Have you:

- Created an iMapInvasives account?
- Logged-in online?
- Downloaded the iMapInvasives Mobile app onto your smartphone or tablet?





iMapInvasives training



Meg Wilkinson Invasive Species Database Program Coordinator NY Natural Heritage Program

Wednesday November 13th, 2019

II.

III.

iMap3 Online

iMap Mobile App

iMap3 Web Map Services (WMS)

NY imapinvasives.org

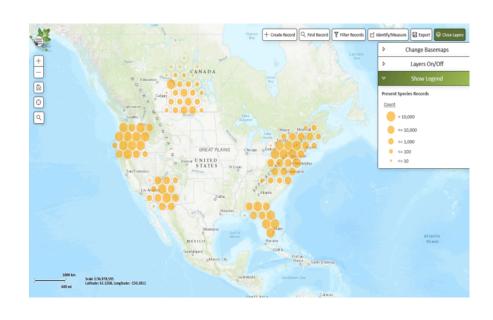






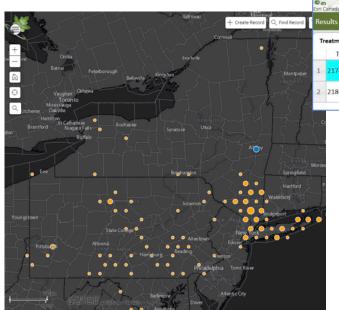
- Live in April
- ❖ With NatureServe
- US & Canada
- Map-centric





iMap3!

Launched April 18, 2019





Change Basemaps

Unconfirmed Present Sp

Present Species
Present Species Transparency:

+ Create Record Q Find Record Filter Records Identify/Measure

Maps

Filters

More!

Submit data

Export data

Email alerts

Email alerts



New York's Invasive Species Database





Tracking Control Efforts and Results



Species Distributions and Reports



Alerts

<u>Presence</u>

What did you find?

Location(s) (polygon, line, or point) that document one or multiple species present per location



Not Detected

What didn't you find?

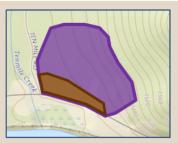
One or more species looked for but not found.



<u>Treatment</u> What did you treat?

Polygon(s) within, or same area as, the parent Searched Area record

mechanical, chemical, or biological



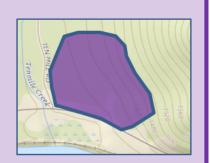
*i*MapInvasives – Data Types

Searched Area

Where did you look?

Polygon showing the area covered that day, at that site, while looking for and/or treating invasive species.

· Base record to all other types.



iMapInvasives – User Roles



Organization

(e.g., NYS DOT, Audubon, CCE, Lake Association)

Active iMap states have:
Data manager/admin
Treatment tracking
Custom species list
Users into organizations



All iMap Members can:

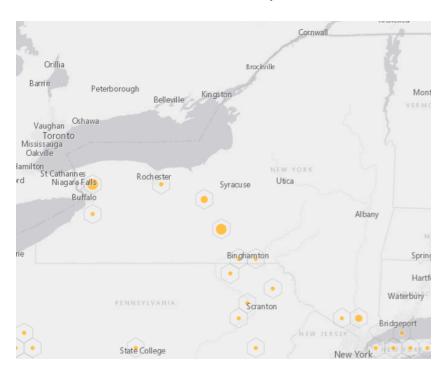
- Enter/view/export presence and Not Detected records
- View, but not enter, basic treatments
- Create personal projects

iMap Member

Everyone, everywhere

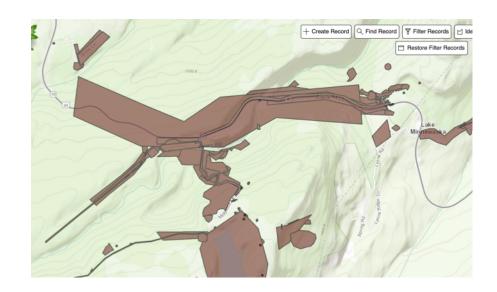
scale

- State Level:
 - Email alerts
 - prioritization

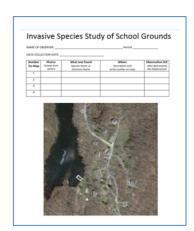


Local level:

- Presence
- Treatment work
- Follow-up surveys
- → Progress over time



Options for entering data into iMapInvasives _____



Collect on paper forms, then enter onto computer and upload photos

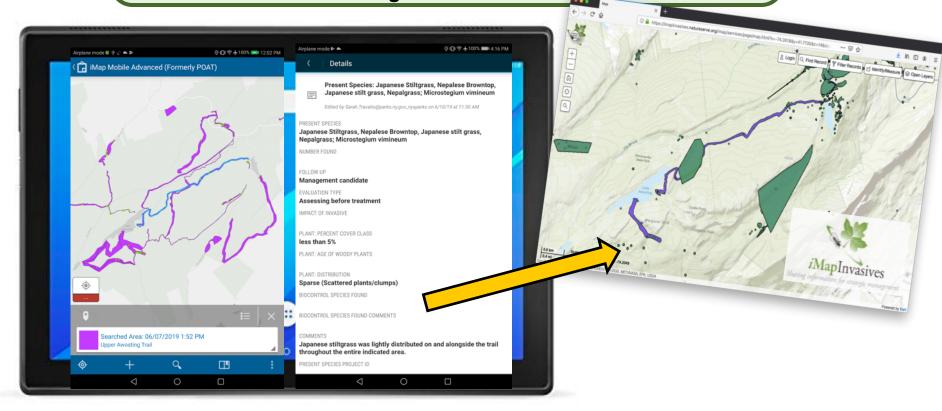




Collect photos and location with app, then upload into computer

iMap Mobile Advanced: Connecting Field Work to iMap

Could the iMap Collector app be helpful for your agency/organization?



