



INVASIVE SPECIES MANAGEMENT

SAINT LAWRENCE
EASTERN LAKE ONTARIO

Land Protector's Program





INVASIVE SPECIES MANAGEMENT

SAINT LAWRENCE
EASTERN LAKE ONTARIO

SLELO PRISM is
Funded by NYS EPF
Administered by NYS DEC
Hosted by
The Nature Conservancy

Where We Work:

Oneida
Oswego
Jefferson
Lewis
St. Lawrence

What We Do:

Collaborate with our
partners and members of the
community to protect our lands
and waters from the impacts of
invasive species.



www.sleloinvasives.org

Follow us on Facebook, Instagram, and YouTube



Department of
Environmental
Conservation

The Nature
Conservancy 
Protecting nature. Preserving life.®

What is an Invasive Species?

An invasive species is a plant, animal, or other living organism that is **not native** to an area and **causes harm** to the environment, economy, or human health.



**Not all
non-native
species are
invasive**



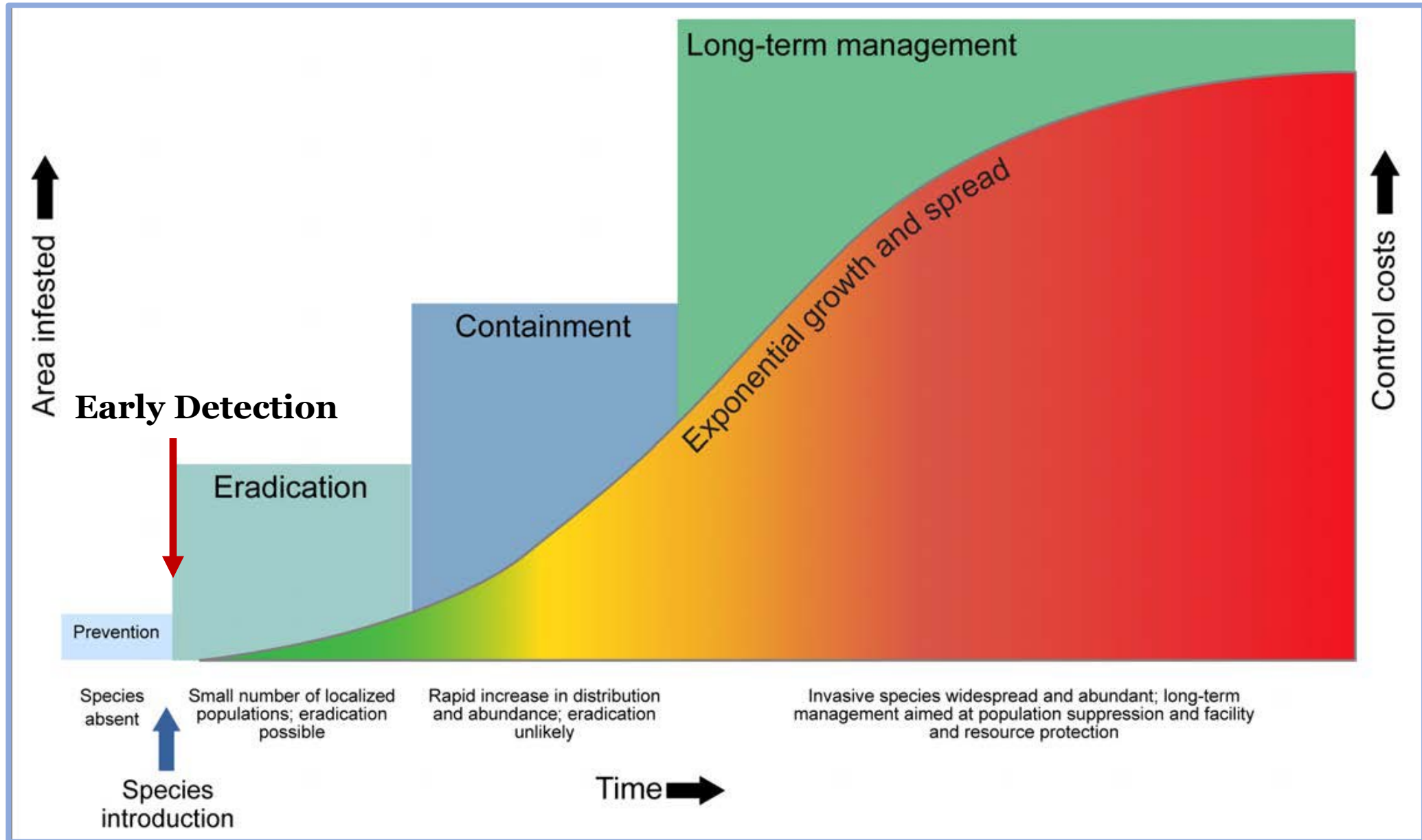
**What makes
invasive species
more impactful?**





How are Invasive
Species Introduced?

Why is Early Detection Important?



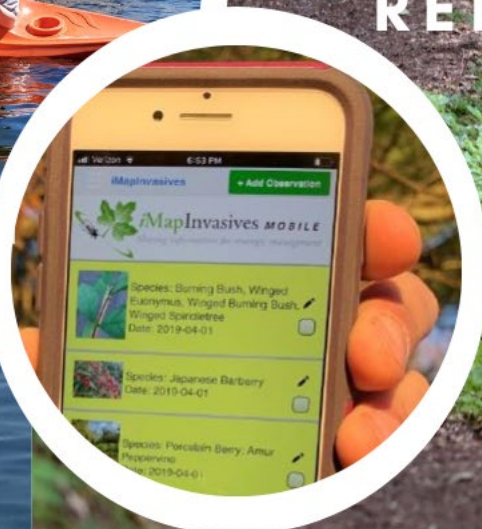


What if you could help protect thousands of acres
of land just by taking a walk?



SLELO PRISM

Invasive Species Volunteer Surveillance Network



EXPLORE
OBSERVE
REPORT

- Enhance early detection efforts.
- Focused on priority species, including forest pests, terrestrial and aquatic plants/animals.
- Currently separated into Land/Water Protector programs.



**INVASIVE SPECIES
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Become a Land Protector



- ✓ Join a training
- Use what you learn today to conduct surveys and report your observations to iMap.
- Adopt a survey site or choose your own site
- Visit your adopted site at least once a season.
- Join optional field sessions
- Record your time!





Land Protectors Priority Species:

1. Beech Leaf Disease
2. Elm Zigzag Sawfly
3. Spotted Lanternfly
4. Porcelain Berry
5. Invasive Bittersweet
6. Yellow Iris
7. Swallowwort

•Observation data helps strategize management efforts.



Striping

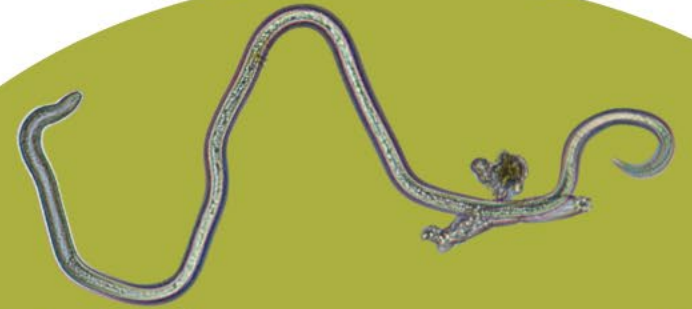


Curling or leathery texture



Darkened stripes in canopy

Beech Leaf Disease



Litylenchus crenatae mccannii,
is the invasive nematode believed to
be a cause of Beech Leaf Disease.

