



**ILLINOIS
FIRST DETECTOR**

**HALT THE SPREAD:
REPORT & RESPOND TO INVASIONS**

Tricia Bethke, USDA APHIS, The Morton Arboretum

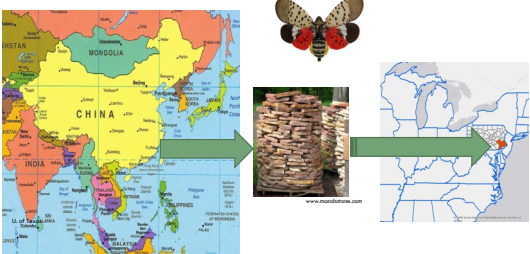
What is an invasive species?

"Any species that is non-native to the ecosystem under consideration and whose introduction causes or is likely to cause economic or environmental harm or harm to human health."

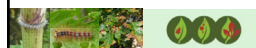
Executive Order 13112



Where do they come from?




How do they get here?



Global Impacts




Why do we care?

The GROWING Cost of Invasive Plants

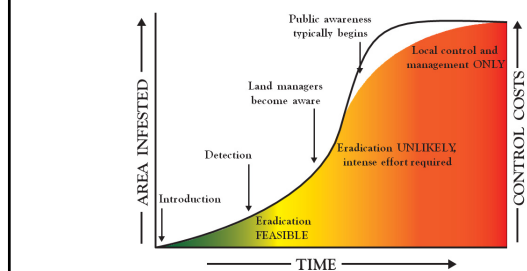
\$120 Billion is the estimated amount spent by the U.S. every year to fight invasive species, including plants.

How Harm?

- Plants:** Invasive plants are common and can be costly. They can damage crops, reduce biodiversity, and cause environmental harm.
- Animals:** Invasive animals can harm native species and ecosystems. They can compete for resources, prey on native species, and spread diseases.
- Wetlands:** Invasive plants can damage wetlands, which are important for water filtration and flood control.
- Woods:** Invasive plants can damage forests, which are important for timber production and carbon sequestration.
- Islands:** Invasive plants and animals can harm native species and ecosystems on islands, which are often isolated and have high biodiversity.
- Fungi:** Invasive fungi can harm crops and forests, and can also cause human health problems.

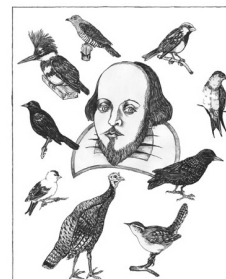


How can early detection help?



Did you know?

- 475+ known invasive forest pests in US
- Other invaders
 - Asian carp
 - Barberry
 - European Starlings
 - Norway maple
 - Buckthorn
 - Japanese Honeysuckle



What can you do to help?



What is EDDMapS?

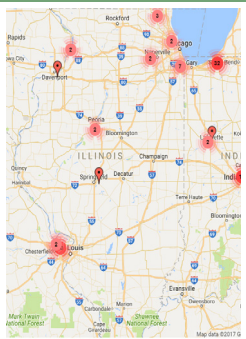
A screenshot of the EDDMapS Midwest website. The interface includes a navigation bar with links like Home, Report Sightings, Distribution Maps, Species Information, Tools & Training, My EDDMapS, and About. The main content area features a large image of a plant and text explaining the purpose of the network. On the right, there are sections for Statistics, Recent Reports, and Training Power Points.

Register on EDDMapS

- First time only: Register as an EDDMapS user.
- 1. Go to the EDDMapS website (<http://www.eddmaps.org>)
- 2. Select "Report Sightings" from the menu bar.
- 3. Click the "Register Now" button.
- 4. Fill out the form with your name, email address, etc.
- 5. Click the "Submit" button.

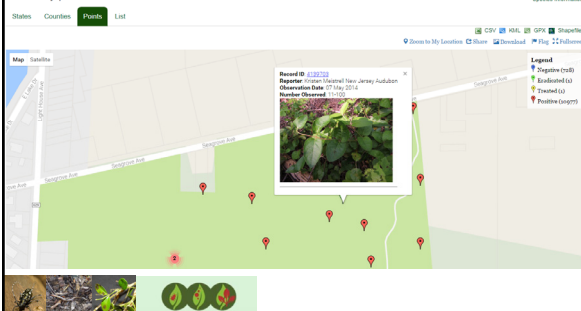
A screenshot of the EDDMapS Midwest registration form. The form is titled "Register" and includes fields for First Name, Last Name, Organization, Email address, Verify Email address, Password, Verify Password, Unit / Department, Phone Number, and a dropdown menu for "Are you a first detector?". The "Login" and "Register" buttons are circled in red.

brown marmorated stink bug *Halyomorpha halys* (Stål)



Report detail...way to go Kristen!

Japanese honeysuckle *Lonicera japonica* Thunb.



