EDDMAPS: REPORTING AND MAPPING INVASIVE SPECIES

Chris Evans, University of Illinois
Outline

- Why map invasive species
- What is EDDMapS
- How to enter data
- Setting up Alerts
- How Illinois is using EDDMapS
Why map invasive species?

- Early Detection and Rapid Response
- Planning for control
- Tracking and refinding infestations
Species Observations

Species on the move!
Callery Pear
Callery Pear Distribution
Japanese stiltgrass
Japanese Stiltgrass Distribution

Japanese stiltgrass (*Microstegium vimineum*)
Japanese Hops
Japanese Hops Distribution

Japanese hop (*Humulus japonicus*)
What is EDDMapS?

**Early Detection and Distribution Mapping System**

- Developed by the University of Georgia’s Center for Invasive Species and Ecosystem Health
- Reporting, mapping, record-keeping, alerts, tracking of invasive species in real-time
How does mapping help landowners?

- Use data to see what species are invading your state/region/county
  - Learn what to look for
  - Prepare for future invasions
- Record locations on your land to plan for management
  - Watch for changes over time
  - Relocate infestations
  - Track management efforts
Types of mapping landowners can do

- Hand-drawn maps
- Dots on aerial images or topos
- Flag infestations in the field
- Electronic mapping program
  - Google Earth
  - EDDMapS
    - Handheld GPS
    - Smartphone
What is EDDMapS?
Real time tracking of invasive species occurrences
Local and national distribution maps
Electronic early detection reporting tools
Library of identification and management information

BRING THE POWER OF EDDMapS TO YOUR SMARTPHONE
Introducing BugwoodApps - comprehensive mobile applications that engage users with invasive species, forest health, natural resource and agricultural management
iPhone | iPad | Android

Projects
- Southeast Early Detection Network
- EDDMapS West
- Mid-Atlantic Early Detection Network
- Invasive Plant Atlas of New England
- Florida Invasive Species Partnership
- EDDMapS First Detector Programs
- EDDMapS Alberta - Alberta Invasive Plants Council
- EDDMapS Ontario
- EDDMapS Prairie Region - Manitoba and Saskatchewan
- Biological Control Agents of Weeds
- Invasive Plant Atlas of New England
- What’s Invasive
- National Wildlife Refuge Early Detection Network for New England
- Appalachian Trail Conservancy
- Invaders of Texas
- Alaska Exotic Plant Information Clearinghouse
- New Invaders Watch Program
- Outsmart Invasive Species

Statistics
2,637,486 County Reports
1,696,387 Point Reports
4,582 Species / 22,702 Users
Garlic Mustard Distribution
<table>
<thead>
<tr>
<th>Record ID</th>
<th>413274</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status:</td>
<td>Positive</td>
</tr>
<tr>
<td>Location</td>
<td>Story County, Iowa</td>
</tr>
<tr>
<td>Source</td>
<td>Chris Evans, IWAP Invasive Species Campaign</td>
</tr>
<tr>
<td>Project</td>
<td>EDDMapS Home</td>
</tr>
<tr>
<td>Habitat</td>
<td>Forests: Hardwood</td>
</tr>
<tr>
<td>Abundance</td>
<td>Single Plant</td>
</tr>
<tr>
<td>Locality</td>
<td>Alongside trail at Robison Wildlife Acres</td>
</tr>
<tr>
<td>Area Infested</td>
<td>1 sq feet</td>
</tr>
<tr>
<td>Gross Area</td>
<td>1 sq feet</td>
</tr>
<tr>
<td>Coordinates</td>
<td>41.9282878866, -93.4384632111</td>
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<tr>
<td>NADatum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Ownership</td>
<td>County Government</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>Trace</td>
</tr>
<tr>
<td>Observation Date</td>
<td>March 16, 2002</td>
</tr>
<tr>
<td>Date Entered</td>
<td>November 19, 2008</td>
</tr>
<tr>
<td>Date Updated</td>
<td>November 19, 2008</td>
</tr>
<tr>
<td>Source Type</td>
<td>Web Report</td>
</tr>
</tbody>
</table>
Statistics for EDDMapS

- 2.8 million records
  - including 1.8 million point records
- 4,804 species
- 30k users
EDDMapS Report Verifier Lookup

