

INVASIVE SPECIES, WHY SHOULD WE CARE?



MARK RENZ UNIVERSITY OF WISCONSIN-MADISON



EXTENSION WEED SPECIALIST



VASIVE SPECIES?



WHAT IS AN INVASIVE SPECIES?

- Many definitions, most emphasize two main points
 - *Not native to the area*
 - *Capable of causing harm*
 - USDA definition (2010): “an **alien species** whose introduction does or is likely to cause economic or environmental **harm** or harm to human health”
 - Wisconsin (2009): A **nonnative species** including hybrids, cultivars, subspecific taxa, and genetically modified variants whose introduction causes or is likely to cause economic or environmental **harm** or harm to human health”
-

WHAT DO WE MEAN BY NOT NATIVE?

- Species that was not present pre-European settlement to the United States



WHICH OF THESE SPECIES ARE CONSIDERED INVASIVE?



WHAT ABOUT HONEY BEES?



HOW DO INVASIVE SPECIES CAUSE HARM?

- Causing impact or the potential to cause impact

- Types of impact

- Economic
- Environment
- Human health

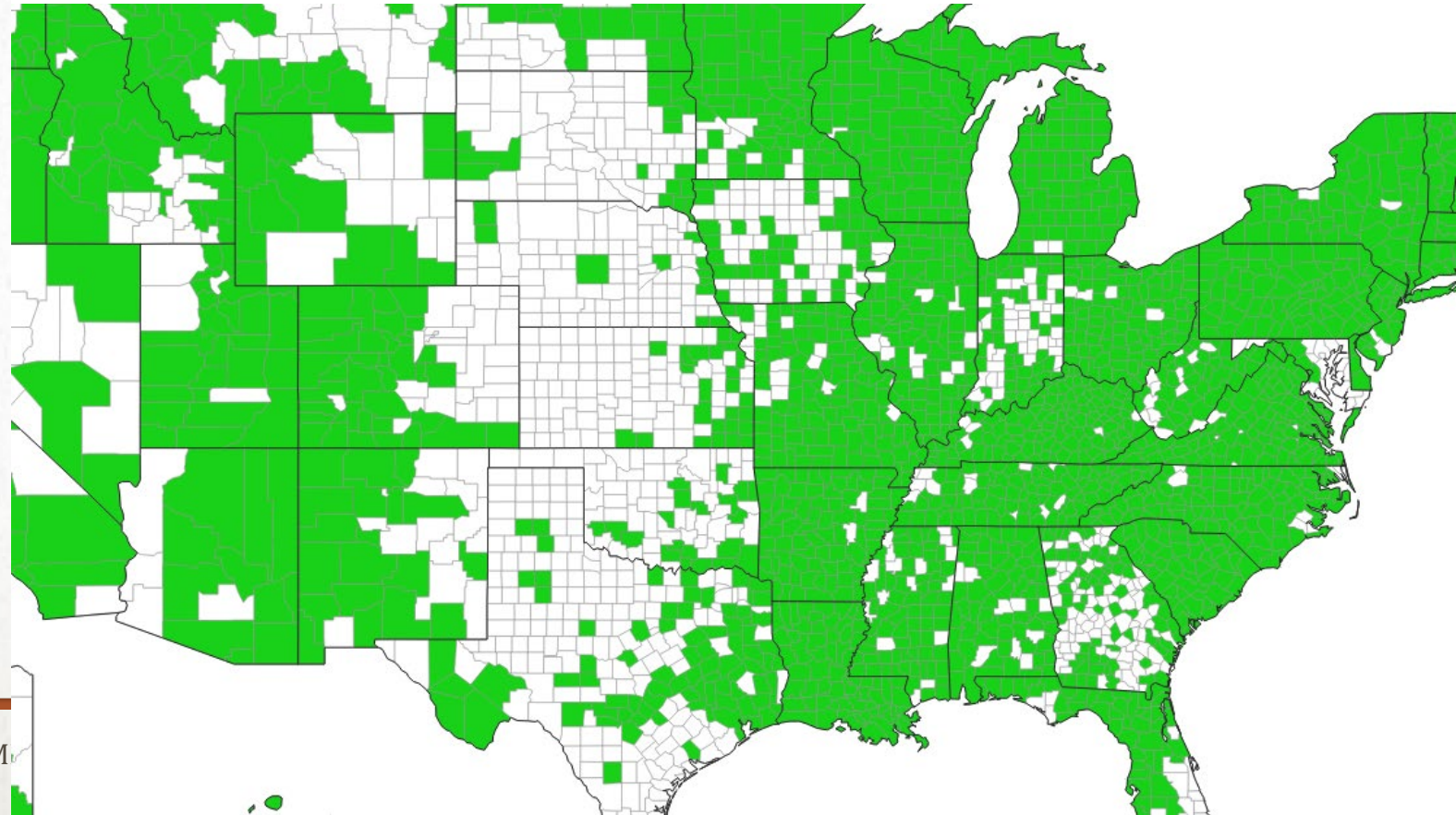


AN EXAMPLE OF POTENTIAL IMPACTS

BUSH HONEYSUCKLE

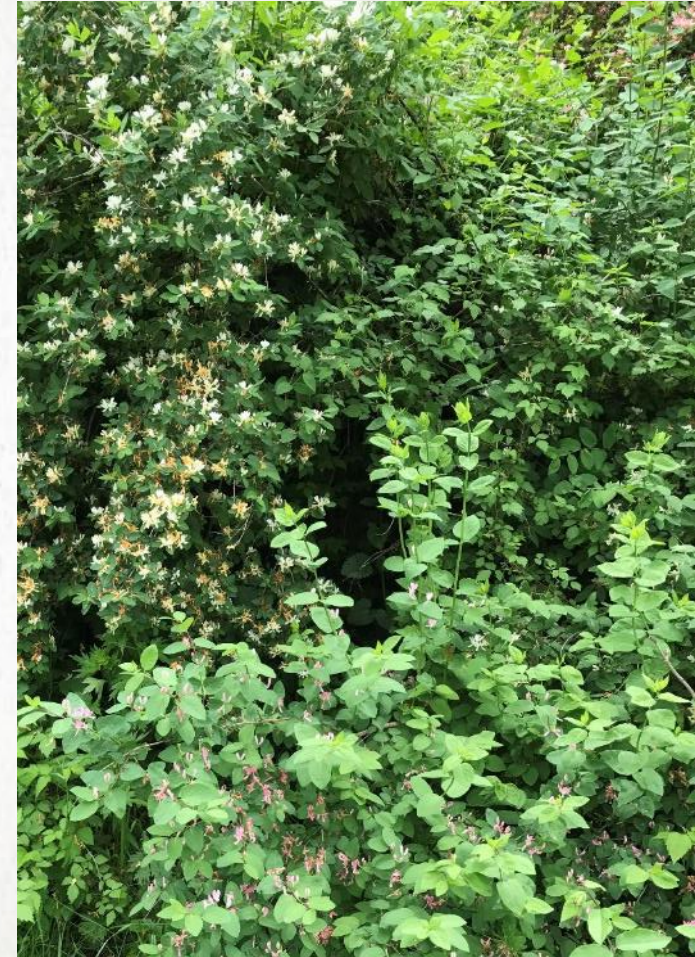
- Introduced late 1890s
- Dominates forest understories
- Cause many impacts

Distribution of bush honeysuckles by county 2018
(www.eddmaps.org)



IMPACTS OF BUSH HONEYSUCKLE

- Economic
 - Slows timber regeneration 15-30%
- Environment
 - Outcompetes native species (extinct after 20 yrs invasion)
 - Poor resource for wildlife (trout and nesting birds)
- Human health
 - Good habitat for the lone star tick
 - Lone star tick carries disease **ehrlichiosis**



REGULATION OF INVASIVE SPECIES

- Federal
 - Federal Noxious weed
- State
 - WI DNR = NR-40
- Local
 - State noxious weed

Search NISIC

- Search all USDA
- Advanced Search
- Search Tips

Browse by Geography

- United States
- International

Browse by Subject

- Aquatic Species
- Plants
- Animals
- Microbes
- Economic Impacts
- **Laws and Regulations**
- Manager's Tool Kit
- Resource Library

You are here: [Home](#) / [Laws and Regulations](#) / [State](#)