Beech Tree Identification Chart

Leaves



Seeds



Flowers



Beech Tree



Bark



BEECH LEAF DISEASE SIGNS



Striping



Curling or leathery texture



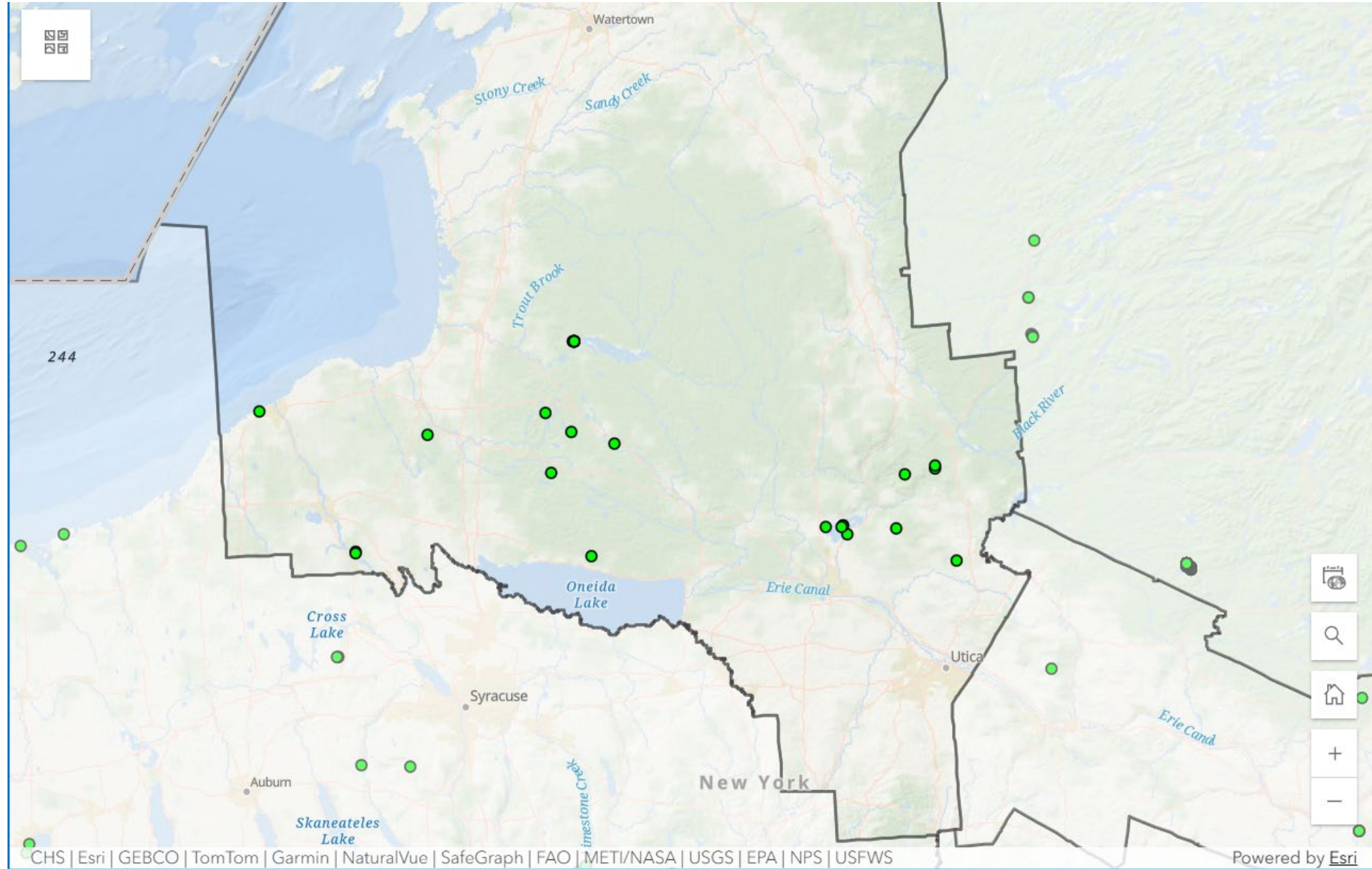
Darkened stripes in canopy

Survey Tips:

- Look up into the canopy through the sunlight.
- Look for dark bands that run along the leaf vein.
- If found, take photos of the underside of the leaf with the light shining through.
- If reporting to iMap, look for beech leaf disease nematode

Beech Leaf Disease iMap Presence Records in SLELO

- Oswego
- Oneida





Elm Zigzag Sawfly

Aproceros leucopoda



Elm Tree Identification



70 - 100 feet



Leaf



Seed



Flower



Bark



Figure 3. Though small (larvae along left leaf margin), large populations of elm zigzag sawfly can defoliate elm trees.

Kelly Oten, NC State University



Figure 4. This American elm is severely defoliated by the elm zigzag sawfly.

Kelly Oten, NC State University



Figure 5. Young elm zigzag sawfly larvae create zigzag-shaped damage in elm leaves.

Kelly Oten, NC State University



Figure 6. Older elm zigzag sawfly larvae consume more leaf material, leaving a patchy appearance. Many leaves are entirely consumed with the exception of the midvein.

Kelly Oten, NC State University

EZS Survey Tips:

Survey: May-September

What to look for: Zig-zag feeding pattern between leaf margins or heavily defoliated leaves. Small pale green larvae with dark bands on their head in spring, net-like cocoons on the underside of leaves in summer.

Elm Zigzag Sawfly iMap Presence

- Present in St. Lawrence County (SLELO region)