Subject: crapemyrtle bark scale (*Eriococcus lagerstroemiae*)
Location: Gillespie County, Texas

Who would receive the verification e-mail?
- Dave Creech (dcreech1@hotmail.com)
- Erfan Vafaei (erfan.vafaei@ag.tamu.edu)
- Laura Miller, Texas A&M (lmmiller@ag.tamu.edu)
- Mengmeng Gu, Texas A&M (mgu@tamu.edu)
- Mike Merchant, Texas A&M (m-merchant@tamu.edu)

Is the subject in the regulated species list?
- No

Has the subject been previously reported
- in Texas? Yes
- in Gillespie County? No

What apps/projects currently support reporting it?
- EDDMapS
- Southeast Early Detection Network
- US Army Corps of Engineers Invasive Species

What Invasive Species Lists is it on?
- Southeast Early Detection Network - Insects
# Review Records

<table>
<thead>
<tr>
<th>ID</th>
<th>Subject</th>
<th>User</th>
<th>Location</th>
<th>date</th>
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<td>sand ryegrass</td>
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<tr>
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<td>Jay VonBank</td>
<td>Sangamon County Illinois</td>
<td>Jan-15-2015</td>
</tr>
<tr>
<td>4183502</td>
<td>common water hyacinth</td>
<td>Jay VonBank</td>
<td>Will County Illinois</td>
<td>Jan-15-2015</td>
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<tr>
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<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-07-2015</td>
</tr>
<tr>
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<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-07-2015</td>
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<td>Dan Spencer</td>
<td>Cook County Illinois</td>
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<td>Dan Spencer</td>
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<td>Dan Spencer</td>
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<td>Jan-07-2015</td>
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<tr>
<td>4176867</td>
<td>fig buttercup</td>
<td>Dan Spencer</td>
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<tr>
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<td>fig buttercup</td>
<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-07-2015</td>
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<tr>
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<tr>
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<td>Jan-06-2015</td>
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<td>4176860</td>
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<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
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<td>fig buttercup</td>
<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
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<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
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<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
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<td>Japanese knotweed</td>
<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
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<tr>
<td>4176855</td>
<td>Japanese knotweed</td>
<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
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<tr>
<td>4176854</td>
<td>Japanese knotweed</td>
<td>Dan Spencer</td>
<td>Cook County Illinois</td>
<td>Jan-06-2015</td>
</tr>
</tbody>
</table>
**Oriental Bittersweet**
*Celastrus orbiculatus* Thunb.

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
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<td>4176876</td>
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<tr>
<td>Status</td>
<td>Positive</td>
</tr>
<tr>
<td>Location</td>
<td>Cook County, Illinois</td>
</tr>
<tr>
<td>Source</td>
<td>Dan Spencer - <a href="mailto:daniel.spencer@cookcountyil.gov">daniel.spencer@cookcountyil.gov</a></td>
</tr>
<tr>
<td>Project</td>
<td>EDDMaps Home</td>
</tr>
<tr>
<td>Habitat</td>
<td>Wetlands, Swamp</td>
</tr>
<tr>
<td>Abundance</td>
<td>Scattered Plants</td>
</tr>
<tr>
<td>Locality</td>
<td>This patch consists of about 3-4 individual plants growing along the edge of the Dogwood Trail at Sand Ridge Nature Center.</td>
</tr>
<tr>
<td>Comments</td>
<td>This patch has been chemically controlled since 2012.</td>
</tr>
<tr>
<td>Area Infested</td>
<td>500 sq feet</td>
</tr>
<tr>
<td>Gross Area</td>
<td>5000 sq feet</td>
</tr>
<tr>
<td>Coordinates</td>
<td>41 6037.887.5638</td>
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<tr>
<td>NAD Datum</td>
<td>WGS84</td>
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<tr>
<td>Phenology</td>
<td>Mature, Sapling, Immature</td>
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<tr>
<td>Canopy Cover</td>
<td>High</td>
</tr>
<tr>
<td>Status</td>
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<tr>
<td>Observation Date</td>
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<tr>
<td>Date Entered</td>
<td>January 7, 2015</td>
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<td>Date Updated</td>
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<tr>
<td>Source Type</td>
<td>Web Report</td>
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</table>

**Record Review**

Use this form to verify and release occurrences.