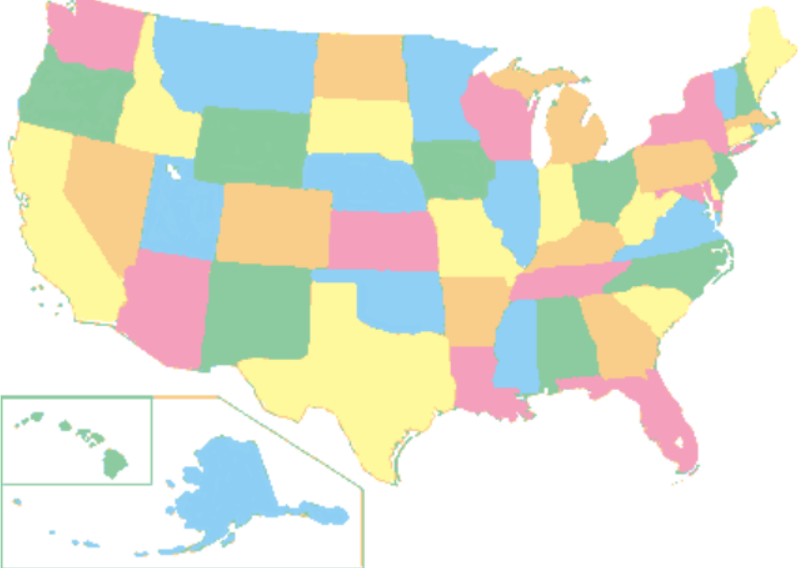
Laws and Regulations

State Laws and Regulations

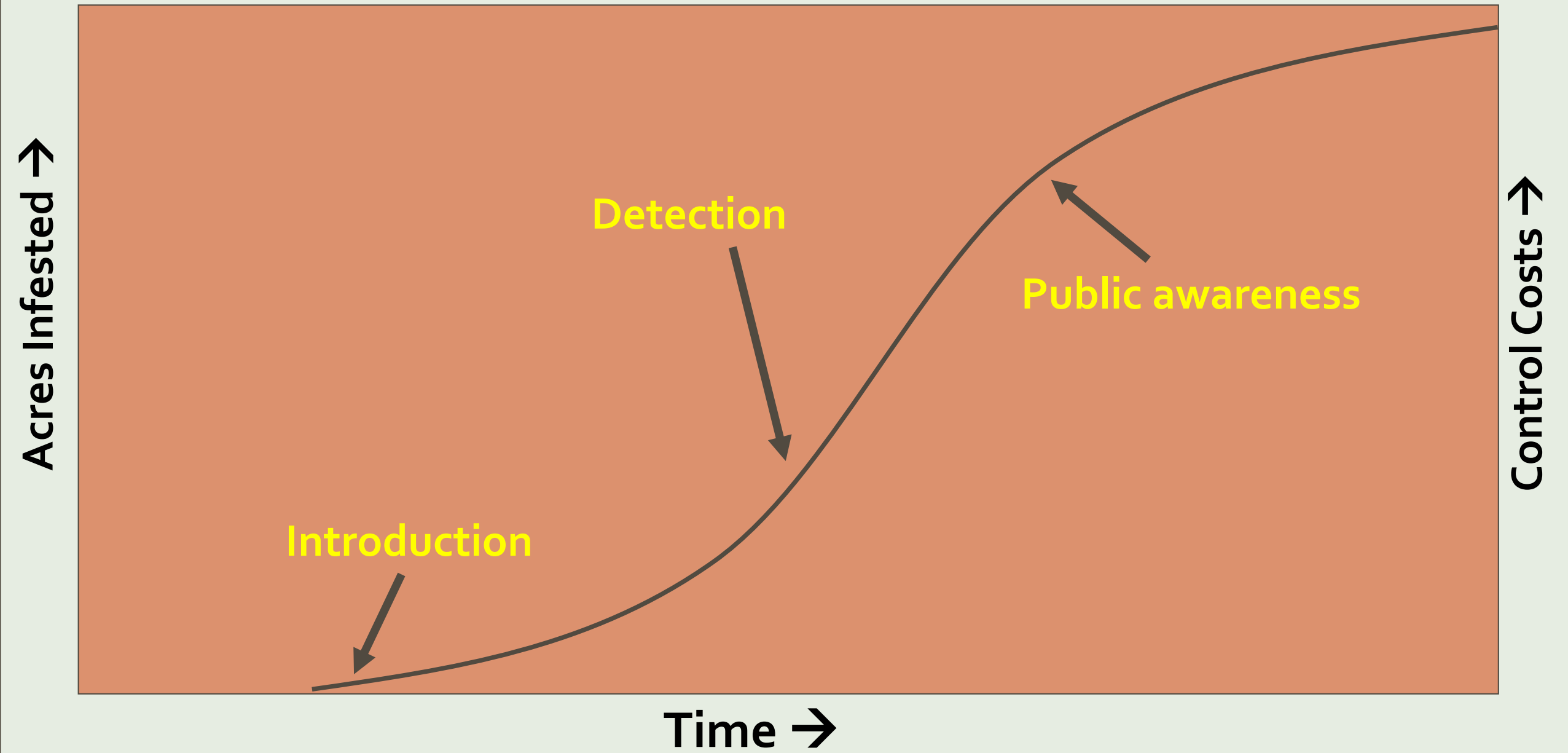
Click on a state, or select from the **list of states** below the map, or view **multistate resources**.

Note: Information provided is for educational purposes. We make no warranties or guarantees about the accuracy, completeness, or adequacy of the information contained on this site or the information linked to. Please check official sources.

[SHARE](#) [f](#) [t](#) [e](#) [...](#) [t](#) [r](#)



The Invasion Curve



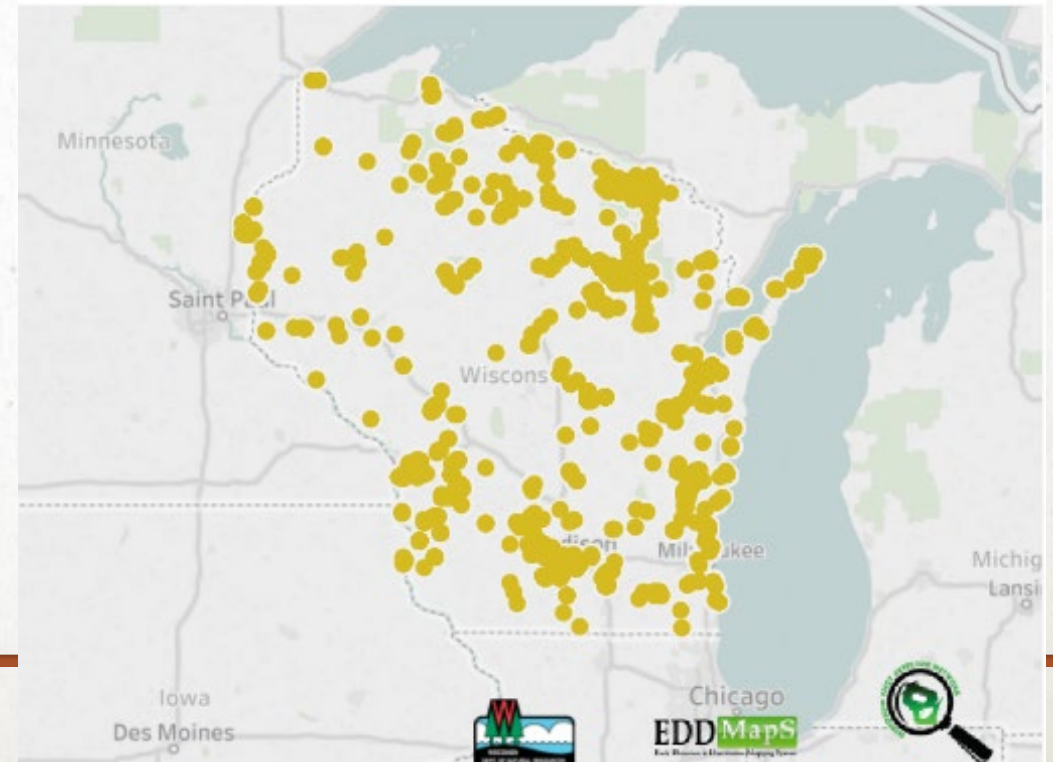
EXAMPLE OF A WIDESPREAD INVASIVE SPECIES IN WISCONSIN

**GARLIC MUSTARD
WIDESPREAD**



**MORE THAN 5,000 KNOWN
LOCATIONS IN WISCONSIN**

Wisconsin Shared Terrestrial Invasive
Plant Presence Viewer



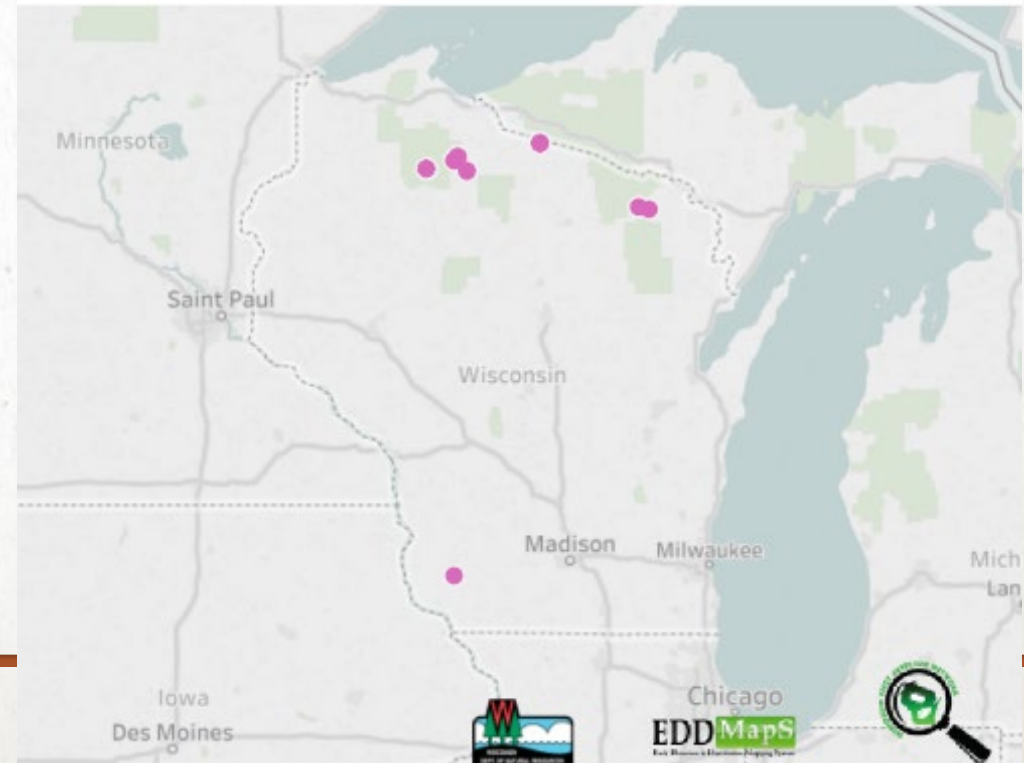
EXAMPLES OF AN EARLY INVASIVE SPECIES IN WISCONSIN

SMOOTH BEDSTRAW EARLY DETECTION



LESS THAN 50 KNOWN LOCATIONS

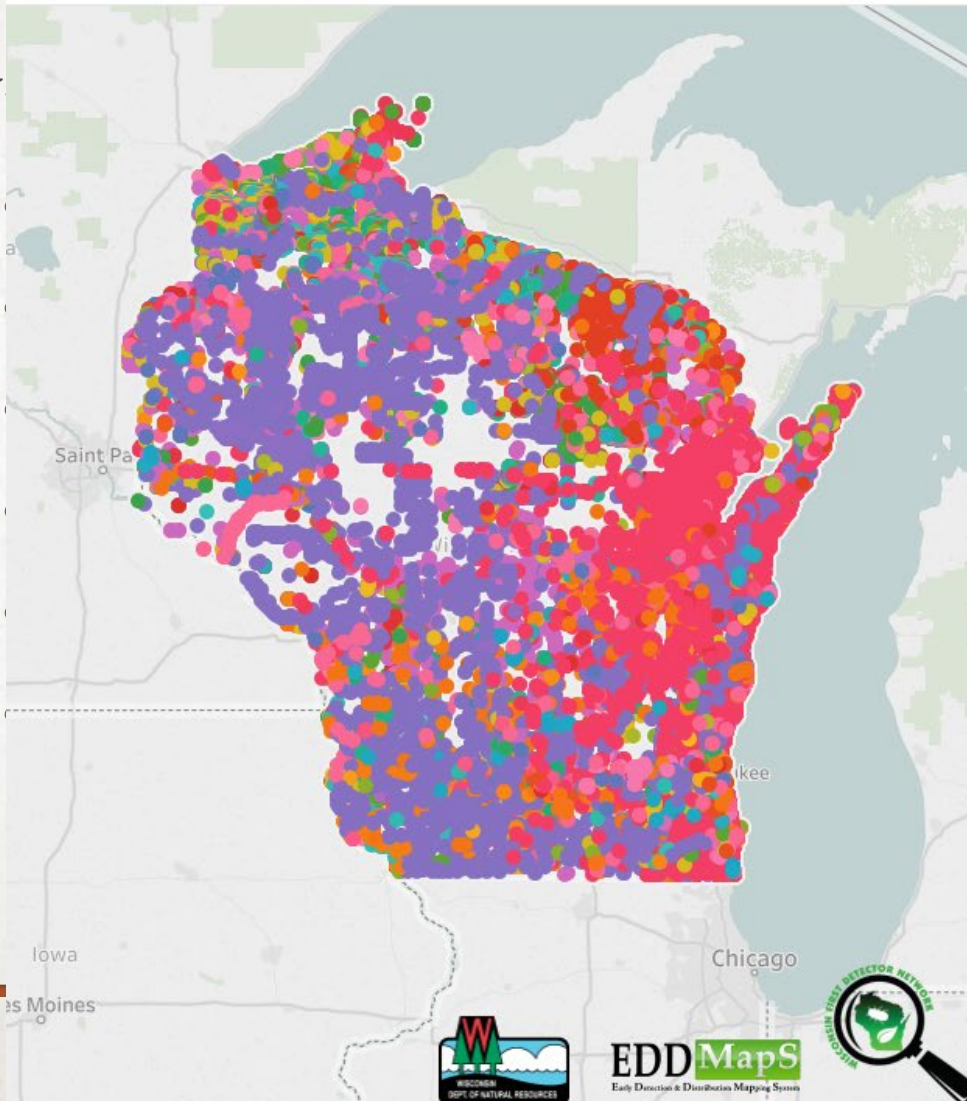
Wisconsin Shared Terrestrial Invasive Plant Presence Viewer



