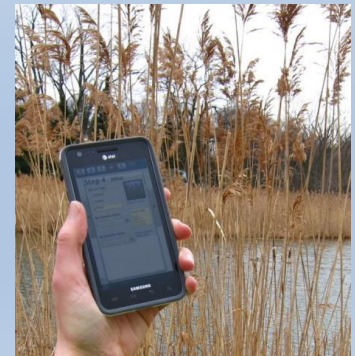
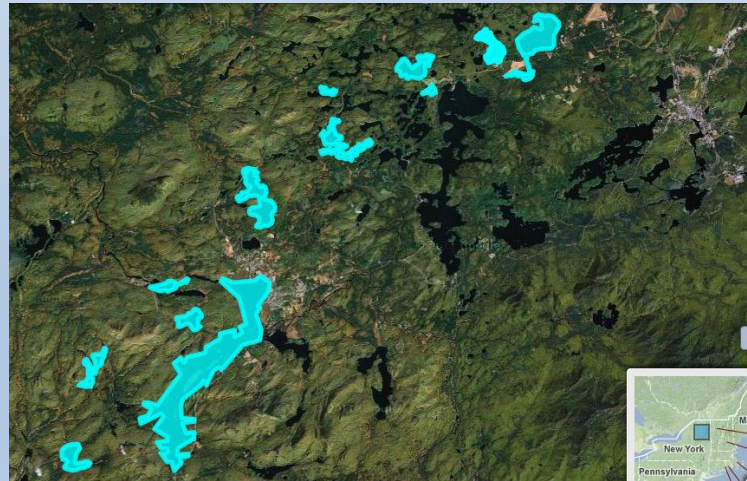
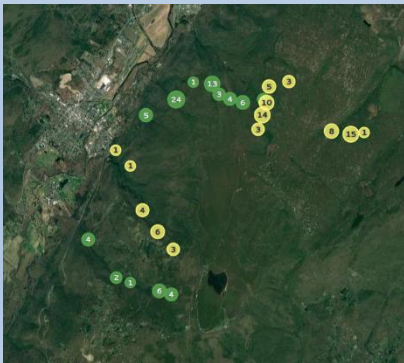




New York's Online Invasive Species Database and Mapping System

NYSFOLA, May 4, 2018

Meg Wilkinson, NY Natural Heritage Program



Funding provided by:

New York State Environmental Protection Fund



1. Background
2. What can iMap Do for you?
3. Opportunities (7)

www.NYiMapInvasives.org

NY Natural Heritage Program (NYNHP)

- Our mission is to facilitate conservation of New York's biodiversity by providing comprehensive information and scientific expertise on rare species and natural ecosystems to resource managers and other conservation partners.
- *Partnership between NYS DEC and SUNY ESF*



New York
Natural Heritage
Program

New York State Invasive Species Database

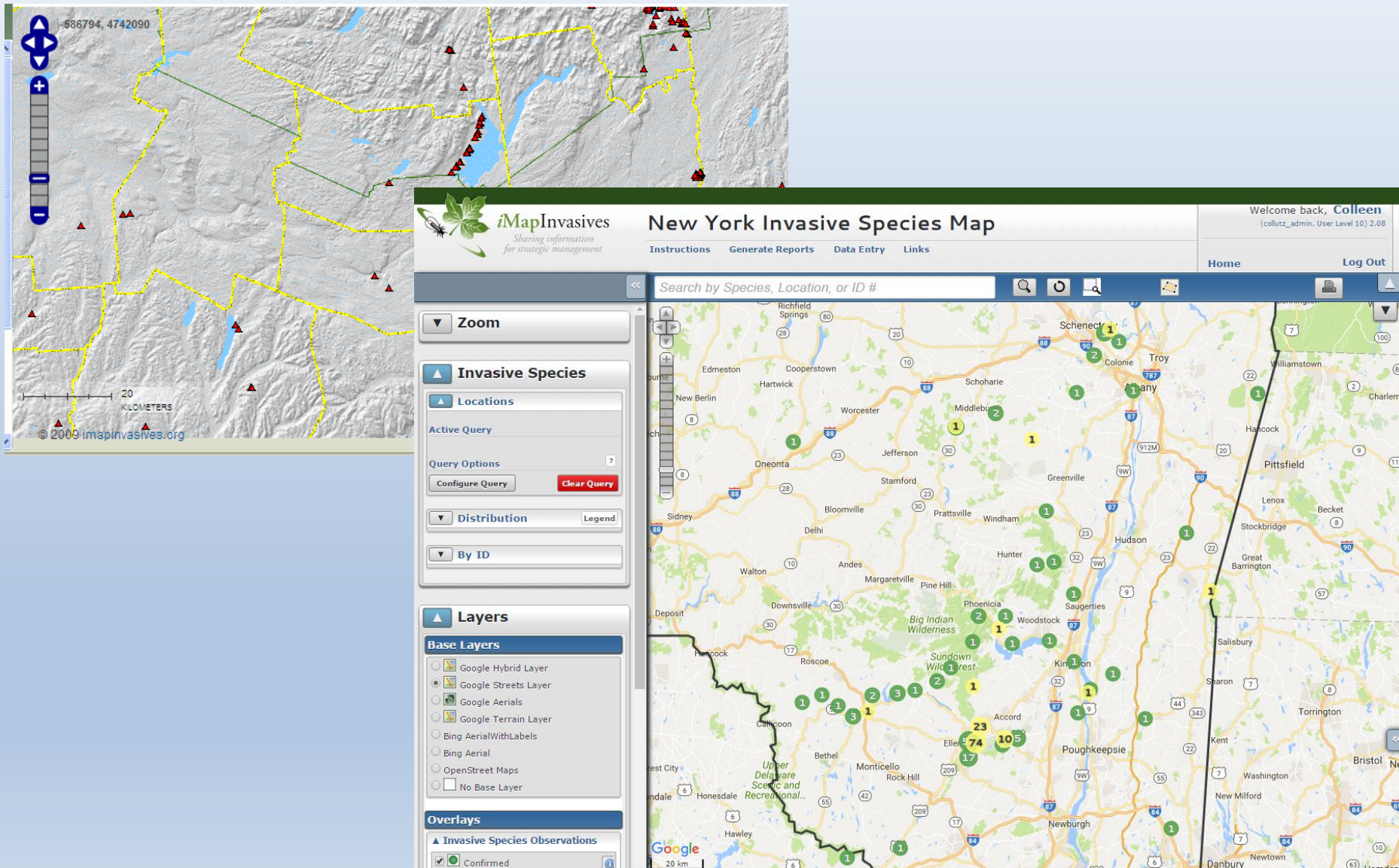
Sharing Information for Strategic Management