- **Reviewed By**: Chris Evans
- **Verification Method**: Select One
- **Identified By**: 

---

[Google Maps image of the location]
Chinese silvergrass
*Miscanthus sinensis* Anderss.

**Record ID:** 3129149

**Status:** Positive

**Location:** Jackson County, Illinois

**Source:** Kartas Gage, Southern Illinois University Carbondale - kartasgage@gmail.com

**Project:** Invasive Plant Atlas of New England

**Coordinates:** 37.604219, -89.197439

**NAD83:** WGS84

**Identification Credibility:** Verified

**Observation Date:** January 22, 2014

**Date Entered:** January 22, 2014

**Validator:** Chris Evans

**Validation Date:** January 22, 2014

**Verification Method:** Photographs

**Coordinate Uncertainty:** 5 Meters

**Date Updated:** January 22, 2014

**Source Type:** iPhone
Verified and Released Report

Users Alerts
- By Species
- By Location
- By Project

Maps
- State Distribution
- County Distribution
- Google Point Maps
- ArcGIS
- Custom Maps

Data Feeds
- GISIN
- Recent Reports RSS
- API

Output
EDDMapS Users

- Anyone can view and download data
- Registered (free) users can upload observations into EDDMapS
- Revisit those records and update if changes are needed
- Signup for alerts
<table>
<thead>
<tr>
<th>ID</th>
<th>Subject</th>
<th>Location</th>
<th>Date</th>
<th>Manage</th>
</tr>
</thead>
<tbody>
<tr>
<td>4455287</td>
<td>Japanese stiltgrass</td>
<td>Johnson County, Illinois</td>
<td>Jan-16-2016</td>
<td>View Edit Revisit Delete</td>
</tr>
<tr>
<td>4455288</td>
<td>Chinese silvergrass</td>
<td>Johnson County, Illinois</td>
<td>Jan-16-2016</td>
<td>View Edit Revisit Delete</td>
</tr>
<tr>
<td>4428380</td>
<td>Japanese chaff flower</td>
<td>Pope County, Illinois</td>
<td>Dec-03-2015</td>
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<tr>
<td>4427778</td>
<td>garlic mustard</td>
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<td>Nov-28-2015</td>
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<tr>
<td>4427779</td>
<td>Amur honeysuckle</td>
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<td>4427777</td>
<td>Japanese knotweed</td>
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<tr>
<td>4425579</td>
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<td>Livingston County, Kentucky</td>
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<tr>
<td>4425267</td>
<td>common reed</td>
<td>Williamson County, Illinois</td>
<td>Oct-01-2015</td>
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</tr>
<tr>
<td>4101246</td>
<td>winged burning bush</td>
<td>Russell County, Kentucky</td>
<td>Oct-08-2014</td>
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<tr>
<td>4101245</td>
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<tr>
<td>3954262</td>
<td>cutleaf teasel</td>
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<td>Jul-28-2014</td>
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<td>3954263</td>
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<td>Jul-28-2014</td>
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<td>3954264</td>
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<td>Jul-28-2014</td>
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</tr>
<tr>
<td>3954265</td>
<td>cutleaf teasel</td>
<td>Champaign County, Illinois</td>
<td>Jul-28-2014</td>
<td>View Edit Revisit Delete</td>
</tr>
<tr>
<td>3954266</td>
<td>cutleaf teasel</td>
<td>Champaign County, Illinois</td>
<td>Jul-28-2014</td>
<td>View Edit Revisit Delete</td>
</tr>
</tbody>
</table>
Site Revisit Information

Use this form for site revisits including treatments, monitoring and evaluations.

- Original Record
- New Record

Status: Positive (?)  Treated (?)  Eradicated (?)

Revisit Type:
Select One

Abundance/Density:
Select One

Infested Area (?):
Select One

Revisit Date:
03/09/2016

Canopy Closure (?):
Select One

Reporter:
Chris Evans

Growth Stage:
- Flower
- Fruit
- Seedling
- Seeds
- Dormant/Dead
- Unknown

Location (?)

Upload Images with Your Revisit Report:

For verification purposes, take at least two digital images, a close up of the species and one of the site.

Image 1:
Choose file (jpg, < 4 mb)

Caption:

Image 2:
Choose file (jpg, < 4 mb)

Caption:

Image 3:
Choose file (jpg, < 4 mb)

Caption:

Comments - Describe in detail what was done during the revisit.
# winged burning bush

*Euonymus alatus* (Thunb.) Sieb.