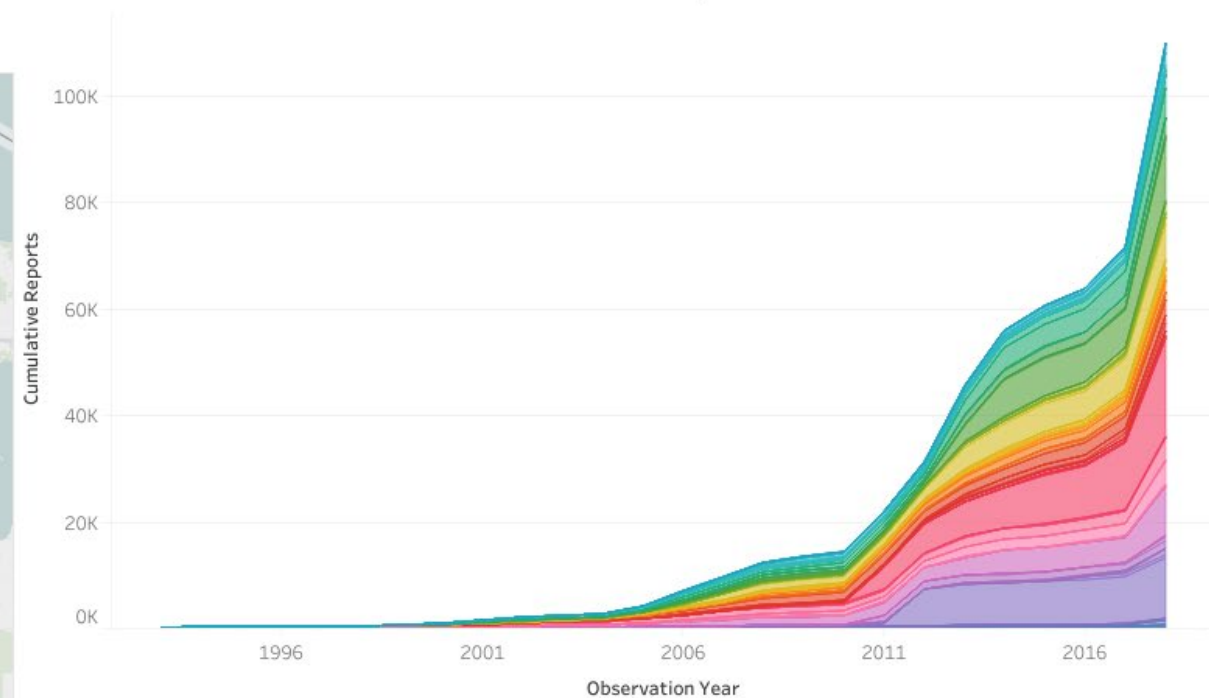
HOW BIG IS THIS PROBLEM?

Wisconsin Shared Terrestrial Invasive Plant Presence Viewer

W



Cumulative Number of Reports Over Time¹



- | | | | | |
|------------------------|---------------------|---------------------|------------------------|--------------------|
| ■ ABSINTH WORMWOOD | ■ BABYSBREATH | ■ BLACK LOCUST | ■ BROWN KNAPWEED | ■ CHEATGRASS |
| ■ AMUR CORKTREE | ■ BELLS HONEYSUCKLE | ■ BLACK SWALLOWWORT | ■ BURNET-SAXIFRAGE | ■ CHINESE YAM |
| ■ AMUR HONEYSUCKLE | ■ BIGLEAF LUPINE | ■ BLACKBERRY LILLY | ■ BUSH HONEYSUCKLES... | ■ CHOCOLATE VINE |
| ■ AMUR MAPLE | ■ BIRDSFOOT TREFOIL | ■ BLUEBUTTONS | ■ BUTTERFLY DOCK | ■ COLTSFOOT |
| ■ AQUATIC FORGET-ME... | ■ BISHOPS GOUTWEED | ■ BOHEMIAN KNOTWEED | ■ CALLERY PEAR | ■ COMMON BARBEI... |
| ■ AUTUMN OLIVE | ■ BLACK ALDER | ■ BRISTLY LOCUST | ■ CANADA THISTLE | ■ COMMON BUCKTH... |

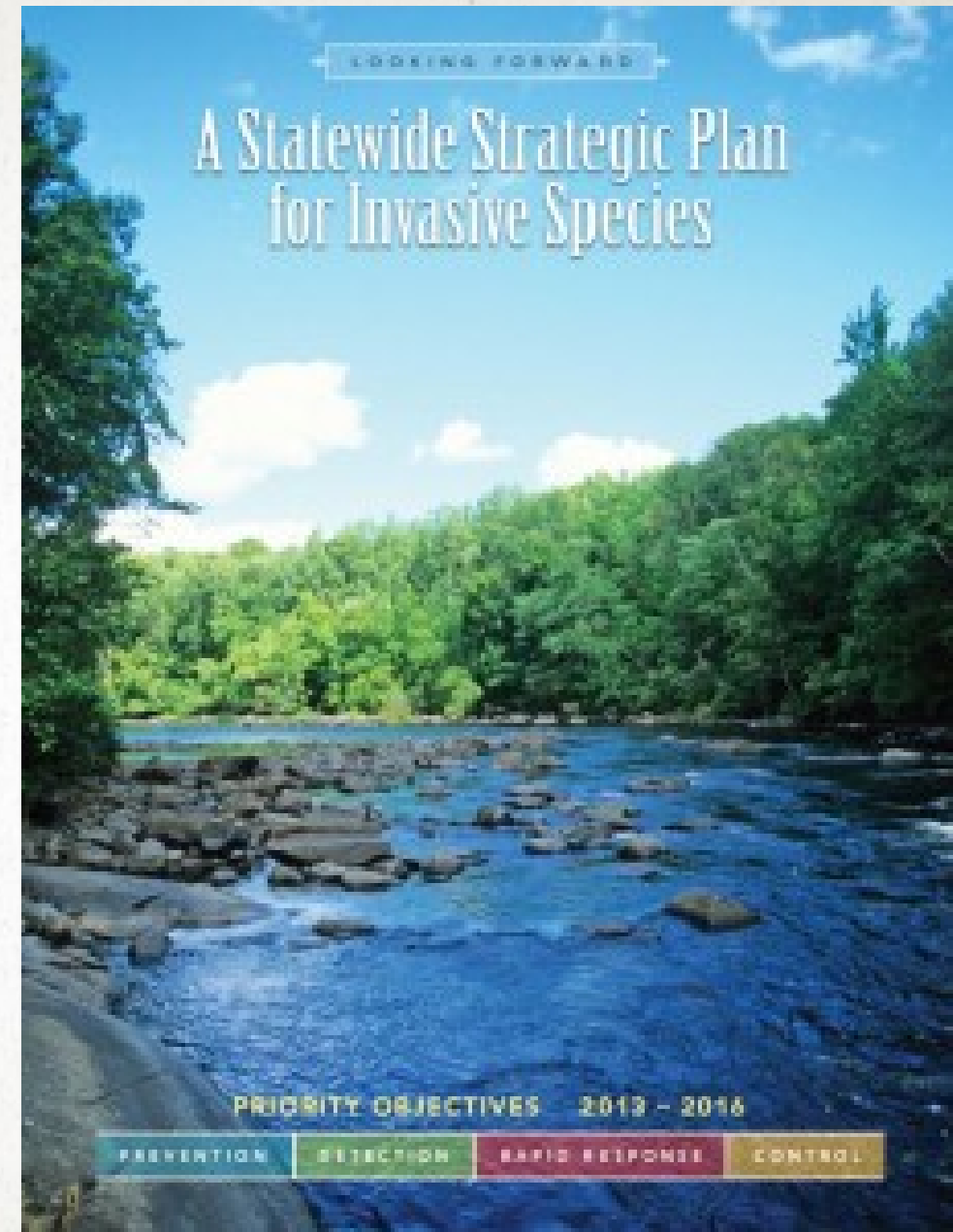
Classification: All
 Common Name: All
 Observation Date Range: 1992 to 2018 and Null values

¹Due to internal policies, some wetland species locations are unable to be shared.

ALL IS NOT LOST.....

Many parts of WI are not invaded

- Efforts have been to
 - prevent further spread
 - minimize impacts
- Limited \$\$\$ is available to conduct most of this work
 - Need to coordinate efforts among organizations/agencies
 - Train citizen scientists to help



WHAT CAN YOU DO TO MINIMIZE THE IMPACT OF INVASIVE SPECIES?

1. Educate yourself on invasive species
2. Report new invasive species observations
3. Work with policy makers to develop management plans for species of concern





A statewide citizen science network for invasive species detection and education

Main goals:

1. Educate citizens
2. Facilitate their involvement in volunteer activities related to invasive species

WIFDN RESOURCES

FYI.UWEX.EDU/WIFDN

- Detailed information
 - Invasive species identification/management
 - Recorded webinars
 - Tools to help
- Newsletter
- In person workshops
- Volunteer opportunities



FYI.UWEX.EDU/WIFDN



Wisconsin First Detector Network

Awareness of the Unusual



[Home](#) [WISTIPP Viewer](#) [Learn »](#) [Get Involved »](#) [Pond Watchers »](#) [2018 Video Series](#) [Report a Pigweed](#) [Who We Are](#)

Welcome to the Wisconsin First Detector Network!

The Wisconsin First Detector Network (WIFDN) is a citizen science network that empowers people to take action against invasive species through invasive species monitoring, management, and outreach. WIFDN provides training and resources through a combination of webinars, instructional videos, and hands-on workshops, in addition to providing volunteer opportunities to citizen scientists.

News

October GLEDN Challenge

October is the last month of the 2018 GLEDN Monthly Challenge. **October's challenge is to submit 3 or more reports of ANY invasive species observed in Wisconsin.** You can submit reports via the [GLEDN app](#), on the [EDDMaps website](#), or by emailing WIFDNcoordinator@gmail.com.

The **GLEDN County Challenge** continues! Complete the County Challenge by being the first person to submit a report from a Wisconsin county! The map below shows counties from which we've received first reports in January – August 2018; counties in red had first reports in September.



I WANT TO:

- [Report invasive species](#)
- [Access fact sheets and I.D. videos](#)
- [Report a Pigweed](#)

SUBSCRIBE TO WIFDN UPDATE



Click the image above to subscribe to the WIFDN Update email newsletter. You will learn about upcoming events, species alerts, and invasive species news.



WIFDN Update

September 20th, 2018

In this update:

1. Species Alert- Callery Pear
2. September GLEDN Challenge
3. GLEDN County Challenge
4. More Fall Invasive Species
5. Announcements from Partners





Wisconsin First Detector Network

Awareness of the Unusual

[Home](#) [WISTIPP Viewer](#) [Learn »](#) [Get Involved »](#) [Pond Watchers »](#) [2018 Video Series](#) [Report a Pigweed](#)

Welcome to the Wisconsin First Detector Network!