5. Simple Aquatic Survey "SAS"

- Two rake tosses per record
- Aquatic-specific survey fields



Hydrilla



Brittle Naiad







Eurasian Watermilfoil

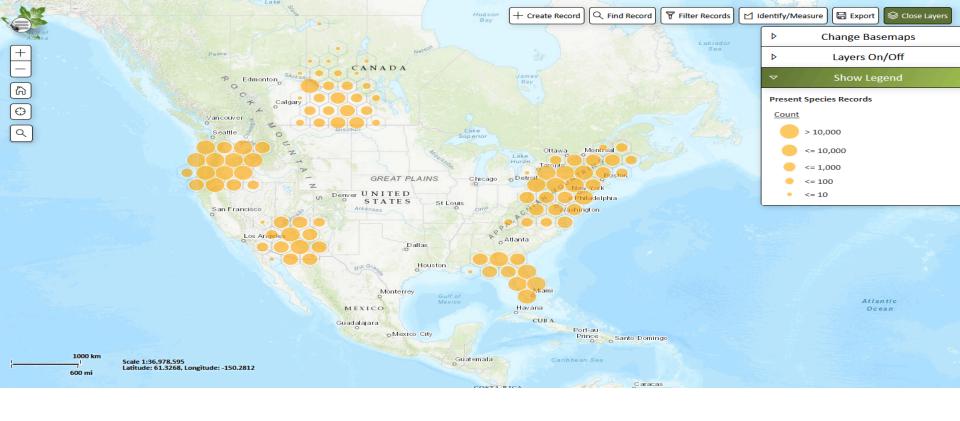


Starry Stonewort

And: Lake Management Tracker app?

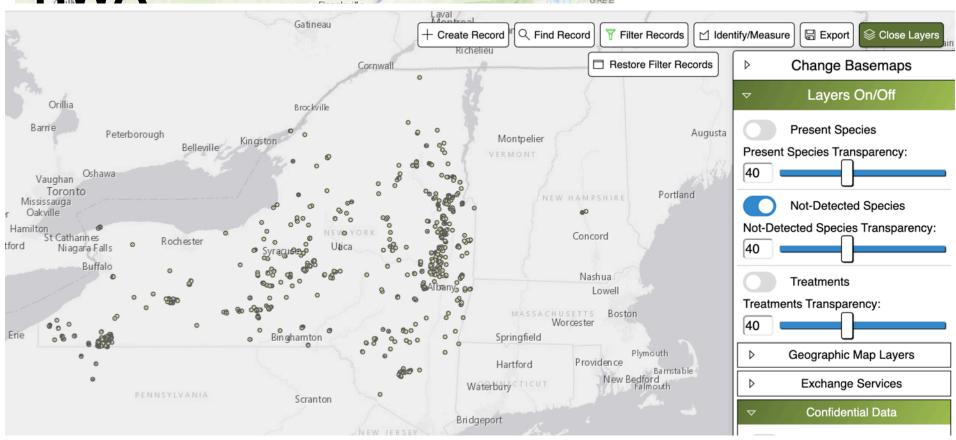
Developing your own Survey123 app?

- Talk with us ahead of time
- Align fields
- → Backend Crosswalk into iMap



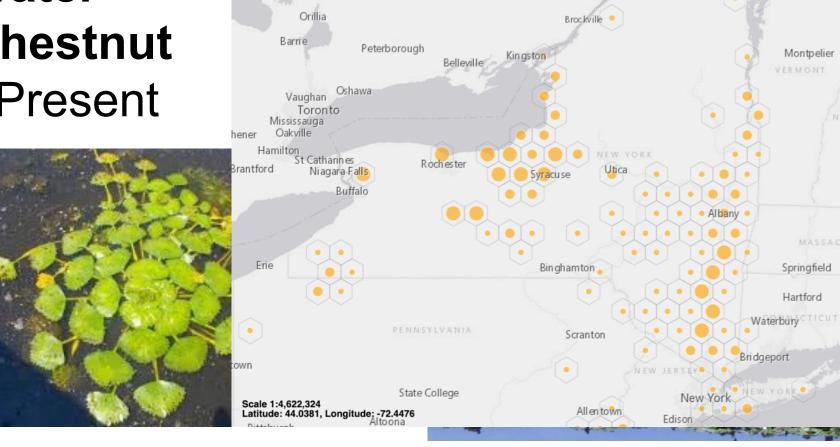
*i*MapInvasives Online www.nyimapinvasives.org