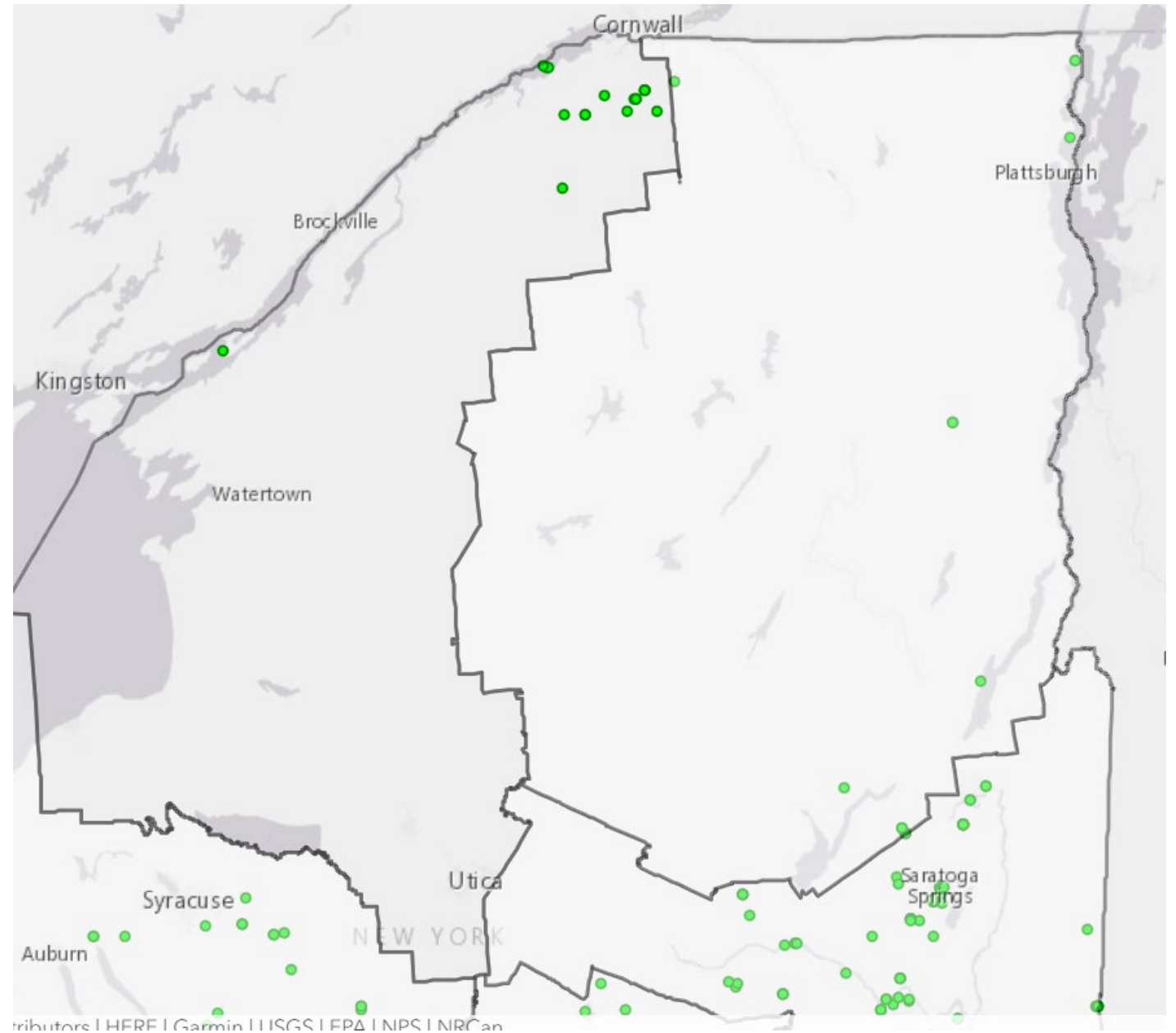




Photo: Emalie Swackhamer, Penn State Extension

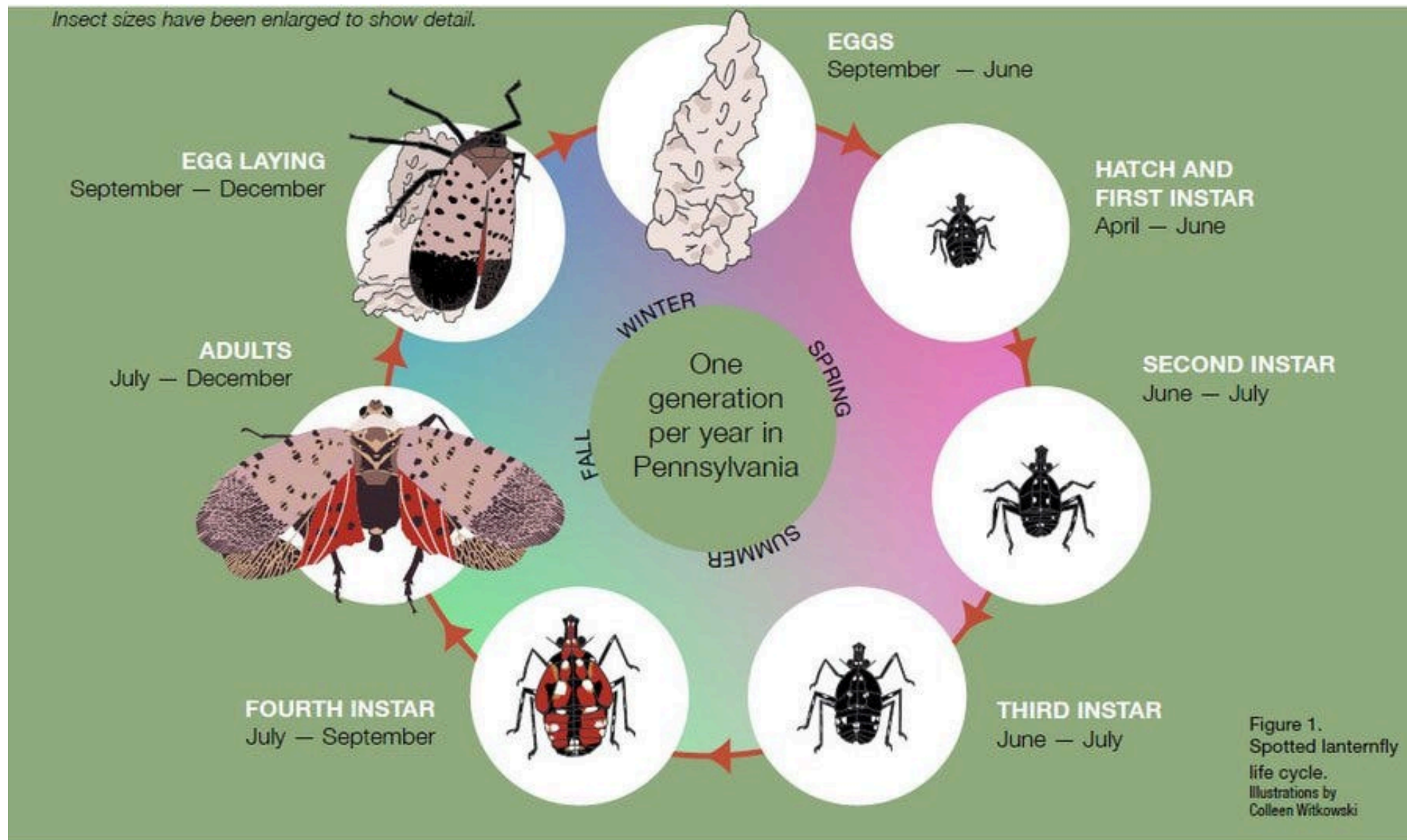


Spotted Lanternfly

Lycorma delicatula

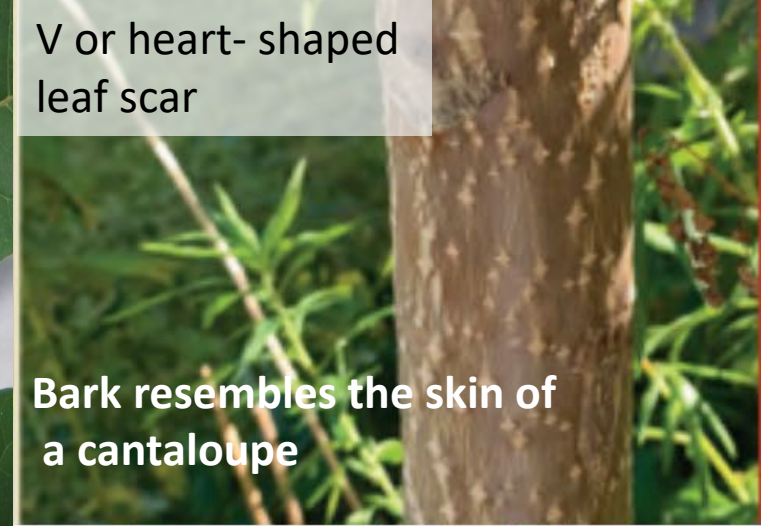


Insect sizes have been enlarged to show detail.



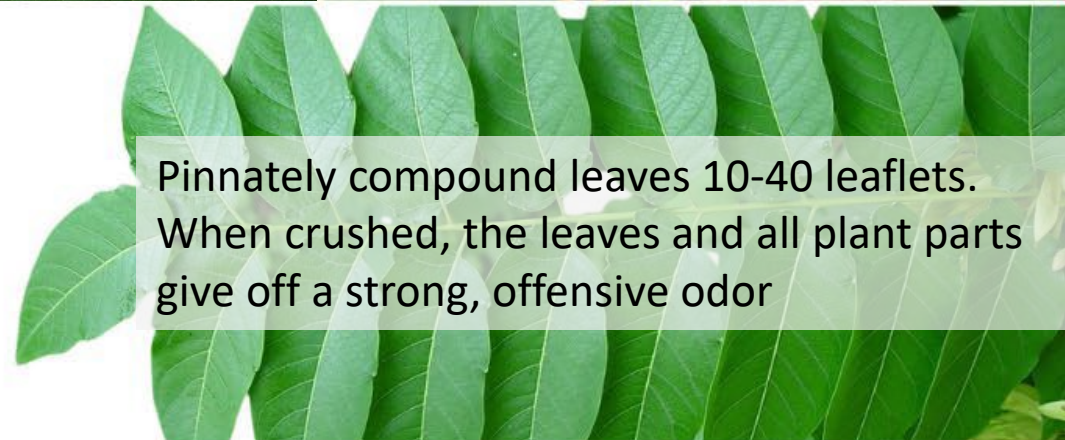


V or heart- shaped
leaf scar



Tree of Heaven

Ailanthus altissima



Pinnately compound leaves 10-40 leaflets.
When crushed, the leaves and all plant parts
give off a strong, offensive odor

Signs of SLF Presence & Survey Tips



Fall-Spring:
Look for egg masses. Inspect smooth surfaces exposed to the outdoors



Spring-Fall :
Look for nymphs and adults. Prioritize areas with Tree of heaven, and other preferred feeding plants.

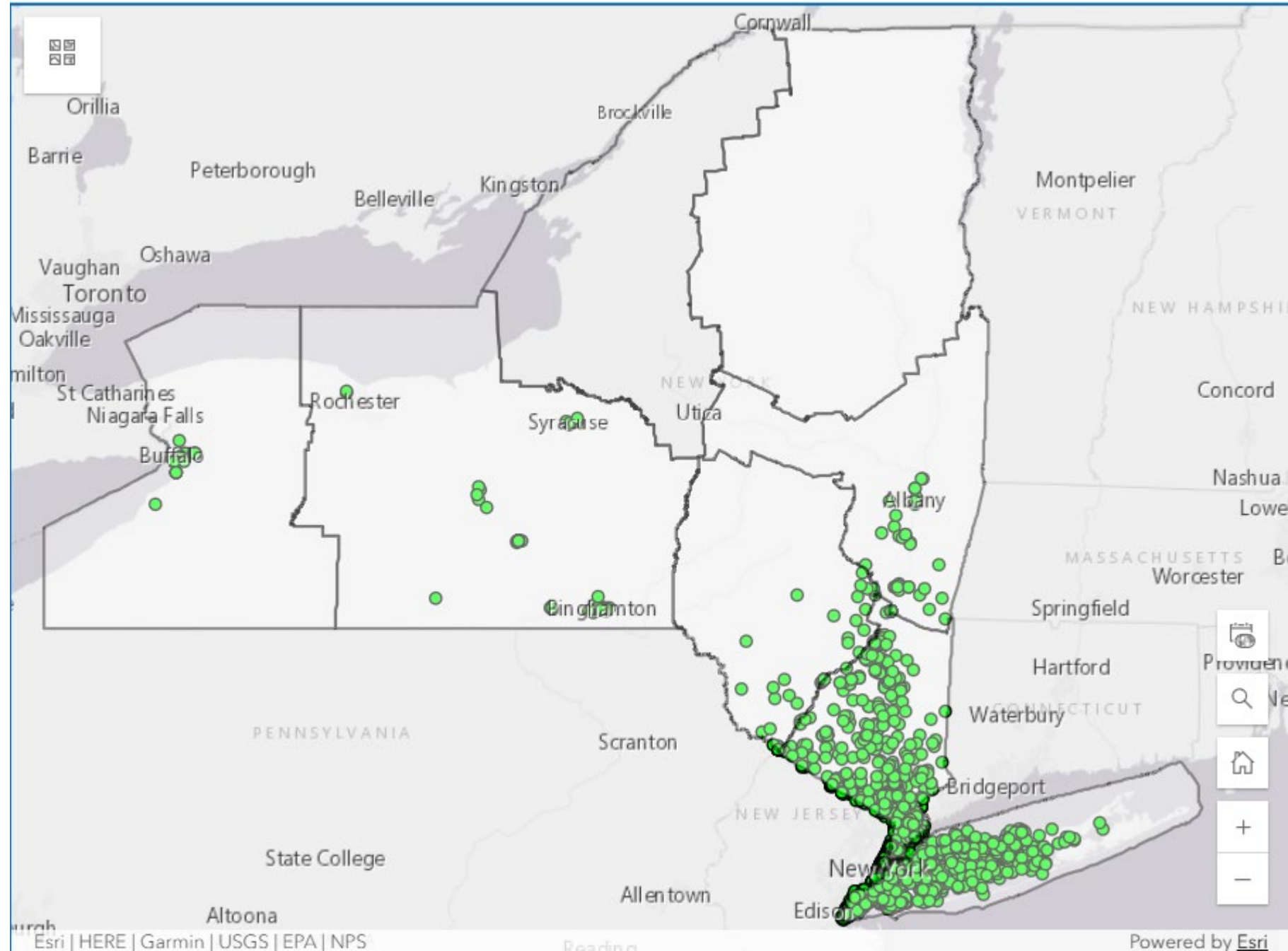


Check for sap oozing from tree trunks and honeydew buildup under plants with black sooty mold.