The Wisconsin First Detector Network is a statewide network of citizen scientists that empowers people to take action and report invasive species through inventory and monitoring. We provide resources through a combination of online tools and hands-on workshops, in addition to providing volunteer opportunities to citizens.

[What are invasive species?](#)

[Invasive Species I.D. and Impacts](#)

[Priority Invasive Species Story Map](#)

[Managing Invasive Species](#)

[Invasive Plant Organizations](#)

Work!

Work that empowers people to take action and report invasive species through inventory and monitoring. WIFDN provides training and hands-on workshops, in addition to providing volunteer opportunities to citizens.

Terrestrial Plants

Use the UW Online Weed Key to help identify invasive plants: [video](#) – [website](#)

Visit this [story map](#) to access species distribution maps, additional I.D. information, and priority species in your county

| Common Name | Scientific Name | Video | Fact Sheet |
|---------------------|--------------------------------|-----------------------|----------------------------|
| Biennial thistles | | – | fact sheet |
| Bird's-foot trefoil | <i>Lotus corniculatus</i> | – | fact sheet |
| Black locust | <i>Robinia pseudoacacia</i> | – | fact sheet |
| Black swallow-wort | <i>Vincetoxicum nigrum</i> | video | fact sheet |
| Buckthorns | | – | fact sheet |
| Bush honeysuckles | <i>Lonicera sp.</i> | video | fact sheet |
| Canada thistle | <i>Cirsium arvense</i> | video | fact sheet |
| Common tansy | <i>Tanacetum vulgare</i> | video | fact sheet |
| Creeping bellflower | <i>Campanula rapunculoides</i> | video | fact sheet |
| Crown vetch | <i>Securigera varia</i> | video | fact sheet |
| Dame's rocket | <i>Hesperis matronalis</i> | video | fact sheet |
| Field bindweed | <i>Convolvulus arvensis</i> | – | fact sheet |
| Garden valerian | <i>Valeriana officinalis</i> | video | – |
| Garlic mustard | <i>Alliaria petiolata</i> | video | fact sheet |
| Hill mustard | <i>Bunias orientalis</i> | video | fact sheet |



Dr. Mark Renz
UW- Madison



Japanese Hop, identification of the Wisconsin Invasive Species *Humulus japonicus*



Japanese Hop, identification of the Wisconsin Invasive Species *Humulus japonicus*

Japanese Hop, identification of the Wisconsin Invasive Species *Humulus japonicus*

4,019 views

LIKE DISLIKE SHARE

DETAILED CONTROL INFORMATION

MANAGEMENT OF

A3924-34

Japanese barberry (*Berberis thunbergii*)

Japanese barberry is a round, dense, spiny shrub, typically 2–3' tall, though it may grow up to 6' tall and 6' wide. The branches are reddish brown and deeply grooved with a single, sharp spine at each node. The wood beneath the bark is yellow. It spreads vegetatively through branches that root freely when they touch the ground.

Legal classification in Wisconsin:

All wild plants are restricted. Select varieties/hybrids are also restricted. Consult Wisconsin's invasive species rule (NR 40) for details.

Leaves: Alternate, 0.5–1.5" long, entire, and shaped like a spatula with a narrow base and wide end (spatulate). Color varies depending on the cultivar, but includes green, bluish-green, or dark reddish-purple. Leaves are arranged in clusters above a spine.

Flowers: Mid-spring. Yellow, umbrella-shaped, 0.25" across with 6 petals. Flowers are found along the stem individually or in clusters of 2–4.

Fruits and seeds: Bright-red, oblong berries, 0.3" long. Fruit are found on narrow stalks along the stem individually or in clusters of 2–4. Fruit mature in mid-summer and can persist on shrub into winter.

Roots: Shallow root system. When scratched, the inner layer of the root is yellow.

Similar species: European barberry (*Berberis vulgaris*) is another introduced species that is sometimes invasive. European barberry spines occur in sets of 3, while Japanese barberry spines occur singly.

Ecological threat:

- Invades open and closed canopy forests, woodlands, oak savannas, wetlands, pasture, and meadows. Grows more vigorously on well-drained soils.
- Seeds are readily dispersed by birds.
- Sites infested with Japanese barberry have significantly more deer ticks (*Ixodes scapularis*) than sites where Japanese barberry control efforts have taken place or where barberry is not present.

Non-chemical control

Removal

Effectiveness in season: 90–100%
Season after treatment: 70–90%

Pulling or digging up small- to medium-sized barberry any time of the year is an effective individual plant control strategy if soil conditions are amenable. Remove the root crown, as Japanese barberry resprouts from that area. Small bushes can be pulled by hand and larger bushes can be pulled using a leverage tool. Digging up soil surrounding larger bushes can facilitate plant removal. If fruiting, avoid movement unless material can be transported without spreading fruit to other locations.



INVASIVE PLANTS
IN WISCONSIN

Brendon Panke and Mark Renz

Invasive plants can thrive and aggressively spread beyond their natural range, disrupting ecosystems. The *Management of Invasive Plants in Wisconsin* series explains how to identify invasive plants and provides common management options. Management methods recommend specific timings for treatment, as well as expected effectiveness.

UW
Extension
University of Wisconsin-Extension



Detailed info on

1. Identification
2. Methods
3. Effectiveness
4. Warnings

Mowing

Effectiveness in season: 50–70%
Season after treatment: < 50%

Mow or cut when flowering but prior to fruit production. Mow or cut plants as close to the ground as possible. Mowing or cutting will need to be repeated for a number of years to reduce established populations. Mowing resprouting barberry after initial removal of a plant can prevent reestablishment of the resprouting plant.

Prescribed burning

Effectiveness in season: 50–70%
Season after treatment: < 50%

Spring burns can kill germinating seedlings and suppress aboveground growth of established plants, depending on fire intensity. After fire, established plants will quickly resprout and reinvade areas. Cutting barberry in spring, followed by a summer burn is the most effective burning regime. Burns must be repeated annually for 2–5 years to suppress established populations. A hand-held propane torch can be effective for treating seedlings or barberry plants that are less than 4" in diameter.

Chemical control

Foliar

Apply directly to individual plants or broadcast across an infested area. Broadcasted foliar applications are typically the most cost-effective treatment in dense infestations. Use lower rates on smaller plants and less dense populations and higher rates on larger plants and denser populations. Absorption of herbicide can be limited with this species, resulting in reduced effectiveness. Including a surfactant at 0.25–0.5% can alleviate any potential reduction. If infestations are mixed with desirable vegetation, applications of herbicide without soil activity in the early spring or late fall can reduce injury to desirable plants, as barberry leafs out earlier and drops leaves later than most desirable vegetation.

dicamba + 2,4-D*

Effectiveness in season: 70–90%
Season after treatment: 70–90%

Common name: Outlaw

Rate:

broadcast: 28–44 fl oz/A
(dicamba: 0.2–0.4 lb a.e./A + 2,4-D: 0.3–0.5 lb a.e./A)
spot: 0.8% (dicamba: 0.01 lb a.e./gal + 2,4-D: 0.01 lb a.e./gal)

Timing: Apply when target species is actively growing and fully leafed out. While plant is fruiting is the most effective treatment time.

Caution: Do not apply directly to water or to areas where surface water is present. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Overspray or drift to desirable plants should be avoided, as even minute quantities of the spray may cause severe injury to plants. Rates > 16 oz/A (0.5 lb a.e./A) may cause stunting and discoloration of sensitive grasses, such as smooth brome.

glyphosate*

Effectiveness in season: 70–90%
Season after treatment: 50–70%

Common name: Roundup

Rate:

broadcast: 1.5–3 lb a.e./A
spot: For a 3 lb a.e./gal product. 1–2% (0.03–0.06 lb a.e./gal)

Timing: Apply when target species is actively growing and fully leafed out. While plant is fruiting is the most effective treatment time.

Caution: Use product labeled for aquatic use if potential exists for solution to contact surface waters. Applications can result in bare ground as glyphosate is not selective. Overspray or drift to desirable plants should be avoided, as even minute quantities of the spray may cause severe injury to plants.

metsulfuron*

Effectiveness in season: 70–90%
Season after treatment: 70–90%

Common name: Escort

Rate:

broadcast: 1.0–2.0 oz/A
(0.6–1.2 oz a.i./A)
spot: 0.04 oz/gal (0.02 oz a.i./gal)

Timing: Apply when target species is actively growing and fully leafed out.

Caution: Do not apply directly to water or to areas where surface water is present. Remains in the soil for months depending on application rate. Overspray or drift to desirable plants should be avoided as even minute quantities of the spray may cause severe injury to plants.

tridopyr*

Effectiveness in season: 70–90%
Season after treatment: 70–90%

Common name: Element 4

Rate:

broadcast: 16–32 fl oz/A
(0.5–1.0 lb a.e./A)
spot: 1–2% (0.04–0.08 lb a.e./gal)

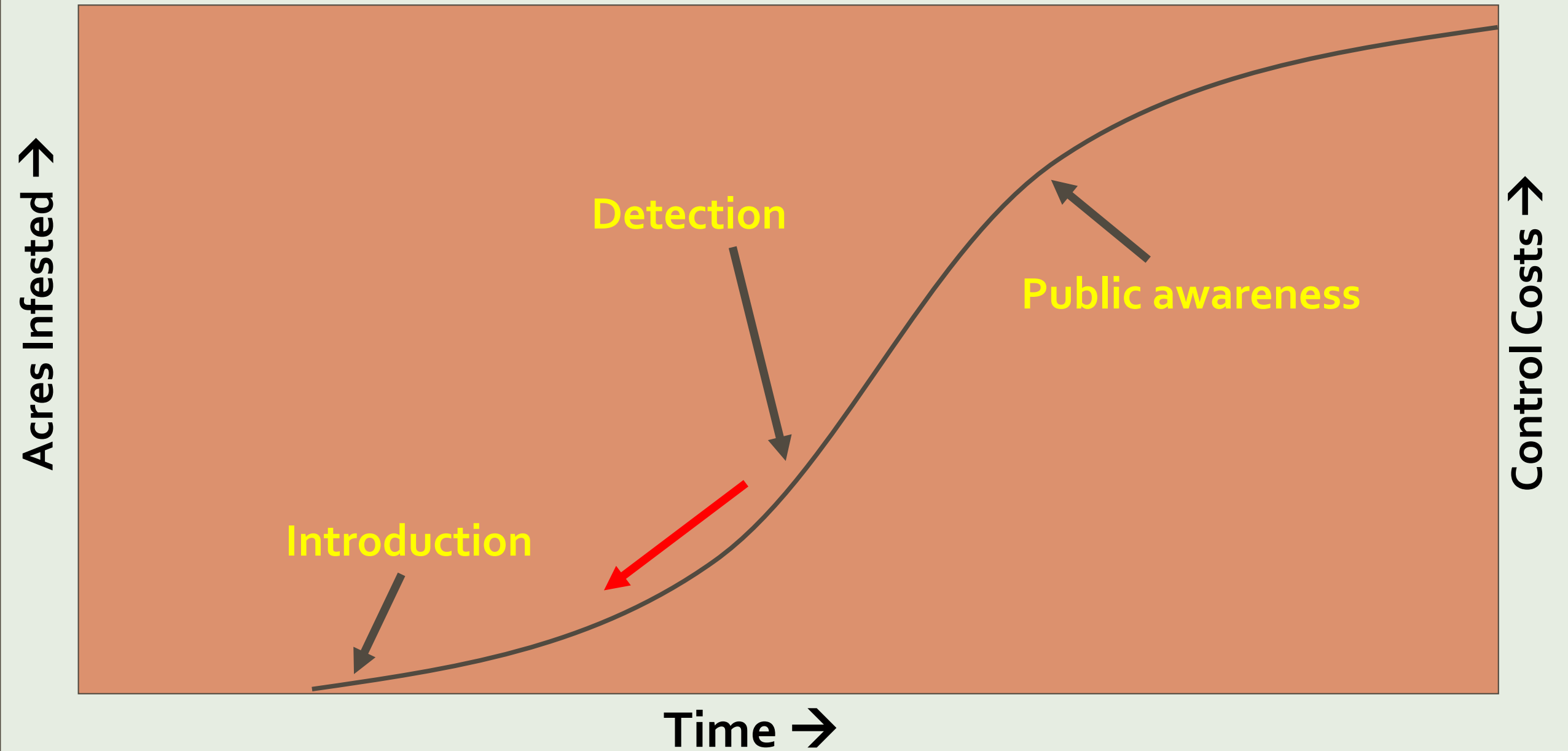
Timing: Apply when target species is actively growing and fully leafed out. While plant is fruiting is the most effective treatment time.