- Aggregation center for all-taxa data
- Communication network for Early Detection
- Online, map-based platform
- Organization charged with managing data (NYNHP)
- Available for professionals and citizen scientists



LIVE in 2010

version 1.1; now v. 2.13

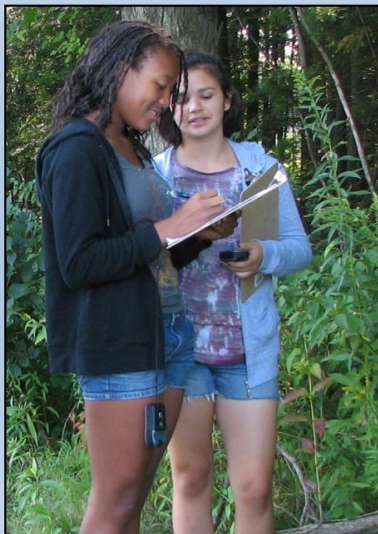


Where does the data come from?

1) Bulk uploads from partner organizations

- Local, State, and Federal Agencies
- Land/ Water Managers
- Researchers
- Museum Data

2) Data entered online and through the app



Step 3 What (Species)

What Species Was Observed?

Species Type

☐ Animal ☒ Insect ☐ Plant

By Common Name

Asian Long-horned Beetle

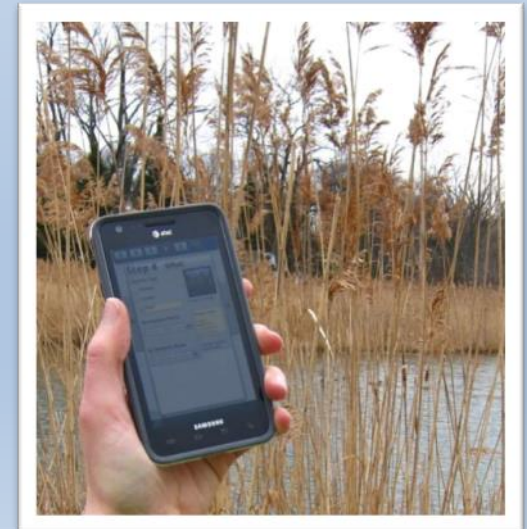
By Scientific Name

Anoplophora glabripennis

Image Credit

Kenneth R. Law, USDA APHIS PPQ, Bugwood.org

Further Species Information



Who uses iMap?

Contributing to
NYS Knowledge Base &
***Informing EDRR Work &
Response Efforts***

- Botanists/Ecologists
- Consultants
- DEC staff
- Parks staff
- CCE staff
- Master Gardeners
- Outdoor Enthusiasts
- College Students

Managing a Geography

- NYS DEC Invasive Species Program Staff
- PRISM Leaders
- HWA Initiative
- NYS Parks
- Lake Associations
- Town/County staff



Partnerships for Regional Invasive Species Management

“PRISM”





iMapInvasives

Sharing information for strategic management

Login Now

About iMap

Who We Are

Resources

Action!

Contact Us



Login to PA IMapInvasives



Request a FREE Account



Report an Invasive Species



View Public Map



Visit Homepage

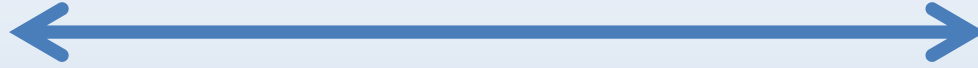


Contact Your Administrator



◀ Back to Login page

What can iMap Do for you??

