

**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

Scientific name: Aegopodium podagraria L. USDA Plants Code: AEPO  
 Common names: Bishop's goutweed  
 Native distribution: Europe and Asia  
 Date assessed: March 1, 2008; October 2, 2008; revised 01-17-2013  
 Assessors: Jinshuang Ma, Gerry Moore; revision Marilyn Jordan and SRC  
 Reviewers: LIISMA SRC  
 Date Approved: 10-08-2008; 01-17-2013 Form version date: 28 November 2012

**New York Invasiveness Rank:** Moderate (Relative Maximum Score 50.00-69.99)

<b>Distribution and Invasiveness Rank</b> (Obtain from PRISM invasiveness ranking form)		
Status of this species in each PRISM:	Current Distribution	PRISM Invasiveness Rank
1 Adirondack Park Invasive Program	Not Assessed	Not Assessed
2 Capital/Mohawk	Not Assessed	Not Assessed
3 Catskill Regional Invasive Species Partnership	Not Assessed	Not Assessed
4 Finger Lakes	Not Assessed	Not Assessed
5 Long Island Invasive Species Management Area	Widespread	Moderate
6 Lower Hudson	Not Assessed	Not Assessed
7 Saint Lawrence/Eastern Lake Ontario	Not Assessed	Not Assessed
8 Western New York	Not Assessed	Not Assessed

<b>Invasiveness Ranking Summary</b> (see details under appropriate sub-section)		Total (Total Answered*) Possible	Total
1	Ecological impact	40 ( <u>20</u> )	14
2	Biological characteristic and dispersal ability	25 ( <u>25</u> )	16
3	Ecological amplitude and distribution	25 ( <u>25</u> )	15
4	Difficulty of control	10 ( <u>10</u> )	6
	Outcome score	100 ( <u>80</u> ) <sup>b</sup>	54 <sup>a</sup>
	Relative maximum score †		63.75
	New York Invasiveness Rank (for natural areas) §	Moderate (Relative Maximum Score 50.00-69.99)	

\* For questions answered "unknown" do not include point value in "Total Answered Points Possible." If "Total Answered Points Possible" is less than 70.00 points, then the overall invasive rank should be listed as "Unknown."

† Calculated as 100(a/b) to two decimal places.

§ Very High >80.00; High 70.00–80.00; Moderate 50.00–69.99; Low 40.00–49.99; Insignificant <40.00  
 Not Assessable: not persistent in NY, or not found outside of cultivation.

**A. DISTRIBUTION (KNOWN/POTENTIAL): Summarized from individual PRISM forms**

A1.1. Has this species been documented to persist without cultivation in NY? (reliable source; voucher not required)		
<input checked="" type="checkbox"/>	Yes – continue to A1.2	
<input type="checkbox"/>	No – continue to A2.1	
A1.2. In which PRISMs is it known (see inset map)?		
<input checked="" type="checkbox"/>	Adirondack Park Invasive Program	
<input checked="" type="checkbox"/>	Capital/Mohawk	
<input checked="" type="checkbox"/>	Catskill Regional Invasive Species Partnership	
<input checked="" type="checkbox"/>	Finger Lakes	
<input checked="" type="checkbox"/>	Long Island Invasive Species Management Area	
<input checked="" type="checkbox"/>	Lower Hudson	
<input checked="" type="checkbox"/>	Saint Lawrence/Eastern Lake Ontario	
<input checked="" type="checkbox"/>	Western New York	

**NEW YORK  
NON-NATIVE PLANT INVASIVENESS RANKING FORM  
FOR NATURAL / MINIMALLY MANAGED AREAS**

**Documentation:**

Sources of information:

Weldy & Werier, 2005; Brooklyn Botanic Garden, 2008.

A2.1. What is the likelihood that this species will occur and persist outside of cultivation, given the climate in the following PRISMs? (obtain from PRISM invasiveness ranking form)

Not Assessed	Adirondack Park Invasive Program
Not Assessed	Capital/Mohawk
Not Assessed	Catskill Regional Invasive Species Partnership
Not Assessed	Finger Lakes
Very Likely	Long Island Invasive Species Management Area
Not Assessed	Lower Hudson
Not Assessed	Saint Lawrence/Eastern Lake Ontario
Not Assessed	Western New York

**Documentation:**

Sources of information (e.g.: distribution models, literature, expert opinions):

Weldy & Werier, 2005; Brooklyn Botanic Garden, 2008.