Caution: Use product labeled for aquatic use if potential exists for solution to contact surface waters. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Overspray or drift to desirable plants should be avoided as even minute quantities of the spray may cause severe injury to plants.

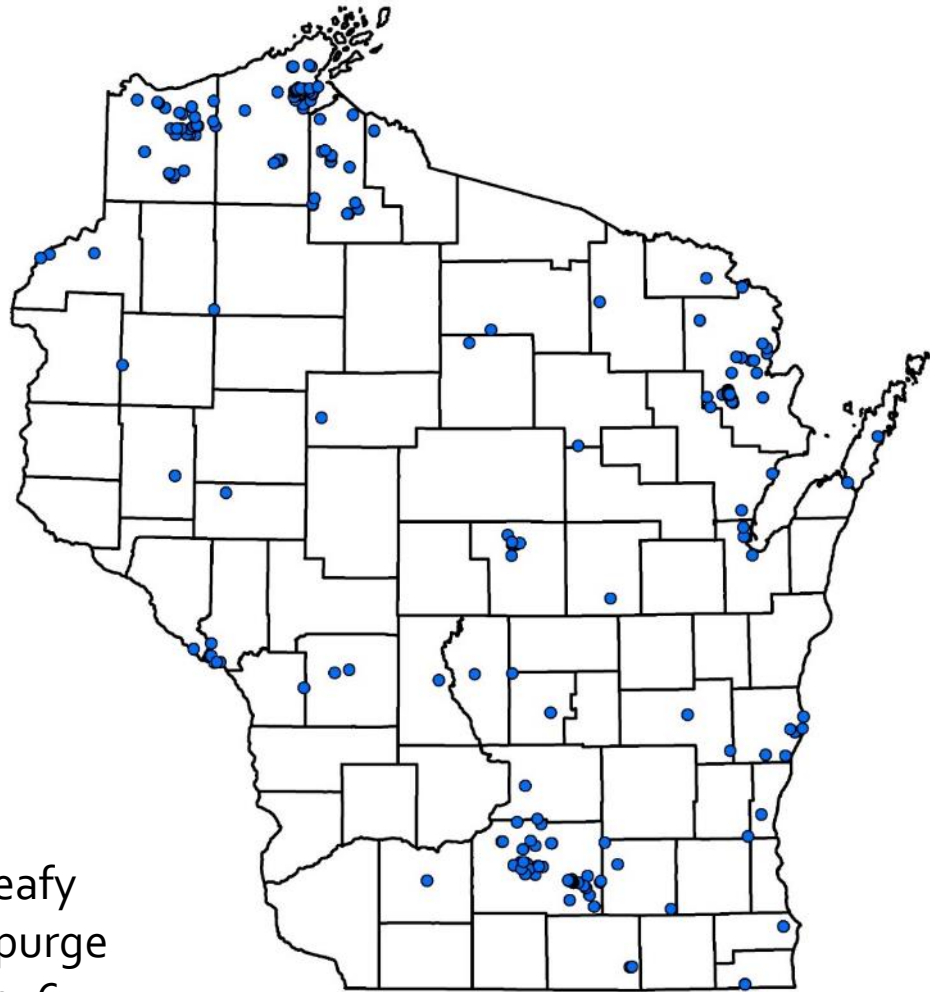
SPECIES WITH FACTSHEETS

- Amur honeysuckle
- Asian bitterweet
- Bell's honeysuckle
- bird's-foot trefoil
- black locust
- black swallowwort
- border privet
- bull thistle
- Canada thistle
- common buckthorn
- common privet
- common tansy
- common teasel
- creeping bellflower
- crown vetch
- cut-leaved teasel
- dame's rocket
- European marsh thistle
- field bindweed
- garlic mustard
- glossy buckthorn
- hill mustard
- hybrid cattail
- Japanese barberry
- Japanese hedge parsley
- Japanese honeysuckle
- Japanese hop
- Japanese knotweed
- Japanese stiltgrass
- leafy spurge
- Morrow's honeysuckle
- multiflora rose
- musk thistle
- narrow-leaved cattail
- plumeless thistle
- poison hemlock
- purple loosestrife
- quackgrass
- sericea lespedeza
- spotted knapweed
- spreading hedge parsley
- Tatarian honeysuckle
- tree-of-heaven
- white sweetclover
- wild chervil
- wild parsnip
- yellow sweetclover

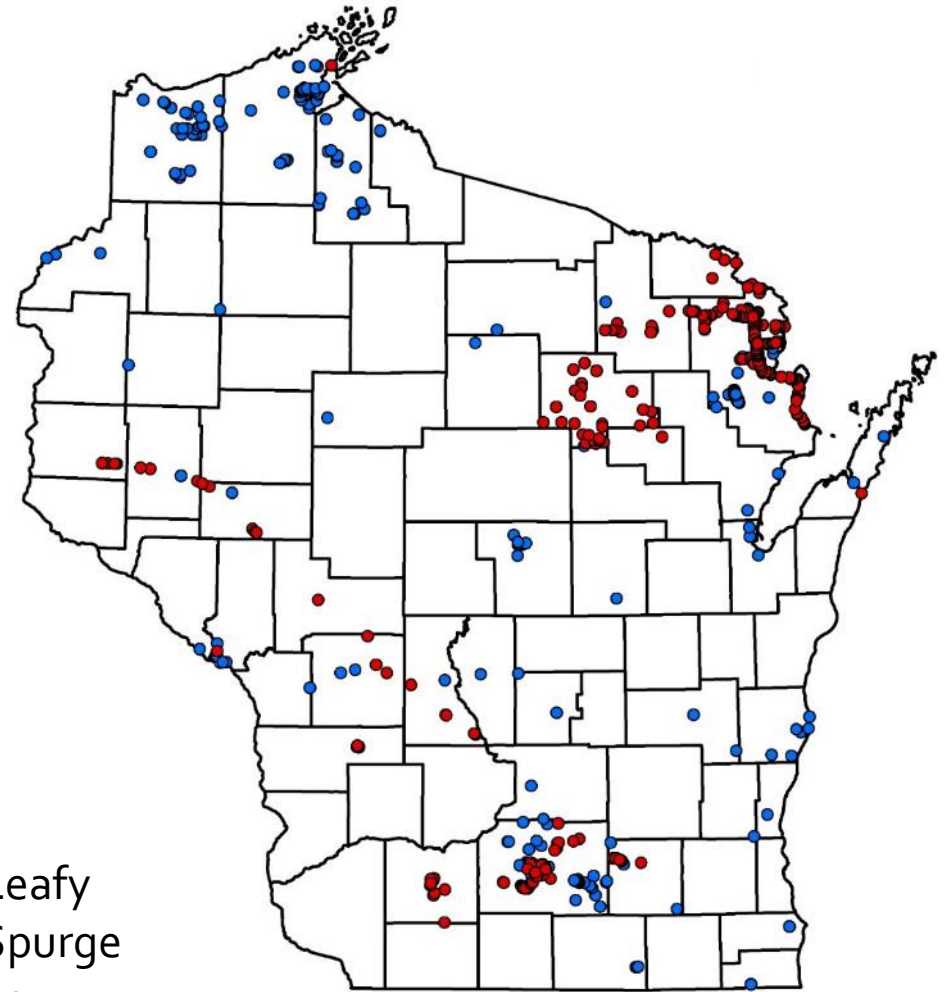
The Invasion Curve



IMPROVE KNOWLEDGE OF DISTRIBUTION



Leafy Spurge 2016



Leafy Spurge 2017

HOW TO REPORT INVASIVE SPECIES

MONITORING HANDBOOK AT FYI.UWEX.EDU/WIFDN



Wisconsin First
Detector
Network
Awareness of the Un

[Home](#) » [Get Involved](#) » [Report Invasive Species](#)

Report Invasive Species

New Check out our new handbook [Monitoring Invasive Plants in Wisconsin.](#)

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

[Home](#) [Learn](#) » [Get Involved](#) » [2018 Video Series](#)

Welcome to the Wisconsin First Detector Network

The Wisconsin First Detector Network (WIFDN) is a citizen science network that empowers people to take action against invasive species through invasive species monitoring, management, and outreach. WIFDN provides training and resources through a combination of webinars, instructional videos, and hands-on workshops, in addition to providing volunteer opportunities to citizen scientists.

- [Report invasive species](#)
- [Access fact sheets and I.D. videos](#)
- [Report a Pigweed](#)

MONITORING INVASIVE PLANTS IN WISCONSIN



Wisconsin First Detector Network + Dane County Parks

Contents

| | |
|--|----|
| PART 1: MONITORING INVASIVE SPECIES | 3 |
| What are invasive species? | 3 |
| Why monitor invasive species? | 3 |
| PART 2: IDENTIFYING INVASIVE PLANTS | 4 |
| Online tools to help identify unknown species | 4 |
| What species to look for | 4 |
| PART 3: HOW TO REPORT INVASIVE SPECIES | 5 |
| Reporting on the EDDMaps Website | 5 |
| Step 1: Create an EDDMaps Account | 5 |
| Step 2: Click on "Report Sightings" | 5 |
| Step 3: Fill out the Reporting Form | 6 |
| Reporting with the GLEDN App | 9 |
| Step 1: Select Species to Report | 9 |
| Step 2: Allow GPS Tracking | 10 |
| Step 3: Fill in Infestation Information | 10 |
| Step 4: Upload Your Reports | 13 |
| Negative Reports with GLEDN | 14 |
| Step 1: Open Negative Report Form | 14 |
| Step 2: Fill out Negative Report Form | 14 |
| Step 3: Upload Your Reports | 14 |
| PART 4: WHAT HAPPENS TO YOUR REPORTS? | 15 |
| PART 5: TECHNOLOGY TIPS | 16 |
| Using the GLEDN App Without Wi-fi or Data Connection | 17 |
| External GPS Receivers | 17 |
| Pre-loading the Map | 17 |
| PART 6: TIPS FOR THE FIELD | 18 |
| Time Constraints | 18 |
| Time of the Season | 18 |
| Access | 18 |
| Public Property | 18 |
| Private Property | 18 |
| Roadsides | 18 |