SLF iMap Presence Records

- Not yet detected in SLELO region
- Closest population: Onondaga County-Syracuse.





Leaves can be simple with serrated edges.



Vines grow densely over other vegetation



Berries are purple/blue with speckles and a shine similar to porcelain- hence the name.



Bark has lenticels (raised pores)
Bark does not peel in narrow strips like native grape vines.
Pith is white (native grape has a brown pith).



Leaves can be deeply lobed.



Porcelain Berry

Ampelopsis brevipedunculata



Porcelain Berry (*Ampelopsis brevipedunculata*)



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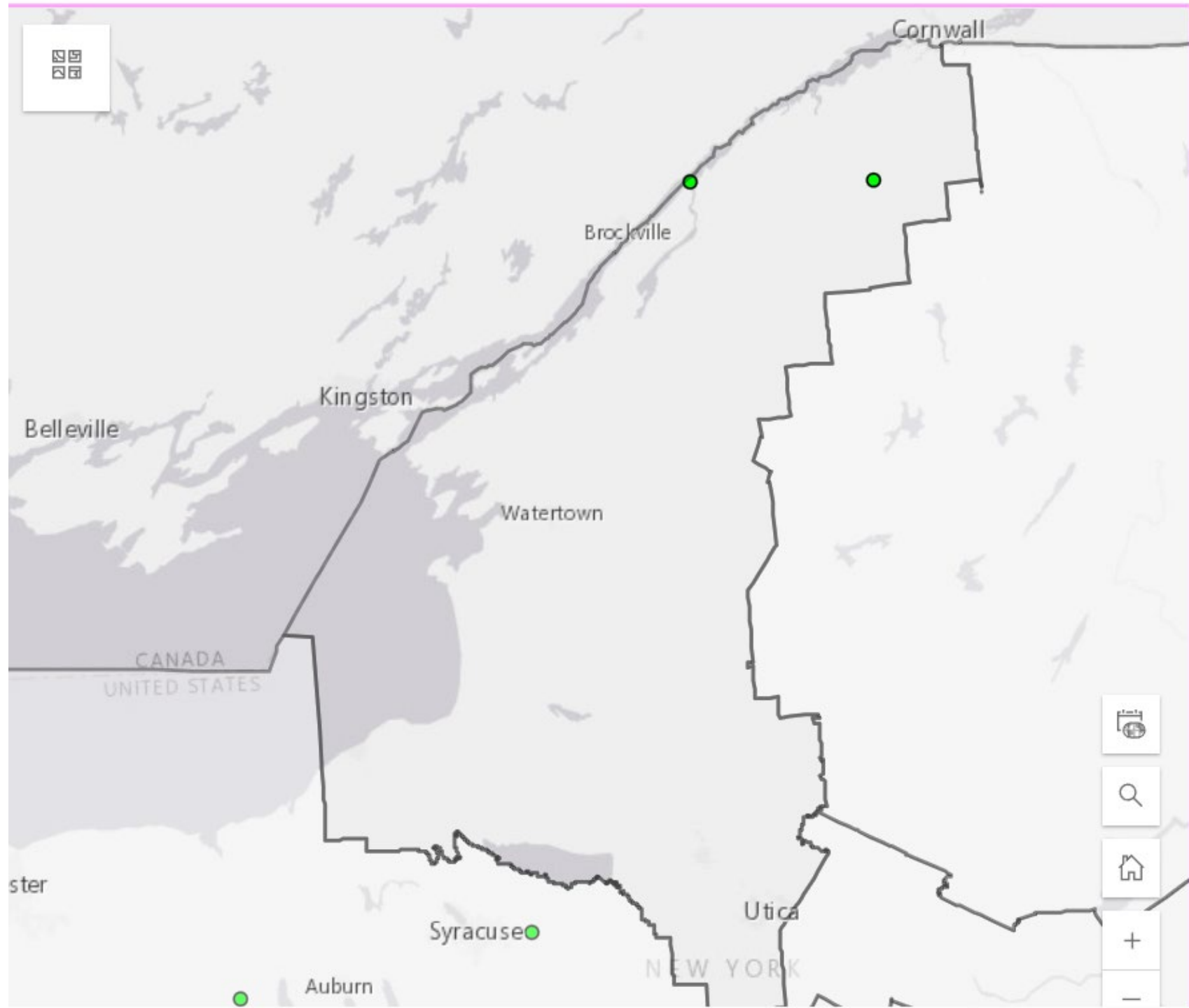
Berries are purple/blue with speckles and a shine similar to porcelain- hence the name.



Leaves can be deeply lobed.

Porcelain Berry iMap Presence

- Present in St. Lawrence County
- Potsdam/Ogdensburg





Photos: Bob Stranberg



Invasive Bittersweet

Celastrus orbiculatus



Invasive Bittersweet

Celastrus orbiculatus



NATIVE

American Bittersweet

Celastrus scandens



Invasive Bittersweet Survey Tips

Optimal survey timing:
Autumn (late September to October)

What to look for:

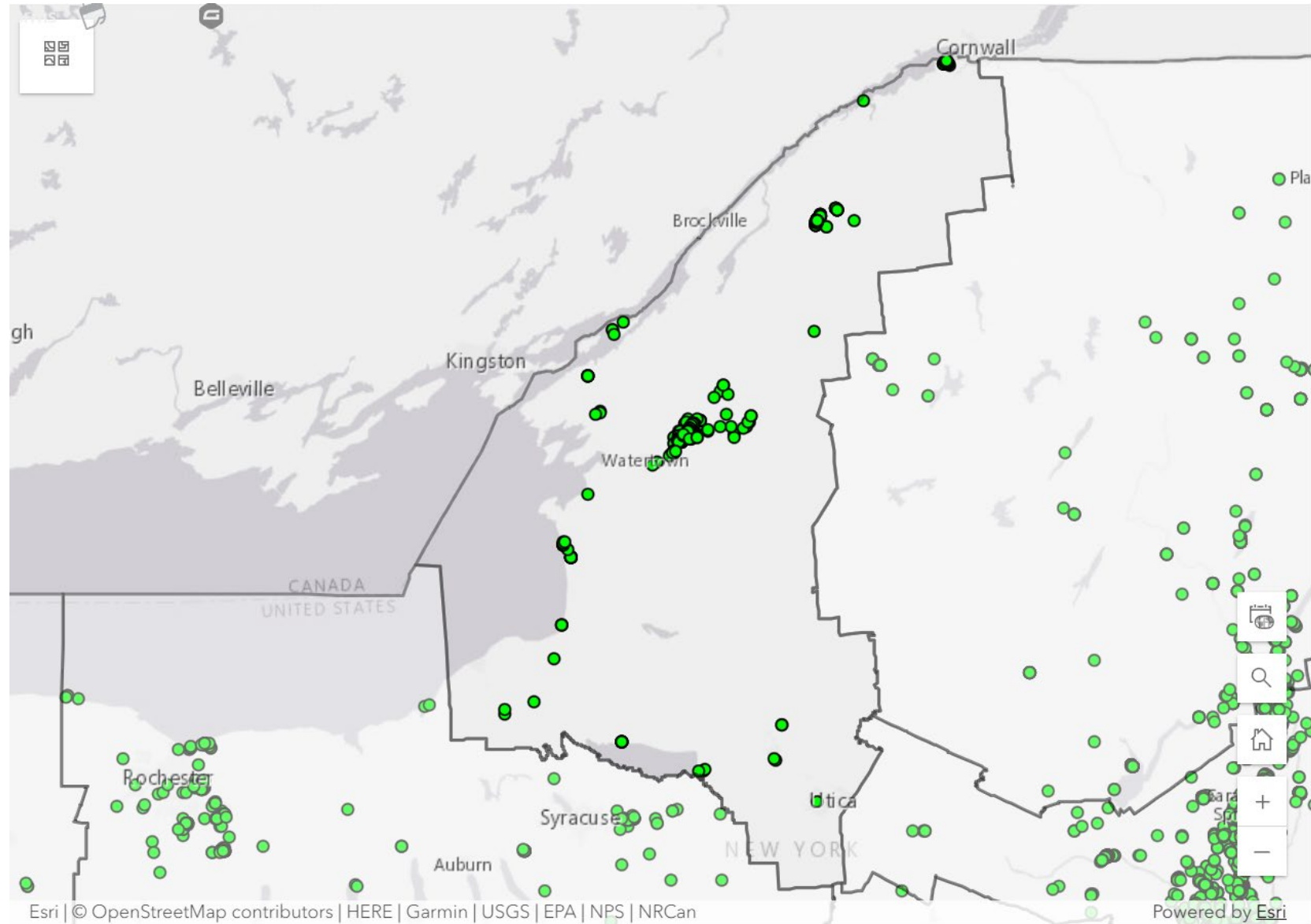
- Focus on disturbed areas, sunny edges, forests, and roadsides.
- Check tree canopy for woody vines
- Look for berries in fall/winter



