Wisconsin’s Invasive Species Classification Assessment and Rule
The Process

- Legislature gave WIDNR authority to create an invasive species classification system.
- Legislature also created Wis. Council on Invasive Species (WCIS) – advisory to WIDNR
- WCIS + WIDNR developed assessment process and criteria and draft regulations
- Chose species to be assessed
- Literature reviews developed
- Species Assessment Groups (SAGs) assessments
WCIS Regulations Committee

- Included stakeholders representing agriculture, green industry, landowners, forestry, utilities, Dept. of Ag + DNR staff

- Reviewed existing regulations in other states
- Developed regulatory categories
- Assisted with draft regulations
Categories

**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 be assessed for future rule revisions
WCIS Research Committee

- Included researchers in Entomology, Botany, Aquatic Biology, Plant Pathology, Plant Propagator, APHIS Biologist + DNR staff

- Reviewed existing assessment systems
  - NatureServe I-rank
  - IPSAWG (IN Plant Species Assessmt Wk Grp)
  - Others

- Developed assessment criteria
- Developed species assessment process
  - Literature reviews
  - Species Assessment Groups
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
Species Assessment Groups

- Aquatic Plants
- Woody Plants (trees, shrubs and vines)
- Herbaceous Plants (terrestrial and wetland)
- Soil and terrestrial invertebrates and disease pests of native plants
- Terrestrial Vertebrates
- Aquatic Animals (fish and invertebrates)
Selecting Species to Assess

Species chosen from:
- Reviewed existing lists + recommendations
- Staff determined species to assess
- WCIS reviewed and approved species lists
Selecting Species to Assess

Focused on species:

• known to be ecologically invasive species (not agricultural or lawn weeds)
• Commonly known + locally abundant species
• Known invasive elsewhere, likely to persist
• No significant value to a sector of society
Selecting Species to Assess

- Significant socio-economic values put on pending list – assess at next rule revision
- Minimal use in trade - reviewed and most approved by WI Nursery Association for listing
• No evidence of possible over-winter survival or naturalizing in WI - not assessed or put on “Caution” list
Literature Summaries/Findings

- Sought information on assessment criteria (status, potential for spread, damage, control, socio-economic impacts)
- Biologists hired to review literature and talk to specialists
- Reviewed by land managers, researchers and horticulture professionals
- Posted on classification website
NAME OF SPECIES: Ampelopsis brevipedunculata (Maxim.) Trautv. (1)

Synonyms:  Ampelopsis brevipedunculata (Maxim.) Trautv. var. maximowiczii (Regel) Rehder; Ampelopsis heterophylla (Thunb.) Siebold & Zucc. (1)
Ampelopsis brevipedunculata var. elegans (K. Koch) L. H. Bailey; Ampelopsis glandulosa var. brevipedunculata (Maxim.) Momiy.; Ampelopsis glandulosa var. heterophylla (Thunb.) Momiy.; Cissus brevipedunculata Maxim. [basionym]; Vitis brevipedunculata (Maxim.) Dippel; Vitis heterophylla Thunb. (3)

Common Name: Porcelain berry, Amur pepper-vine, porcelain-berry, turquoise-berry (1)

A. CURRENT STATUS AND DISTRIBUTION

<table>
<thead>
<tr>
<th>I. In Wisconsin?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Abundance: 2 recorded occurrences in WI. (1)</td>
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<tr>
<td>3. Geographic Range: Noted from 2 WI counties (1)</td>
<td></td>
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<tr>
<td>4. Habitat Invaded: Roadside, oak woods (1) Disturbed Areas ☒ Undisturbed Areas ☐</td>
<td></td>
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<tr>
<td>5. Historical Status and Rate of Spread in Wisconsin: First documented in 1999. (1)</td>
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<tr>
<td>6. Proportion of potential range occupied: Probably less than 1%</td>
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</tr>
</tbody>
</table>

II. Invasive in Similar Climate Zones

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where [include trends]: Massachusetts - Occurs in upland woodland edges and thickets and grows in full sun to partial shade (5). Porcelain-berry is found from New England to North Carolina and west to Michigan and is reported to be invasive in twelve states in the Northeast (10).</td>
<td></td>
</tr>
</tbody>
</table>

III. Invasive in Similar Habitat Types

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upland ☒ Wetland ☒ Dune ☐ Prairie ☐ Aquatic ☐ Forest ☒ Grassland ☐ Bog ☐ Fen ☐ Swamp ☐ Marsh ☐ Lake ☒ Stream ☒ Other: In New England porcelain berry is found in the following habitats: Abandoned Field Early Successional Forest; Edge Pasture; Planted Forest; Railroad Right-of-Way; Roadside; Utility Right-of-Way; Vacant Lot; Yard or Garden. It prefers moist soils and partial sun. It grows well along stream banks and thickets. It can also be found along shorelines, or</td>
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</table>