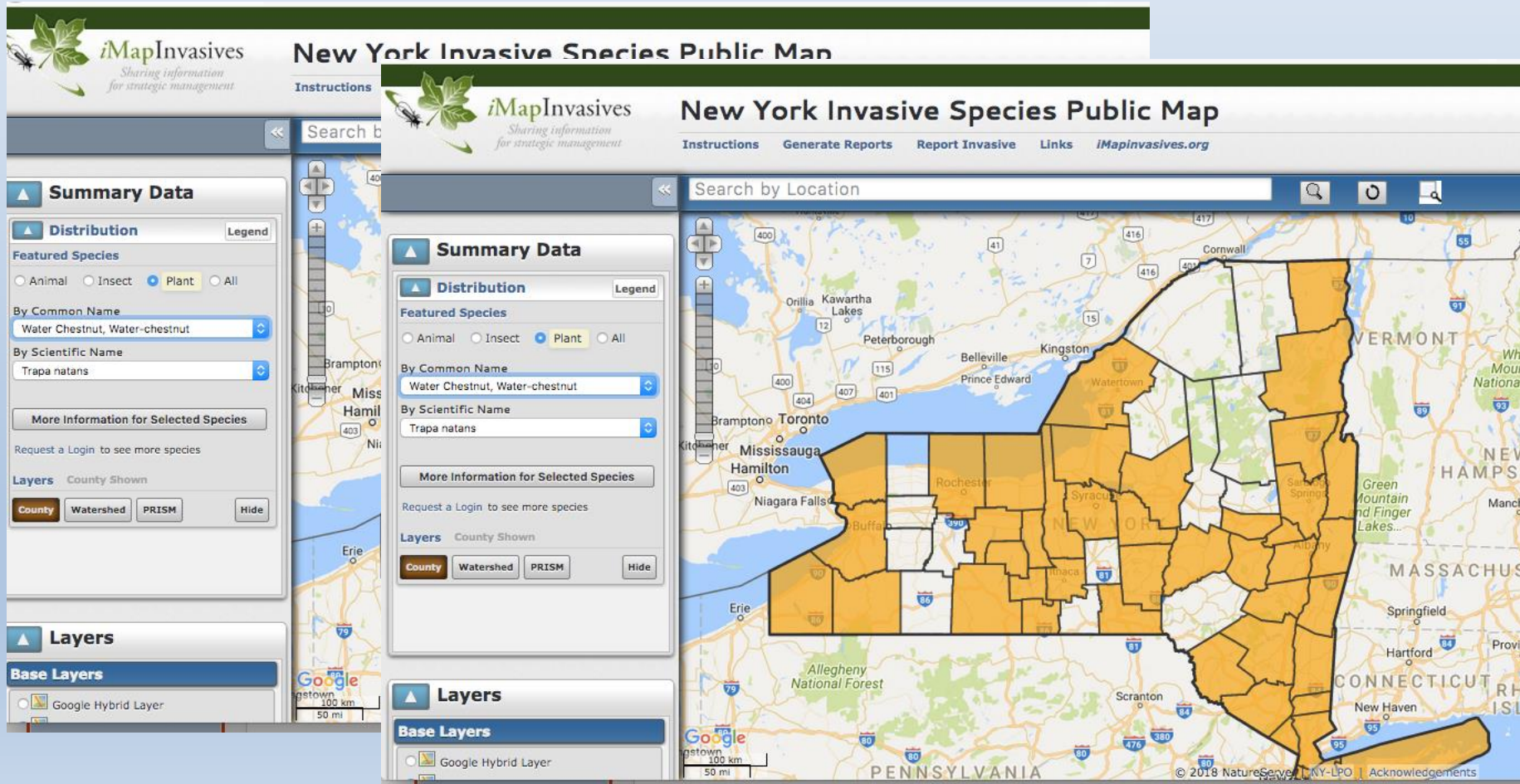


- Connect information about your lake to key individuals:
 - PRISM Leaders
 - Scott K, Cathy M, etc.
- Connect you to key information
 - What is reported for your lake? Nearby?
 - Maps/Reports
- Methods:
 - Online (map, reports, email alerts, etc.)
 - Mobile app
 - Spring Blitz
 - 2019: iMap3



Public Map

- Some species
- Distribution – by County/Watershed



LOGIN: Online mapping interface



New York Administrator Tools

Location: **My iMapInvasives**

Welcome back, **Meg**
(megwilkinson, User Level 10) 2:06
[Home](#) [Log Out](#)

[Show Your iMap Stats](#)

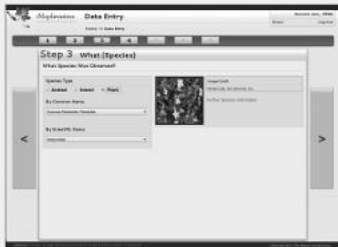
My iMapInvasives

Resources

Data Management

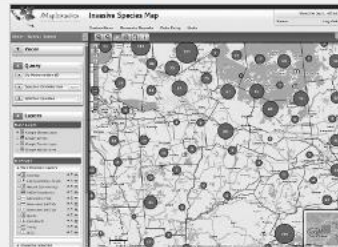
System Management

Enter Data



- Observation
- Survey
- Treatment
- Infestation Management

View the Map



- View the Map
- Not using a high-speed internet connection?

View Table

Species Name	Observation ID	Date	Status
...

- All Observations
- Surveys
- Treatments
- Infestation Management
- Assessments
 - Animals
 - Insects
 - Plants
- IPMDAT Shared Results