<table>
<thead>
<tr>
<th>States</th>
<th>Counties</th>
<th>Points</th>
<th>List</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Record ID</strong></th>
<th>3175464</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reported</strong></td>
<td>Chris Evans</td>
</tr>
<tr>
<td><strong>Status</strong></td>
<td>Not Found</td>
</tr>
<tr>
<td><strong>Visit Type</strong></td>
<td>Evaluation</td>
</tr>
<tr>
<td><strong>Revisit Date</strong></td>
<td>March 9, 2016</td>
</tr>
<tr>
<td><strong>Infested Area</strong></td>
<td>0 acres</td>
</tr>
<tr>
<td><strong>Canopy Cover</strong></td>
<td>Trace</td>
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<tr>
<td><strong>Date Entered</strong></td>
<td>March 9, 2016</td>
</tr>
<tr>
<td><strong>Comments</strong></td>
<td>No new plants found</td>
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</tbody>
</table>

**Report Information**

<table>
<thead>
<tr>
<th>Reporter</th>
<th>Chris Evans, University of Illinois</th>
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<tbody>
<tr>
<td>Observation Date</td>
<td>24 May 2014</td>
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<tr>
<td>Date Entered</td>
<td>27 May 2014</td>
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<td>Date Updated</td>
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<td>Source Type</td>
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</table>

**Species Information**

<table>
<thead>
<tr>
<th>Common Name</th>
<th>winged burning bush</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Name</td>
<td><em>Euonymus alatus</em></td>
</tr>
<tr>
<td>Phenology</td>
<td>Sapling/Immature</td>
</tr>
<tr>
<td>Voucher</td>
<td>0</td>
</tr>
</tbody>
</table>
Setting up an Alert

- Alerts notify you via email when new records are entered
  - Select specific criteria for alerts
    - Species- or location-based
    - All records or just new species
Create Alerts

State Alert

- State
- Plants
- Animals
- New Only - You only get an alert the first time a plant or animal is found in a county

Create Alert

County Alert

- State
- County
- Plants
- Animals
- New Only - You only get an alert the first time a plant or animal is found in a County

Create Alert

Species Alert

- Select a subject
- New County Record Only - First time the species is reported in a County

Create Alert

Manage Alerts

<table>
<thead>
<tr>
<th>Alert ID</th>
<th>New Records Only</th>
<th>All Plants</th>
<th>All Animals</th>
<th>Location</th>
<th>Common Name</th>
<th>Scientific Name</th>
<th>View</th>
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<tr>
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<td>Yes</td>
<td>Alexander County, Illinois</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>16</td>
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<td>Yes</td>
<td>Gallatin County, Illinois</td>
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<td>19</td>
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<td>Yes</td>
<td>Yes</td>
<td>Hardin County, Illinois</td>
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<td></td>
<td></td>
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<td>20</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Jackson County, Illinois</td>
<td></td>
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</table>
EDDMapS Alert

Generated on January 16, 2015 for records added since January 15, 2015

All Plant Records - IL
2 report(s) of common water hyacinth (*Eichhornia crassipes*) - Will County, IL
4183500 Observed on August 16, 2014
4183501 Observed on September 11, 2014

To manage your alerts, visit: http://www.eddmaps.org/user/

Developed by The University of Georgia - Center for Invasive Species and Ecosystem Health
Entering Data
Tools and Training Materials

Database Tools
- Statistics
- Access/Download Point Data
- Recently Added Records
- View Plants by County
- View Plants by State
- Invasive Plant Status Report By State
- Advanced Query Tools

Mapping Tools
- Find a Location
- Latitude/Longitude Converter
- Geocode a Physical Address

Control Resources
- General Principles for Controlling Nonnative Invasive Plants
- Weed Control Methods Handbook
- Prescriptions for Specific Nonnative Invasive Plants
- Control of Problem Weeds in Range and Pasture
- Invasive Plant Responses to Silvicultural Practices in the South
- Invasive Species Management Plans for Florida
- Herbicide Advice for Homeowners
- Tools of the trade: Tool Reviews