HWA- Not-Detected



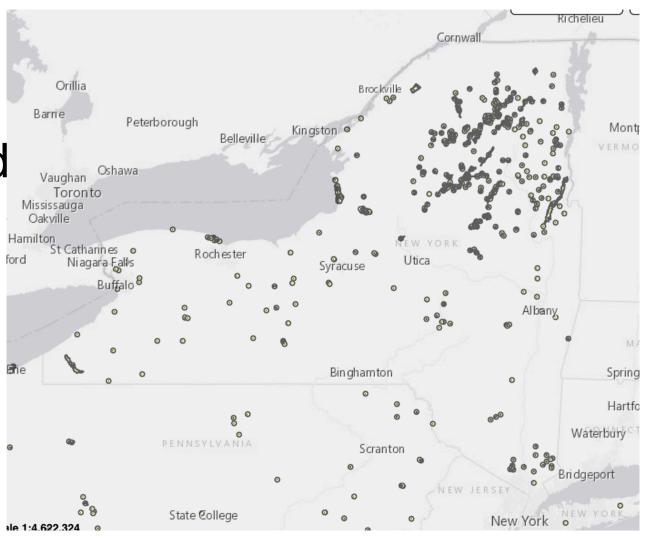
St-Jean-

Water Chestnut - Present

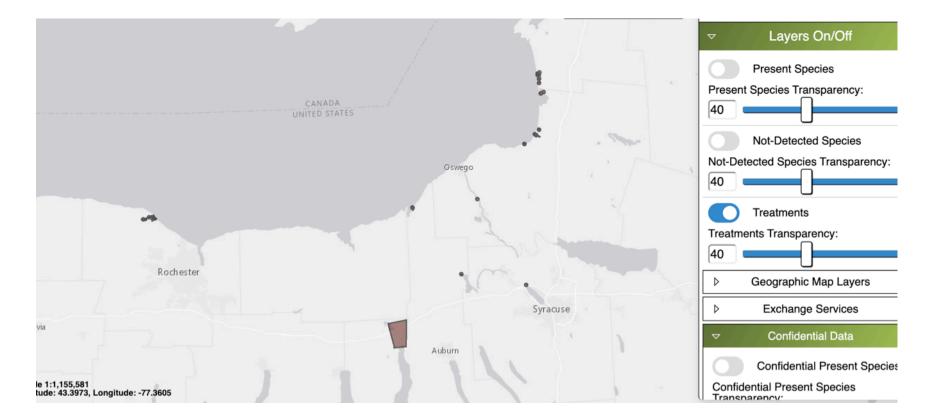


Cornwall

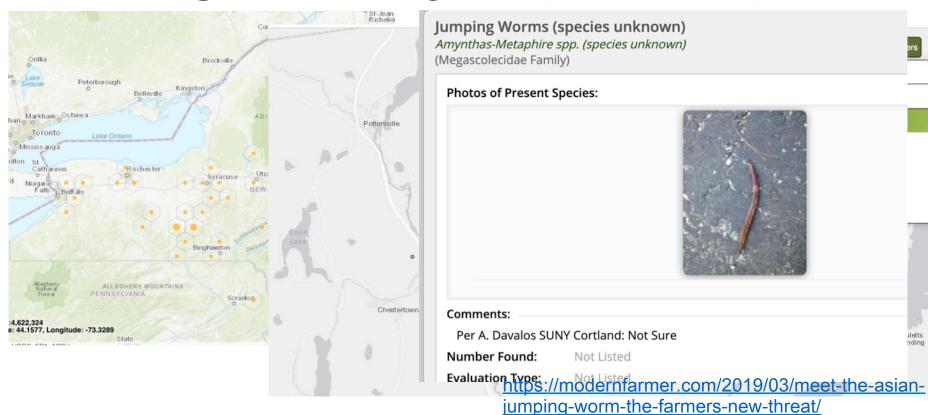
Water Chestnut – Not-Detected



Water Chestnut – Treatment



Jumping Worm – good photos important



Tree-of-Heaven and Spotted Lanternfly









This Invasive Bug Could Hurt Pa. Beer and Wine Production

The spotted lanterfly feeds on more than 65 species of plants (including vegetables) and is a threat to timber, tree fruit orchards, grape, stone fruit and berry production — plus, researchers are now saying that it can kill hops. Read: It's threatening to hurt Pennsylvania beer and wine production.

https://www.phillymag.com/news/2018/08/23/spotted-lanternfly-wine-beer/

SLF - Confidential

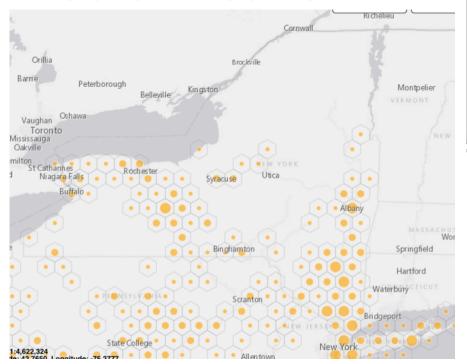
Vaughan Oshawa
Toronto
Mississauga
Oakville
milton
St Catharines
J Niagara Falls
Rochester
Syracuse
Utica