***If the species does not occur and is not likely to occur in any of the PRISMs, then stop here as there is no need to assess the species. Rank is "Not Assessable."***

A2.2. What is the current distribution of the species in each PRISM? (obtain rank from PRISM invasiveness ranking forms)

	Distribution
Adirondack Park Invasive Program	Not Assessed
Capital/Mohawk	Not Assessed
Catskill Regional Invasive Species Partnership	Not Assessed
Finger Lakes	Not Assessed
Long Island Invasive Species Management Area	Widespread
Lower Hudson	Not Assessed
Saint Lawrence/Eastern Lake Ontario	Not Assessed
Western New York	Not Assessed

**Documentation:**

Sources of information:

Weldy & Werier, 2005; Brooklyn Botanic Garden, 2008.

A2.3. Describe the potential or known suitable habitats within New York. Natural habitats include all habitats not under active human management. Managed habitats are indicated with an asterisk.

<p><b>Aquatic Habitats</b></p> <p><input type="checkbox"/> Salt/brackish waters</p> <p><input type="checkbox"/> Freshwater tidal</p> <p><input type="checkbox"/> Rivers/streams</p> <p><input type="checkbox"/> Natural lakes and ponds</p> <p><input type="checkbox"/> Vernal pools</p> <p><input type="checkbox"/> Reservoirs/impoundments*</p>	<p><b>Wetland Habitats</b></p> <p><input type="checkbox"/> Salt/brackish marshes</p> <p><input type="checkbox"/> Freshwater marshes</p> <p><input type="checkbox"/> Peatlands</p> <p><input type="checkbox"/> Shrub swamps</p> <p><input type="checkbox"/> Forested wetlands/riparian</p> <p><input checked="" type="checkbox"/> Ditches*</p> <p><input type="checkbox"/> Beaches and/or coastal dunes</p>	<p><b>Upland Habitats</b></p> <p><input checked="" type="checkbox"/> Cultivated*</p> <p><input checked="" type="checkbox"/> Grasslands/old fields</p> <p><input type="checkbox"/> Shrublands</p> <p><input checked="" type="checkbox"/> Forests/woodlands</p> <p><input type="checkbox"/> Alpine</p> <p><input checked="" type="checkbox"/> Roadsides*</p>
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Other potential or known suitable habitats within New York:

**Documentation:**

Sources of information:

Fellows, 2004; Brooklyn Botanic Garden, 2008.

**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

---

**B. INVASIVENESS RANKING**

Questions apply to areas similar in climate and habitats to New York unless specified otherwise.

*1. ECOLOGICAL IMPACT*

1.1. Impact on Natural Ecosystem Processes and System-Wide Parameters (e.g. fire regime, geomorphological changes (erosion, sedimentation rates), hydrologic regime, nutrient and mineral dynamics, light availability, salinity, pH)

- A. No perceivable impact on ecosystem processes based on research studies OR there are no reports of impacts and the species is widespread (>10 occurrences in minimally managed areas), has been well-studied (>10 reports/publications), and has been present in the northeast for >100 years. 0
- B. Influences ecosystem processes to a minor degree (e.g., has a perceivable but mild influence on soil nutrient availability) 3
- C. Significant alteration of ecosystem processes (e.g., increases sedimentation rates along streams or coastlines, reduces open water that are important to waterfowl) 7
- D. Major, possibly irreversible, alteration or disruption of ecosystem processes (e.g., the species alters geomorphology and/or hydrology, affects fire frequency, alters soil pH, or fixes substantial levels of nitrogen in the soil making soil unlikely to support certain native plants or more likely to favor non-native species) 10
- U. Unknown

Score U

**Documentation:**

Identify ecosystem processes impacted (or if applicable, justify choosing answer A in the absence of impact information)  
 Fellows (2006) : "Despite being well-established in the United States since at least the mid-1800s (Mehrhoff, 2003; Garske & Schimpf, 2005) no reports of impacts on ecosystem processes or system-wide parameters were found. Therefore assume impacts are relatively insignificant." However, detailed ecological studies are lacking.  
 Sources of information:  
 Mehrhoff et al., 2004; Garske & Schimpf, 2005; Fellows, 2006.