<https://townofmichianashores.in.gov/2024/10/06/invasive-vines-in-our-woods-get-to-know-the-oriental-bittersweet/>

Invasive Bittersweet iMap Presence in SLELO

- Present in Oneida, Oswego, Jefferson, St. Lawrence Counties





Black & Pale Swallow-wort

Vincetoxicum nigrum, Vincetoxicum rossicum



Pale Swallow-wort

Vincetoxicum rossicum



Flowers have 5 narrow, pink colored petals.



Slender, pointed seed pods



Leaves are oppositely arranged & oval to lance shaped.

Black Swallow-wort

Vincetoxicum Nigrum

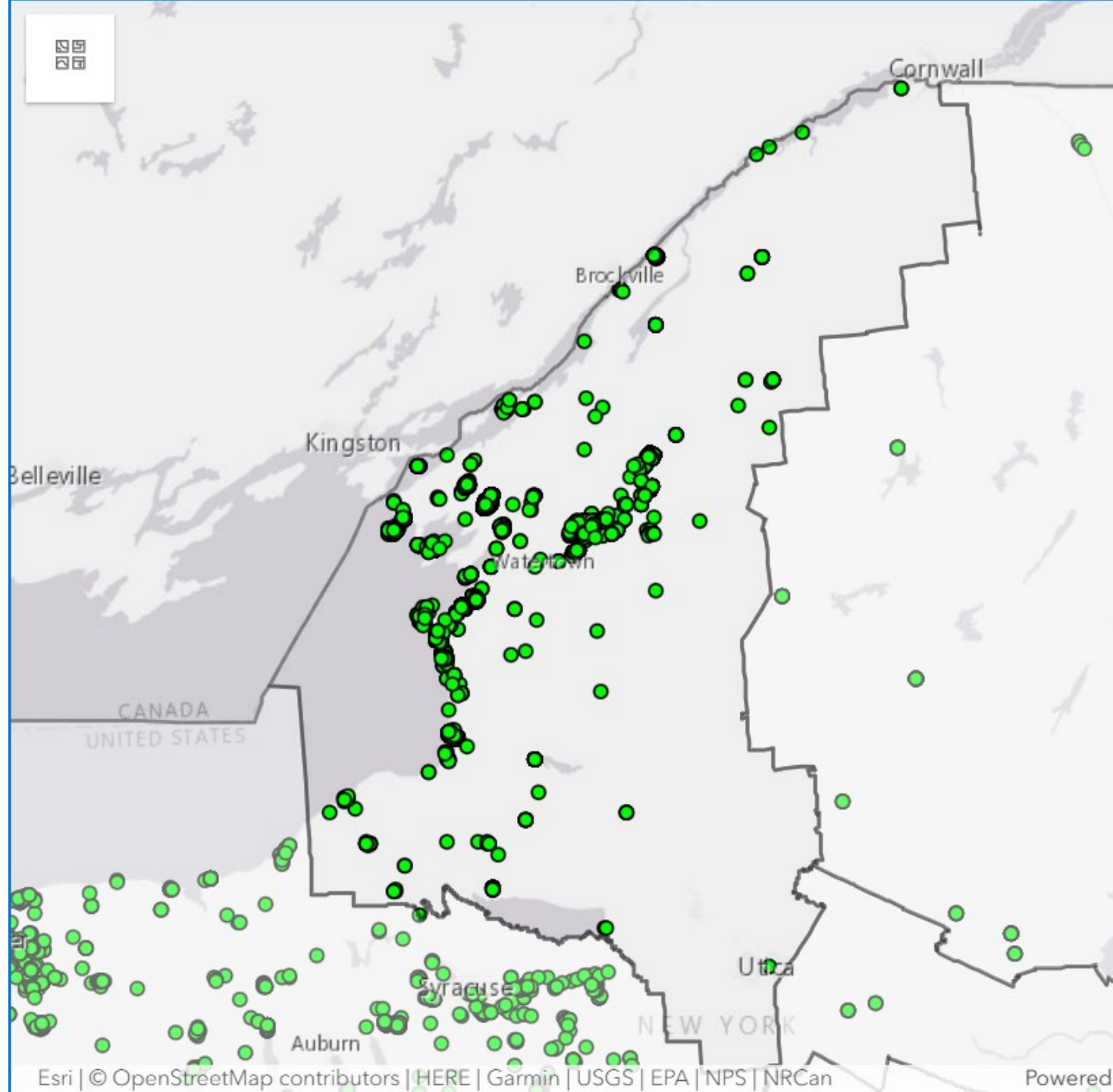


Flowers have 5 wide, dark-purple colored petals.

Leaves are oppositely arranged & oval to lance shaped.

Swallowwort iMap Presence

- Present in throughout SLELO region.
- High populations along Eastern Lake Ontario.



Suggested Survey Sites



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MANAGEMENT**

SAINT LAWRENCE
EASTERN LAKE ONTARIO

"Teaming Up To Stop The Spread of Invasive Species"

www.sleloinvasives.org

OUTDOOR PREPAREDNESS & STEWARDSHIP

THE 10 ESSENTIALS



NAVIGATION & LIGHT

Map, GPS, and headlamp



FIRST AID & REPAIR

Medical kit, knife, and tape



PROTECTION

Sunscreen, shelter, and extra clothes



SUSTENANCE

Extra food, water, and a filter



FIRE

Matches, lighter, or a camp stove

LEAVE NO TRACE



PLAN & PREPARE

Check weather and rules



TRAVEL RIGHT

Stay on marked, durable trails



PACK IT OUT

Dispose of all trash and waste



PROTECT NATURE

Leave artifacts and respect wildlife



BE COURTEOUS

Yield to others and keep noise low

BLD Suggested Survey Sites

- Chateaugay State Forest-
Boylston, NY (Oswego)
- Forest Park- Camden, NY
(Oneida)
- Lake Julia Preserve,
Remsen (Oneida)
- Black River Trail-
Watertown, NY (Jefferson)
- Tug Hill State Forest-
Rodman, NY (Lewis)
- Whitaker Park- Lowville, NY
(Lewis)



Swallowwort Survey Sites

- Tug Hill State Forest-
Rodman/Barnes
Corners, NY (Lewis)
- Whitaker Park- Lowville
(Lewis)



