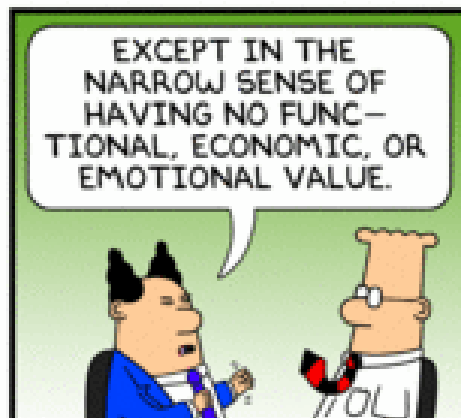
www.gigya.com | 650.353.7230



DilbertCartoonist@gmail.com



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www.dilbert.com
5-19-13



Oct 09

American Farmers to FAA: Hey, We Want Drones!

BY MARK KOBA



JEAN PIERRE MULLER / AFP - GETTY IMAGES



intelliscout™

www.farmhousenetworks.com

NATURALIST





Thanks



The Nature Conservancy, Invasive Plant Control, Inc.
Oregon, Minnesota, Clemson, Alberta, Manitoba, Ontario
Montana State, Univ. of Florida, Florida FWC
New Jersey Invasive Species Strike Team



THE UNIVERSITY OF GEORGIA
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ECOSYSTEM HEALTH**
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Questions?

cbargero@uga.edu

apps.bugwood.org

www.eddmaps.org

www.bugwood.org

www.invasive.org