Citizen Science to Detect Invasive Species

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UW Extension

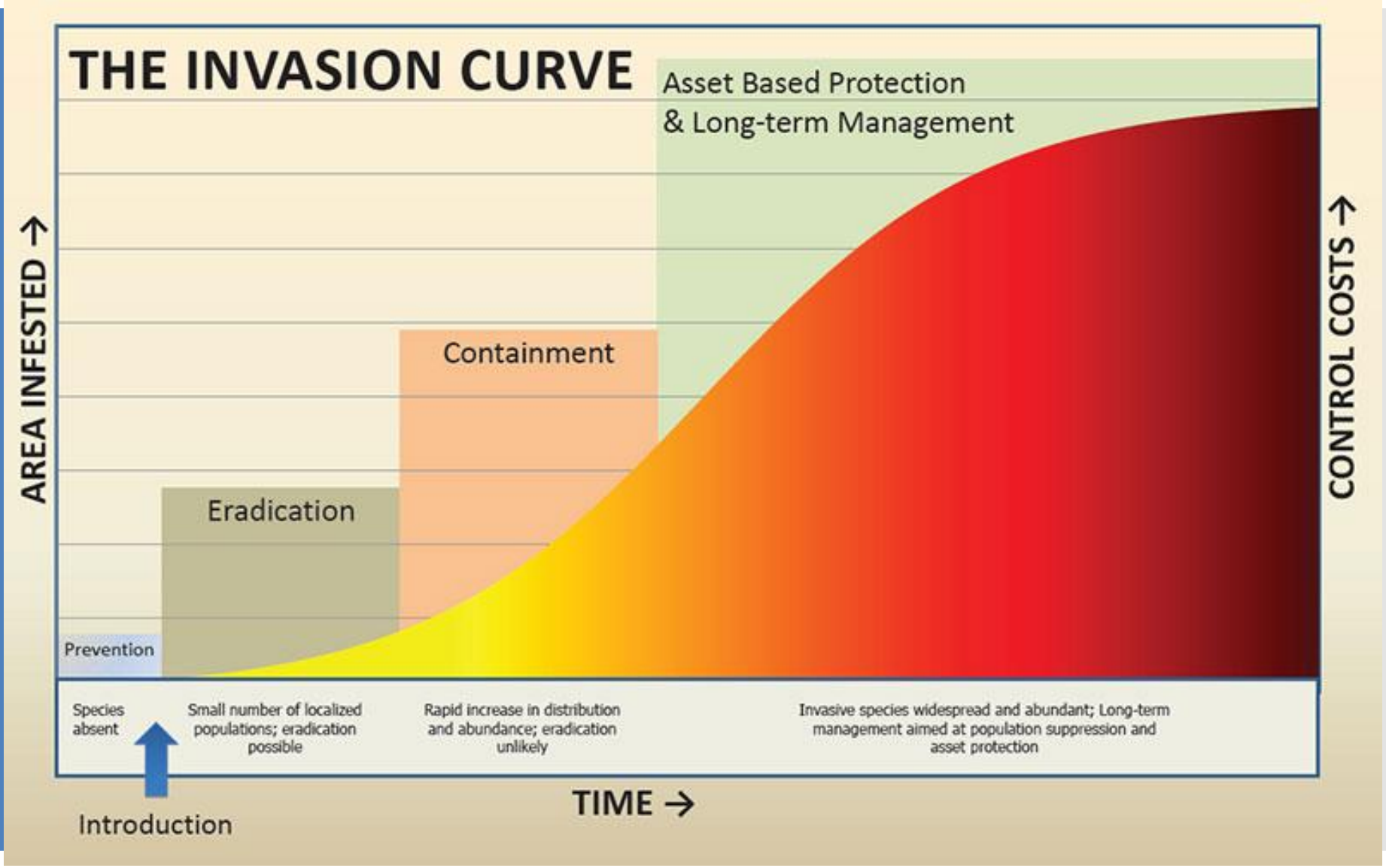
University of Wisconsin-Extension

Invasive Species

- Originated elsewhere
- Growing or spreading rapidly
- Cause or have potential to cause harm
  - Economic
  - Environmental
  - Health

Invasive Dame's rocket

First Detectors



What is WIFDN?

- Statewide citizen science network
- Provide educational resources
- Support volunteer opportunities

Education and Training

- Website resources fyi.uwex.edu/wifdn
- In person workshops
- Annual webinar series

Wisconsin First Detector Network

Awareness of the Unusual

Home | Learn » | Get Involved » | 2017 Webinar Series | For Classroom Teachers

Home » Learn » **Invasive Species I.D. and Impacts**

Plant fact sheets and I.D. videos

Terrestrial Plants

UW Online Weed Key: video – website

Crown vetch (*Securigera varia*): video – fact sheet

Hill mustard (*Bunias orientalis*): video – fact sheet

Leafy spurge (*Euphorbia esula*): video – fact sheet

Common tansy (*Tanacetum vulgare*): video – fact sheet

Spiny plumeless thistle (*Carduus acanthoides*): video – fact sheet

Garlic mustard (*Alliaria petiolata*): video – fact sheet

Common teasel (*Dipsacus foullonum*): video – fact sheet

Creeping bellflower (*Campanula rapunculoides*): video – fact sheet

Bush honeysuckles (*Lonicera sp.*): video – fact sheet

Impacts of bush honeysuckles: video

Canada thistle (*Cirsium arvense*): video – fact sheet

Black swallow-wort (*Vincetoxicum nigrum*): video – fact sheet

Wild chervil (*Anthriscus sylvestris*): video – fact sheet

Spotted knapweed (*Centaurea stoebe*): video – fact sheet

Dames rocket (*Hesperis matronalis*): video – fact sheet

Japanese hedge-parsley (*Torilis japonica*): video – fact sheet

Poison hemlock (*Conium maculatum*): video – fact sheet

Japanese hop (*Humulus japonicus*): video – fact sheet

Wild parsnip (*Pastinaca sativa*): video – fact sheet

Perennial pepperweed (*Lepidium latifolium*): video – fact sheet

Garden valerian (*Valeriana officinalis*): video

Purple loosestrife (*Lythrum salicaria*): fact sheet

Black locust (*Robinia pseudoacacia*): fact sheet

Oriental bittersweet (*Celastrus orbiculatus*): fact sheet

Biennial thistles: fact sheet

Buckthorns: fact sheet

Japanese knotweeds (*Polygonum cuspidatum*): fact sheet

GLEDN App Resources

Wisconsin First Detector Network

Awareness of the Unusual

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Home » Get Involved » **Report Invasive Species**

Report Invasive Species

You have several options for reporting invasive species. If you have a smartphone or tablet, th
Early Detection Network (GLEDN) app. No smartphone? You can still submit reports through
WIFDN or submit reports to WI DNR. Read on to pick the best option for you!

