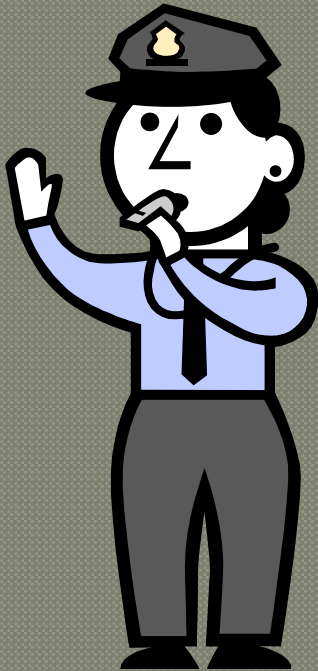


Regulating Invasive Species In Wisconsin

Brent Hanson
Hanson's Garden Village



- NR 40 -

Wisconsin's Invasive Species Identification, Classification and Control Rule

Effective date: September 1, 2009



What is an “Invasive Species”?

- **Nonnative species whose introduction causes or is likely to cause economic or environmental harm or harm to human health (Wisconsin Statutes 23.22)**
 - **Plants (terrestrial and aquatic)**
 - **Animals (vertebrates and invertebrates)**
 - **Disease-causing organisms**

Two Parts to the Rules

- The species list and the regulations that apply to them
- Preventive measures
 - Transportation and introduction of aquatics
 - Quarantine of pest species

Overview of the Process

- Wis. Council on Invasive Species (WCIS) + WIDNR developed assessment process listing criteria and draft regulations
- Chose species to be assessed
- Literature reviews developed
- Expert and stakeholder groups (SAGs) conducted assessments, recommended classification for each species
- WIDNR staff developed proposed regulations, with input from WCIS
- Extensive public input and revisions
 - 5 year process

Overview of SAG Process

- All SAG members received literature findings before meeting
- Each completed Individual Reporting Form for each species before meeting
- Tallied and discussed initial ratings
- Sought general agreement on recommended category
- All significant comments recorded
- Council generally agreed with SAG recommendations – these used for rule

Categories of Invasives

- **Prohibited**

- Not yet in the state or established in pioneer stands only, still have potential to eradicate and prevent, high potential for environmental damage if widely established.

- **Restricted**

- Already established in the state, high environmental impacts
-

***Caution** – More information needed, uncertain of level of potential harm

***Non-restricted** – Socio-economic benefits of species high, environmental impacts of invasion variable

***Pending** – Species not yet assessed or listed, but will likely be assessed for future rule revisions

Criteria Used for Assessment

- Current status and distribution (in WI and similar environments)
- Establishment potential and life history traits
- Damage potential
- Socio-economic impacts (of the species invasiveness and of potential restrictions)
- Control and prevention potential

Regulatory Categories

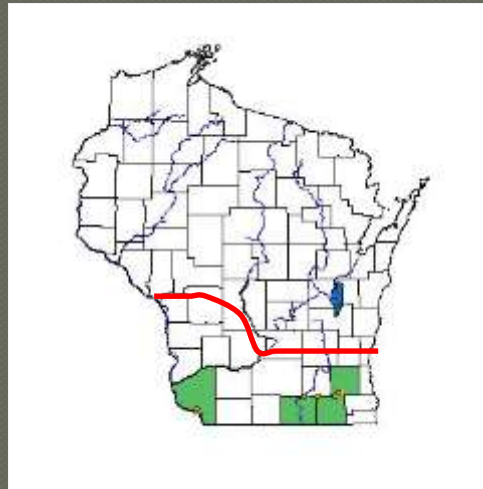
Prohibited – Not yet in the state or established in pioneer stands only; still have potential to eradicate and prevent statewide; high potential for environmental damage if widely established.

Restricted – Already established in the state; high environmental impacts

Prohibited & Restricted (Split-listed) Plants

Plants that are only locally or regionally abundant have split classification:

- Restricted where they are more abundant
- Prohibited where they are generally not yet known



Black swallow-wort flowers, distribution map, growth

Proposed Regulations By Category

Prohibited – No person may transport (import/move), possess, transfer (buy/sell) or introduce a prohibited species without a permit. The department may order or conduct a control effort.

Restricted – No person may transport (import/move), possess (fish only), transfer (buy/sell) or introduce a restricted species without a permit. Control encouraged but not required.