Training Materials
- EDDMapS Florida Training PowerPoint
- EDDMapS Florida Animals Training PowerPoint
- EDDMapS Florida Training Video
- EDDMapS Florida Animals Training Video
- EDDMapS Missouri River Watershed Coalition Training Video
- Mid-Atlantic Early Detection Network Training Video
- REDDy: Reptile Early Detection and Documentation Observer Training Course
- EDDMapS: Invasive Plant Mapping Handbook - NEW
- How to Verify a Record in EDDMapS
- Florida EDDMapS minifyer
- Herbarium Collecting Guidelines
- Herbarium Mounting Guidelines
- Data Collection Form - Adobe Acrobat
- Bulk Data Entry Template - Microsoft Excel
- Bulk Data Entry Instructions - Microsoft Word
- Bulk Data Entry Instructions - Adobe Acrobat
- Data Dictionary - Adobe Acrobat - NEW
Report an Invasive Plant Occurrence

Species
- Pest: Lonicera japonica (Japanese honeysuckle)

Infestation
- Observation Date: 11/03/2014
- Infested Area: 
- Gross Area: 
- Habitat: Select One
- Canopy Closure: Select One
- Abundance: Select One

Plant Description: Mature, Sapling/Immature, Seedling/Rosette, In Flower, In Fruit, Seeds, Dormant/Dead, Unknown

Location
- State: North Carolina
- County: Mecklenburg County
- Location Description: 
- Latitude: Must be expressed in Decimal Degrees (XX.XXXX) and DATUM NAD83/WGS84.
- Longitude: Must be expressed in Decimal Degrees (XX.XXXX) and DATUM NAD83/WGS84.

Ownership: Select One
* If reporting infestation on private land, be sure to have landowner’s permission.

Map data ©2014 Google

Images
- no file selected
Report an Invasive Species Occurrence

Please provide as much information about the sighting as possible.

Species:

Begin typing scientific or common name and then select species from dropdown.
If the pest is not listed or is unknown, type and choose "unlisted plant" or "unknown plant" from the list and describe the plant in the Comments section below.

Pest: bittersw
- Celastrus orbiculatus (oriental bittersweet)
- Celastrus spp. (bittersweets)
- Solanum dulcamara (bittersweet nightshade)

Infestation:

Observation Date: 01/30/2013

Infested Area: Select One

Habitat: Select One

Abundance/Density: Select One

Gross Area: Select One

Canopy Closure: Select One

Plant Description: [ ] Mature [ ] Sapling/Immature [ ] Seedling/Rosette [ ] In Flower [ ] In Fruit [ ] Seeds [ ] Dormant/Dead [ ] Unknown
Location:

Specify the location where you observed the pest, by first selecting the county from the dropdown. Then move the marker on the map to the correct location. If you move across county lines the new county will be displayed. You can also enter the lat/long in the fields below and then click the "Jump to Point" button.

State: Illinois
County: Select County
Jasper County
Jefferson County
Jersey County
Jo Daviess County
Johnson County
Kane County
Kankakee County
Kendall County
Knox County
Lake County
La Salle County
Location Description:

Ownership:
Lawrence County
Lee County
Livingston County
Logan County
McDonough County
McHenry County
McLean County
Macoupin County
Madison County

Upload Your Report:

For verification take at least two digital images, a close up of the species and one of the site.

Image: Marion County
Marshall County
Mason County
Massac County
Menard County
Mercer County
Monroe County
Montgomery County
Morgan County

Marker status: Click and drag the marker.

Lat/Long Conversion Tools:
Convert from UTMs
Convert from DMS
Convert from DM
**Location:**

Specify the location where you observed the pest, by first selecting the county from the dropdown. Then move the marker on the map to the correct location. If you move across county lines the new county will be displayed. You can also enter the lat/long in the fields below and then click the "Jump to Point" button.

- **State:** Illinois
- **County:** McHenry County
- **Latitude:** 42.31043
- **Longitude:** -88.33936
- **Location Description:**
- **Ownership:** Select One

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

**Marker status:** Click and drag the marker.

**Lat/Long Conversion Tools:**

- Convert from UTM
- Convert from DMS
- Convert from DM

---

**Upload Images with Your Report:**

For verification purposes, take at least two digital images, a close up of the species and one of the site.