Elm Zigzag Sawfly

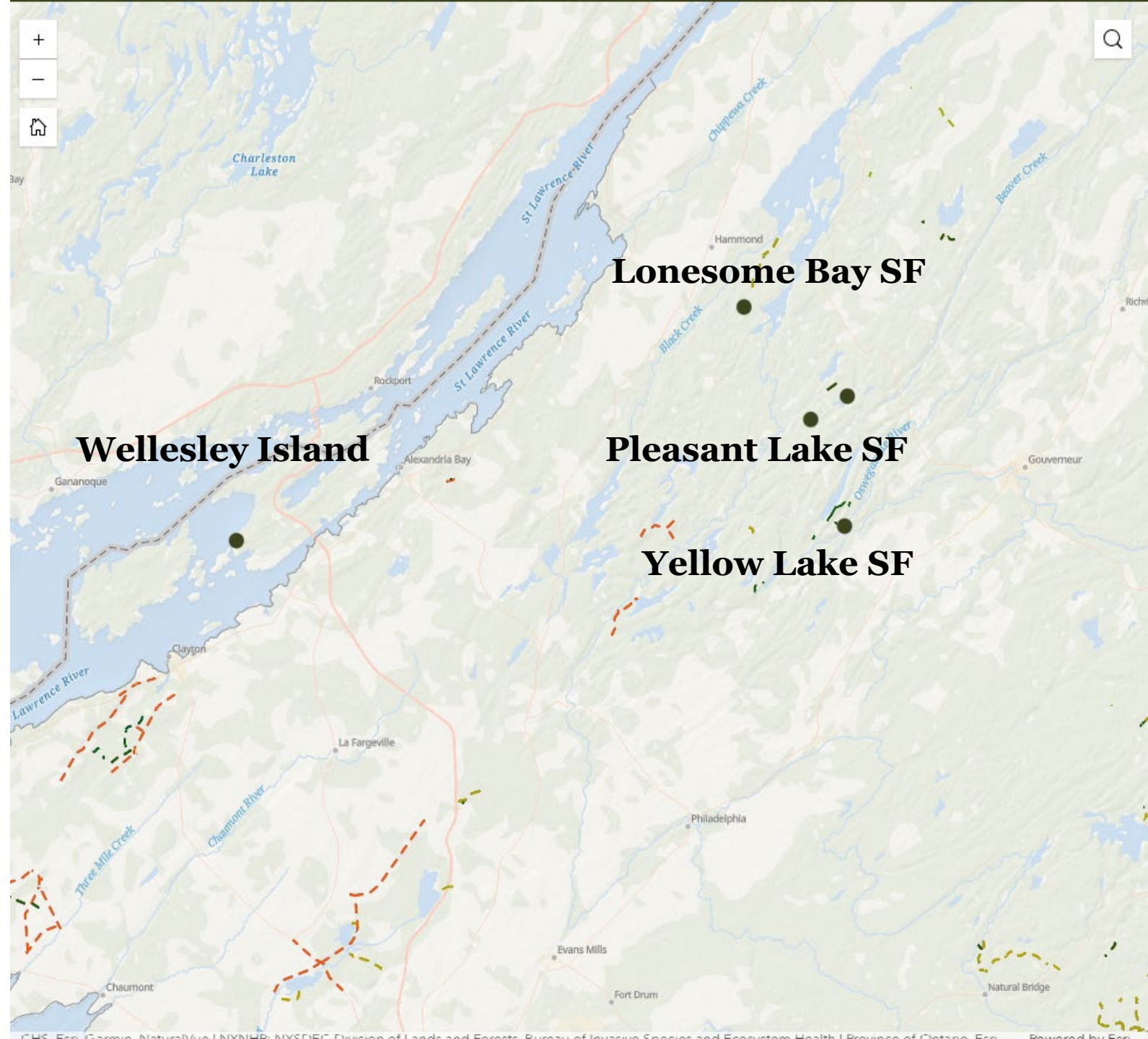
Suggested Survey Sites

Jefferson County:

- Minna Anthony Nature Center-
Wellesley Island

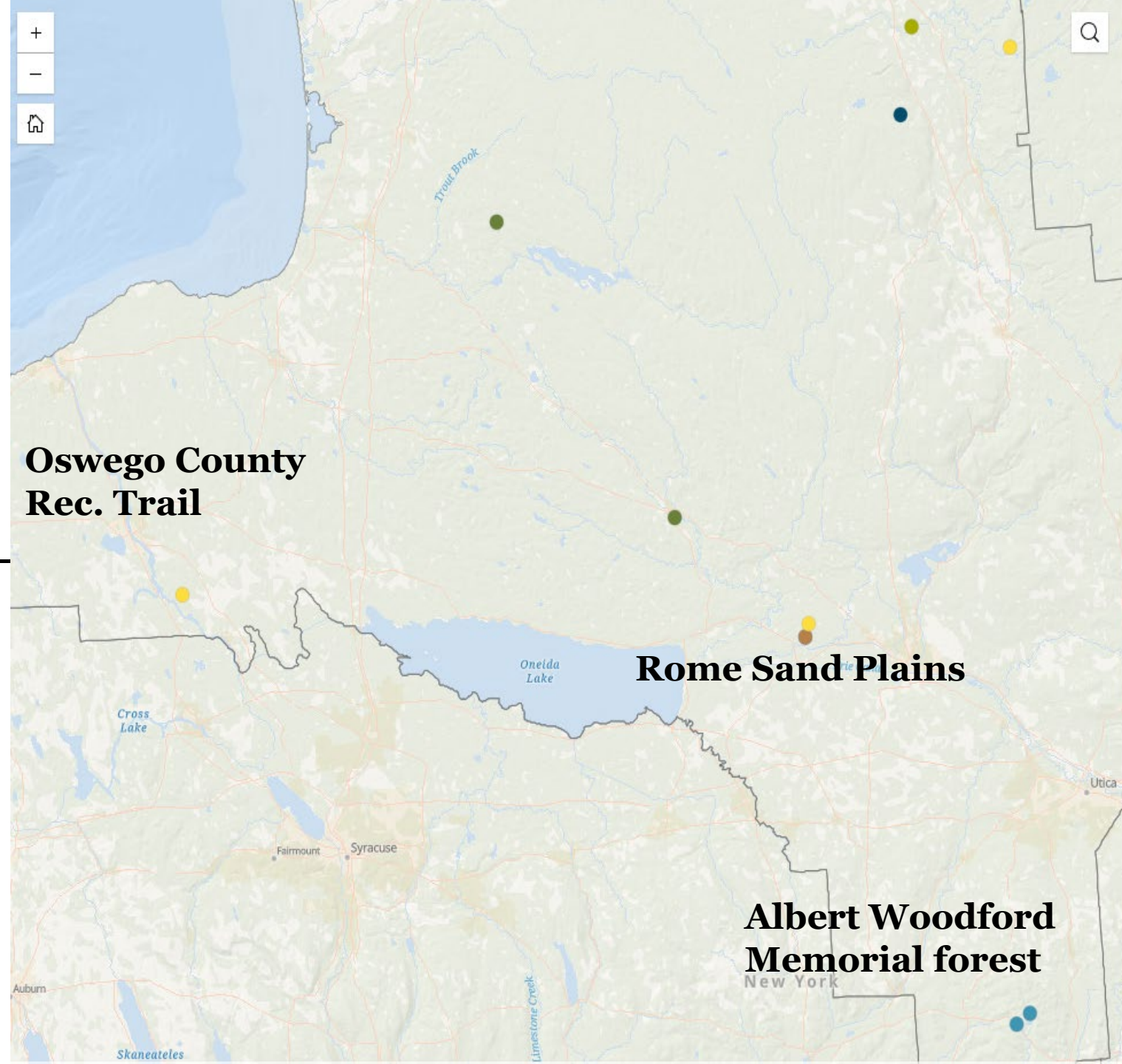
St. Lawrence County:

- Lonesome Bay State Forest-
Hammond, NY
- Pleasant Lake State Forest-
Rossie, NY
- Yellow Lake State Forest-
Rosie, NY



SLF Suggested Survey Sites

- Albert Woodford Memorial Forest- Sangerfield & Bridgewater, NY (Oneida)
- Rome Sands Plans Unique Area- Rome, NY (Oneida)
- Oswego County Recreation Trail- Main Street entrance Central Square (Oswego)



Invasive Bittersweet & Porcelain Berry Survey Sites

- St. Lawrence County:
 - Munter Hiking Trail-Potsdam
 - Southville State Forest-Stockholm
- Lewis County:
 - Lesser State Forest: Carpenter Rd. Trail-Turin



Porcelain Berry Survey Sites

St. Lawrence County:

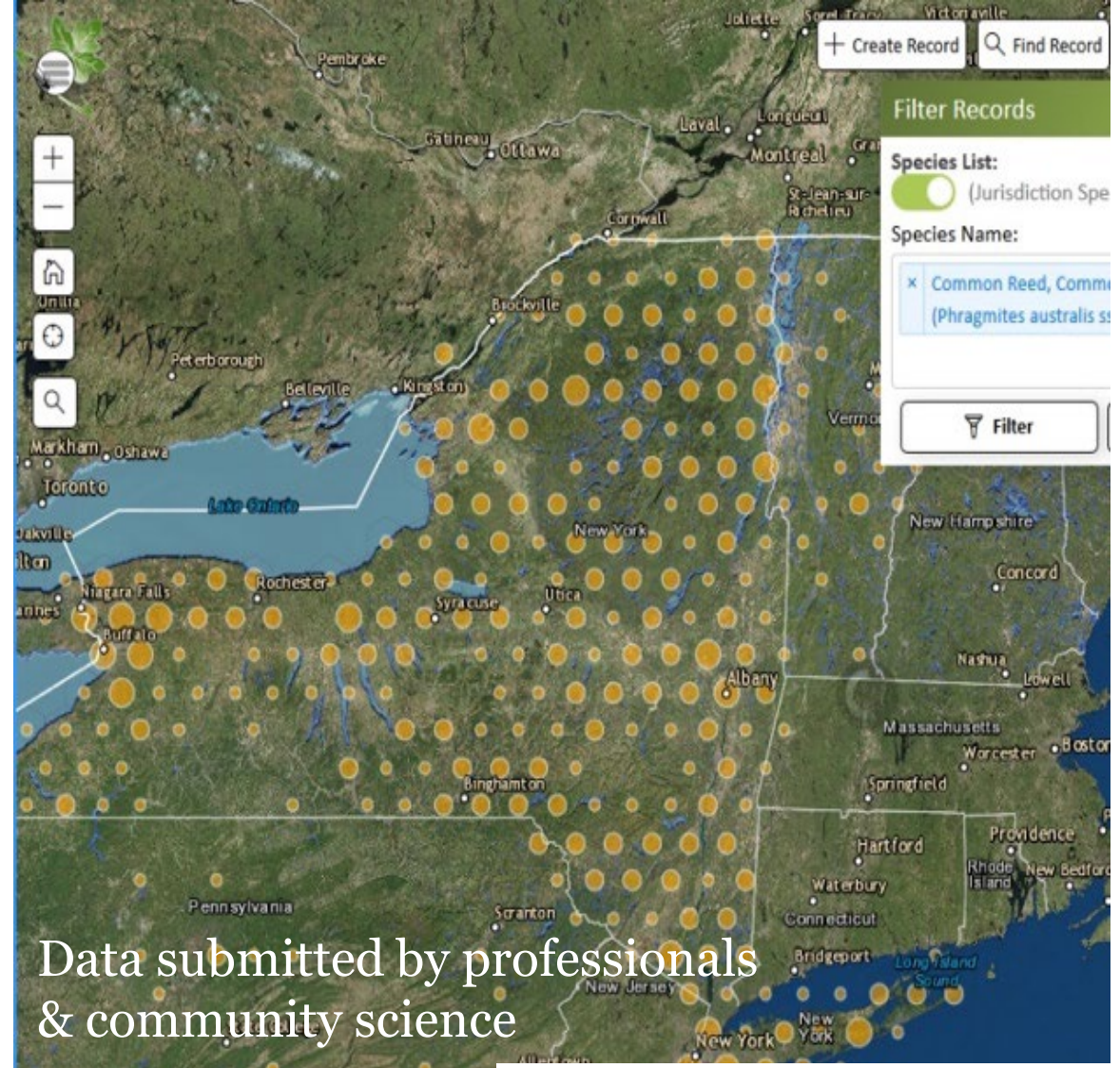
- Fort De La Presentation-Ogdensburg
- Downtown Ogdensburg
Blocks near City Hall



