



New Invaders Watch Program

A Volunteer-Based Program
to
Identify, Map and Control
New Exotic Invasive Species

www.NewInvaders.org





New Invaders Watch Program **Goals:**

- Identify and report populations of target exotic invasive species*.
- Eliminate or contain those populations before they spread.
- Collect and share location and population information about these potentially invasive exotic species.

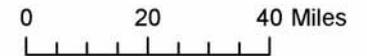
***Target species are known to be invasive in other states or regions *and* they only exist in small populations in our region or they are not known to be here...YET...but are likely to thrive in our region.**

The Chicago Wilderness Region



Legend

- Update Chicago Wilderness Region (2006)
- Public Open Space
- Recommended Resource Protection Areas
- Major Rivers
- Counties
- States
- Lake Michigan
- Current New Invaders Watch Geographic Range



Target Species: Plants and Insects

INVASIVE TERRESTRIAL PLANTS

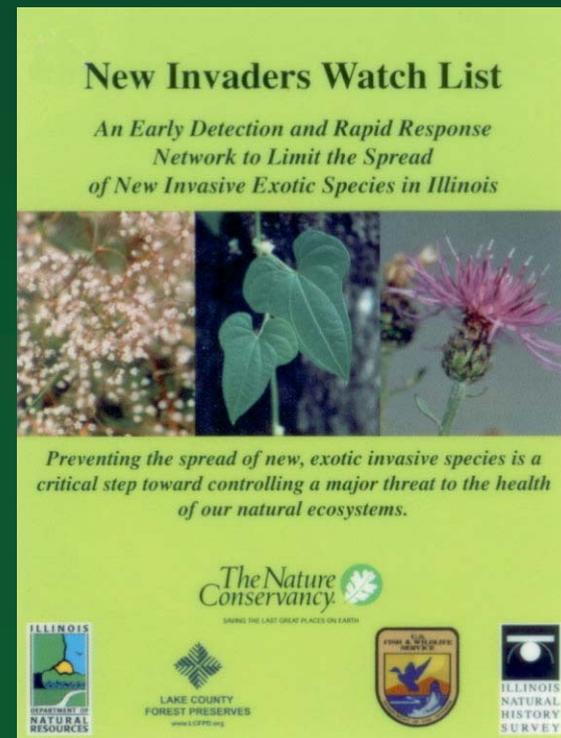
Celastrus orbiculatus - Asian Bittersweet
Centaurea maculosa - Spotted Knapweed
Cynanchum louiseae - Black Swallow-wort
Cynanchum rossicum - Pale Swallow-wort
Dioscorea oppositifolia - Chinese Yam or Air potato
Euphorbia esula - Leafy Spurge
Glyceria maxima - Giant Manna Grass
Gypsophila sp. – Baby's breath
Heracleum mantegazzianum – Giant Hogweed
Humulus japonicus – Japanese Hops
Lespedeza cuneata – Silky bush clover
Microstegium vimineum– Japanese Stilt Grass
Miscanthus sinensis - Japanese Silvergrass
M. sacchariflorus - Chinese Silvergrass
Polygonum cuspidatum– Japanese knotweed
Polygonum perfoliatum – Mile-a-minute weed
Pueraria lobata - Kudzu
Pyrus calleryana –Bradford Pear
Quercus acutissima– Sawtooth oak

INVASIVE AQUATIC PLANTS

Hydrilla verticillata – Hydrilla
Egeria densa - Brazilian Elodea
Butomus umbellatus - Flowering Rush

INVASIVE FOREST INSECT PESTS

Anoplophora glabripennis - Asian Longhorned Beetle
Agrilus planipennis - Emerald Ash Borer



New Invaders Watch List
An Early Detection and Rapid Response Network to Limit the Spread of New Invasive Exotic Species in Illinois



Preventing the spread of new, exotic invasive species is a critical step toward controlling a major threat to the health of our natural ecosystems.

The Nature Conservancy
SAVING THE LAST GREAT PLACES ON EARTH



ILLINOIS DEPARTMENT OF NATURAL RESOURCES
LAKE COUNTY FOREST PRESERVES
ILLINOIS DEPARTMENT OF NATURAL RESOURCES
ILLINOIS NATURAL HISTORY SURVEY

strategy of education, documentation, communication and action

1. Training



2. Identify new populations



7. Eradication, control, or management plan

3. Online reporting w/ image or mail-in voucher



6. Automatic alert to Rapid Responder

4. Verification

5. Confirmation and mapping

Who Are Our Partners ?