1.2. Impact on Natural Community Structure

- A. No perceived impact; establishes in an existing layer without influencing its structure 0
- B. Influences structure in one layer (e.g., changes the density of one layer) 3
- C. Significant impact in at least one layer (e.g., creation of a new layer or elimination of an existing layer) 7
- D. Major alteration of structure (e.g., covers canopy, eradicating most or all layers below) 10
- U. Unknown

Score 7

**Documentation:**

Identify type of impact or alteration:  
 Greatly increases the density in existing herb layer. Can also create an herb layer when one is absent. Also can inhibit the establishment of native tree species (Garske & Schimpf, 2005).  
 Sources of information:  
 Garske & Schimpf, 2005; Fellows, 2006; author's (Moore's) personal observations.

1.3. Impact on Natural Community Composition

- A. No perceived impact; causes no apparent change in native populations 0
- B. Influences community composition (e.g., reduces the number of individuals in one or more native species in the community) 3
- C. Significantly alters community composition (e.g., produces a significant reduction in the population size of one or more native species in the community) 7
- D. Causes major alteration in community composition (e.g., results in the extirpation of one or

**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

---

several native species, reducing biodiversity or change the community composition towards species exotic to the natural community)

U. Unknown

Score 

7
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**Documentation:**  
 Identify type of impact or alteration:  
 Greatly crowds out native species where established (Fewless, 2003) and shown to greatly reduce diversity in the ground layer (Garske & Schimpf, 2005). Author (Moore) has noted this in woodlands in Prospect Park in Brooklyn.  
 Sources of information:  
 Fewless, 2003; Garske & Schimpf, 2005; author's (Moore's) personal observations.

1.4. Impact on other species or species groups (cumulative impact of this species on the animals, fungi, microbes, and other organisms in the community it invades. Examples include reduction in nesting/foraging sites; reduction in habitat connectivity; injurious components such as spines, thorns, burrs, toxins; suppresses soil/sediment microflora; interferes with native pollinators and/or pollination of a native species; hybridizes with a native species; hosts a non-native disease which impacts a native species)

- A. Negligible perceived impact 0
- B. Minor impact 3
- C. Moderate impact 7
- D. Severe impact on other species or species groups 10
- U. Unknown

Score 

U
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**Documentation:**  
 Identify type of impact or alteration:  
 Fellows (2006) assumes that "any impacts are not significant." However, studies are lacking.  
 Sources of information:  
 Fellows, 2006.

Total Possible	20
Section One Total	14

**2. BIOLOGICAL CHARACTERISTICS AND DISPERSAL ABILITY**

**2.1. Mode and rate of reproduction**

- A. No reproduction by seeds or vegetative propagules (i.e. plant sterile with no sexual or asexual reproduction). Such a species should be ranked "Not Assessable" as it will occur only in cultivated settings and cannot escape into natural/minimally managed areas. End the assessment here. 0
- B. Limited reproduction (fewer than 10 viable seeds per plant; if seed viability is not known, then maximum seed production is less than 100 seeds per plant) AND no reproduction by vegetative propagules (e.g. bulbils, turions, pieces of rhizomes, etc.) is documented as a natural (not spread by people) mode of dispersal across gaps by the species. 1
- C. Moderate reproduction (fewer than 100 viable seeds per plant; if viability is not known, then maximum seed production is less than 1000 seeds per plant) – OR limited reproduction by vegetative propagules (e.g. bulbils, turions, pieces of rhizomes, etc.) is documented as a natural (not spread by people) mode of dispersal across gaps by the species. For aquatic species viable plant fragments may be treated as vegetative propagules. 2
- D. Significant reproduction by seeds (more than 100 viable seeds per plant; if viability is not known, then maximum seed production reported to be greater than 1000 seeds per plant) –OR abundant reproduction by vegetative propagules (e.g. bulbils, turions, pieces of rhizomes, etc.) is documented as a natural (not spread by people) mode of dispersal across gaps by the species. For aquatic species viable plant fragments may be treated as vegetative propagules. 4

**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

---

U. Unknown

Score

**Documentation:**

Describe key reproductive characteristics (including seeds per plant):

Seed production limited (seed packets are sold) but has extensive vegetative asexual spread. The plant doesn't appear to readily establish by seed since it does not escape in landscape settings but increases primarily by vegetative growth.