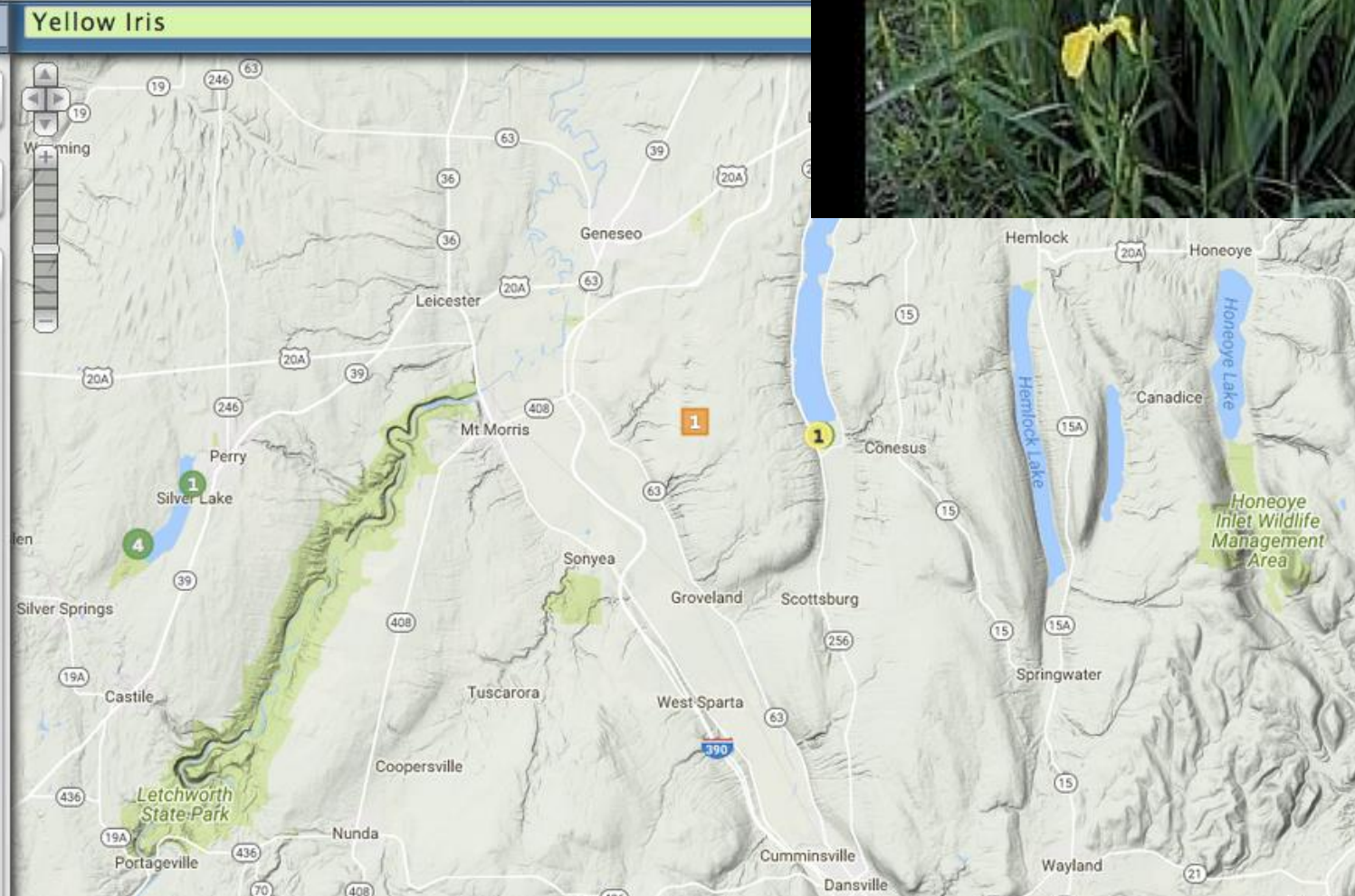
Query and Reports

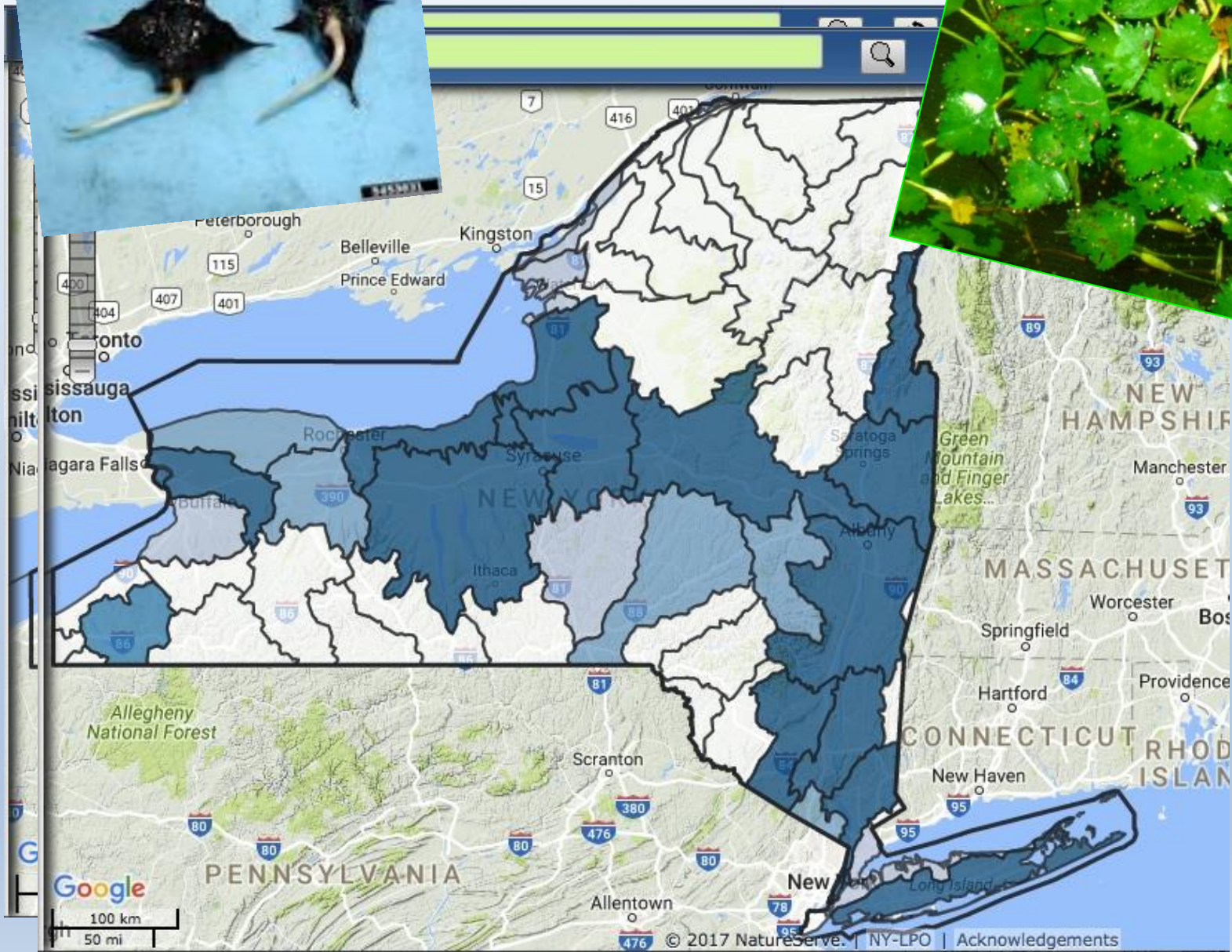


Custom Observation Query

All Data Summary Report
All Species by County:
Report
Table
Infested Lakes:
Table
Report
Report with Observation IDS
Active Projects:
All Projects
My Projects with Details
Admin: Summary Report

Yellow Iris





Searched for Water-chestnut: NOT DETECTED



Accuracy: 0010 m

Viewing the map requires an internet connection, if you do

< > Done

Tree of Heaven, Tree of Heaven, Elm...

Water Chestnut, Water-chestnut

Wild Parsnip

X-HWA - NOT Detected

X-Water chestnut - NOT Detected

Yellow Iris, Water-flag, Yellow flag iris...

New York Invasive Species Map

[Instructions](#)[Generate Reports](#)[Data Entry](#)[Links](#)

Iona Island



Observation (34)

ID	Scientific Name	Common Name	Organization	County	Observed	Data Status
NY-108095	<i>Cynanchum louiseae</i>	Black Swallow-wort, Louise's Swallow-wort, Dog-strangling Vine	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-108458	<i>Phragmites australis</i> ssp. <i>australis</i>	Common Reed, Common reed grass	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-109063	<i>Microstegium vimineum</i>	Japanese Stiltgrass, Nepalese Browntop, Japanese stilt grass, Nepalgrass	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-109123	<i>Persicaria perfoliata</i>	Mile-a-minute Weed, Mile-a-minute Vine, Asiatic Tearthumb, Mile a minute weed	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-109261	<i>Rosa multiflora</i>	Multiflora Rose, Rambler Rose	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-109426	<i>Lythrum salicaria</i>	Purple Loosestrife	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-108456	<i>Phragmites australis</i> ssp. <i>australis</i>	Common Reed, Common reed grass	New York Natural Heritage Program (NYNHP)	Rockland	2008-06-04	Confirmed
NY-108457	<i>Phragmites australis</i> ssp. <i>australis</i>	Common Reed, Common reed grass	New York Natural Heritage Program (NYNHP)	Rockland	2008-08-12	Confirmed
NY-108460	<i>Phragmites australis</i> ssp. <i>australis</i>	Common Reed, Common reed grass	New York Natural Heritage Program (NYNHP)	Rockland	2010-09-01	Confirmed
NY-108670	<i>Myriophyllum spicatum</i>	Eurasian Water-milfoil, European Water-milfoil, Spike Water-milfoil, Eurasian watermilfoil	New York Natural Heritage Program (NYNHP)	Rockland	2003-10-02	Confirmed
NY-109425	<i>Lythrum salicaria</i>	Purple Loosestrife	New York Natural Heritage Program (NYNHP)	Rockland	2003-10-02	Confirmed
NY-370465U	<i>Phragmites</i>					

Queries & Reports

1

Type

Full Data Query

Common Invasive Species

Early Detection

Approaching Region

2

Criteria

Data Set

All iMap Data - Including Nearby States

?