Plants of Concern
Citizens for Conservation
Save the Dunes



VOLUNTEER GROUPS

Bull Creek Watershed Group
The Nature Conservancy, Indiana
The Nature Conservancy, Illinois
Shirley Heinz Environmental Fund
The Land Conservancy of McHenry County
Liberty Prairie Conservancy



**NGO'S &
LAND TRUSTS**

The Morton Arboretum
Natural Resource Conservation District
US Forest Service



ARBORETUM

National Park Service
US Geological Survey
US Fish and Wildlife Service, IN



FEDERAL AGENCIES

Indiana Department of Natural Resources
Illinois Department of Natural Resources
Forest Preserve District of DuPage



STATE AGENCIES

McHenry County Conservation District
Lake County Forest Preserve District, IL
Forest Preserve District of Will County



**FOREST PRESERVES
CONSERVATION DISTRICTS
COUNTY AGENCIES**

Forest Preserve District Cook County
Kendall County Forest Preserve District
McHenry County Conservation District
Kane County Forest Preserve District
McHenry County Division of Transportation
Lake County Stormwater Management Commission, IL
Lake County Soil and Water Conservation District, IL



COUNTY PARKS

Lake County Parks, IN
Palatine Park District
Highland Park District
Downers Grove Park District
Valparasio Department of Parks



PRIVATE BUSINESS

Tallgrass Restoration, LLC
Liberty Prairie Restorations
Bluffs Consulting



Local Training

Identification and Data Collection Tools

- Target Species ID Card Set
- Standard data collection protocol (online)
- Field Form (online)
- Data Dictionary (online)
- Vouchering instructions (online)

below) Please fill in both sides as completely as possible. A glossary is available at the website. Residing plant vouchers must have copy of this form and be sent to: Dr. Rick Phillips, New Invaders Watch List, Illinois Natural History Survey, 1816 S Oak, Champaign, IL 61820. Send insect vouchers to: Dr. R. Edward DeWalt at the same address. Vouchers become the property of the INHS.

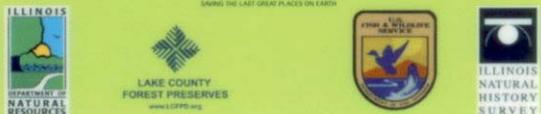
Observer / Collector Information Note: Contact information will not be distributed		
Name _____	Phone (____) _____	E-mail _____
Species ID Information		
Genus _____	Species _____	species/cultivar _____
Common Name _____		Date Observed (m/d/yyyy) ____/____/____
Web Entry Record Number _____ (After submission, a record number will appear with the name of the invader)		
Species Location Information		
Place Name/Town Name (as in 5 mi or 8 km NE Palos Park) _____		
State _____		County _____
Principle Meridian: _____ Township, Range, Section(s), (Quarter/Quarter): T ____ N/S (circle) R ____ E/W (circle)		
Sec. ____ 1/4 ____ 1/4 ____	Latitude/Longitude (decimal degrees: XXXXXX) Lat. _____	Long. _____ W
Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983 <input type="checkbox"/> Other _____		
How did you determine your location? <input type="checkbox"/> Topo map <input type="checkbox"/> GIS <input type="checkbox"/> GPS <input type="checkbox"/> Plat map <input type="checkbox"/> Topozone.com <input type="checkbox"/> Gazetteer <input type="checkbox"/> Other _____		
Walking directions to location / Best access _____		
Location landmarks (roadways, buildings, lakes, etc.) _____		
Land Ownership Information: (do not enter private property without permission) Contact information will not be distributed.		
Land Owner Type: <input type="checkbox"/> Non-profit org. <input type="checkbox"/> Village, City, Town <input type="checkbox"/> County <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Private <input type="checkbox"/> Unknown		
Land Owner Name _____	Phone (____) _____	E-mail _____
Address _____		City _____ State _____ Zip _____
Other Land Owner Name: _____		
Public Land Name: _____		
Other Land Name: _____		
Status of Occurrence		
Area affected / Gross area of infestation: _____ ft ² or _____ m ²		
How is the plant population distributed in the area affected? (circle one) 1 2 3 4 5		
[1= few scattered plants, 2= several small clumps, 3= evenly scattered / numerous clumps, 4= large patch(es) 5= extensive or complete coverage]		
Plant Growth stage(s) <input type="checkbox"/> In flower <input type="checkbox"/> In fruit <input type="checkbox"/> Seedlings <input type="checkbox"/> Seeds present <input type="checkbox"/> Vegetative reprod. occurring <input type="checkbox"/> Dormant/Dead		

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New Invaders Watch Website:

- Additional Species Information
- Training Opportunities
- New Sightings
- Online reporting form w/ instructions

New Invaders Watch List
Early Detection and Rapid Response Network

Logos: National Resources, The Nature Conservancy, Lake County Forest Preserves, Chicago Wilderness, INHS.

Target Species

This list was produced in consultation with many representatives of federal, state, and local government agencies and non-profit organizations.

Forbs
 Dobby's Insect - *Guzmania* spp.
 Spotted Knapsweed - *Centaurea maculosa*
 Leafy Spurge - *Euphorbia esula*
 Turkeycorn - *Chenopodium album*
 Giant Hogweed - *Aconitum napellus*
 Japanese Knotweed, Japanese Bamboo - *Phyllocladus distachya*

Grasses
 Annual Stink Grass, Japanese Grass - *Microstegium*
 Silver Grass - *Alopecurus* spp.