INFORMATION TO REPORT

- Species name
- Date of observation
- Location
- Pictures of observed infestation

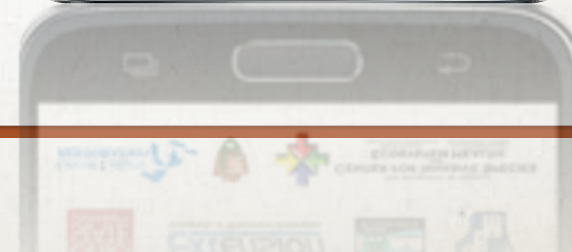


THREE WAYS TO REPORT

- 1) Online form on EDDMapS website
 - 2) Great Lakes Early Detection Network (GLEDN) app
 - 3) Email report to WIFDNcoordinator@gmail.com
-

GLEDN FEATURES

- Free!
- Maps invasive species
- Built-in field guide
- Reports verified
- Integrated with EDDMapS



**SEND AN EMAIL TO
WIFDNCOORDINATOR@GMAIL.COM
WITH THE FOLLOWING
INFORMATION:**

- Species name
- Date of observation
- Location (lat/long, or show on map)
- Pictures of observed infestation



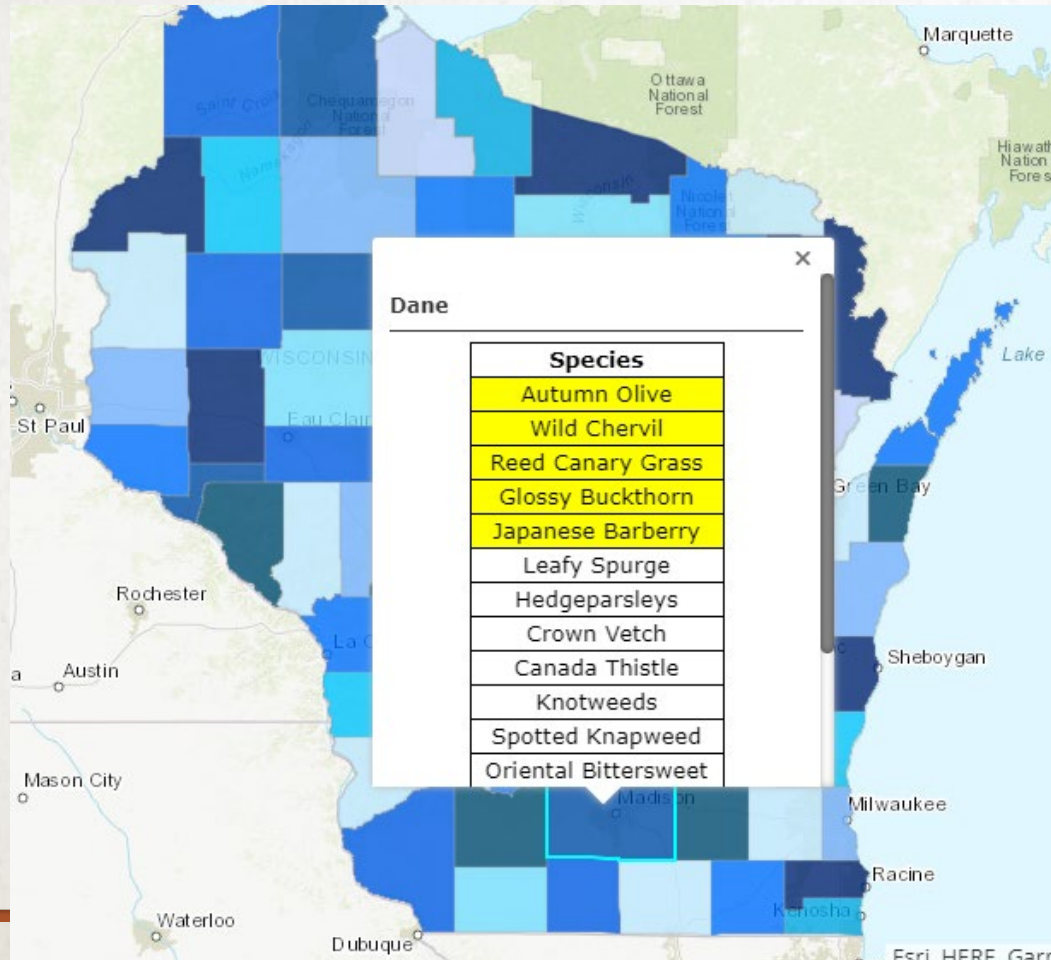
CITIZEN SCIENCE PROJECTS WITH WIFDN

1. REPORT ANY INVASIVE SPECIES

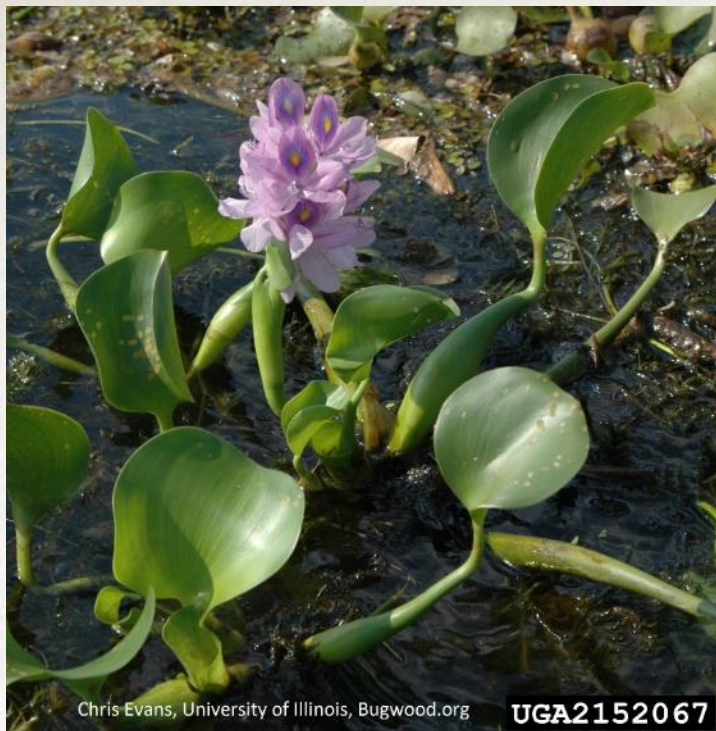
- Plants that have naturalized; i.e. they weren't planted on purpose
- 3 options
 - Fill out form on EDDMapS website
 - Use GLEDN app
 - Email WIFDNcoordinator@gmail.com

More information on reporting
provided at fyi.uwex.edu/wifdn

2. REPORT COUNTY PRIORITY SPECIES



- Access story map at fyi.uwex.edu/wifdn
 - Click on “Learn” tab, then on “Invasive Species Priority Map”
- Click on your county to view list of priority species
- Report species via EDDMapS, GLEDN, or email



3. POND WATCHERS

- Look for high priority aquatic invasive plants in park ponds
- Report efforts to WIFDN
 - WIFDN shares with AIS team at DNR
- Visit Pond Watchers page at fyi.uwex.edu/wifdn





4. REPORT A PIGWEED

- Learn about and report Palmer amaranth and waterhemp
- Visit Report a Pigweed page at fyi.uwex.edu/wifdn





5. CREATE YOUR OWN PROJECT

- WIFDN is here to help you!
- Developing project
- Training participants
- Managing data

ADDITIONAL RESOURCES

Identification and Management of Invasive Plants in Wisconsin

Invasive plants can thrive and aggressively spread beyond their natural range, disrupting ecosystems. The *Identification and Management of Invasive Plants in Wisconsin* video and fact sheet series explains how to identify invasive plants and provides common management options. Management methods recommend specific timings for treatment, as well as expected effectiveness. For more information, go to: fyi.uwex.edu/wifdn/learn/invasive-species-i-d-and-impacts



Autumn olive (*Elaeagnus umbellata*)
Russian olive (*Elaeagnus angustifolia*)

Biennial thistles
(bull, European marsh, musk, plumeless)

Black locust (*Robinia pseudoacacia*)

Bird's-foot trefoil (*Lotus corniculatus*)

Black swallow-wort
(*Vincetoxicum nigrum*)

Common buckthorn
(*Rhamnus cathartica*)

Glossy buckthorn (*Frangula alnus*)

Bush honeysuckles (*Lonicera* spp.)

Canada thistle (*Cirsium arvense*)

Common tansy (*Tanacetum vulgare*)

Creeping bellflower
(*Campanula rapunculoides*)

Crown vetch (*Securigera varia*)

Dame's rocket (*Hesperis matronalis*)

Field bindweed (*Convolvulus arvensis*)

Garden valerian (*Valeriana officinalis*)

Garlic mustard (*Alliaria petiolata*)

Hedge-parsleys (*Torilis* spp.)

Hill mustard (*Bunias orientalis*)

Japanese barberry (*Berberis thunbergii*)

Japanese honeysuckle
(*Lonicera japonica*)

Japanese hop (*Humulus japonicas*)

Japanese knotweed
(*Polygonum cuspidatum*)

Bohemian knotweed
(*P. x bohemicum*)

Giant knotweed (*P. sachalinense*)

Japanese stiltgrass
(*Microstegium vimineum*)

Leafy spurge (*Euphorbia esula*)

Multiflora rose (*Rosa multiflora*)

Oriental bittersweet
(*Celastrus orbiculatus*)

Perennial pepperweed
(*Lepidium latifolium*)

Poison hemlock (*Conium maculatum*)

Privet (*Ligustrum* spp.)

Purple loosestrife (*Lythrum salicaria*)

Quackgrass (*Elymus repens*)

Sericea lespedeza
(*Lespedeza cuneata*)

Spotted knapweed
(*Centaurea stoebe*)

Sweetclovers (*Melilotus* spp.)

Teasels (*Dipsacus* spp.)