Sources of information:

Voss, 1985; Mehrhoff et al., 2004; Garske & Schimpf, 2005; Fellows, 2006; authors' personal observations.

2.2. Innate potential for long-distance dispersal (e.g. bird dispersal, sticks to animal hair, buoyant fruits, pappus for wind-dispersal)

- A. Does not occur (no long-distance dispersal mechanisms) 0
- B. Infrequent or inefficient long-distance dispersal (occurs occasionally despite lack of adaptations) 1
- C. Moderate opportunities for long-distance dispersal (adaptations exist for long-distance dispersal, but studies report that 95% of seeds land within 100 meters of the parent plant) 2
- D. Numerous opportunities for long-distance dispersal (adaptations exist for long-distance dispersal and evidence that many seeds disperse greater than 100 meters from the parent plant) 4
- U. Unknown

Score

**Documentation:**

Identify dispersal mechanisms:

Seed set is scarce and small seeds lack adaptations for long distance dispersal. Rhizomes might be able to be dispersed long distances but data are lacking.

Sources of information:

Mehrhoff et al., 2004; Fellows, 2006; author's (Moore's) personal observations.

2.3. Potential to be spread by human activities (both directly and indirectly – possible mechanisms include: commercial sales, use as forage/revegetation, spread along highways, transport on boats, contaminated compost, land and vegetation management equipment such as mowers and excavators, etc.)

- A. Does not occur 0
- B. Low (human dispersal to new areas occurs almost exclusively by direct means and is infrequent or inefficient) 1
- C. Moderate (human dispersal to new areas occurs by direct and indirect means to a moderate extent) 2
- D. High (opportunities for human dispersal to new areas by direct and indirect means are numerous, frequent, and successful) 3
- U. Unknown

Score

**Documentation:**

Identify dispersal mechanisms:

Species is commercially sold and planted as a ground cover. Indirect spread can occur through disposal of yard and lawn waste.

Sources of information:

Voss, 1985; Mehrhoff et al., 2004; Garske & Schimpf, 2005.

2.4. Characteristics that increase competitive advantage, such as shade tolerance, ability to grow on infertile soils, perennial habit, fast growth, nitrogen fixation, allelopathy, etc.

- A. Possesses no characteristics that increase competitive advantage 0
- B. Possesses one characteristic that increases competitive advantage 3

**NEW YORK  
NON-NATIVE PLANT INVASIVENESS RANKING FORM  
FOR NATURAL / MINIMALLY MANAGED AREAS**

---

- C. Possesses two or more characteristics that increase competitive advantage 6  
 U. Unknown

Score

**Documentation:**  
 Evidence of competitive ability:  
 Shade tolerant, perennial, grows on infertile soils.  
 Sources of information:  
 Fewless, 2003; Garske & Schimpf, 2005; Fellows, 2006.

**2.5. Growth vigor**

- A. Does not form thickets or have a climbing or smothering growth habit 0  
 B. Has climbing or smothering growth habit, forms a dense layer above shorter vegetation, forms dense thickets, or forms a dense floating mat in aquatic systems where it smothers other vegetation or organisms 2  
 U. Unknown

Score

**Documentation:**  
 Describe growth form:  
 Can exhibit smothering growth, described as "dense mats" by Fellows (2006).  
 Sources of information:  
 Mehrhoff et al., 2004; Garske & Schimpf, 2005; Fellows, 2006; author's (Moore's) personal observations.

**2.6. Germination/Regeneration**

- A. Requires open soil or water and disturbance for seed germination, or regeneration from vegetative propagules. 0  
 B. Can germinate/regenerate in vegetated areas but in a narrow range or in special conditions 2  
 C. Can germinate/regenerate in existing vegetation in a wide range of conditions 3  
 U. Unknown (No studies have been completed)

Score

**Documentation:**  
 Describe germination requirements:  
 While seed production is rare and species requires open soil to germinate (Fellows, 2006; Garske & Schimpf, 2005), it can readily regenerate in existing vegetation from extensive rhizome system in a wide variety of conditions (Fellows, 2006).  
 Sources of information:  
 Garske & Schimpf, 2005; Fellows, 2006; author's (Moore's) personal observations.