Geography

Geography Type

All

?

Geography Value

All

?

Geography Value

Coordinate

?

Geography Value

Conservation Lands

?

Geography Value

Conservation Lands - Ownership Type

?

Geography Value

County

?

Geography Value

DEC Regions

?

Geography Value

DOT Regions

?

Geography Value

ISPZ

?

Geography Value

OPRHP Regions

?

Geography Value

PRISM

?

Geography Value

State

?

Geography Value

Towns

?

Geography Value

USGS Topographic Quad

?

Geography Value

Waterbody

?

Geography Value

Watershed (HUC6)

?

Geography Value

Watershed (HUC8)

?

Species

Animal

Insect

Plant

3

Results

View Table

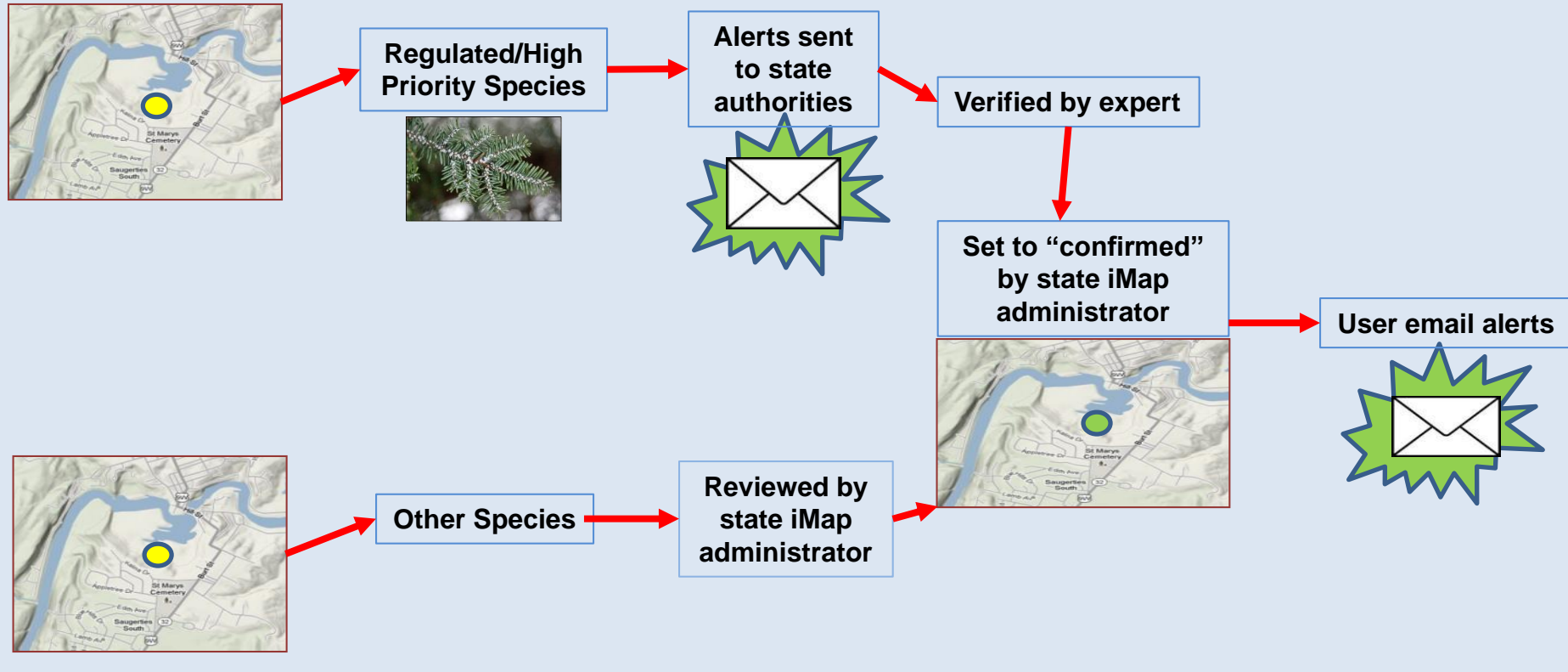
View Report

View On Map

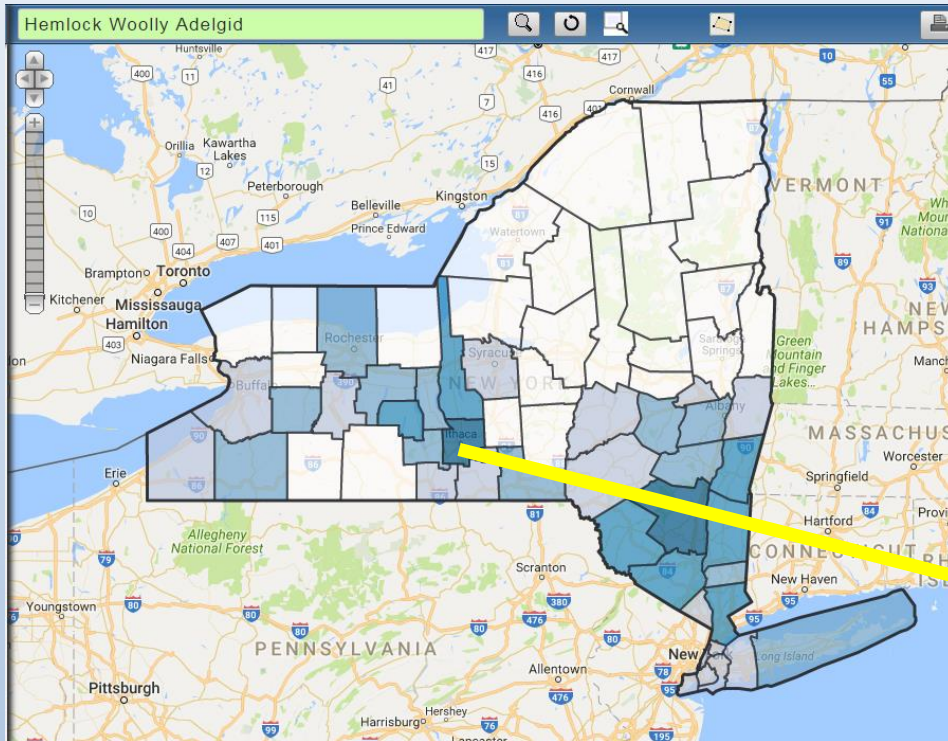
Clear All Queries

Email Alert System

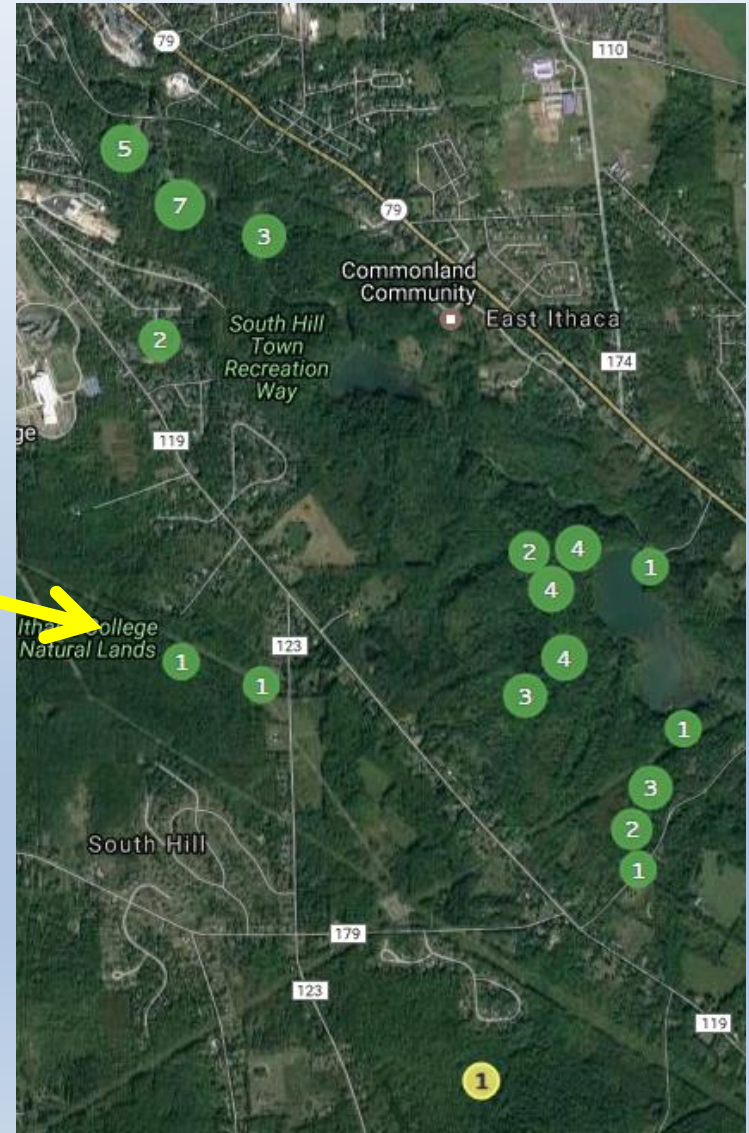
Communicating important findings to key stakeholders



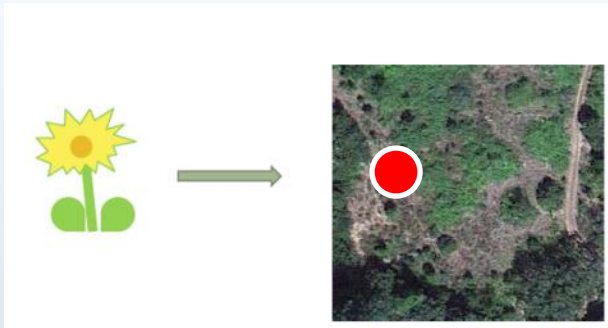
The data is used to make smart decisions about invasive species management...



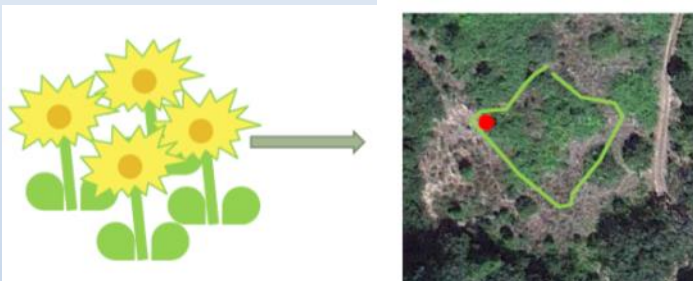
Hemlock Woolly Adelgid



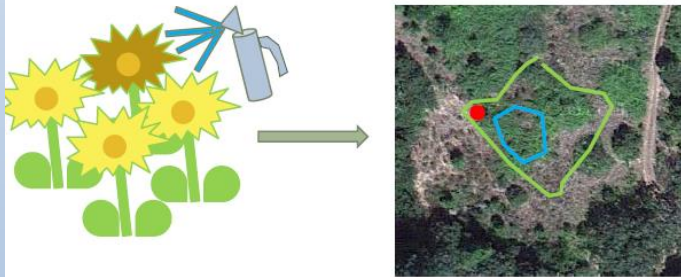
DATA TYPES



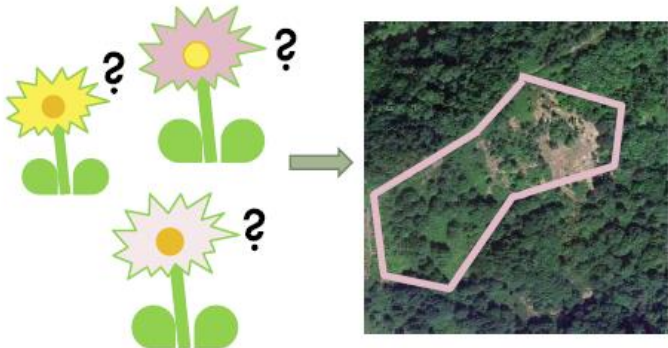
OBSERVATION – location of a specific species(location, date)