Many Exemptions – no permit required
to transport, transfer or introduce

Examples:

- Identification, control or disposal
(reporting may be required)
- Non-reproductive plant parts

Transport, possession, transfer or introduction

not considered a violation if:

1. the Department determines the action was incidental or unknowing, and
2. the person took reasonable precautions

“Reasonable precautions” includes approved Best Management Practices

When prohibited species are found:

- DNR will work with the landowner to survey and determine if control is reasonable and feasible.
- If so:
 - With permission of the landowner, or an inspection warrant, DNR may inspect the property and aid with control and monitoring
 - When possible, DNR will seek funding sources for control costs

For Restricted Species:

- Controls will be encouraged, but not required, unless:
 - a plant is listed locally as a noxious weed

Terrestrial Plants - Prohibited

- Porcelain berry - *Ampelopsis brevipedunculata*
- Yellow star thistle - *Centaurea solstitialis*
- Scotch broom - *Cytisus scoparius*
- Chinese yam - *Dioscorea oppositifolia*
- Giant hogweed - *Heracleum mantegazzianum*
- Perennial pepperweed - *Lepidium latifolium*
- Sericea lespedeza - *Lespedeza cuneata* / *Lespedeza sericea*
- Japanese honeysuckle - *Lonicera japonica*
- Japanese stilt grass - *Microstegium vimineum*
- Princess tree - *Paulownia tomentosa*
- Mile-a-minute vine - *Polygonum perfoliatum*
- Giant knotweed - *Polygonum sacchalinense* / *Fallopia sacchalinense*
- Kudzu - *Pueraria montana* / *Pueraria lobata*
- Sawtooth oak - *Quercus acutissima*
- Wineberry - *Rubus phoenicolasius*
- Spreading hedge parsley - *Torilis arvensis*
- Pale swallowwort - *Vincetoxicum rossicum* / *Cynanchum rossicum*

Plants Split-listed

(Prohibited where unknown, Restricted where already known - plus)

- **Celandine** - *Chelidonium majus* - Restricted south of Hwy 64. Prohibited north of Hwy 64
- **European marsh thistle** - *Cirsium palustre* - Restricted east of Hwy 13 and north of Hwy 29, including Door County. Prohibited elsewhere
- **Tall manna grass** - *Glyceria maxima* - Restricted east of a line from Oconto to Arlinton to the Illinois state line. Prohibited elsewhere
- **Japanese hops** - *Humulus japonicus* - Restricted in Grant and Crawford Counties. Prohibited elsewhere
- **Lyme grass** - *Leymus arenarius* / *Elymus arenarius* - Restricted in Door, Kewaunee, Manitowoc, Sheboygan, Racine Counties. Prohibited elsewhere
- **Amur honeysuckle** - *Lonicera maackii* - Restricted south of a line from LaCrosse to Wautoma to Oconto. Prohibited elsewhere
- **Japanese hedge parsley** - *Torilis japonicus* - Restricted south of a line from LaCrosse to Coloma to Heafford Junction to the Michigan state line. Prohibited elsewhere
- **Wild chervil** - *Anthriscus sylvestris* - Restricted only in Barron, Columbia, Dane, Milwaukee, Polk and Walworth Counties. Prohibited elsewhere.
- **Poison hemlock** - *Conium maculatum* - Restricted in Iowa and Grant Counties. Prohibited elsewhere.
- **Hill mustard** - *Bunias orientalis* - Restricted in Green and Lafayette Counties. Prohibited elsewhere.
- **Hairy willow herb** - *Epilobium hirsutum* - Restricted in Kenosha County. Prohibited elsewhere.
- **Black swallowwort** - *Vincetoxicum nigrum* / *Cynanchum louiseae* - Restricted south of a line from LaCrosse to Madison to Milwaukee. Prohibited elsewhere

Terrestrial Plants - Restricted

- **Tree of heaven** - *Ailanthus altissima*
- **Garlic mustard** - *Alliaria petiolata*
- **Creeping bellflower** - *Campanula rapunculoides*
- **Plumeless thistle** - *Carduus acanthoides*
- **Musk thistle** - *Carduus nutans*
- **Oriental bittersweet** - *Celastrus orbiculatus*
- **Spotted knapweed** - *Centaurea biebersteinii*
- **Canada thistle** - *Cirsium arvense*
- **Hound's tongue** - *Cynoglossum officinal*
- **Cut-leaved teasel** - *Dipsacus laciniatus*
- **Common teasel** - *Dipsacus sylvestris*
- **Russian olive** - *Elaeagnus angustifolia*
- **Autumn olive** - *Elaeagnus umbellata*
- **Helliborine orchid** - *Epipactis helleborine*
- **Cypress spurge** - *Euphorbia cyparrissias*
- **Leafy spurge** - *Euphorbia esula*
- **Hemp nettle** - *Galeopsis tetrahit*
- **Glossy buckthorn** - *Frangula alnus* / *Rhamnus frangula* (exempts cultivars *asplenifolia* and *Ron Williams*)
- **Dame's Rocket** - *Hesperis matronalis*
- **European bush honeysuckles** - *Lonicera tatarica*, *L. morrowii*, *L. bella*
- **Purple loosestrife** - *Lythrum salicaria*
- **Wild parsnip** - *Pastinaca sativa* (exempts vegetable)
- **Common reed** - *Phragmites australis* (exempts native ecotype)
- **Japanese knotweed** - *Polygonum cuspidatum*
- **Common buckthorn** - *Rhamnus cathartica*
- **Multiflora rose** - *Rosa multiflora*
- **Tansy** - *Tanacetum vulgare* (Exempts cultivars *Crispum* and *Aureum*)
- **Narrow-leaf cattail** - *Typha angustifolia*
- **Hybrid cattail** - *Typha x glauca*