**2.7. Other species in the genus invasive in New York or elsewhere**

- A. No 0  
 B. Yes 3  
 U. Unknown

Score

**Documentation:**  
 Species:

Total Possible   
 Section Two Total

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**3. ECOLOGICAL AMPLITUDE AND DISTRIBUTION**

3.1. Density of stands in natural areas in the northeastern USA and eastern Canada (use

**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

---

same definition as Gleason & Cronquist: “The part of the United States covered extends from the Atlantic Ocean west to the western boundaries of Minnesota, Iowa, northern Missouri, and southern Illinois, south to the southern boundaries of Virginia, Kentucky, and Illinois, and south to the Missouri River in Missouri. In Canada the area covered includes Nova Scotia, Prince Edward Island, New Brunswick, and parts of Quebec and Ontario south of the 47th parallel of latitude”)

- A. No large stands (no areas greater than 1/4 acre or 1000 square meters) 0
- B. Large dense stands present in areas with numerous invasive species already present or disturbed landscapes 2
- C. Large dense stands present in areas with few other invasive species present (i.e. ability to invade relatively pristine natural areas) 4
- U. Unknown

Score

**Documentation:**

Identify reason for selection, or evidence of weedy history:

Large dense stands always reported in areas with numerous other invasive species present.

Sources of information:

Mehrhoff et al., 2004; Garske & Schimpf, 2005; Fellows, 2006; author's (Moore's) personal observations.

**3.2. Number of habitats the species may invade**

- A. Not known to invade any natural habitats given at A2.3 0
- B. Known to occur in two or more of the habitats given at A2.3, with at least one a natural habitat. 1
- C. Known to occur in three or more of the habitats given at A2.3, with at least two a natural habitat. 2
- D. Known to occur in four or more of the habitats given at A2.3, with at least three a natural habitat. 4
- E. Known to occur in more than four of the habitats given at A2.3, with at least four a natural habitat. 6
- U. Unknown

Score

**Documentation:**

Identify type of habitats where it occurs and degree/type of impacts:

See A2.3.

Sources of information:

Fellows, 2006; Brooklyn Botanic Garden, 2008.

**3.3. Role of disturbance in establishment**

- A. Requires anthropogenic disturbances to establish. 0
- B. May occasionally establish in undisturbed areas but can readily establish in areas with natural or anthropogenic disturbances. 2
- C. Can establish independent of any known natural or anthropogenic disturbances. 4
- U. Unknown

Score

**Documentation:**

Identify type of disturbance:

Reported and observed to occur only in areas with anthropogenic disturbance.

Sources of information:

Mehrhoff et al., 2004; Fellows, 2006; author's personal observations.

**3.4. Climate in native range**

- A. Native range does not include climates similar to New York 0

**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

- B. Native range possibly includes climates similar to at least part of New York. 1
- C. Native range includes climates similar to those in New York 3
- U. Unknown

Score 

3
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**Documentation:**

Describe what part of the native range is similar in climate to New York:

Europe and temperate Asia.

Sources of information:

Fellows, 2006; Brooklyn Botanic Garden, 2008.

**3.5. Current introduced distribution in the northeastern USA and eastern Canada (see question 3.1 for definition of geographic scope )**

- A. Not known from the northeastern US and adjacent Canada 0
- B. Present as a non-native in one northeastern USA state and/or eastern Canadian province. 1
- C. Present as a non-native in 2 or 3 northeastern USA states and/or eastern Canadian provinces. 2
- D. Present as a non-native in 4–8 northeastern USA states and/or eastern Canadian provinces, and/or categorized as a problem weed (e.g., “Noxious” or “Invasive”) in 1 northeastern state or eastern Canadian province. 3
- E. Present as a non-native in >8 northeastern USA states and/or eastern Canadian provinces, and/or categorized as a problem weed (e.g., “Noxious” or “Invasive”) in 2 northeastern states or eastern Canadian provinces. 4
- U. Unknown

Score 

4
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**Documentation:**

Identify states and provinces invaded:

CT, DC, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, PA, RI, VA, VT, WI, WV; NB, NF, NS, ON, PE, QC.

Sources of information: See known introduced range in plants.usda.gov, and update with information from states and Canadian provinces.

U.S.D.A., 2008.