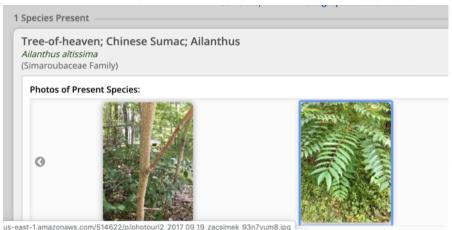
Binghamton





Tree of Heaven

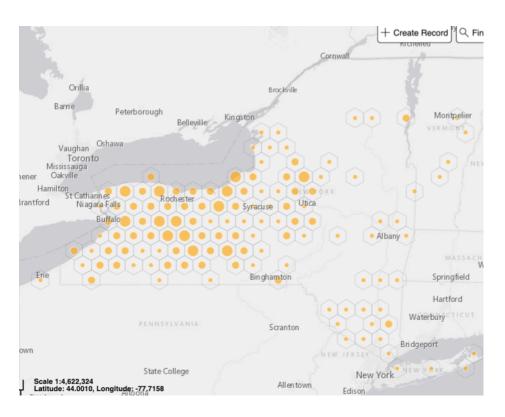








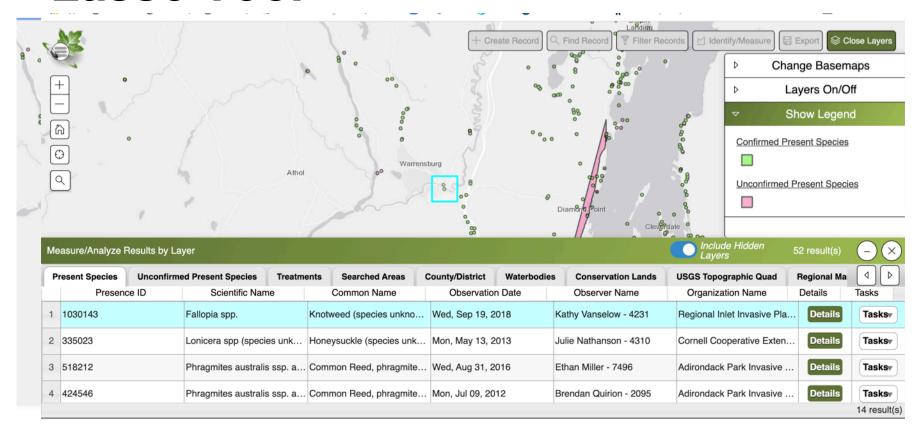
Giant Hogweed → Change over Time

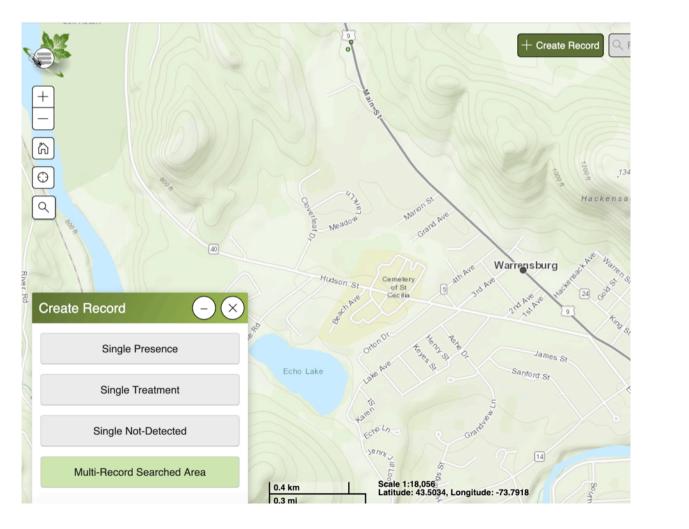


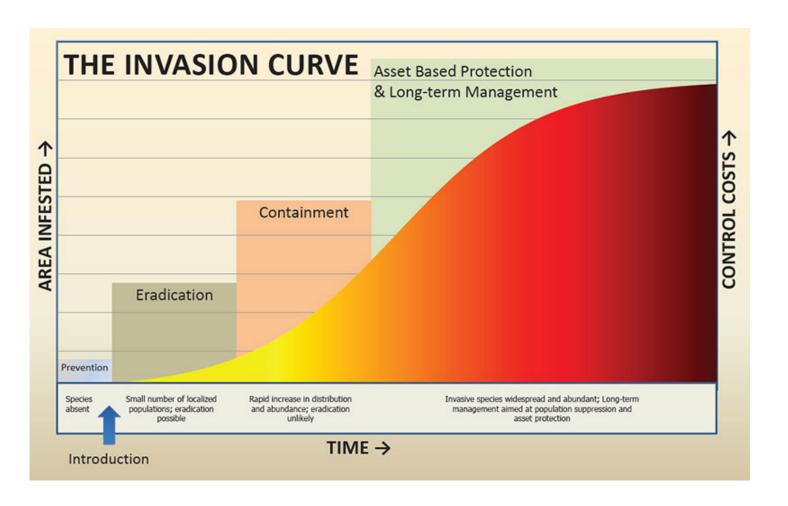
- □ Treatment
- □ Presumed Eliminated

Drummondville Pem broke + Create Record Q Find Record Filter Records ✓ Identify/Measure Gatineau **Hydrilla**Presence Restore Filter Records Change Basemaps Layers On/Off Show Legend ected Orillia Brockville **Present Species Records** Peterborough Kingston @ Count Filter Records | 🗹 Identif Oshawa > 10,000 Vaughan Restore Filter Records Toronto Mississauga <= 10,000Richelieu Oakville Orillia <= 1,000 St Catharines o Rochester <= 100 Syracuse Barrie Ni agara Falls Peterborough <= 10 Albany, Not Detected Species Toronto Mississauga Oakville Kitchener Binghamton Springfield Plymouth St Catharines Roch Providence Hartford Brantford Ni agara Falls Barnstable. Waterbury PENNSYLVANIA Bridgeport Albany Binghamton Springfield Hartford Binghamton Spri Waterbury Har Waterbury Bridgeport e 1:4,622,324 Scranton ude: 43.1424, Longitude: -74.8392 Bridgeport State College

"Lasso Tool"







Email Alerts



Active

"APIPP - JK & Bohemian & Giant" Daily Alert

Email Settings:

Alert Name: APIPP - JK & Bohemian & Giant

Frequency: Daily

Send an email digest every day at: 7:00 AM

Criteria:

Alert on: New/modified records, including unconfirmed

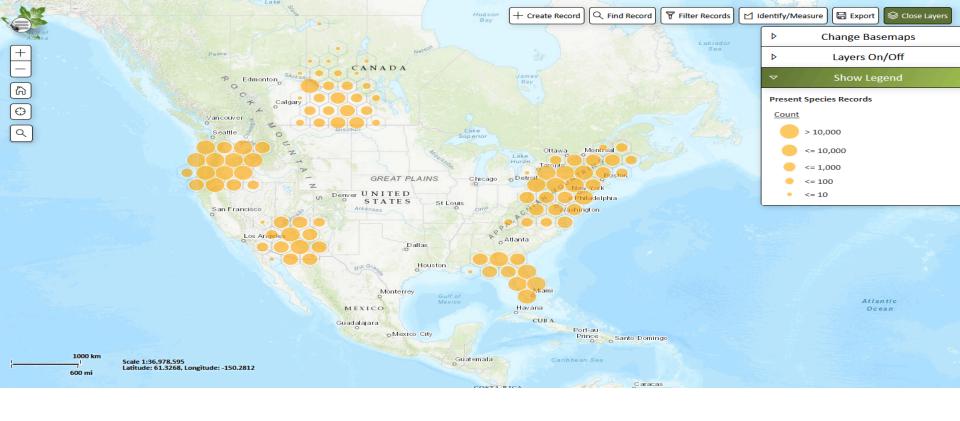
Species: Species Name Location: Geography Type

Species Names: Japanese Knotweed (Polygonum cuspidatum), Giant Knotweed (Fallopia sachalinensis), Bohemian knotweed (Polygonum x bohemicum)

Geography Type: Regional Management Partnership

Regional Management Partnership: APIPP

Created On: 7/1/2019 Last Updated On: 9/16/2019



*i*MapInvasives Online www.nyimapinvasives.org

NOM

Web Application



The whole Database: On the web

Browser-based interface for your desktop or mobile phone, with connectivity

Next "#3"

Mobile App



Collecting Simple Data: iMap Mobile app

Download to your mobile phone or tablet, *no connectivity needed to collect data*

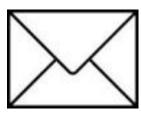
iMap Online to do list:

- Open your web browser via smart phone or tablet
- ☐ Type in www.nyimapinvasives.org
- ☐ Login
- ☐ View map and check out tools (i.e. zoom function, find my location, search, etc.)
- ☐ Change base maps (i.e. topographic, satellite, etc.)
- Use the lasso tool
- ☐ Create record "fake species"

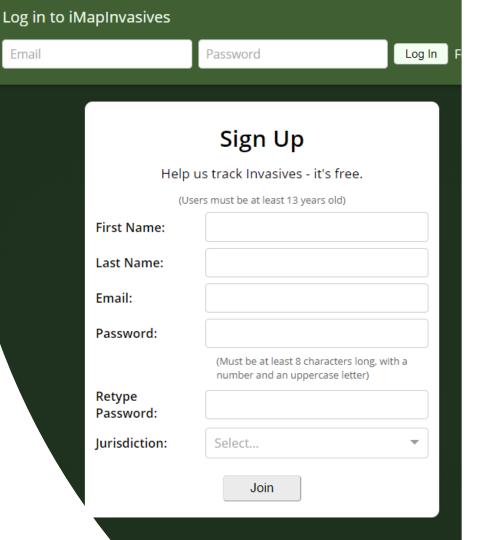
Create an *i*MapInvasives Account at:

www.imapinvasives.org

*Pick your home state



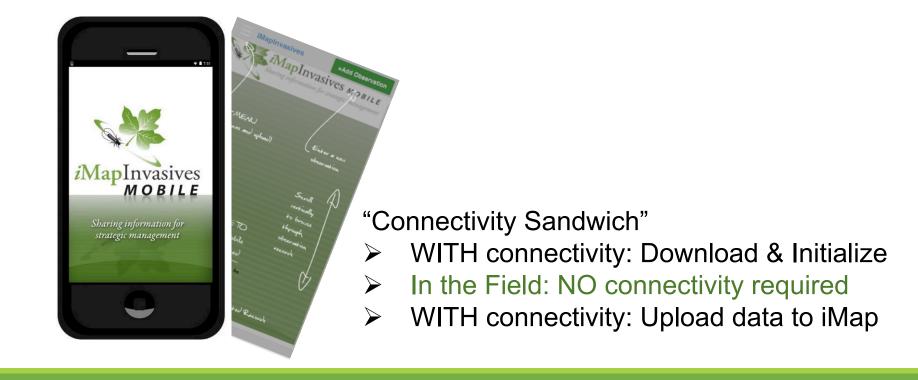
Check your email for the activation link!



iMap Online to do list:

(Completed?)

Open your web browser via smart phone or tablet ☐ Type in www.nyimapinvasives.org □ Login ☐ View map and check out tools (i.e. zoom function, find my location, search, etc.) ☐ Change base maps (i.e. topographic, satellite, etc.) Use the lasso tool ☐ Create record — "fake species"



Mobile Application

iMap Mobile App to do list:

- ☐ Login
- ☐ Set preferences
 - NY
 - Username email address
 - Password; iMap3 password; must set online
 - Retrieve Lists
 - Create Custom species list
- Add an observation for "Fake Species"
- Select and upload the "Fake Species" Record
- □ Check online zoom to location, then:
 - Identify/Measure Tool (aka the "Lasso Tool")
 - "See what's here"



Home Page

From the home page users can add a new observation record, view records already collected and access all other functionality via the Menu.









Preferences

Jursidction Spec

iMapIn sives Email Addre

colleen.lutz.77@amail.com

(Must match your iMapInvasives password)

Create Account or Reset Password

Species Name:

iMapInvasives Password:

(Enter the email agoress associated with your iMapinvasives

Retrieve iMap Lists

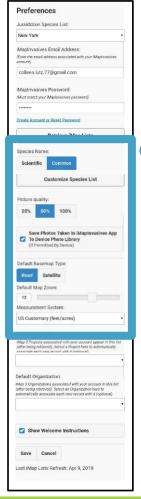
New York

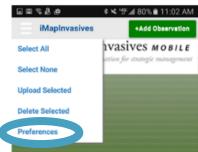
Preferences

"Preferences" are your customized user settings. You will need to fill in your iMapInvasives account information to upload reports to the database.

- Select Jurisdiction: New York; used across North America
 User ID: Email (must match online account!)
- 3. Password: Make sure you reset if you had iMap2 account
- 4. Create Account or Reset password

 → Opens web browser!
- 1. Retrieve iMap Lists (for your Jurisdiction)
 App will notify you once completed





Species Name:

Scientific

Picture quality:

Common

Customize Species List

100%

To Device Photo Library

Default Basemap Type:

Default Map Zoom:

Measurement System:

US Customary (feet/acres)

Road

Permitted By Device)

Satellite

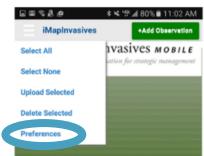
save Photos Taken In iMapInvasives App

Preferences

"Preferences" are your customized user settings. You will need to fill in your iMapInvasives account information to upload reports to the database.

- Species name: View lists as scientific or common names
- Create a custom list (optional)
 Can base on what you know, what's in your region
 Makes creating species observations faster
- 3. Picture Quality: Size of photo being uploaded Recommend 100% for best quality ⊚
- 4. Save your picture to your devices photo library This requires permission from the device





Default Project:

Default Organization:

Save

Map 3 Projects associated with your account appear in this list after being retrieved). Select a Project here to automatically

IMap 3 Organizations associated with your account in this list

'after being retrieved'). Select an Organization here to

Show Welcome Instructions

Last iMap Lists Refresh: Apr 9, 2019

Cancel

ete each new record with it (ontione()

Preferences

"Preferences" are your customized user settings. You will need to fill in your iMapInvasives account information to upload reports to the database.

1. Default project

Only projects users has been added to will appear PROJECT LEADERS:

Check your projects

Ensure your users have been added

2. Default organization

Must set-up online

Remember to save your changes!

Home Page

From the home page users can add a new observation record, view records already collected and access all other functionality via the Menu.