Report with GLEDN app

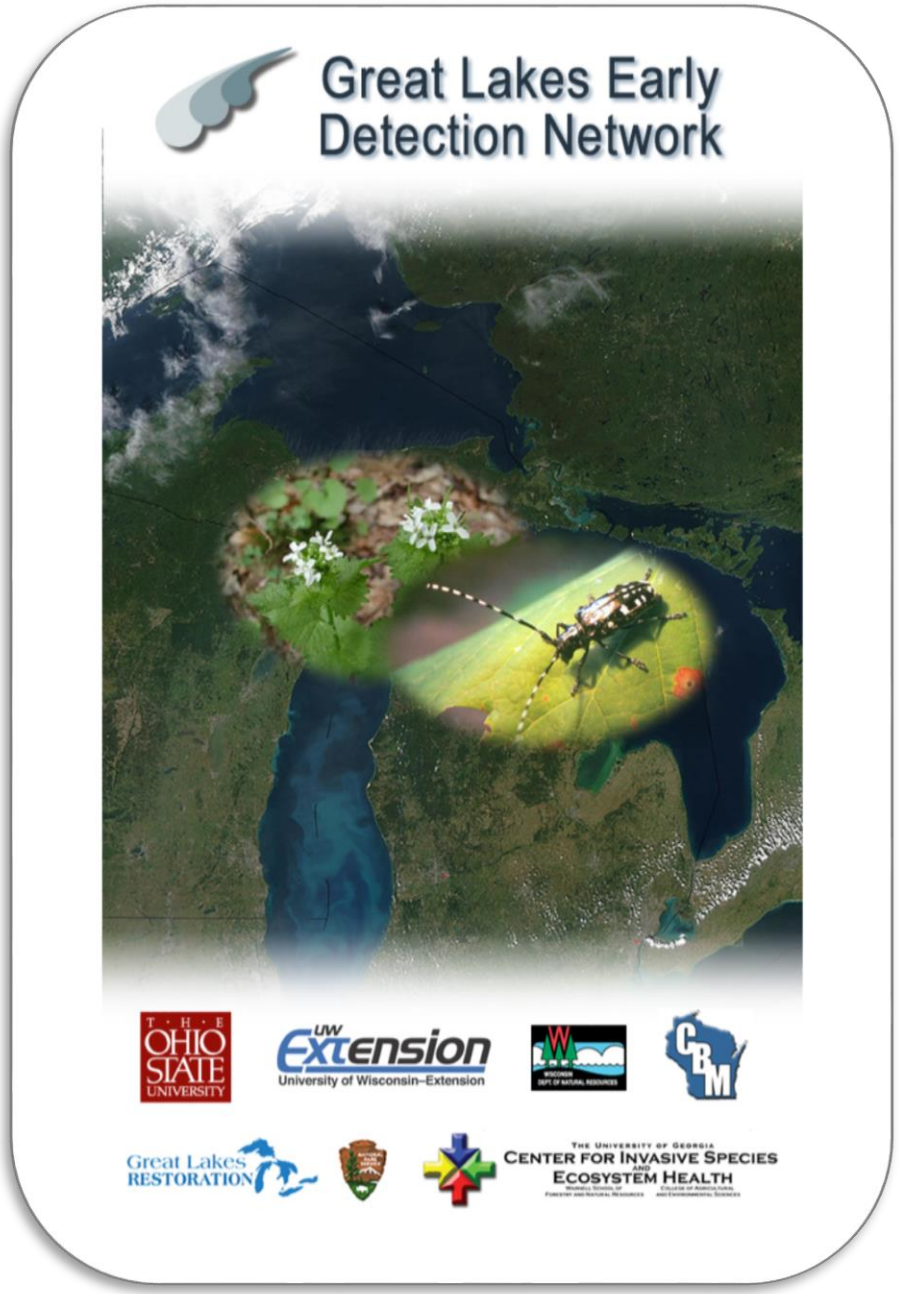
The GLEDN app allows you to map and report invasive species infestations with your smartp
EDDMapS, a national database of invasive species reports.

- **Download the app**
- Guide to getting started and using the app: **GLEDN App Guide**
- GLEDN **video tutorials**

GLEDN App

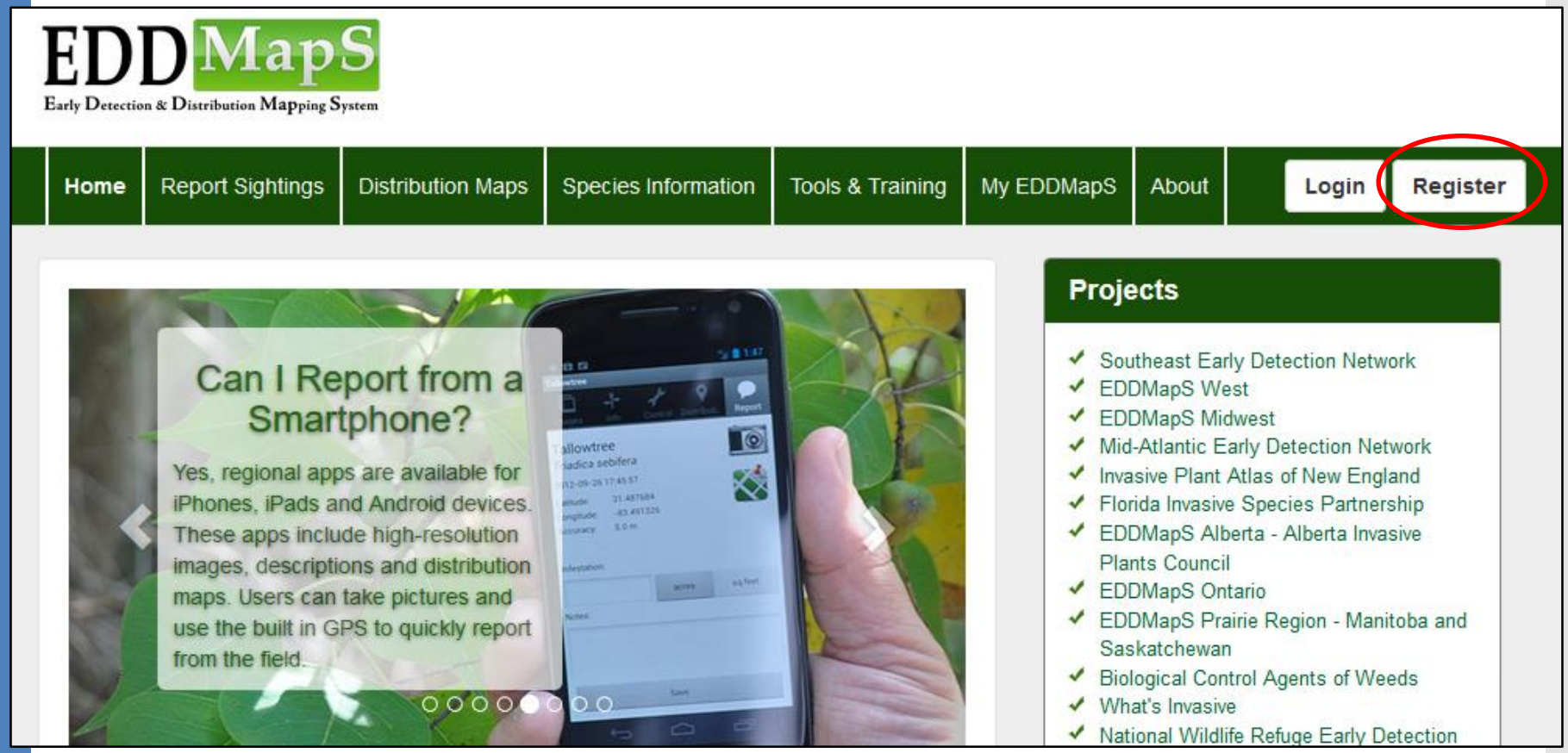
- Free!
- Maps invasive species
- Reports verified
- Integrated with EDDMapS