ASSESSMENT – detailed information about a specific observation



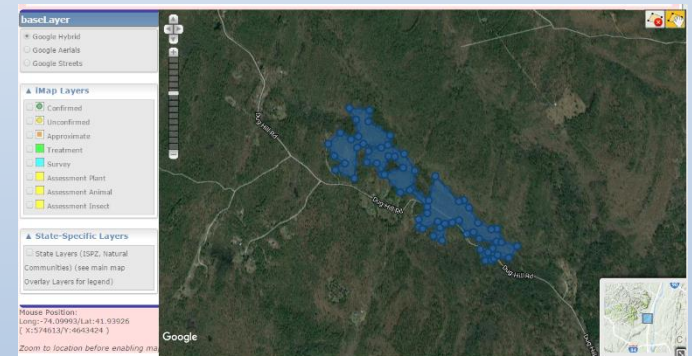
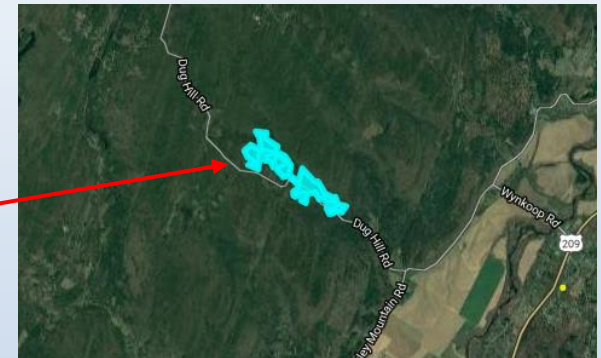
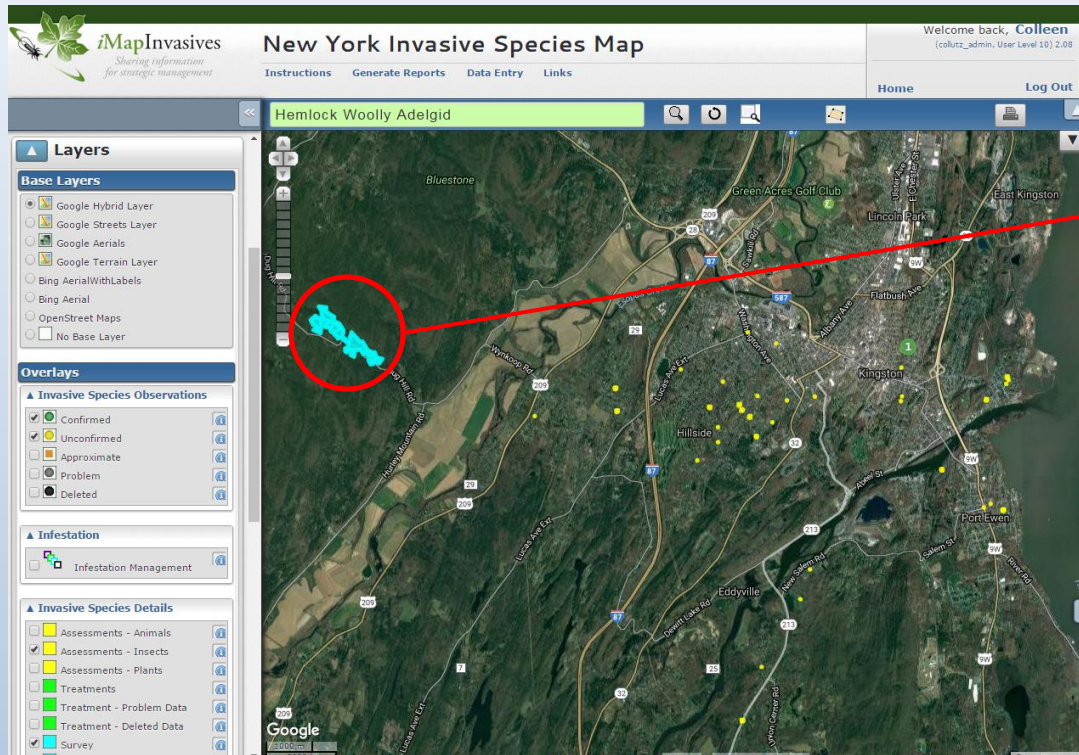
TREATMENT – control effort details



SURVEY – search for presence or absence of a species

INFESTATION
MANAGEMENT
RECORD

Managing advanced data



Basic Survey Fields

Add separate sampling points to this record

Do not use special symbols in text boxes. Only letters, numbers, and characters found on common keyboards are accepted.

* Type: Terrestrial Systematic

* Lead Contact: Marquand, Molly

Project Name: CRISP and TNC Hemlock Woolly Adelgid Survey-2014

Site: Stony Creek 140

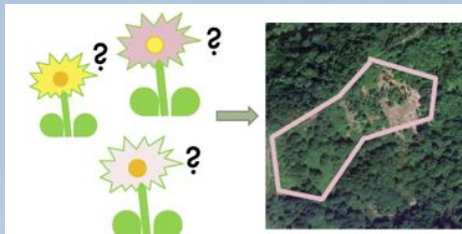
* Goal: c) Pre-treatment survey

* Start Date: 2014.04.11

* End Date: 2014.04.11

* Target Species:

Detected Species:



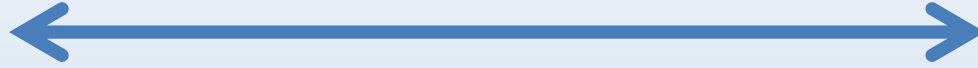
SURVEY – search for presence or absence of a species

Project

- Group data
- Project Leader: confirm/ review data
- Download data



Connections



- PRISM Leaders
- NYS DEC Invasive Species Coordination Unit
- Each other!