Vines
 Oriental Bittersweet - *Celastrus orbiculatus*
 Chinese Vase, Air Potato - *Dioscorea oppositifolia*
 Japanese Hoop - *Mommidium japonicum*
 Nuts-in-a-helm - *Polygonum perfoliatum*
 Kudzu - *Pueraria lobata*

Trees
 Korean Pear, Bradford Pear, Callery Pear - *Pyrus calleryana*
 Sawtooth Oak - *Quercus acutiformis*

Insects
 Asian Longhorned Beetle - *Anoplophora glabripennis*
 Emerald Ash Borer - *Agrilus planipennis*

- New Invaders
- Watch List
- New Sightings
- About Us
- What are Early Invasive Species?
- NIWL Target Species
- Become a Volunteer
- Date Form, Glossary, Voucher Specimen Prep
- Report an Invader
- Primary Collaborators
- Related Links
- Sponsors and Acknowledgements

New Invaders Watch List
Early Detection and Rapid Response Network

Logos: National Resources, The Nature Conservancy, Lake County Forest Preserves, Chicago Wilderness, INHS.

Data Form. Glossary. Voucher Specimen Prep

- [Field Data Form](#)
- [Data Dictionary for Data Form](#)
- [How to make a voucher for target plants and insects](#)

If you have any problems with this page, please reply to: Quoc.Le

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Early Detection and Rapid Response Network

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NIWL Target Species

Japanese Stink Grass

Family: Poaceae, Genus: *Microstegium*, Species: *indochinense*, Synonym:

Search Term: Grass

General: Annual, spreading habit, vegetative reproduction primarily by rooting from nodes. Usually 1.5-2 ft. high in flowering, non-flowering prostrate.

Flowers: Three spikelets (inflorescence) on a pedicel, the outer one a panicle.

Frills and Seeds:

Leaves: Leaves pale green, narrow, 2-3 cm long with an oblique shape. Leaves for the width of the upper leaf node.

Stems or Branches:

Threats: Forest understory, cool-temperate forest, wetlands, riparian corridors, disturbed areas. Grass is both shade and sun.

Look Alike: Wide grass (leaves upright), stem is rough to touch, no reflective latex, does not root from nodes. Common Wood Rush (*Clas. woodwardii*), stem erect, 0.5-1.5 m tall, base 10-20 cm long, spike robust.

Distribution: Native to temperate and tropical Asia. Found from TX (and NE and SE U.S.

Other Links:
www.inhs.org/~jrs/NIW.html

Images: Flower, Young plant, Old Stems, Southern Weed Science Society.

NIWP web address: <http://www.NewInvaders.org>

Data entry screen (is identical to the field (paper) form)

Acknowledgements

Latitude longitude is the preferred location data (NAD 1927 or 1983). If you collect UTM, fill in "other datum"

Species ID Information

* Common Name:

Spotted Knapweed

Scientific Name: Centaurea maculosa

Genus: Centaurea

Species: maculosa

Date Seen: 7/25/2006

Species Location Information

Place Name / Town Name (as in 5 mi or km NE Palos Park)

Independence Grove

* State: IL

* County: Lake

Principle Meridian: → 3

Township:

Range:

Section:

QrtSection: - Select -

QrtQrtSection: - Select -

Latitude: 42.3152

Longitude: 87.9531

Datum: 1927

Other Datum:

How did you determine your location? Topozone.co

Other technique to determine your location:

Walking directions to location / Best access:

Main entrance road to north pavilion, head NW to prairie plantings around lake.

Location landmarks (roadways, buildings, lakes, etc.)

Note – the “Well Entry Number” is the unique number automatically assigned to your data record by the database

To learn how to get Township, Range and Section go to

Verification

- Professional botanists will verify photos and specimens
- Field visit by verifier or local botanist may be required



Giant Hogweed



**Please send a Specimen
or....**



an Image with your report!

OR.... Cow Parsnip ?

© 2001 Eleanor Saults



Vouchers
Provided:

- Select -
- Select -
Yes
No

If Yes, how do you

specimens?

Type of
Voucher:

- Digital Images
 Insect in alcohol or dry
 Herbarium Sheet

**Please provide a photo or voucher
otherwise your report cannot be
verified by herbarium staff.**

If you provide image(s), please complete the information below. If you provide specimen, please send your vouchers to:

New Invader Watch List
c/o Dr. R. Edward Dewalt, Illinois Natural History Survey
1816 South Oak Street
Champaign, Illinois 61820

Upload Image(s):

Image Credit1:

Description1:

File 1:

**Download the
photo from your
computer file.**

Image Credit2:

Description2:

Our Rapid Response Network

A network of land managers and licensed, trained volunteers that can eradicate or contain new populations or that can assist private landowners, Townships, Municipalities, and Highway Departments in control efforts.



Developing an electronic alert system that alert primary responders of new population found on their property.



Currently includes, state, county, national park service, some county parks, and some private landowners.