GLEDN App Demo



#1 Download App

#2
Sign in to EDDMapS



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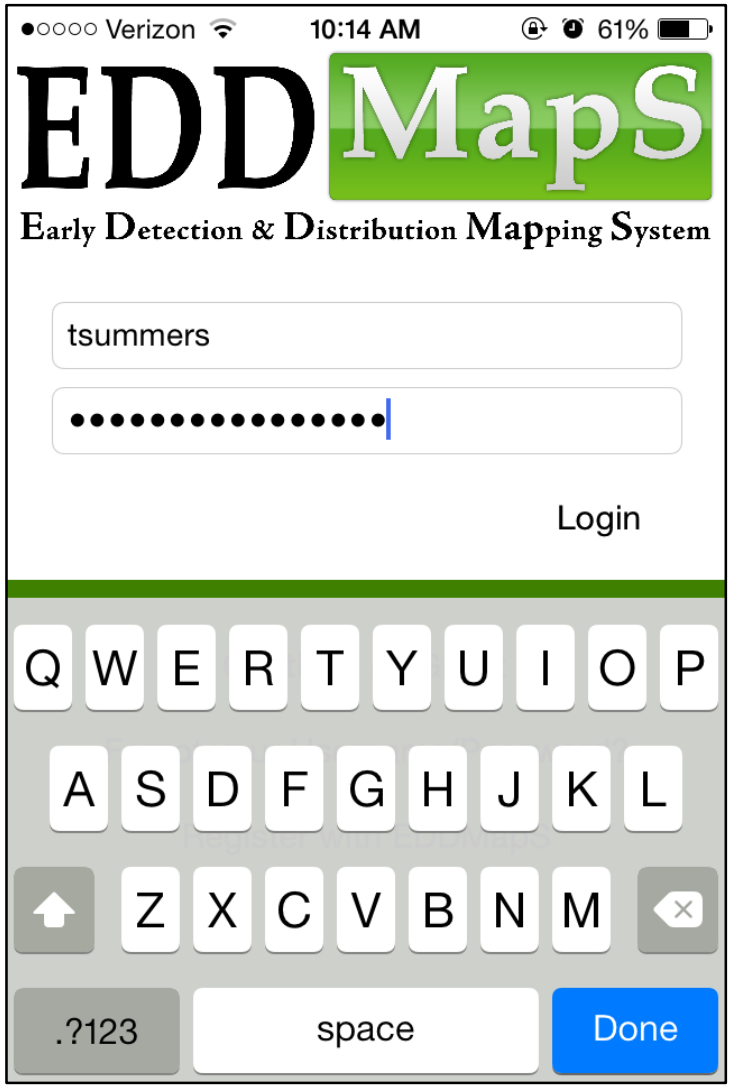
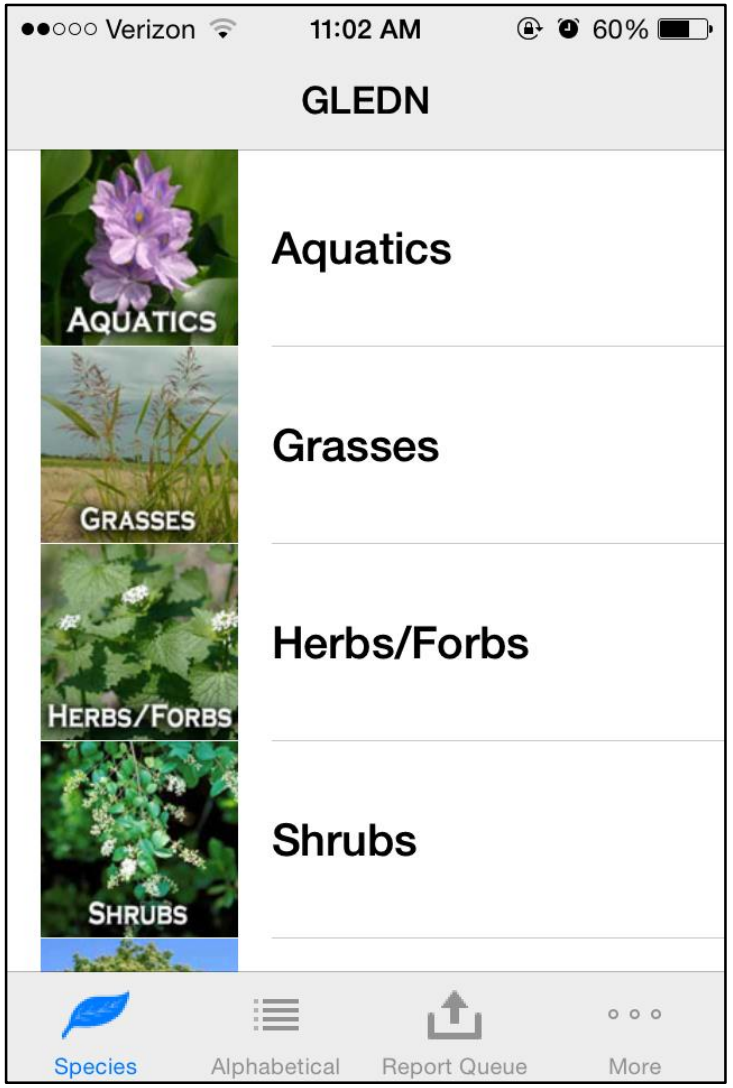
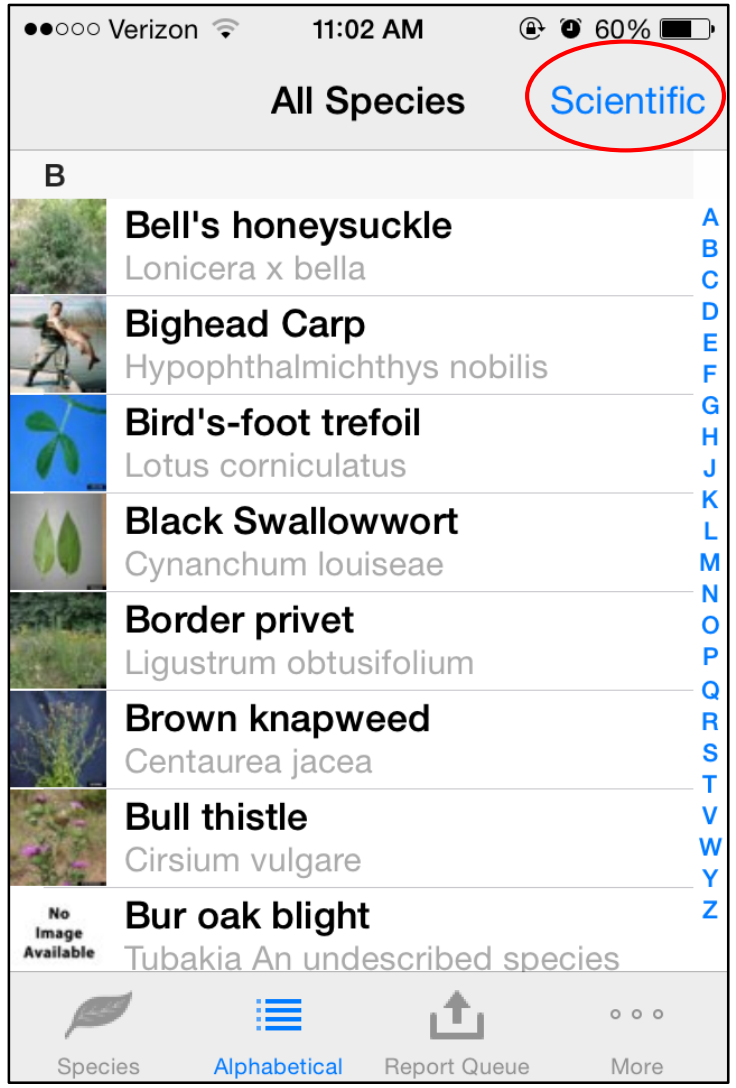
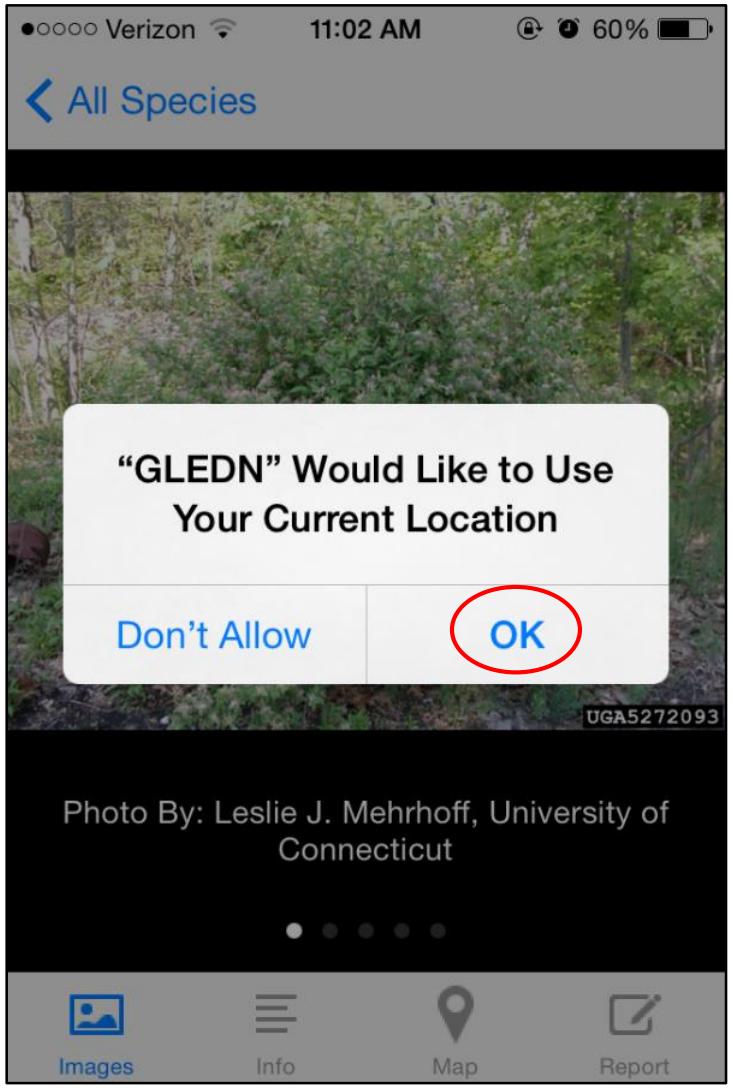