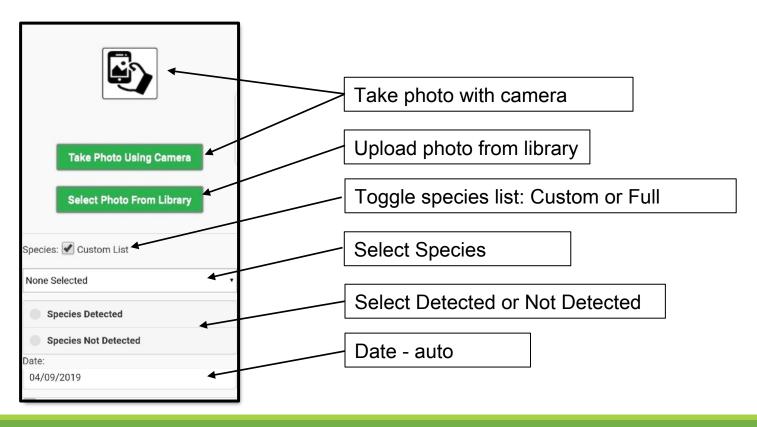


+Add Observation



Observation Record

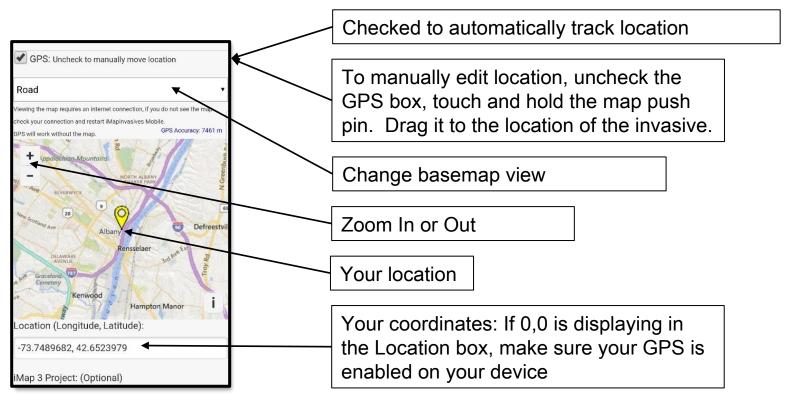
Make new reports of invasive species and edit existing records here!





Observation Record

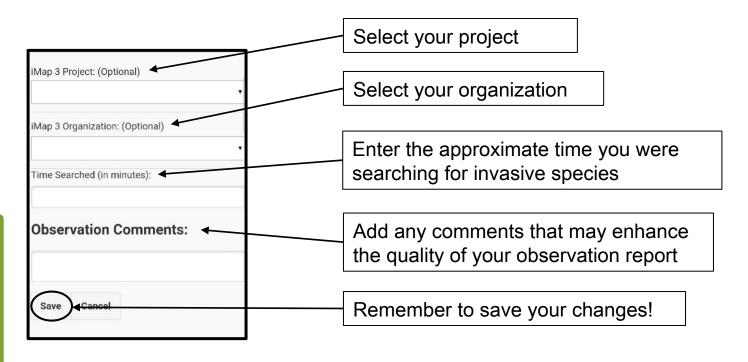
Make new reports of invasive species and edit existing records here!

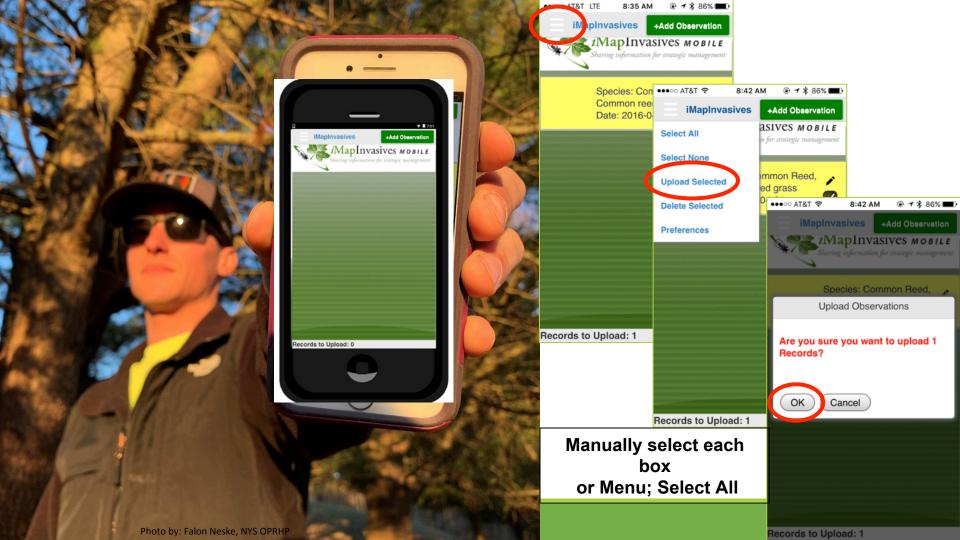




Observation Record

Make new reports of invasive species and edit existing records here!





Completed':
iMap Mobile App to do list:

- ☐ Login
- □ Set preferences
 - NY
 - Username email address
 - Password; iMap3 password; must set online
 - Retrieve Lists
 - Create Custom species list
- Add an observation for "Fake Species"
- Select and upload the "Fake Species" Record
- □ Check online zoom to location, then:
 - Identify/Measure Tool (aka the "Lasso Tool")
 - "See what's here"



Can you identify this species?
What are some key features in the photos?
How could you improve the photos?





Not-so-Great Photos!