3. Opportunities

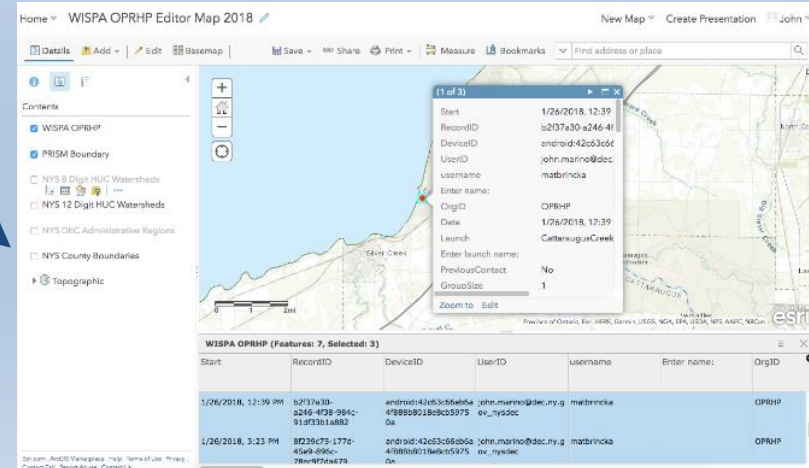
1. *WISPA 2019*
2. Pilot Survey123/Collector Apps
3. iMap Mobile app (iPhone/Android)
4. Spring Blitz Trainings
5. 3rd annual Water Chestnut Challenge
6. One-on-one sessions
7. *2019: iMap3*

Watercraft Inspection Steward Program App (WISPA)

#1

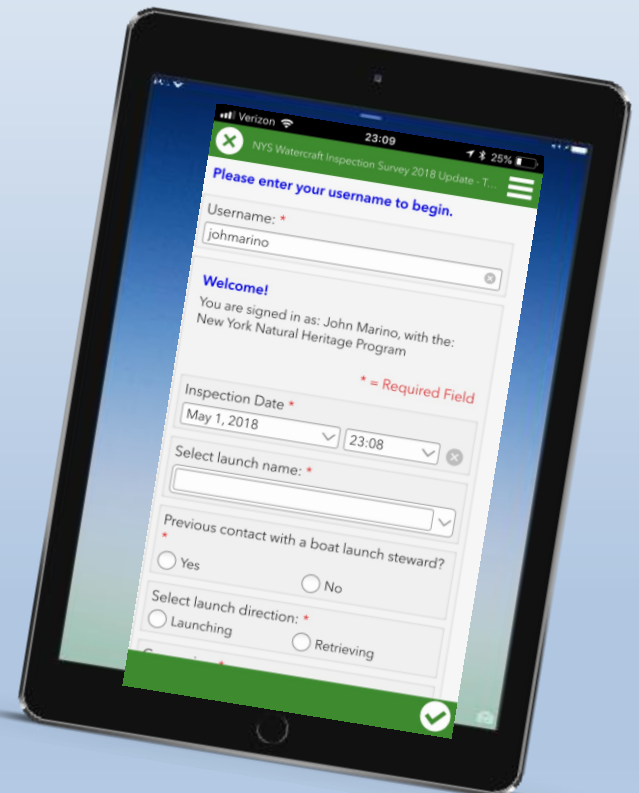
- 2017: Pilot
- 2018: 12 Organizations
- 2019: email iMap box

ArcGIS
Online
NYSDEC



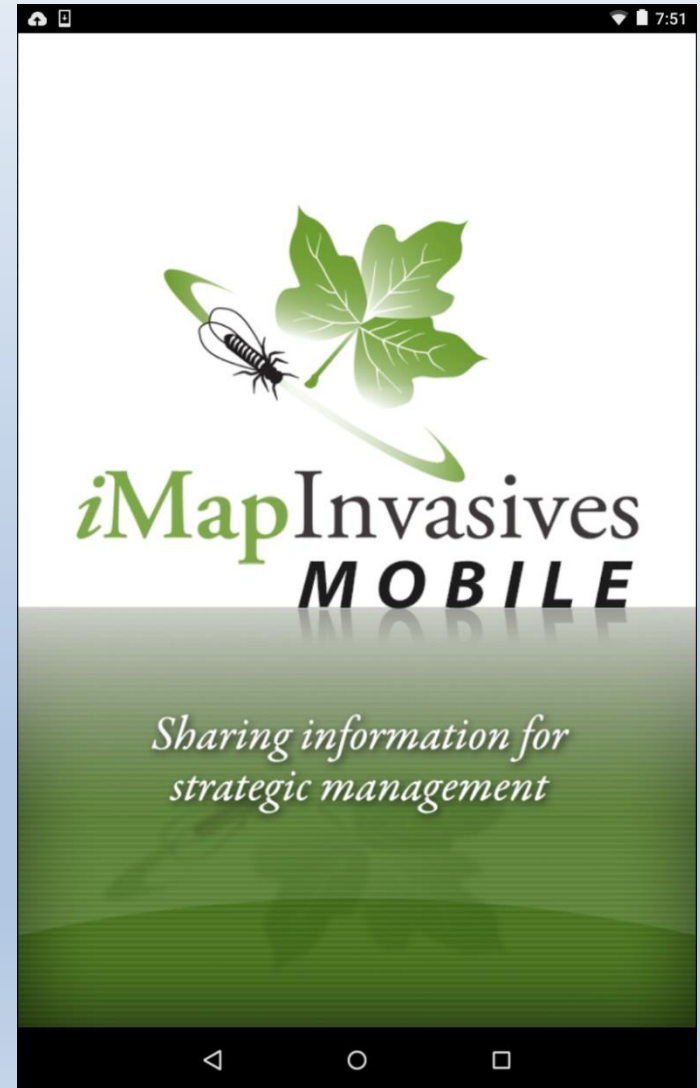
Pilot: Survey123/Collector apps

- OAT: Observation/Assessment/Treatment
- SAS: Simple Aquatic Survey
- RA: Rapid Assessment
- POAT: Polygon + OAT



Email the iMap box if you would like to participate

Observation Data-entry
in the field...
without connectivity
App - smartphone



2018 iMap Spring Blitz

#4



www.NYiMapInvasives.org



Arbore

PRIZES!!!

ziviapInvasives

One-on-one opportunity

Sign-up at iMap Table

#6



- Ask questions
- Set-up an iMap account
- Set-up an email alert for your watershed
- Create a report for your lake
- Download the iMapInvasives app
- Set-up the iMap Mobile app (iPhone or Android)
- Other



2019: iMap3

- Esri-based (leverage Survey123/Collector)
- North American View
- Email iMap box if you want to help test in March of 2019



Become involved with *i*MapInvasives



- Contribute data!
 - Become a trained user to submit observations
- Use and analyze the data
 - Search species and locations
 - Set up email alerts
- Manage advanced data for your own projects

www.NYiMapInvasives.org