#3 Select Species

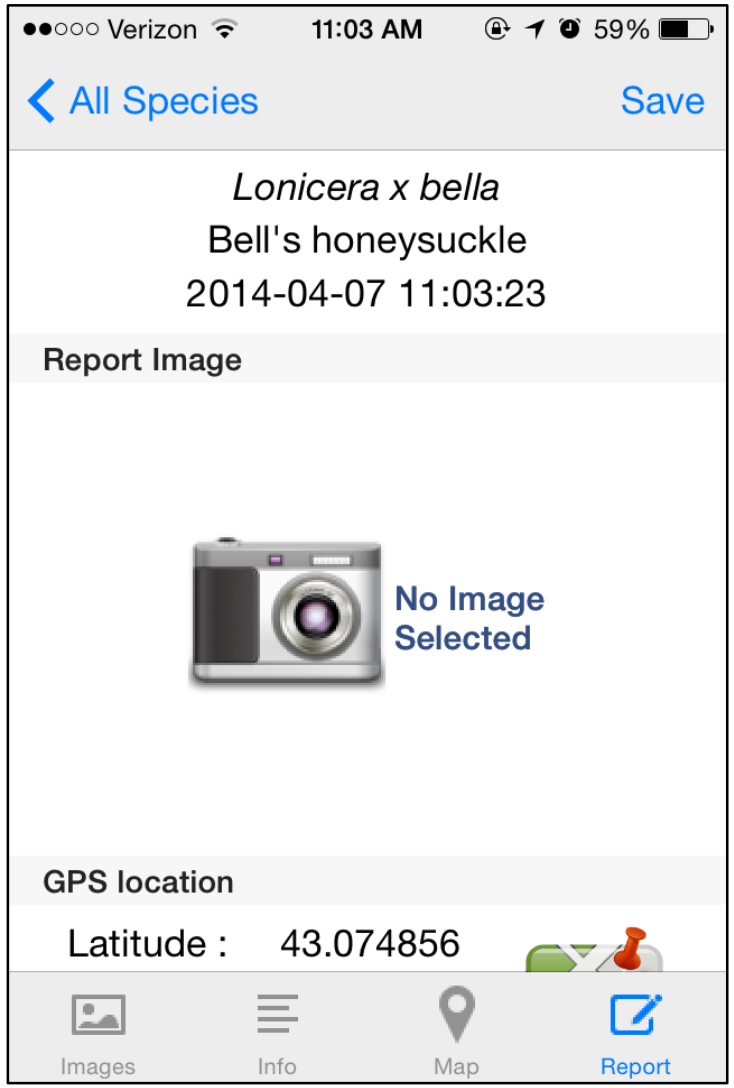


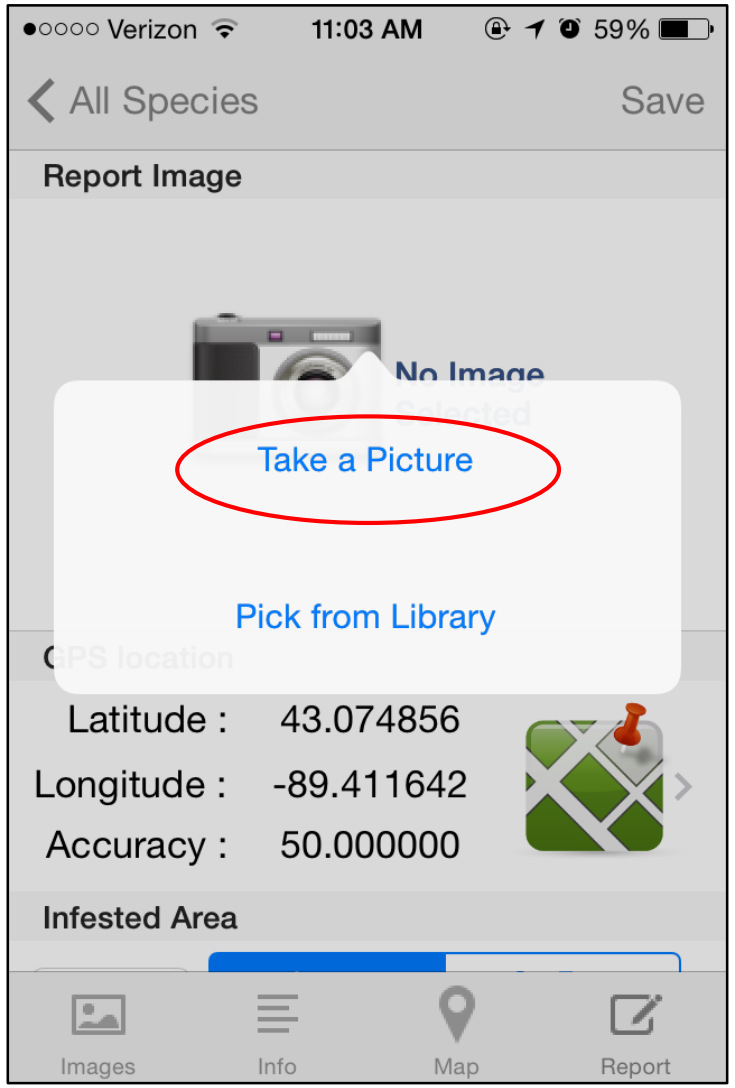


#4 Allow GPS Tracking



#5 Fill in Reporting Form





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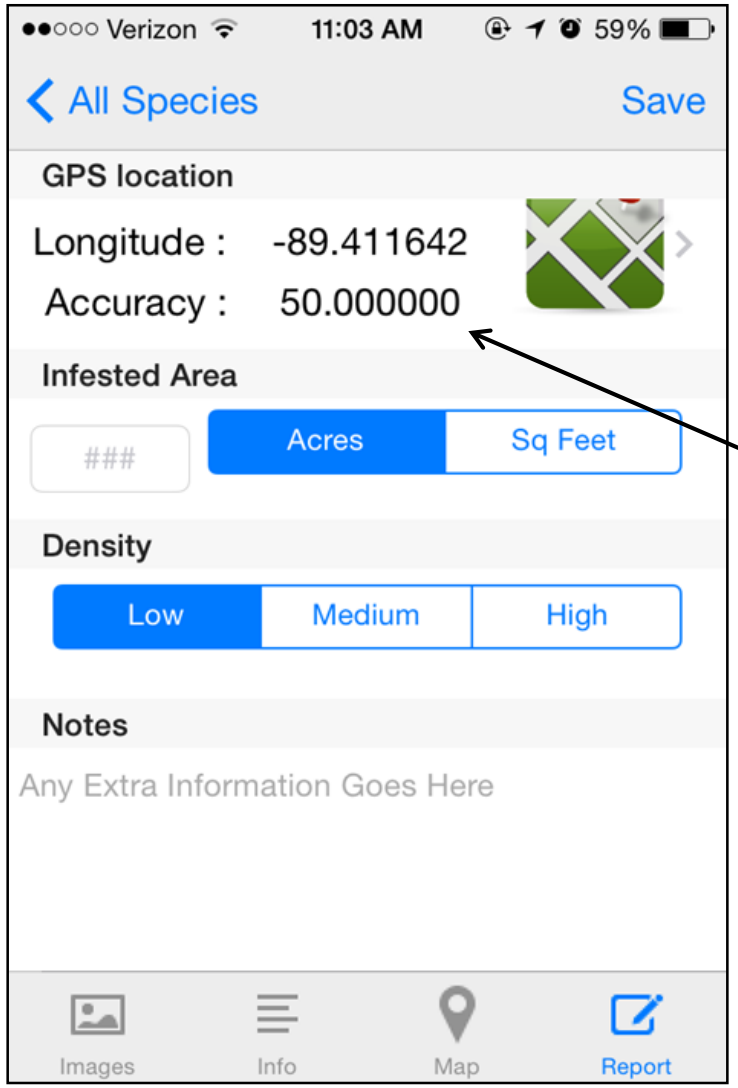