Reporting Prohibited Species

- Take a photo or collect a plant
- Record location, landowner (if known), size of population
- Send to: Invasive.species@wi.gov
 - Endangered Resources /Invasives
WDNR 101 S. Webster St.
Madison, WI 53707-7921
608-267-5066

For More Information:

- **Best Management Practices:**

<http://council.wisconsinforestry.org/invasives/>

- **NR 40 – Invasive Species Rule:**

<http://www.dnr.state.wi.us/invasives/classification/>

Kelly Kearns
Endangered Resources, WI DNR
608-267-5066
Kelly.kearns@wisconsin.gov

First Go-Round Results

- Just under half were assessed
- Of those, most became regulated
- The 1st Go-Round caught the low-hanging fruit

				126 species on Pre-screen list				
		70 species Assessed (+ 5 species were added after pre-screen)				58 species went to Do Not Assess list		
15 species are Prohibited	22 species are Restricted	11 species are Caution	8 species are Non-restricted		21 species are Caution	13 species are Non-restricted	17 species are Not invasive	4 species are Pending
19 species are split between categories					1 species is Prohibited	2 species need non-legal class		



Porcelain berry
(*Ampelopsis*
brevipedunculata)

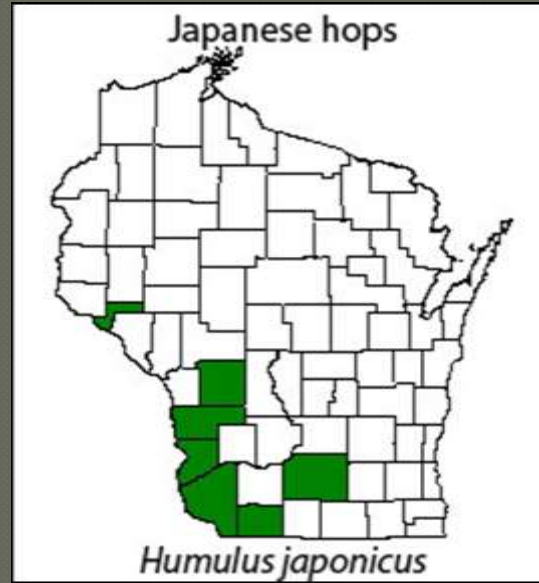


Elizabeth J. Czarapata

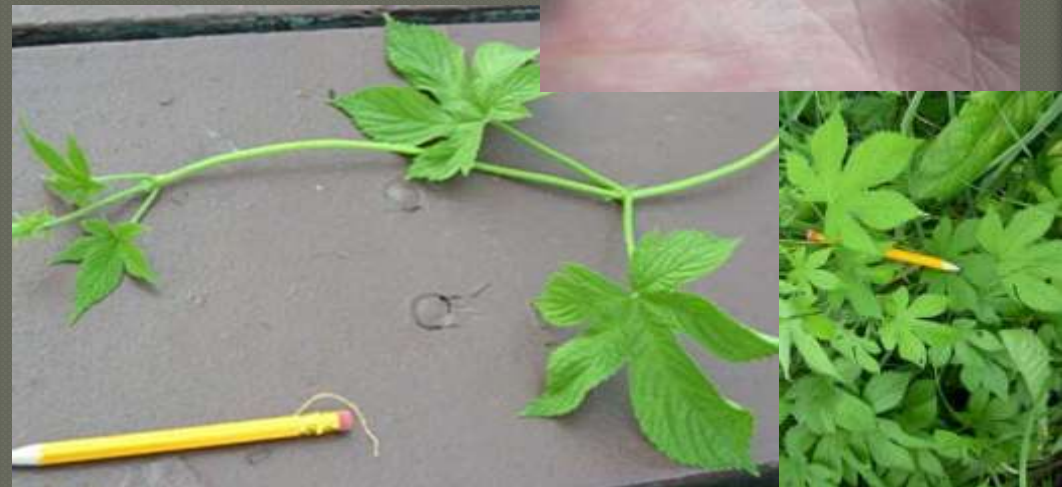


Porcelain berry (*Ampelopsis brevipedunculata*)