- **Image:** [Browse...](.jpg, < 4 mb)
- **Caption:** (provide as much detail as possible, include credit if image is not yours)

- **Image:** [Browse...](.jpg, < 4 mb)
- **Caption:** (provide as much detail as possible, include credit if image is not yours)
Great Lakes Early Detection Network

GLEDN is an invasive species early detection and warning system for the Great Lakes region developed through funding provided by the National Park Service as part of the Great Lakes Restoration Initiative.
Cirsium arvense, Canada Thistle is an erect herb with prickly foliage and flower heads of purple, pink, or white disc flowerlets, 1–7 ft. (0.3–2.1 m) tall. For most species, leaf bases extend nearly all the way down stems between leaves (decumbent) as spiny “wings.” Family: Asteraceae (aster, composite). Creeping roots (rhizomes) often result in dense clumps of...
Cirsium arvense
Canada thistle
2014-11-18 16:24 PM

Location
Latitude: 36.09872 m
Longitude: -115.16982 m
Accuracy: 50.0 m

Time Spent in Minutes
5 10 15 30 45 60

Infestation Information
Area: ### Acres Sq Feet
Density: Low Medium High

Notes
Save

Date/Time
2014-11-18 04:27 PM

List of Species
- giant salvinia (Salvinia molesta)
- common water hyacinth (Eichhornia crassipes)

Time Spent in Minutes
5 10 15 30 45 60 65

Area Survey
Edit

Save
Pin Location:
LAT:31.476442 LNG:-83.524559

Polygon Drawn:
Approximately 0.7230 Acres
Polygon Drawn:
Approximately 0.1659 Acres
How does Illinois use EDDMapS
New Invaders Watch Program (NIWP) is an early detection and rapid response network of volunteer, government, non-profit, and business organizations dedicated to identifying, mapping and controlling new exotic invasive species. Our current focus area is within Northeast Illinois and Northwest Indiana.

Our target species are known to be invasive in the Midwest or regions of similar climate, and are not known from Northeast Illinois. Or have yet to spread into their preferred habitats in the region.

NIWP help meet the early detection and rapid response initiatives of the Northeast Illinois Invasive Plant Partnership and the Indiana Coastal Cooperative Weed Management Area.

Alerts and New Reports

Recent Reports

- Japanese knotweed in Kane County, Illinois on December 12, 2012
- Japanese knotweed in Lake County, Illinois on December 3, 2012
- Wild chervil in Kane County, Illinois on November 11, 2012
- Black dog-strangling vine, black swallowwort in Cook County, Illinois on October 11, 2012
- Japanese hop in Cook County, Illinois on September 28, 2012
# Results Summary

<table>
<thead>
<tr>
<th>Invasive species</th>
<th># of Infestations</th>
<th>Invasive species</th>
<th># of Infestations</th>
</tr>
</thead>
<tbody>
<tr>
<td>garlic mustard</td>
<td>18</td>
<td>mile-a-minute weed</td>
<td>4</td>
</tr>
<tr>
<td>hydrilla</td>
<td>34</td>
<td>Chinese yam</td>
<td>10</td>
</tr>
<tr>
<td>purple loosestrife</td>
<td>20</td>
<td>flowering rush</td>
<td>1</td>
</tr>
<tr>
<td>Nepalese browntop</td>
<td>4</td>
<td>reed canarygrass</td>
<td>51</td>
</tr>
<tr>
<td>parrotfeather</td>
<td>1</td>
<td>curlyleaf pondweed</td>
<td>49</td>
</tr>
<tr>
<td>Eurasian watermilfoil</td>
<td>99</td>
<td>zebra mussel</td>
<td>35</td>
</tr>
<tr>
<td>brittleleaf naiad</td>
<td>109</td>
<td>Chinese mystery snail</td>
<td>26</td>
</tr>
<tr>
<td>common reed</td>
<td>21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Hydrilla Results
Great Lakes Early Detection Network
Other uses

- Primary resource for distribution data Invasive Plant Council’s species assessments
- Evaluating priorities and management planning
- Weed Watch volunteers
- Roadside invasives mapping
Summary

- Mapping invasive species can help individual landowners but also contribute to larger state or regional invasive species efforts
- EDDMapS is a unique online tool that is free to use
  - Enter data (computer and smartphone)
  - View/download data
  - Track individual infestations over time
  - View maps
  - Create alerts
Questions?