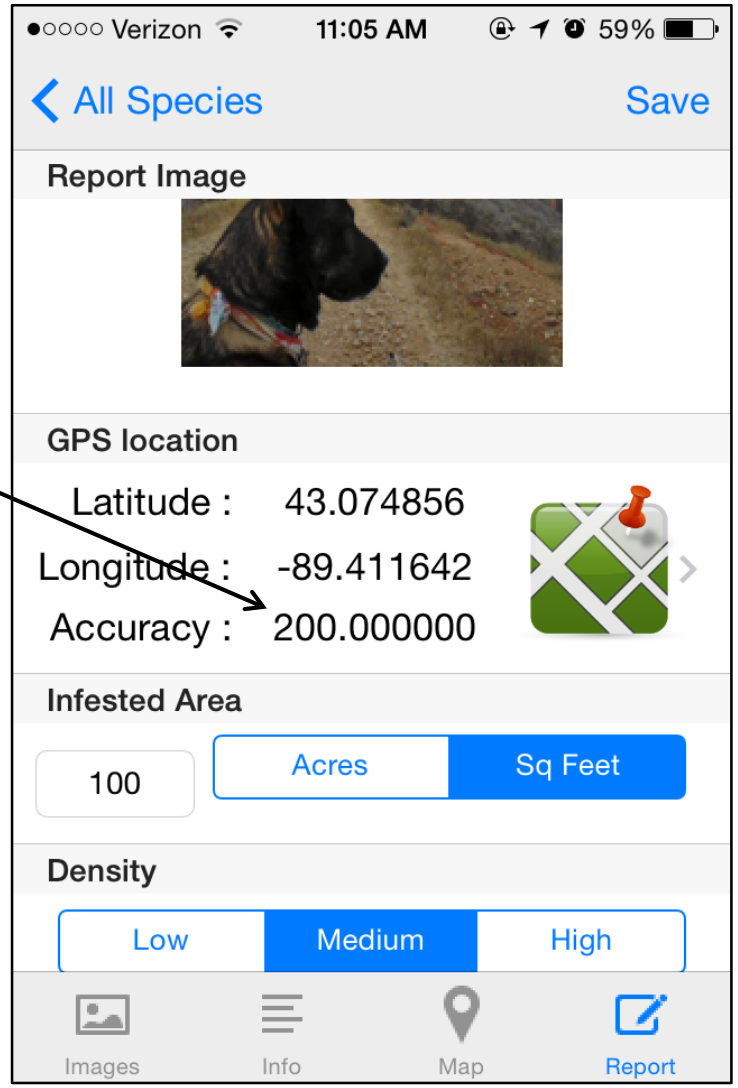

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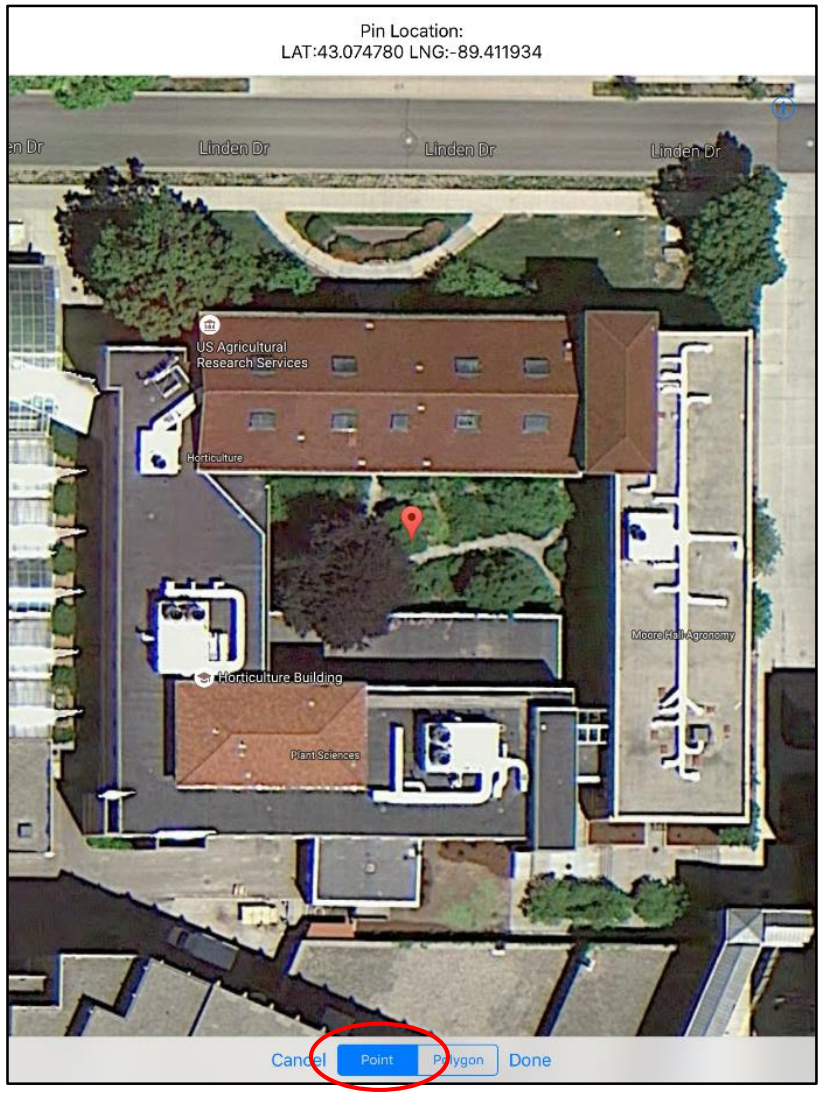
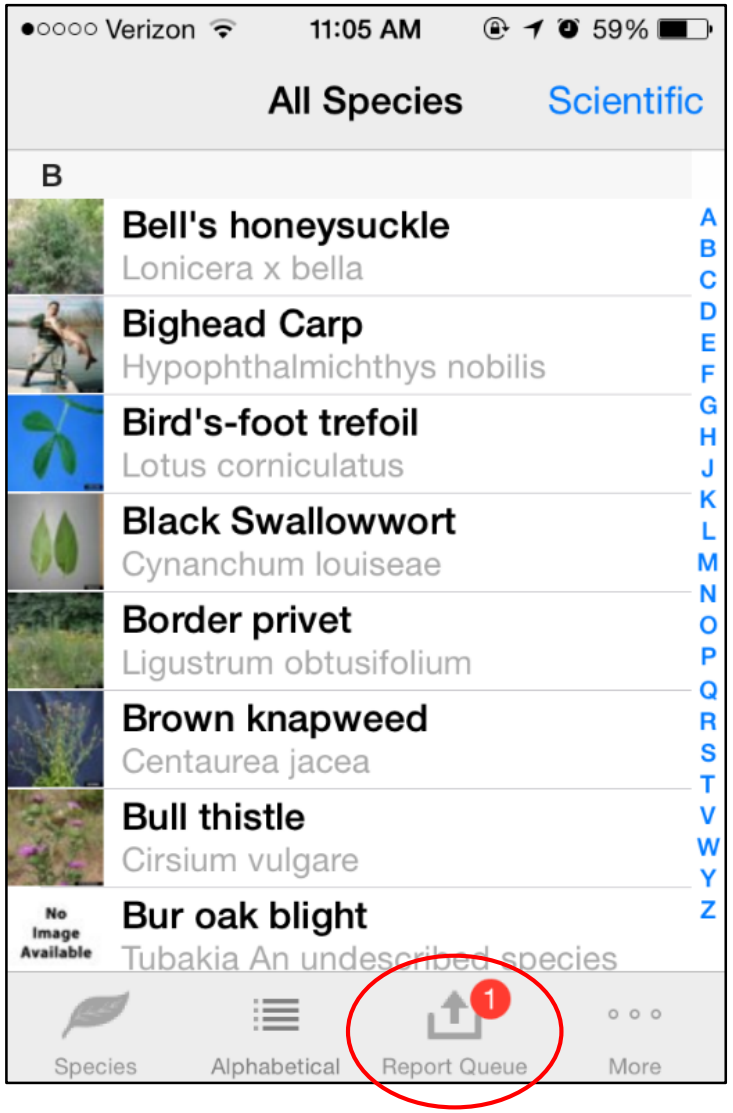
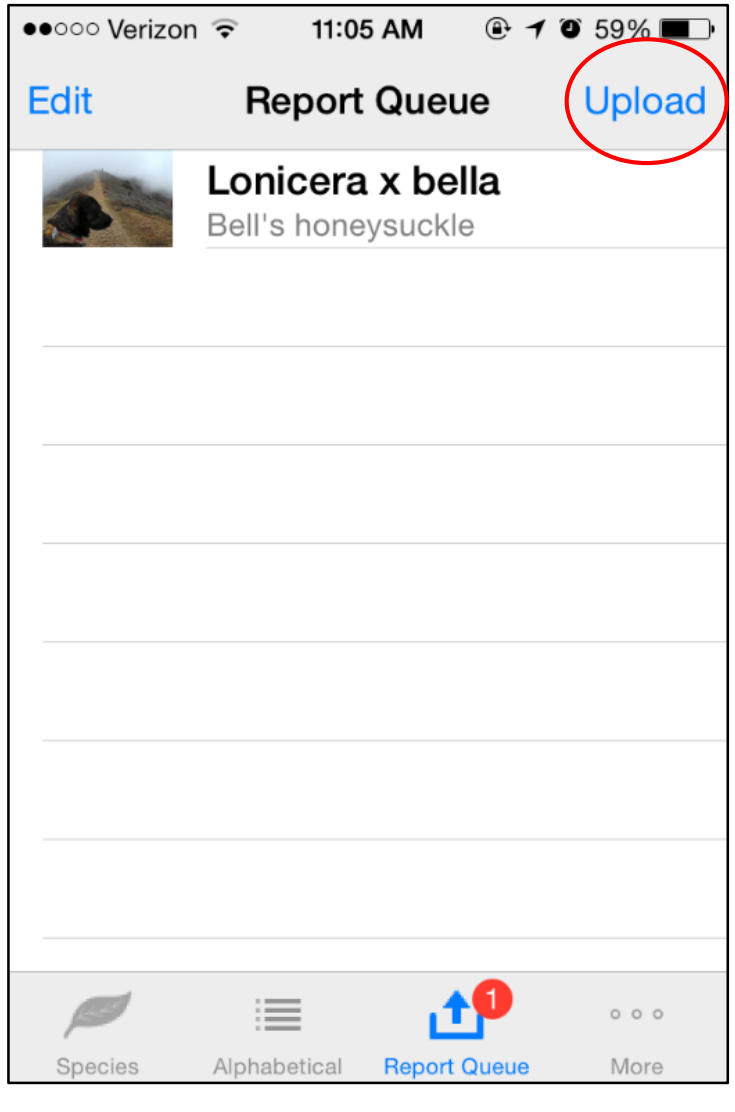


#6 Upload Saved Reports





EDDMapS

- "Parent" of GLEDN app
- National web-based database
- Manage your records
- Download data

EDDMapS
Early Detection & Distribution Mapping System

EDDMapS
Early Detection & Distribution Mapping System

Home | Report Sightings | Distribution Maps | Species Information | Tools & Training

- Overview
- Reports
- Download
- Alerts
- Projects
- Edit Profile
- View Profile
- My Uploads
- My Surveys

My EDDMapS -Anne Pearce

User Statistics

	Overall	This Year	This Month
Reports	275	0	0
Species	21	0	0
States	1	0	0
Counties	1	0	0

Recent Reports

Manage Reports

Record ID	Common Name	Scientific Name	Location	Date	Manage
4772887	bull thistle	Cirsium vulgare	Dane County, Wisconsin, United States	08/30/2016	View | Edit | Revisit | Delete
4759886	European buckthorn	Rhamnus cathartica	Dane County, Wisconsin, United States	08/10/2016	View | Edit | Revisit | Delete