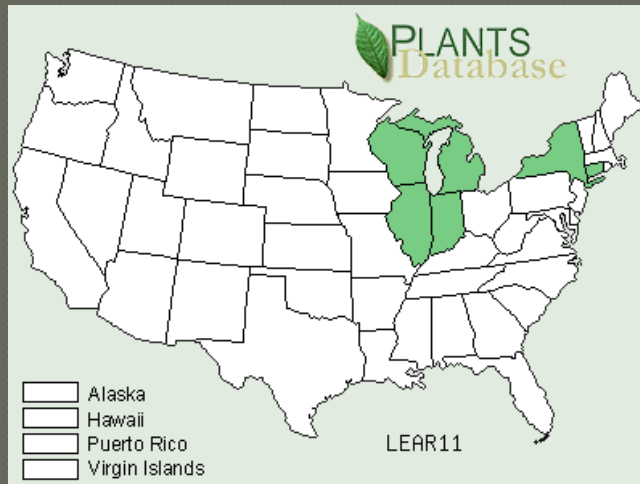
Japanese Hops (*Humulus japonicus*)



Japanese hops
(*Humulus japonicus*)



Lyme Grass (*Leymus arenarius*)



Lyme grass or
Sand ryegrass
(*Leymus arenarius*)



Glossy Buckthorn (*Rhamnus frangula*)



Glossy buckthorn
(*Rhamnus frangula*)



(C) 2002, Gary Fewless

Tartarian Honeysuckle (*Lonicera tatarica*)



**Tartarian
honeysuckle**
(*Lonicera tatarica*)

Oriental bittersweet (*Celastrus orbiculatus*)



Oriental bittersweet
(*Celastrus orbiculatus*)



Native bittersweet has fruits at the end of the stem, Oriental is at the nodes.



Creeping Bellflower (*Campanula rapunculoides*)



Creeping bellflower
(*Campanula rapunculoides*)



Cypress Spurge (*Euphorbia cyparissias*)



Cypress spurge
(*Euphorbia cyparissias*)



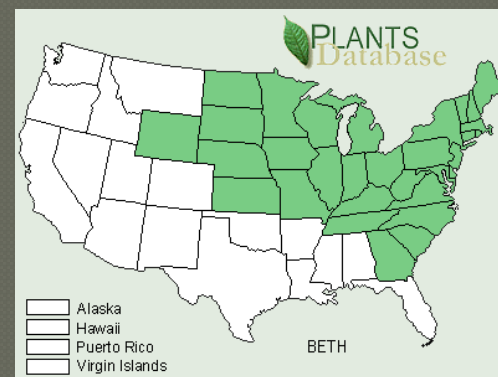
Japanese Knotweed (*Polygonum cuspidatum*)



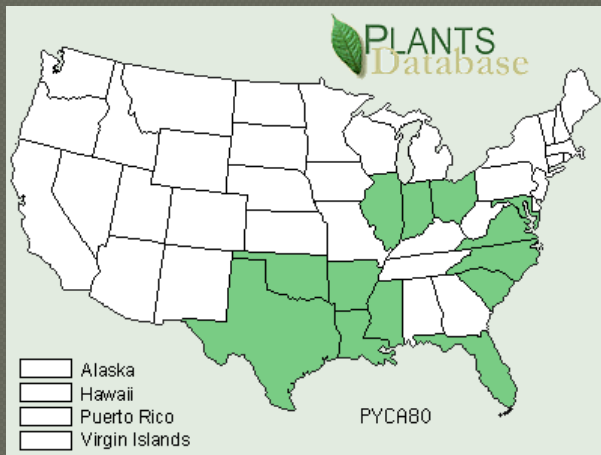
Japanese knotweed
(*Polygonum cuspidatum*)

® Photo by
Elizabeth J. Czarapata

Japanese Barberry (*Berberis thunbergii*)



Callery pear (*Pyrus calleryana*)



Second Go-Round



Anticipated timeline:

- June 27, 2012 - Board presentation
- October 2012 - Council reviews species proposed by the Species Assessment Groups
- Spring 2013 - Public listening sessions, economic impact research
- Fall 2014 - Target for final rule

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