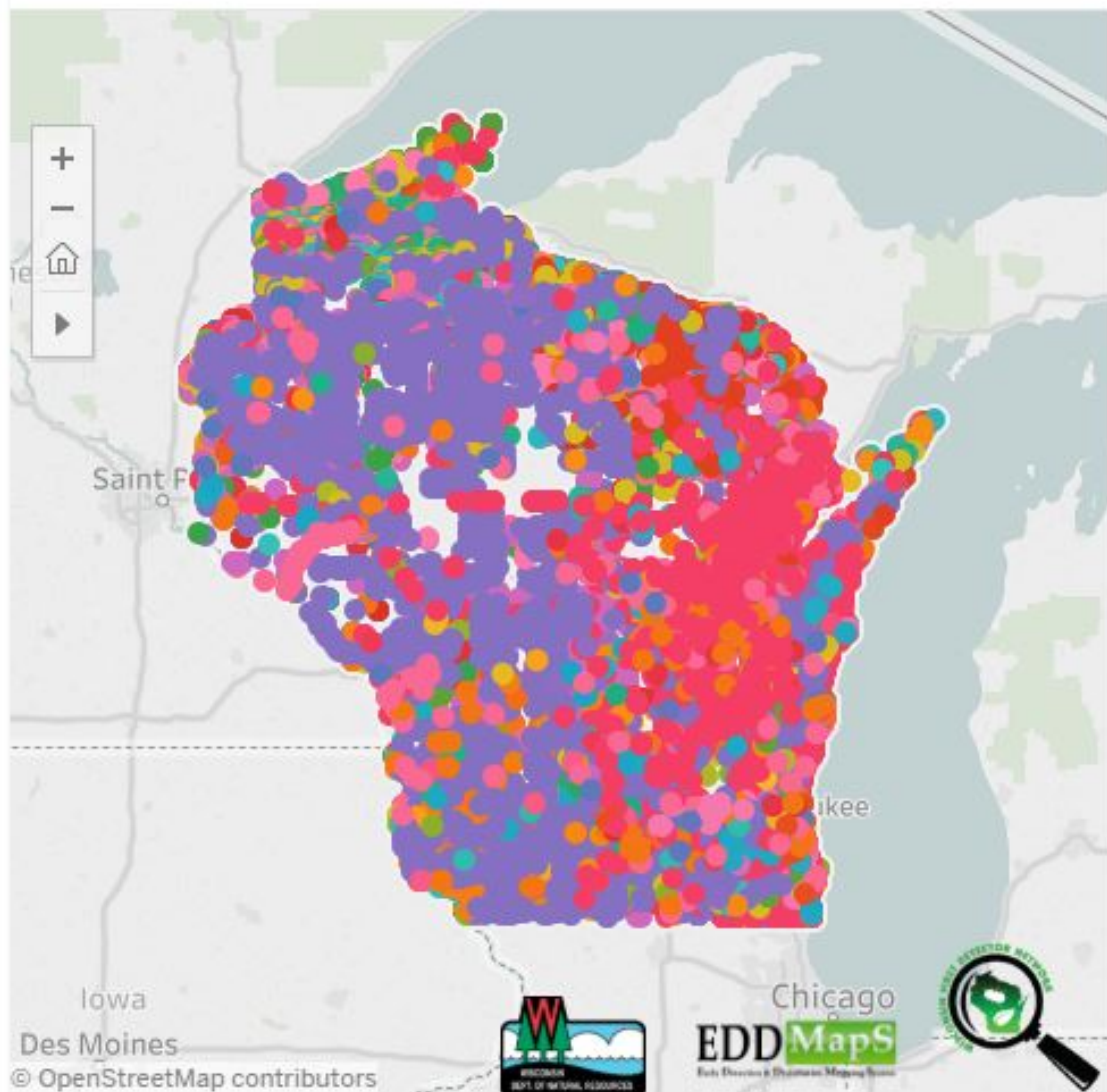
Tree-of-heaven (*Ailanthus altissima*)

Wild chervil (*Anthriscus sylvestris*)

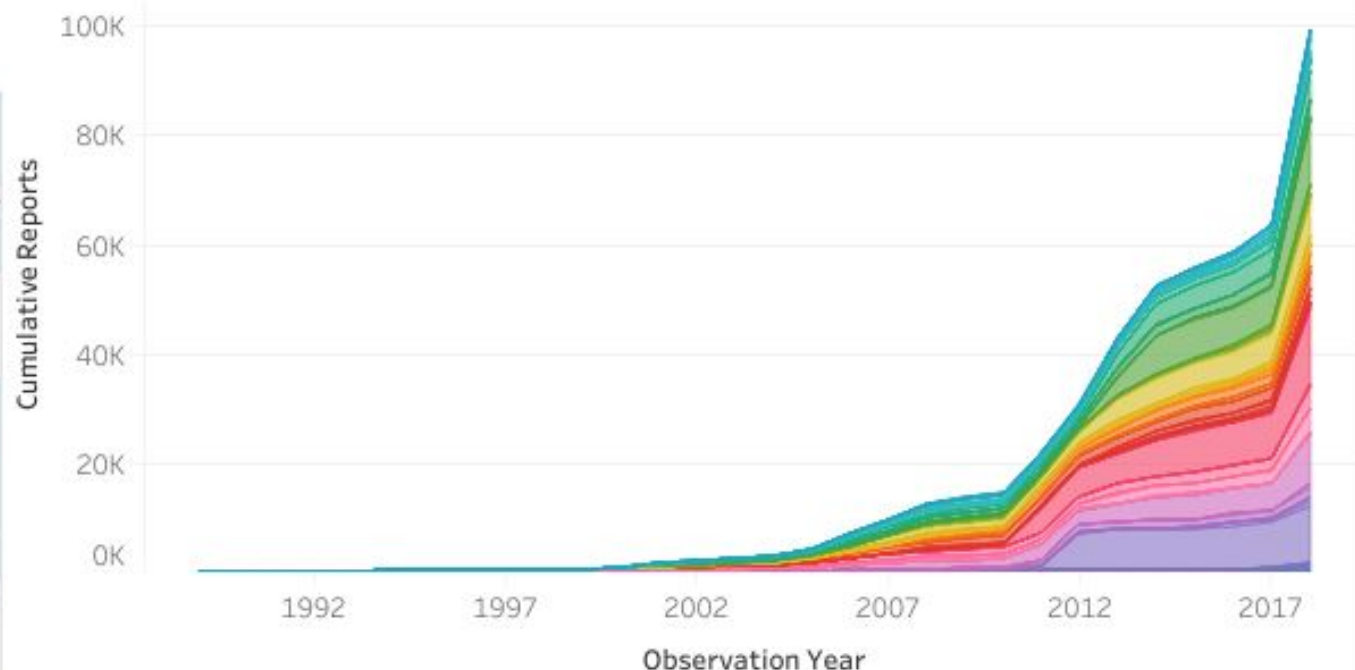
Wild parsnip (*Pastinaca sativa*)



Wisconsin Shared Terrestrial Invasive Plant Presence Viewer



Cumulative Number of Reports Over Time¹



- | | | | |
|--------------------|-------------------------|---------------------|--------------------|
| ■ ABSINTH WORMWOOD | ■ AQUATIC FORGET-ME-... | ■ BIGLEAF LUPINE | ■ BLACK LOCUST |
| ■ AMUR CORKTREE | ■ AUTUMN OLIVE | ■ BIRDSFOOT TREFOIL | ■ BLACK SWALLO... |
| ■ AMUR HONEYSUCKLE | ■ BABYSBREATH | ■ BISHOPS GOUTWEED | ■ BLACKBERRY LI... |
| ■ AMUR MAPLE | ■ BELLS HONEYSUCKLE | ■ BLACK ALDER | ■ BLUEBUTTONS |

Classification

(All) ▼

Common Name

(All) ▼

Observation Date Range

1988

2018

¹Due to internal policies, some wetland species locations are unable to be shared.

Last updated: 7/24/2018

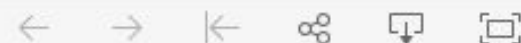
© OpenStreetMap contributors



Chicago
EDD Maps
Early Detection & Diagnostics Mapping System



+ a b | e a u



Priority Invasive Species Lists in Wisconsin

An Invasive Plants Story

County Specific Priority Lists

Autumn Olive

Canada Thistle

Common Buckthorn

Crown Vetch

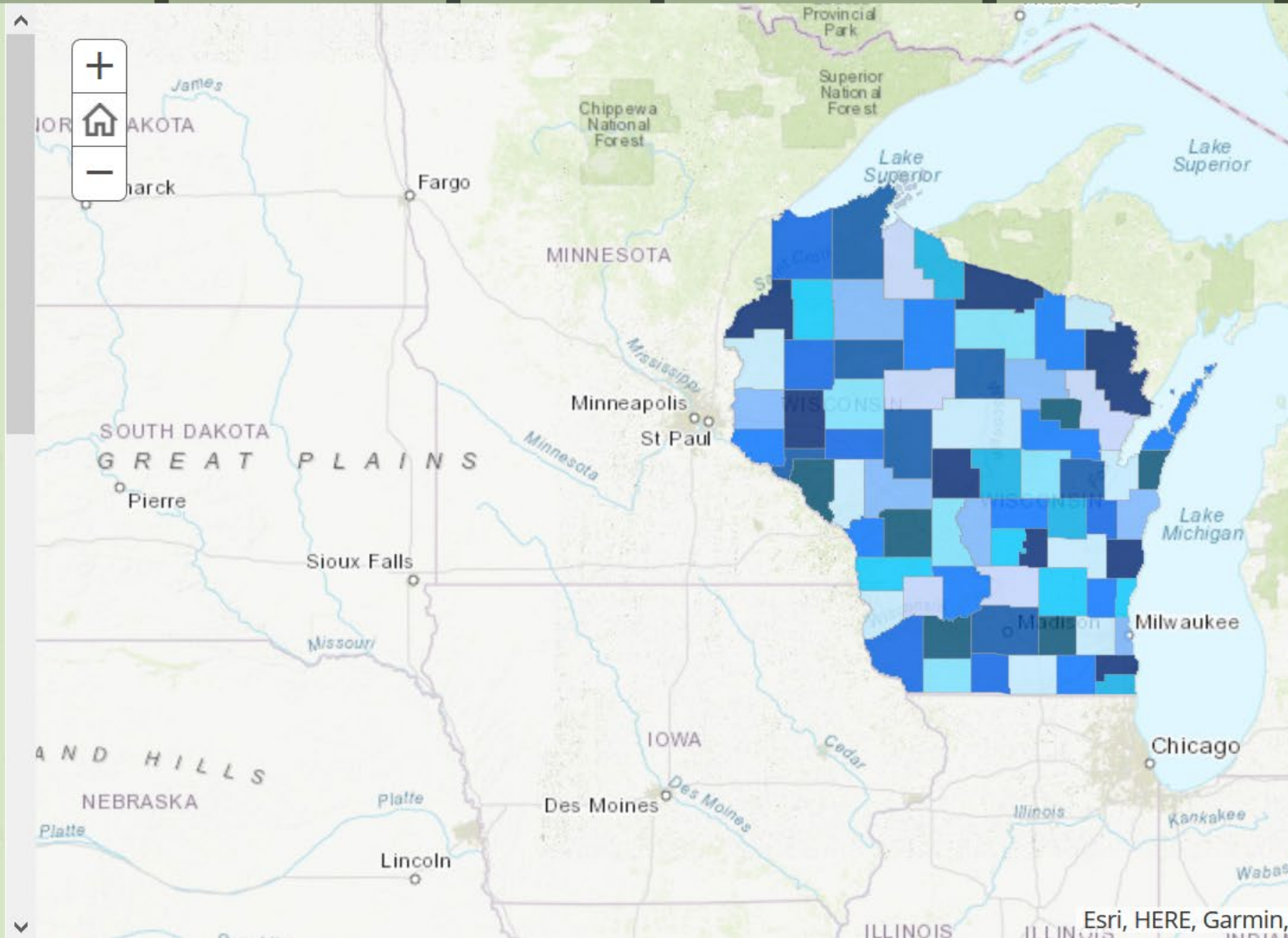
European Marsh Thistle

Exotic Honeysuckles

Invasive plants are a pervasive problem. The ability to detect an invasive species in the early stages of an invasion is critical to control and eradicate populations. The following map series depicts the results of efforts to model the suitable habitat of regulated invasive plants across the state of Wisconsin. This research was performed in the Renz Lab at the University of Wisconsin – Madison in conjunction with UW-Extension. ***Our goals are to:***

1. Provide a platform to investigate the current known distribution of select invasive plants
2. Display county-specific species lists for invasive species likely to be present (*10-15 species*)
3. Encourage reporting invasive species occurrences

If you are interested in getting involved with our project, we need help locating these (and other) species! Click on your county on the map to the right to find out which invasive plant species are of greatest priority. Species highlighted in ***yellow*** (high priority species) 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. If