4759885	showy fly honeysuckle, Bell's honeysuckle	Lonicera x bella	Dane County, Wisconsin, United States	08/10/2016	View | Edit | Revisit | Delete
4759884	porcelain-berry	Ampelopsis glandulosa var. brevipedunculata	Dane County, Wisconsin, United States	08/09/2016	View | Edit | Revisit | Delete
4759883	oriental bittersweet	Celastrus orbiculatus	Dane County, Wisconsin,		

Edit/Submit Reports

Species

Pest (?) :

garlic mustard (Alliaria petiolata)

Infestation

Status: ◉ Positive (?) ○ Treated (?)

Observation Date (?):

05/25/2016

Infested Area (?):

150 sq feet

Gross Area (?):

150 sq feet

Habitat (?):

Forest

Canopy Closure (?):

High (25.1 - 100%)

Abundance:

Scattered Dense Patches

Plant Description:

☐ Mature ☐ Sapling/Immature ☐ Seedling/Rosette ☑ In Flower ☐ In Fruit ☐ Seeds ☐ Dormant/Dead ☐ Unknown

Edit/Submit Reports

Location

State:
Wisconsin

County:
Dane County

Site Name (?):
Lakeshore Preserve East

Latitude (?):
43.07642690209137
Must be expressed in Decimal Degrees (XX.XXXX), and DATUM NAD83/WGS84.

Longitude (?):
-89.40365642309189
Must be expressed in Decimal Degrees (XX.XXXX), and DATUM NAD83/WGS84.