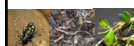
Asian longhorned beetle



Barry Albach

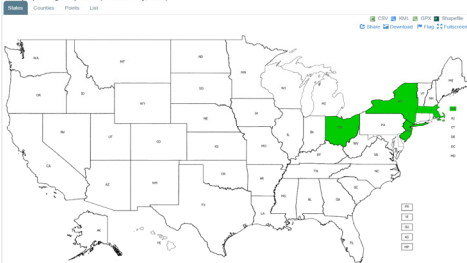


Know signs and symptoms



Distribution map for Asian longhorned beetle

Asian longhorned beetle *Anoplophora glabripennis* (Motschulsky, 1853)



Report a plant or pest

EDDMapS Midwest

Report an Invasive Plant Occurrence

Most fields are required

Species

Plant (C)

Asian longhorned beetle (Anoplophora glabripennis)

Infestation

Status: * Positive (C) * Trained (C)

Observation Date (C)

1/19/2017

Infested Area (C)

Green Area (C)

Canopy Closure (C)

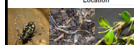
Abundance

Common (C)

Plant Description

* Invasive * Sapling/seedling * In Flower * In Fruit * Damaged/Dead * Unknown

Location



Reporting

- Please report any suspect infestations to
 - Local County Extension Office
 - plantclinic@illinois.edu
 - IDOA (scott.schirmer@illinois.gov)
 - University of Illinois (cwevans@illinois.edu)
 - plantclinic@mortonarb.org
 - tbethke@mortonarb.org



Send a sample to us

University of Illinois Extension
University of Illinois Plant Clinic

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How to Submit a Sample

- [Suggestions for Specimen Collection and Submission](#)
- [Submitting Plant Specimens for Disease / Injury Diagnosis](#)
- [Submitting Nematode Specimens](#)
- [Submitting Insect Specimens](#)

<http://web.extension.illinois.edu/plantclinic/submitasample.cfm#4>

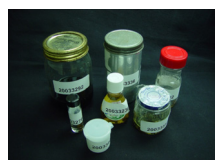
For additional information on how to collect and submit a sample for diagnosis contact your [local University Extension Office](#), or call the Plant Clinic at (217) 333-0549.

Suggestions for Specimen Collection and Submission

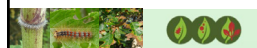
- Collect fresh specimens. Send a generous amount of material, if available.



Like this.....



Not like this.....



Where can you go to learn more?

Forms Programs Grants

State of Illinois Governor Bruce Rauner Director Raymond Poe

Illinois Agriculture

Search

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Gypsy Moth



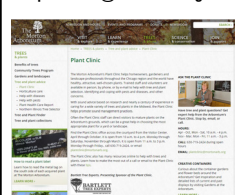
Links

- Gypsy Moth Compliance Agreement 2018
- Gypsy Moth Compliance List 2016
- Gypsy Moth in North America US Forest Service
- Treatment Area Maps
- Quarantine
- Quarantine Amendment
- Federal Quarantine Maps
- Slow The Spread of the Gypsy Moth Project
- Follow us on Facebook



Online resources

Plant Clinic
plantclinic@mortonarb.org



University of Illinois Extension
University of Illinois Plant Clinic

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Home About Services Fees **Submit Samples** Sample Forms Resources Hot Topics Location Contacts

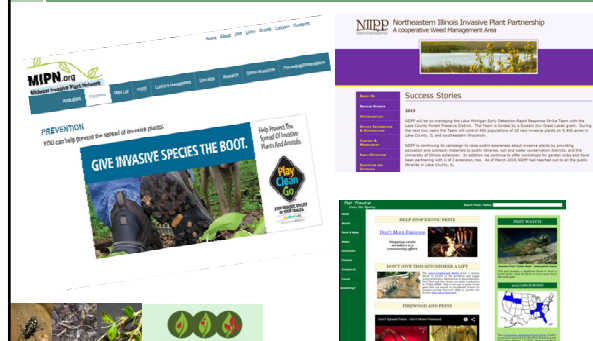
Let us help with your plant problems. We do plant and insect identification, diagnosis of disease, insect, weed and chemical injury/chemical injury on field crops (not), ornamental weeds, and help with related problems, as well as recommendations involving these diagnoses.

Contact Us - Plant Clinic
5-417 Turner Hall, 1102 S Goodwin Ave.
Urbana, IL 61802
Phone: 217-243-4024
Email: plantclinic@illinois.edu

web.extension.illinois.edu/plantclinic



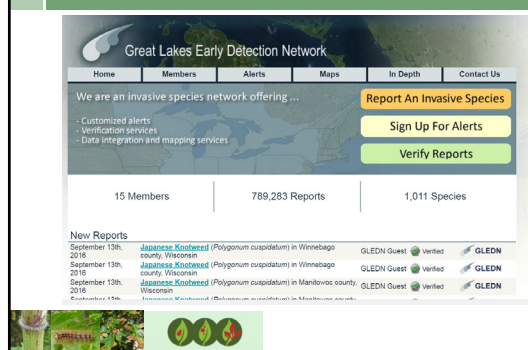
More resources....



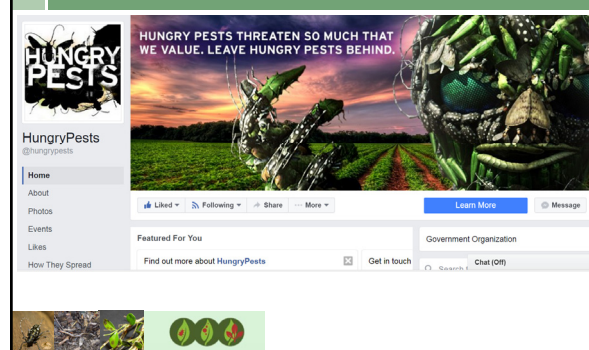
So many resources.....



GLEDN



Find us on Facebook and Twitter!



Help us out, be like Barry!



THANK YOU

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Illinois Forest Pest Outreach Coordinator
tbethke@mortonarb.org