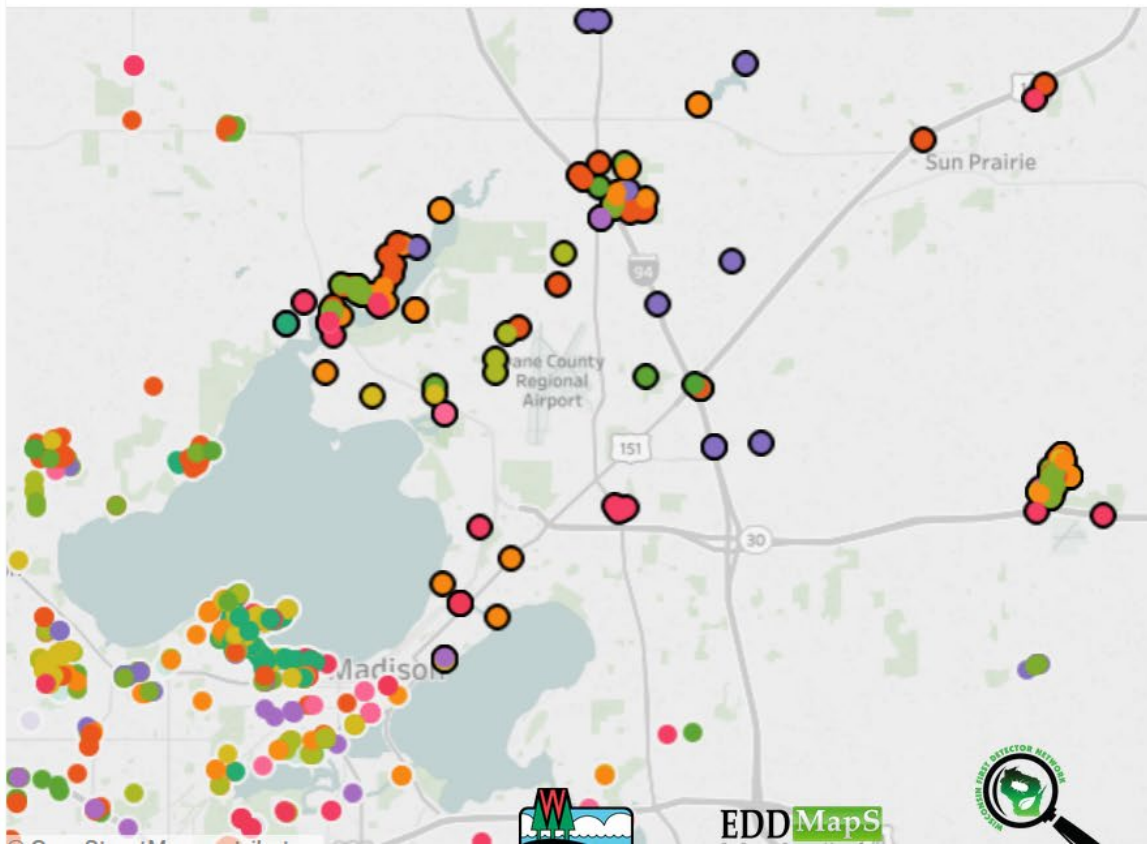


SO WHAT SPECIES ARE COMMON IN NEAR HEADQUARTERS?

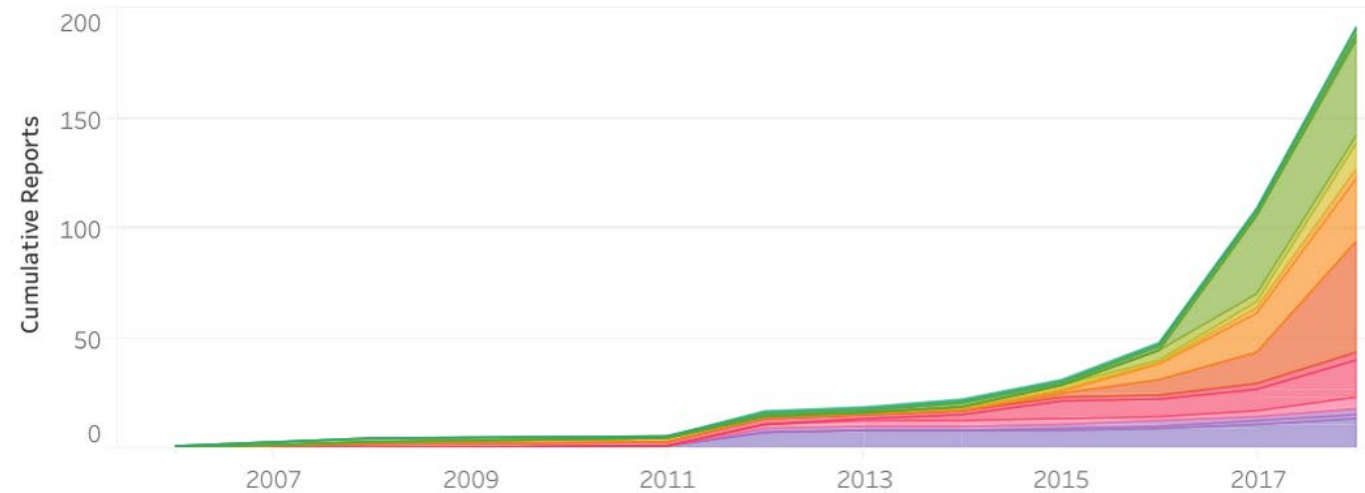
< Wisconsin First Detector Network - Profile

☆ Favorite Download Workbook

Wisconsin Shared Terrestrial Invasive Plant Presence Viewer



Cumulative Number of Reports Over Time¹



- BUSH HONEYSUCKLES ..
- CANADA THISTLE
- COMMON TANSY
- COMMON TEASEL
- CREeping BELLFLOWE..
- CROWN VETCH
- DAMES ROCKET
- GARDEN VALERIAN
- GARLIC MUSTARD
- HEDGE-PARSLAYS
- JAPANESE BARBERRY
- JAPANESE HEDGE-PA..
- KNOTV...
- LEAFY...
- ORIENT...

¹Due to internal policies, some wetland species locations are unable to be shared. Last updated: 9/28/2018

SO WHAT SPECIES ARE SUITABLE FOR DANE COUNTY?

Priority Invasive Species Lists in Wisconsin

An Invasive Plants Story

County Specific Priority Lists

Autumn Olive

Canada Thistle

Common Buckthorn

Crown Vetch

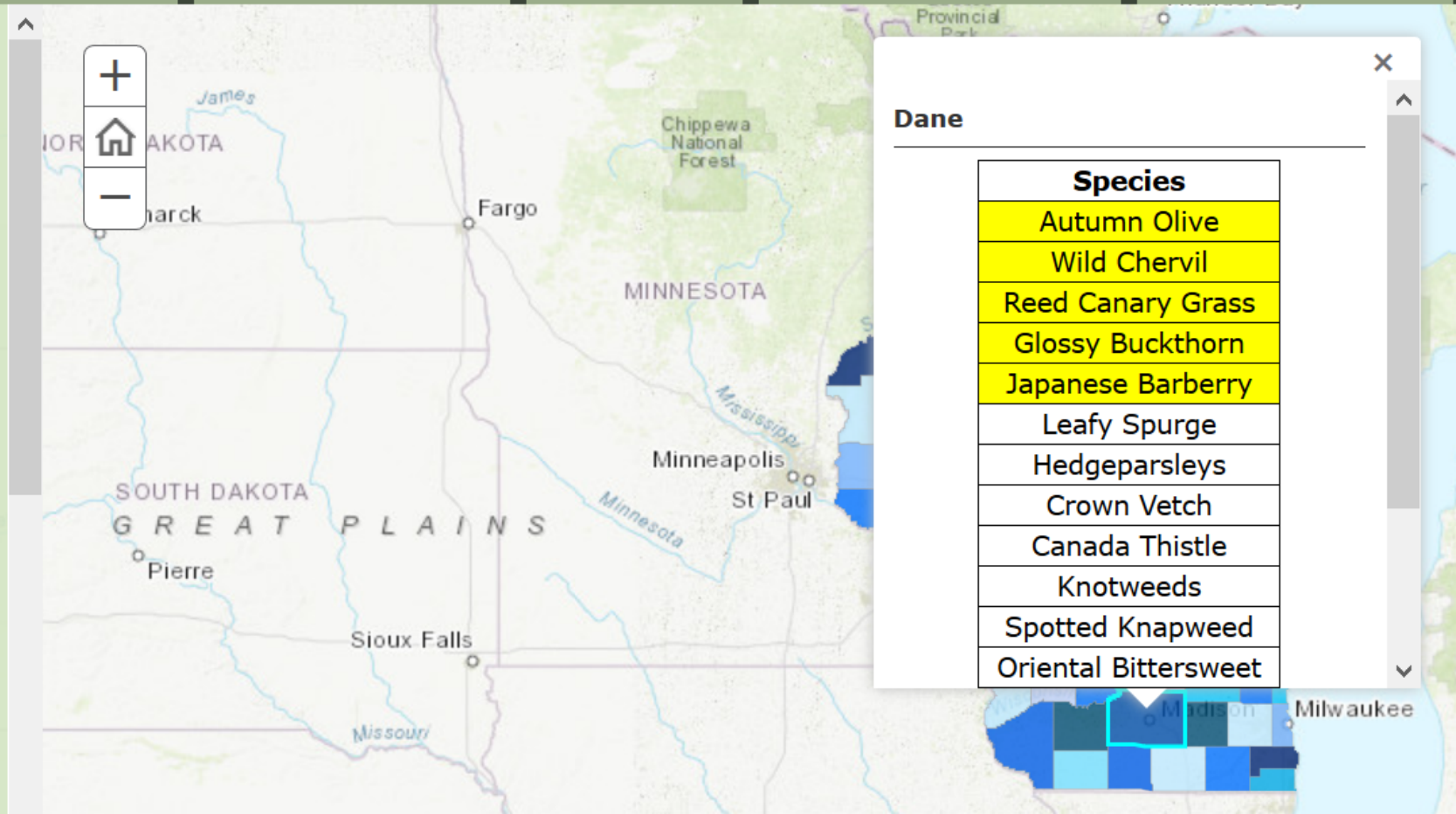
European Marsh Thistle

Exotic Honeysuckles

Invasive plants are a pervasive problem. The ability to detect an invasive species in the early stages of an invasion is critical to control and eradicate populations. The following map series depicts the results of efforts to model the suitable habitat of regulated invasive plants across the state of Wisconsin. This research was performed in the Renz Lab at the University of Wisconsin - Madison in conjunction with UW-Extension. *Our goals are to:*

1. Provide a platform to investigate the current known distribution of select invasive plants
2. Display county-specific species lists for invasive species likely to be present (*10-15 species*)
3. Encourage reporting invasive species occurrences

If you are interested in getting involved with our



SUMMARY

- Invasive plants are not native and have the potential to cause impact to the area
 - Regulation is mostly at the state level and varies widely among states
 - Develop a plan to manage
 - Identification, distribution, selecting and applying control methods, monitoring success and adapting as needed
 - Lots of resources and people available to help
-

SOMETIMES NATIVE SPECIES ARE NOT DESIRABLE!

- Consider managing other vegetation when conflicts with goals/objectives



QUESTIONS