lat/long conversion tools | place marker at position | clear map

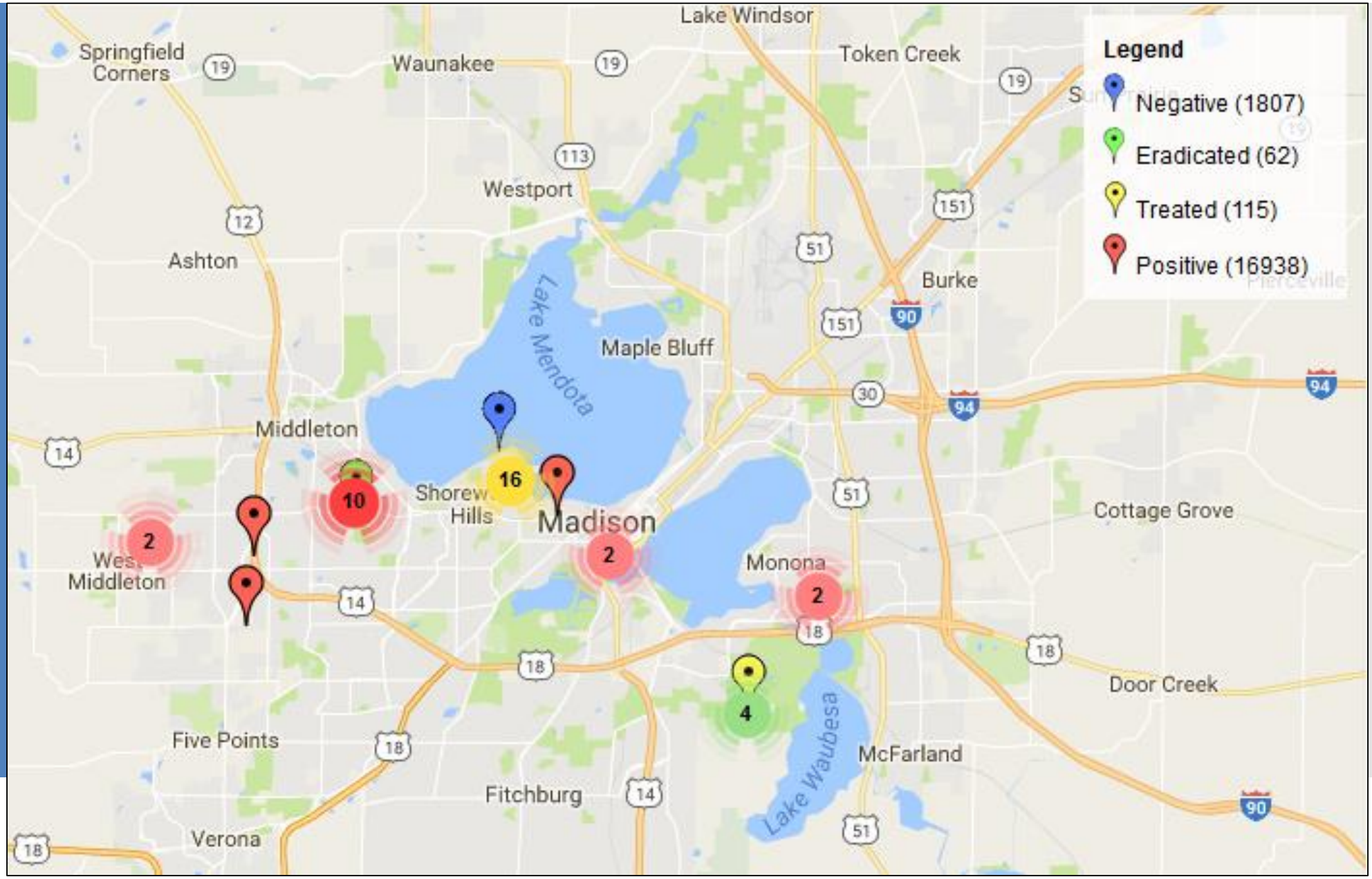
Location Description/Nearest Address:

Ownership:
Select One

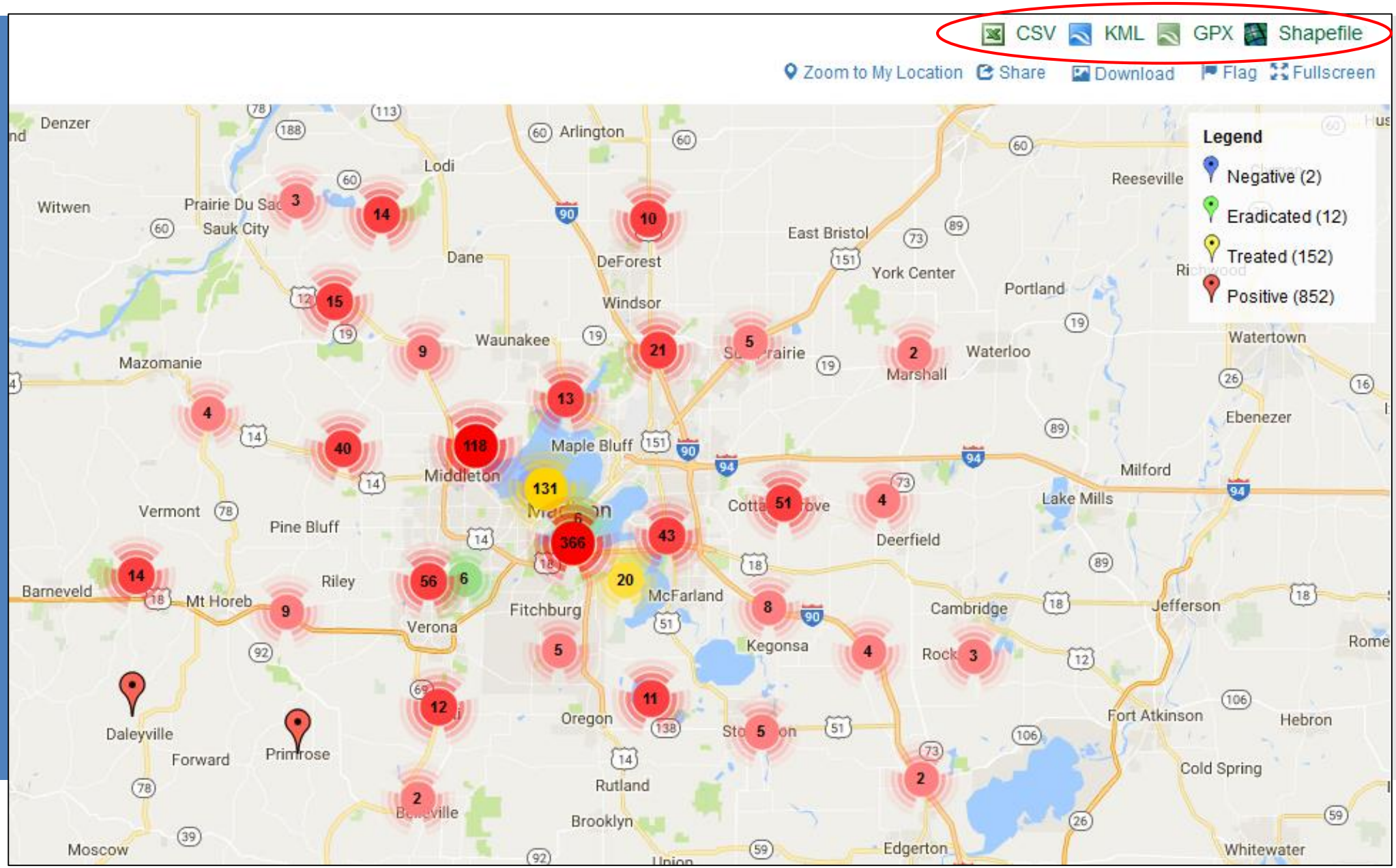
* If reporting infestation on private land, be sure to have landowner's permission.