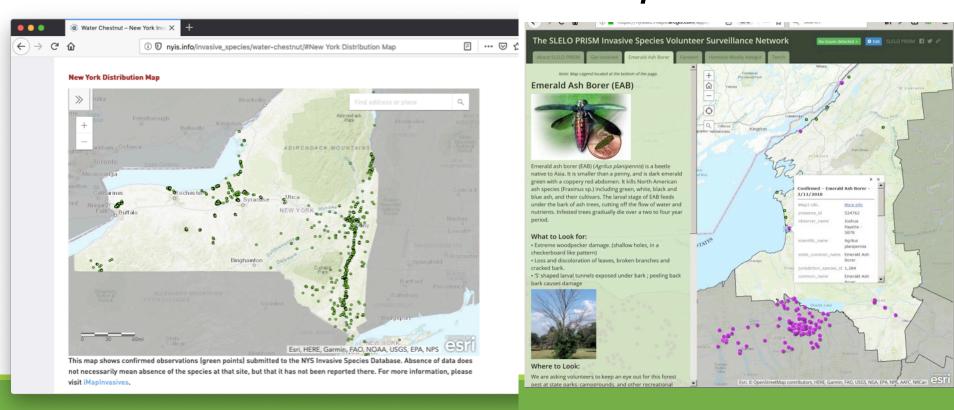


- iMap3 Online
- ш iMap Mobile App
- im. → iMap3 Web Map Services (WMS)

 im.

Web Map Services (WMS)

→ Custom Views of iMap data





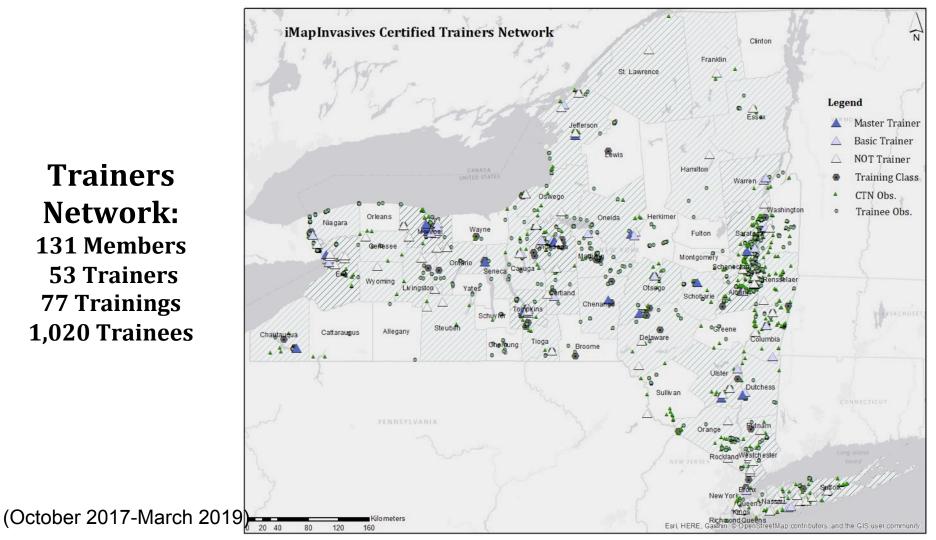
Development and Assessment of the iMapInvasives Certified Trainers Network

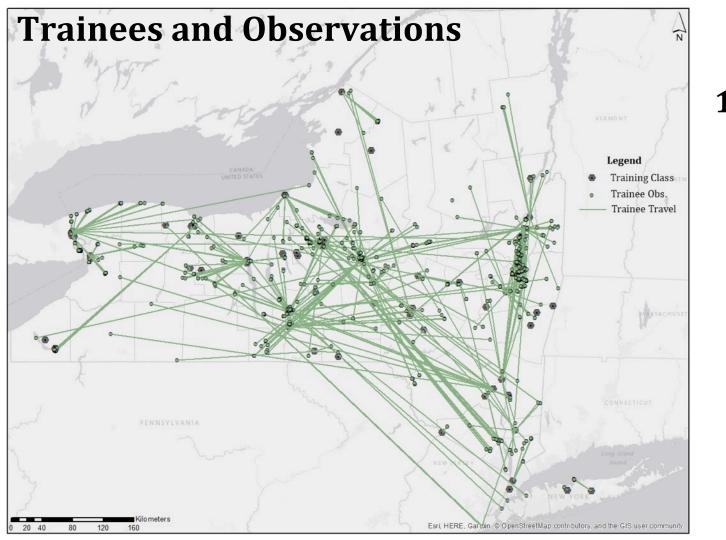
To become a Certified Trainer, individuals were required to

- 1) attend a standardized initial training webinar
- 2) submit a certification plan
- 3) host their first training.
 - > Basic Trainer:
 - Host 1+ trainings in your community
 - Host 1+ training per year
 - > Master Trainer:
 - Host 3+ trainings in your community
 - Host 2+ training per year



Trainers Network: 131 Members 53 Trainers 77 Trainings 1,020 Trainees





1,020 Trainees 24.1 % Reporters 2,942 Total Obs.

Travel:

Minimum: .06 km

Maximum: 482 km

Average: 39.7 km

Questions? Thank You!!

iMapInvasives Help Resources

iMap Network help documents www.imapinvasives.org/help

New York iMap Resources www.nyimapinvasives.org

iMap Email iMapInvasives@dec.ny.gov