**3.6. Current introduced distribution of the species in natural areas in the eight New York State PRISMs (Partnerships for Regional Invasive Species Management)**

- A. Present in none of the PRISMs 0
- B. Present in 1 PRISM 1
- C. Present in 2 PRISMs 2
- D. Present in 3 PRISMs 3
- E. Present in more than 3 PRISMs or on the Federal noxious weed lists 4
- U. Unknown

Score 

4
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**Documentation:**

Describe distribution:

All PRISMs; see A1.1.

Sources of information:

Weldy & Werier, 2005; Brooklyn Botanic Garden, 2008.

Total Possible 

25
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Section Three Total 

15
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**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

**4. DIFFICULTY OF CONTROL**

**4.1. Seed banks**

- A. Seeds (or vegetative propagules) remain viable in soil for less than 1 year, or does not make viable seeds or persistent propagules. 0
- B. Seeds (or vegetative propagules) remain viable in soil for at least 1 to 10 years 2
- C. Seeds (or vegetative propagules) remain viable in soil for more than 10 years 3
- U. Unknown

Score 

0
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**Documentation:**  
 Identify longevity of seed bank:  
 Seed production sparse and seeds only germinate the following season; no evidence that rhizomes can function as persistent propagules  
 Sources of information:  
 Garske & Schimpf, 2005; Fellows, 2006.

**4.2. Vegetative regeneration**

- A. No regrowth following removal of aboveground growth 0
- B. Regrowth from ground-level meristems 1
- C. Regrowth from extensive underground system 2
- D. Any plant part is a viable propagule 3
- U. Unknown

Score 

2
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**Documentation:**  
 Describe vegetative response:  
 Regrowth from extensive underground rhizome system.  
 Sources of information:  
 Garske & Schimpf, 2005; Fellows, 2006; author's personal observations.

**4.3. Level of effort required**

- A. Management is not required: e.g., species does not persist without repeated anthropogenic disturbance. 0
- B. Management is relatively easy and inexpensive: e.g. 10 or fewer person-hours of manual effort (pulling, cutting and/or digging) can eradicate a 1 acre infestation in 1 year (infestation averages 50% cover or 1 plant/100 ft<sup>2</sup>). 2
- C. Management requires a major short-term investment: e.g. 100 or fewer person-hours/year of manual effort, or up to 10 person-hours/year using mechanical equipment (chain saws, mowers, etc.) for 2-5 years to suppress a 1 acre infestation. Eradication is difficult, but possible (infestation as above). 3
- D. Management requires a major investment: e.g. more than 100 person-hours/year of manual effort, or more than 10 person hours/year using mechanical equipment, or the use of herbicide, grazing animals, fire, etc. for more than 5 years to suppress a 1 acre infestation. Eradication may be impossible (infestation as above). 4
- U. Unknown

Score 

4
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**Documentation:**  
 Identify types of control methods and time-term required:  
 Only specific herbicides delivered at certain times have an impact. Hand pulling must involve removal of rhizomes to prevent re-sprouting. Seed bank not long lived.  
 Sources of information:  
 Garske & Schimpf, 2005; Fellows, 2006.

Total Possible 

10
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 Section Four Total 

6
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**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

---

Total for 4 sections Possible	80
Total for 4 sections	51

**C. STATUS OF CULTIVARS AND HYBRIDS:**

At the present time (May 2008) there is no protocol or criteria for assessing the invasiveness of cultivars independent of the species to which they belong. Such a protocol is needed, and individuals with the appropriate expertise should address this issue in the future. Such a protocol will likely require data on cultivar fertility and identification in both experimental and natural settings.

Hybrids (crosses between different parent species) should be assessed individually and separately from the parent species wherever taxonomically possible, since their invasiveness may differ from that of the parent species. An exception should be made if the taxonomy of the species and hybrids are uncertain, and species and hybrids can not be clearly distinguished in the field. In such cases it is not feasible to distinguish species and hybrids, and they can only be assessed as a single unit.

Some cultivars of the species known to be available: 'variegata'

**References for species assessment:**

- Brooklyn Botanic Garden. 2008. AILANTHUS database. [Accessed on March 1, 2008.]
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**NEW YORK**  
**NON-NATIVE PLANT INVASIVENESS RANKING FORM**  
**FOR NATURAL / MINIMALLY MANAGED AREAS**

---

Voss, E.G. 1985. Michigan flora. Part II. Dicotyledons. Cranbrook Institute of Science and University of Michigan Herbarium. Ann Arbor, Michigan. 1212 pp.

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