Overview and Demos



SLELO PRISM Land Protector's Webpage: sleloinvasives.org/landprotectors



Data submitted by professionals
& community science



New York
Natural Heritage
Program



State University of New York College of
Environmental Science and Forestry

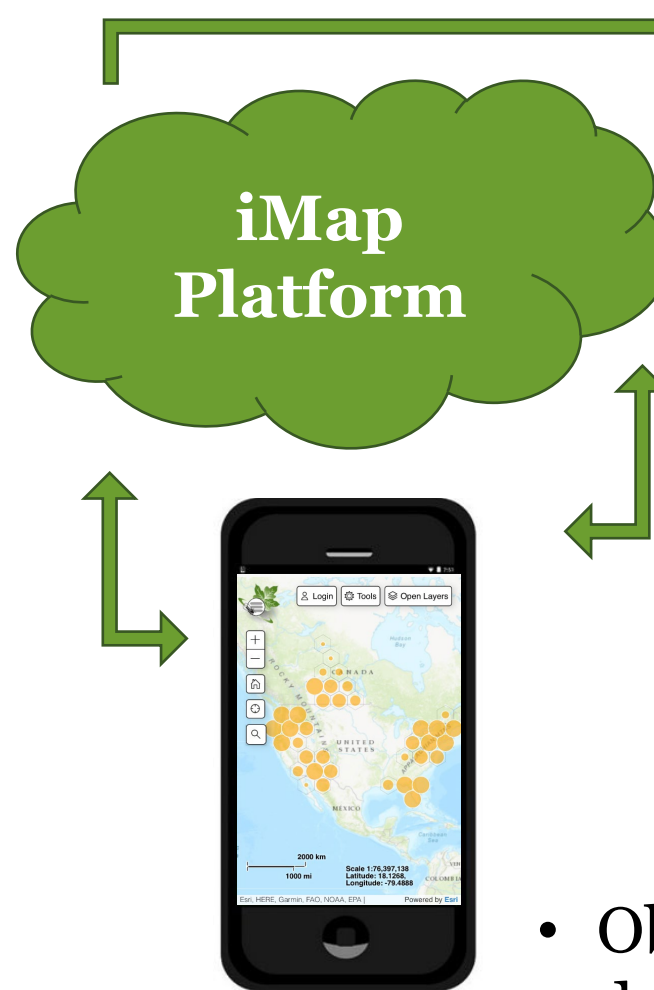


Department of
Environmental
Conservation

Mobile App

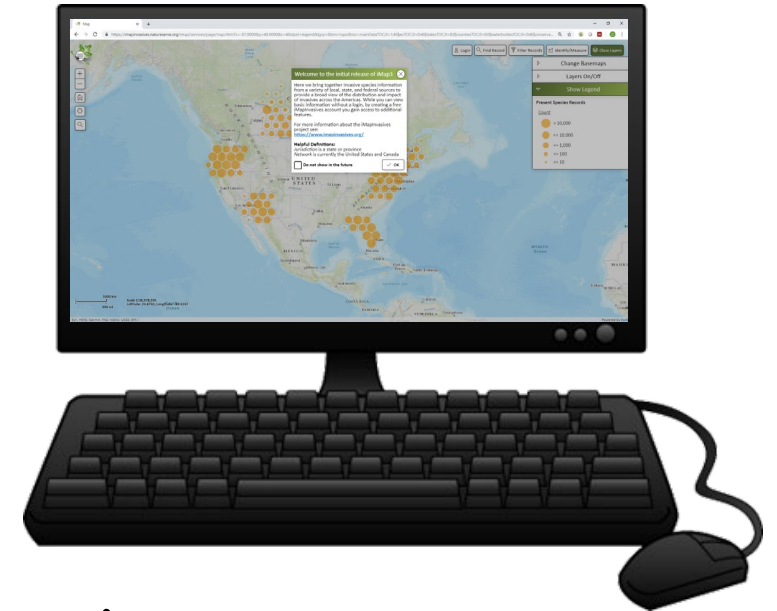


- Report observations
- Does not require connectivity once set-up

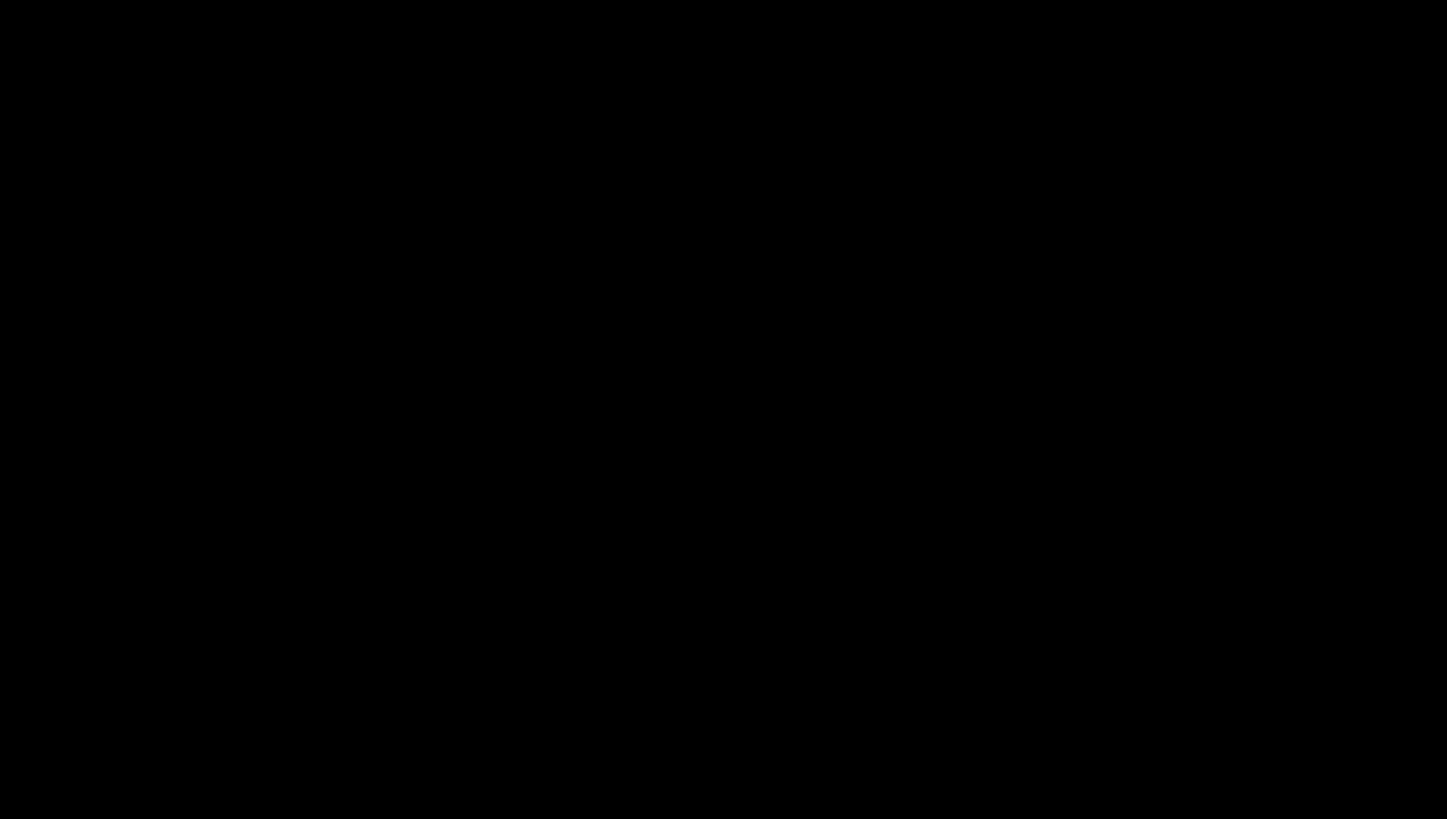


- *Email Alerts*
- *Web Map Services*

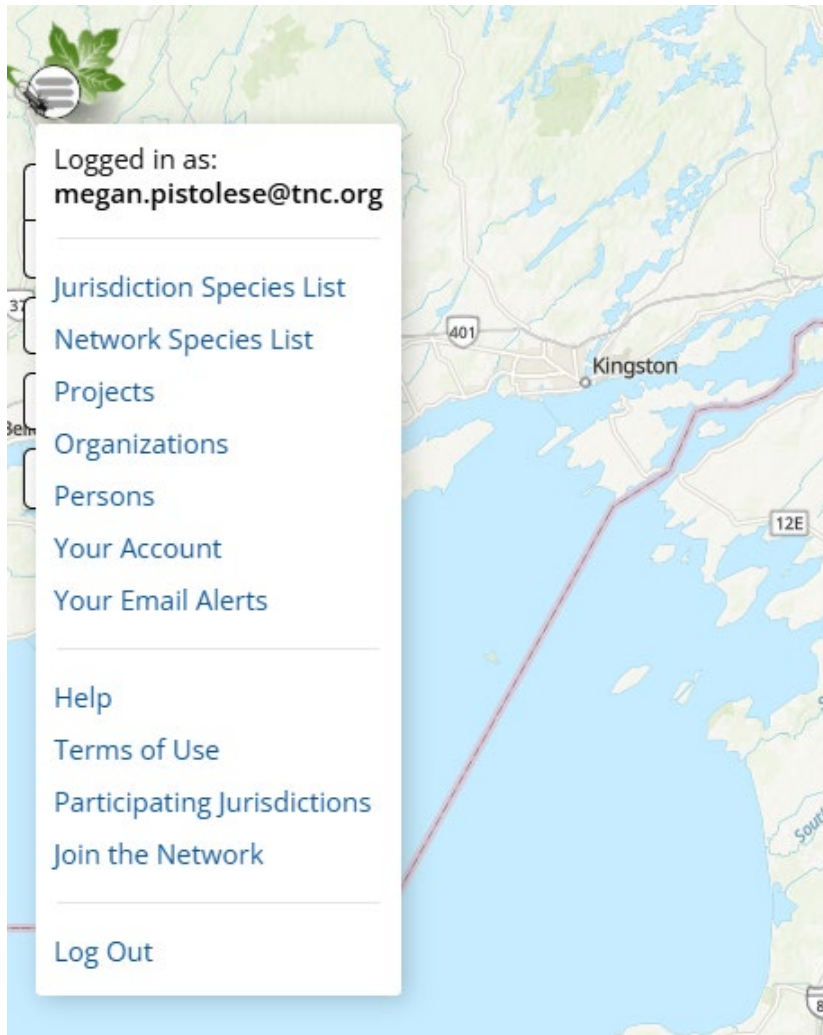
Nyimapinvasives.org



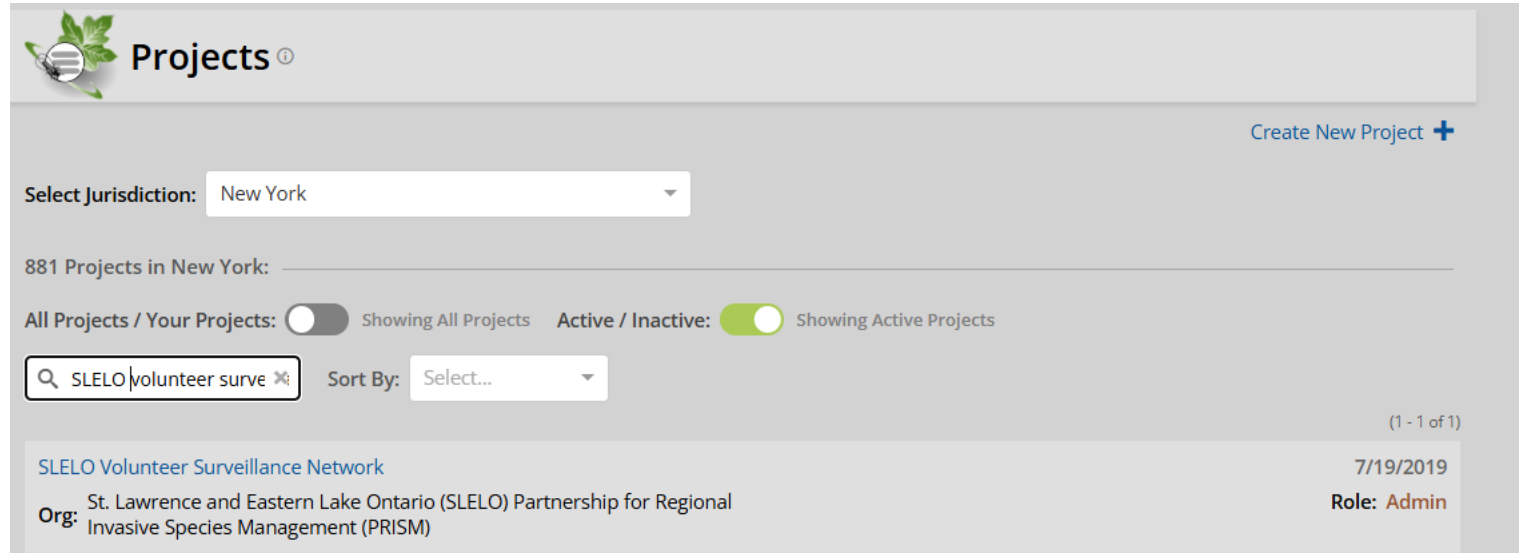
- Observation, treatment, survey data
- Interactive public map
- **Requires connectivity**



SLELO Volunteer Surveillance Network iMap Project



nyimapinvasives.org





seek

by iNaturalist

Get outside, explore, and learn
about the nature all around you!



GET IT ON
Google Play



Download on the
App Store



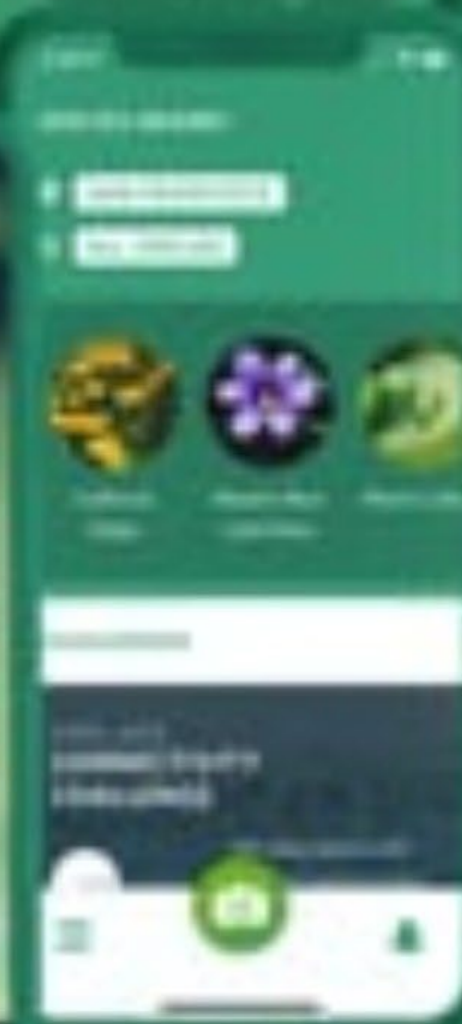
@seekbyinat



CALIFORNIA
ACADEMY OF
SCIENCES



NATIONAL
GEOGRAPHIC



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- **Report invasive species**
- **Identification**
- **Report native species**
- **Join SLELO PRISM project**
- **Backup Identification**
- **Sync with iNat**

SLELO PRISM Land Protector's Webpage: sleloinvasives.org/landprotectors

Good Photos are Essential!



Photos can be difficult to verify if blurry or too far away...

- Ideally focused, close-up, with identifying features
- Hand or sheet of paper behind plant provides scale and helps with focus

Photos provided by iMapInvasives



You Matter!



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EASTERN LAKE ONTARIO

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