Private (?): ◯ Yes ◉ No

Species Distribution Maps



Download Data



Recap of Tools

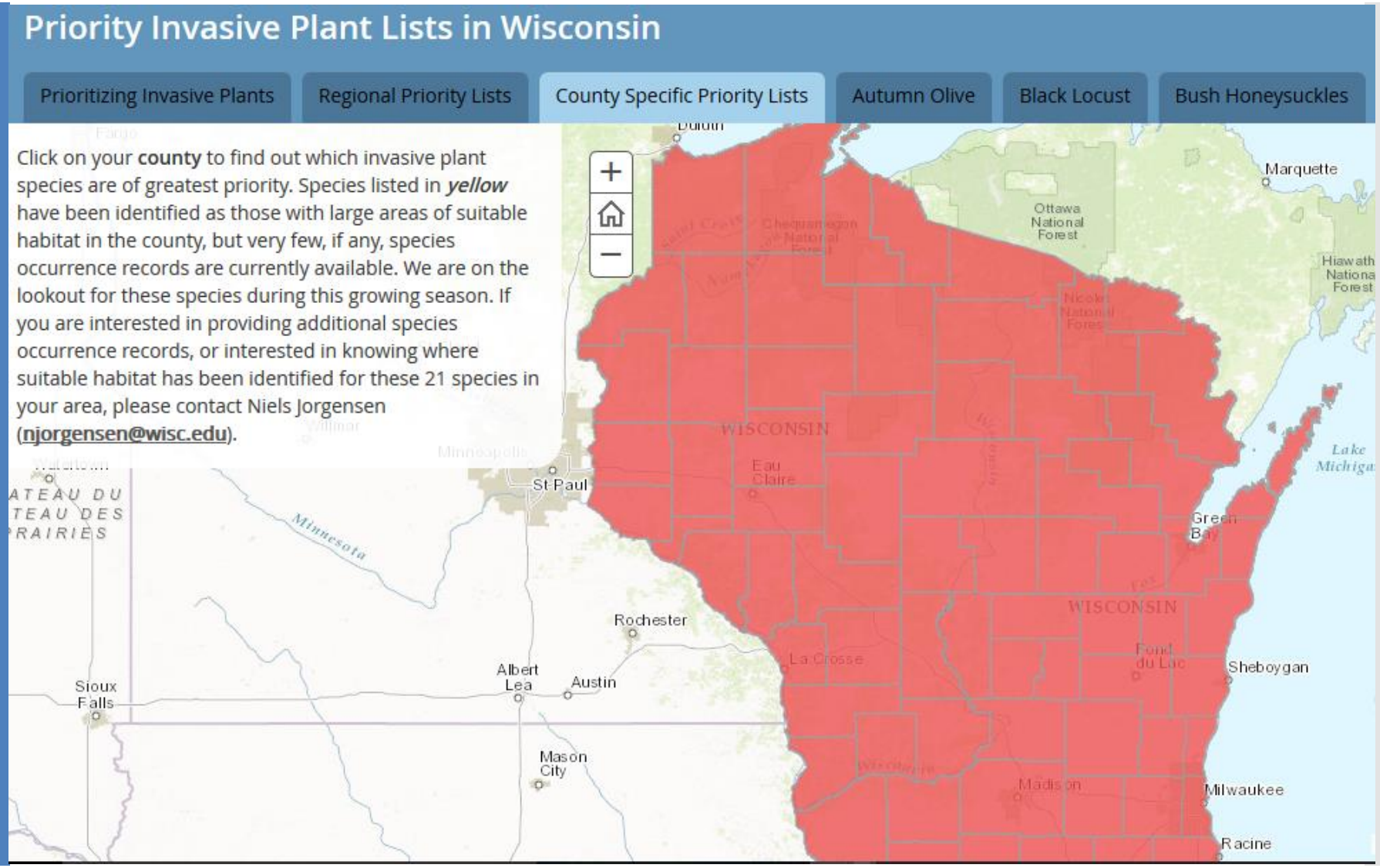
EDDMapS
Early Detection & Distribution Mapping System

"Parent" database
Generate + submit reports
Edit Reports
Download data
Species distribution maps

Great Lakes Early Detection Network

Smartphone app
Generate + submit reports
Integrated with EDDMapS

What should I look for?

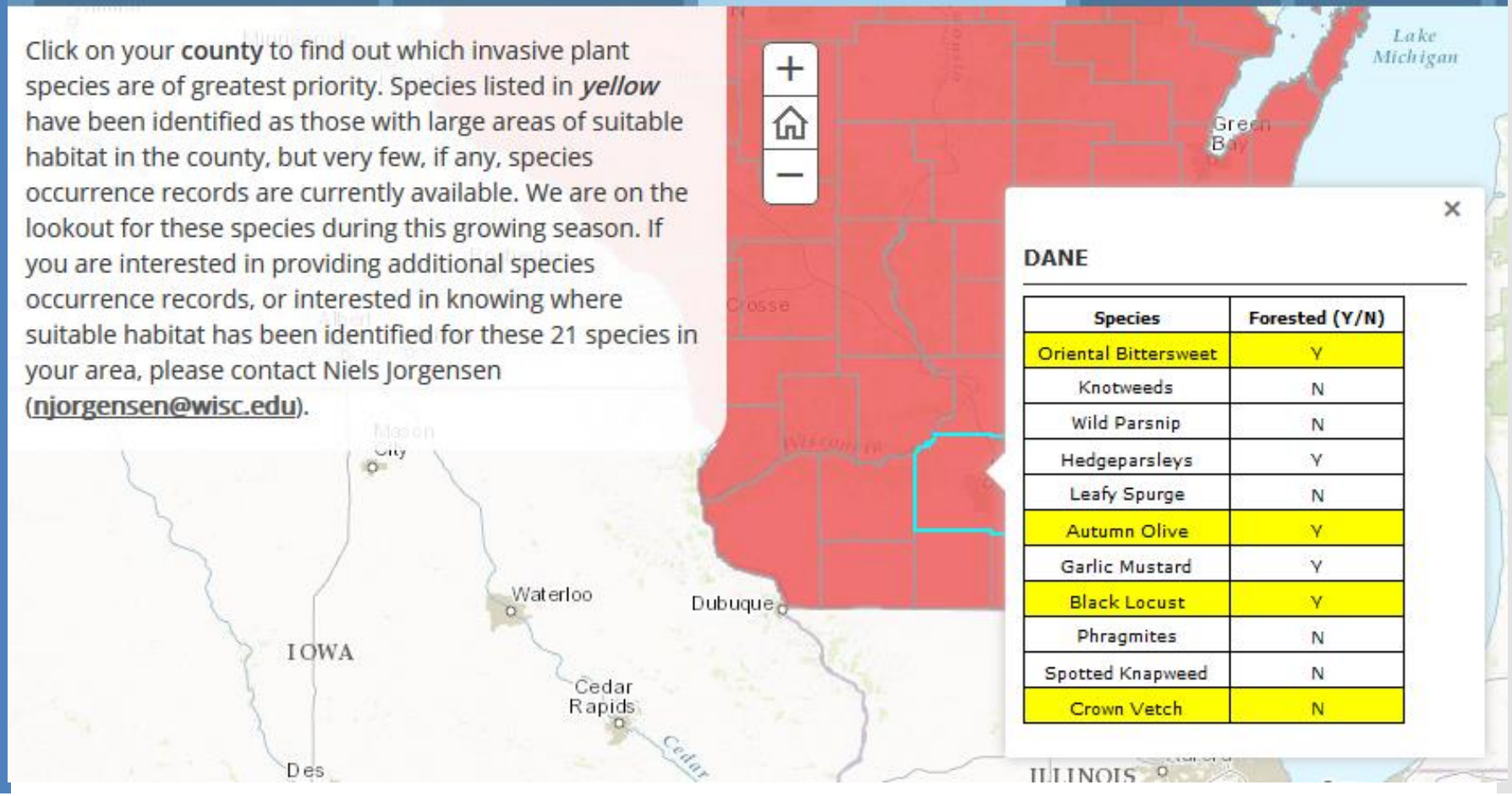


What should I look for?

Priority Invasive Plant Lists in Wisconsin

Prioritizing Invasive Plants | Regional Priority Lists | County Specific Priority Lists | Autumn Olive | Black Locust

Click on your **county** to find out which invasive plant species are of greatest priority. Species listed in ***yellow*** have been identified as those with large areas of suitable habitat in the county, but very few, if any, species occurrence records are currently available. We are on the lookout for these species during this growing season. If you are interested in providing additional species occurrence records, or interested in knowing where suitable habitat has been identified for these 21 species in your area, please contact Niels Jorgensen (njorgensen@wisc.edu).



DANE

Species	Forested (Y/N)
Oriental Bittersweet	Y
Knotweeds	N
Wild Parsnip	N
Hedgeparsleys	Y
Leafy Spurge	N
Autumn Olive	Y
Garlic Mustard	Y
Black Locust	Y
Phragmites	N
Spotted Knapweed	N
Crown Vetch	N

Thank you!

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608-262-9570

fyi.uwex.edu/wifdn

UW Extension

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