Unknown Zone
<table>
<thead>
<tr>
<th>Category</th>
<th>Criteria</th>
<th>Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prohibited</td>
<td>a) Not in state, or small pockets of infestation exist;</td>
<td>Prevent from entering or becoming established in Wisconsin. When introduction occurs, take action to eradicate when possible.</td>
</tr>
<tr>
<td></td>
<td>b) High potential for establishment, or potential unknown;</td>
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<tr>
<td></td>
<td>c) High potential for environmental or economic harm, or harm to human health and safety;</td>
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<tr>
<td></td>
<td>d) High potential for eradication and/or control;</td>
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<td></td>
<td>e) Variable socio-economic value.</td>
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<tr>
<td>Category</td>
<td>Criteria</td>
<td>Goals</td>
</tr>
<tr>
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</tbody>
</table>
| Restricted| a) Already established in state (or with high potential to become established, but less harmful than prohibited species), may or may not be widespread;  
b) High potential for spread;  
c) High or medium potential for harm;  
d) Low potential for eradication; some degree of control possible;  
e) Typically medium, low or unknown socio-economic value. | Contain so they do not spread beyond their existing boundaries. |
Function of the Species Assessment Groups (SAGs)

• Advisory to the Council
• Review literature summaries
• Talk with others and bring new info to SAG
• Discuss and vote to recommend a classification
• May also suggest need for permits, exemptions or geographical range differentials
Herbaceous Plant SAG Members

- Shady Acres Nursery
- Northern Sunset Perennials
- Jungs Seed Company
- WI Agri Services Association
- Dept. of Agriculture
- Dept. of Transportation
- UW Horticulture
- IPAW President, UW Prof Emeritus Agronomy
- Natural Resources Conservation Service
- Gt. Lakes Indian Fish and Wildlife Commission
- The Nature Conservancy
- Integrated Restorations, LLC (consulting ecologist)

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- DNR Endangered Res – SAG Staff
- UWEX Dane Co. – Facilitator
- UW Arboretum – note-taker
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
**SAG Group Rating Form - 8/15/07**

Species Assessment Group - Summary of group ratings

Species: **Ampelopsis brevipedunculata**

Date: 

Members of the SAG:

<table>
<thead>
<tr>
<th>Ratings for Criteria - 1st round</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>Total #</th>
<th>Average</th>
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<tbody>
<tr>
<td>2. Establishment potential</td>
<td>4</td>
<td>4</td>
<td>2</td>
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<td>15</td>
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<tr>
<td>3. Damage potential</td>
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<td>2</td>
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<td>4. Prevention and control potential</td>
<td>4</td>
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<td>2</td>
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<tr>
<td>5. Socio-economic impacts</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
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<td>2</td>
<td>4</td>
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**Totals - 1st round**

<table>
<thead>
<tr>
<th>Prohibited</th>
<th>Restricted</th>
<th>Watch</th>
<th>Non-restricted</th>
<th>Insufficient Information</th>
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<tr>
<td>xxxxx</td>
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Comments:
- Variegated cultivar is less aggressive but still invasive.
- One nursery sells about $500 per year, cultivar elegans is in commerce, stopped growing species because of invasiveness, grew elegans comes out true from seed, did not seem to be a problem compared to the species but did not think it was worth the risk.

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<thead>
<tr>
<th>Ratings for Criteria - 2nd round</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>13</th>
<th>14</th>
<th>15</th>
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<th>Average</th>
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<tr>
<td>1. Current status and distribution</td>
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<td>2. Establishment potential</td>
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<td>3. Damage potential</td>
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**Totals - 2nd round**

<table>
<thead>
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<th>Prohibited</th>
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<tbody>
<tr>
<td>xxxxx</td>
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</table>

**Final Recommended Classification:** Prohibited

Final Comments/Rationale: Cultivar elegans will be rated separately as "Watch".
## Terrestrial Plants

<table>
<thead>
<tr>
<th>Recommended Category/Classification</th>
<th>Common Name</th>
<th>Species and Genus</th>
<th>Notes</th>
<th>Literature Review</th>
<th>SAG Group Rating Form</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prohibited</strong></td>
<td><strong>Porcelain Berry</strong></td>
<td><strong>Ampelopsis brevipedunculata</strong></td>
<td>ughters the variegated cultivar</td>
<td>Click Here</td>
<td>Click Here</td>
</tr>
<tr>
<td></td>
<td><strong>Wild Chervil</strong></td>
<td><strong>Anthriscus sylvestris</strong></td>
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<tr>
<td></td>
<td><strong>Hill Mustard</strong></td>
<td><strong>Rumex obtusifolius</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Yellow star thistle</strong></td>
<td><strong>Centaurea solstitialis</strong></td>
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<td>Click Here</td>
<td>Click Here</td>
</tr>
<tr>
<td></td>
<td><strong>Poison Hemlock</strong></td>
<td><strong>Conium maculatum</strong></td>
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<td>Click Here</td>
</tr>
<tr>
<td></td>
<td><strong>Scotch broom</strong></td>
<td><strong>Cytisus scoparius</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Chinese Yam</strong></td>
<td><strong>Dioscorea oppositifolia</strong></td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Hairy willow herb</strong></td>
<td><strong>Epilobium hirsutum</strong></td>
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<td>Click Here</td>
</tr>
<tr>
<td></td>
<td><strong>Giant Hogweed</strong></td>
<td><strong>Heracleum mantegazzianum</strong></td>
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<td>Click Here</td>
</tr>
</tbody>
</table>
- Some species ended up in categories other than what staff was anticipating.....

Tansy and glossy buckthorn cultivars

European earthworms

Kentucky bluegrass

Reed canary grass
THE CLASSIFICATION PROCESS

SAG Recommendations

WI Council of Invasive Species

DNR Staff (workgroup) develops draft rules

Public Input Process
- Summary on website,
- listening sessions
- written comments

DNR Staff revise draft rules as appropriate for Administration’s OK

Secretary approves NRB agenda item

Rule Process