PRISM: Long Island Invasive Species Management Area

Scientific name: Epilobium hirsutum L.  
Common names: Great Hairy willow-herb  
Native Distribution: Eurasia, Africa 
Date Assessed: October 15, 2008  
PRISM Assessors: Steve Glenn, Gerry Moore 
PRISM Reviewers: LIISMA SRC  
Date Approved: 10-22-2008 
Form version date: 25 August 2008

New York Relative Maximum score: 62.50  
New York State Invasive Rank: Low 

SUMMARY OF PRISM RANKING RESULTS:

Distribution: Restricted

Estimated number of infested sites: 3

PRISM Invasiveness Rank: Low

A. DISTRIBUTION AND ABUNDANCE (KNOWN/POTENTIAL):

1. What is the species distribution and abundance in the PRISM?

A. Not present  
B. Occurs in three or fewer natural areas (locations that are at least ¼ mile apart) with no infested area* >1 acre or containing >100 individuals  
C. Present in 4–10 natural areas, or with one occupied location >1 acre or containing >100 individuals  
D. Present in >10 minimally managed areas  
U. Unknown

Answer: Restricted

Describe distribution: 
Two historic sites from Richmond Co. (only one since 1980); eight historical sites on Long Island (only 2 since 1980)  
Sources of information: Brooklyn Botanic Garden, 2008.

2. What is the likelihood the species will occur (if not yet present) or expand its distribution and abundance (if already present) in the PRISM?

Answer: Moderately likely

Documentation (e.g.: history of establishment in PRISM, suitability of habitats and climate, distribution models, literature, expert opinions):
- Growth and germination inhibited in low pH soil (<5.5) environments (Shamsi & Whitehead, 1974).
- Another study stated that no plants were found on soils with a pH of less than 6.4 (Etherington, 1984).
- The Soil Surveys for the LIISMA counties show only four out of 44 (9.1%) soil series with a pH greater than 6.0. Nonetheless, there is extensive marsh habitat for the species. Has been noted to become more common a weed in cultivated situations in last 15 years (Andy Senesac, personal observations).

Sources of information:
- Shamsi & Whitehead, 1974; Warner, 1975; Etherington, 1984; Wulforst, 1987; Andy Senesac, personal observations.

B. INVASIVENESS RANK IN THE PRISM:

Is the species distribution Widespread or Common?
- Yes: Go to column A in table below.
- No: What is the likelihood of species occurrence or expansion? Answer: Moderately likely

Sources of information:
- Very Likely: Use column A below
- Moderately likely: Use column B below
- Unlikely: Use column C below
- Zero likelihood Invasive potential Insignificant
- Unknown Invasive potential Unknown
- Not assessed Invasive potential not assessed

Assign a PRISM invasiveness rank to the species based on its New York Relative Maximum Score, using the designated column in the table below.

<table>
<thead>
<tr>
<th>New York Relative Maximum Score</th>
<th>New York Invasiveness Rank</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 80.00</td>
<td>Very High</td>
<td>VH</td>
<td>H</td>
<td>M</td>
</tr>
<tr>
<td>70.00-80.00</td>
<td>High</td>
<td>H</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>50.00-69.99</td>
<td>Moderate</td>
<td>M</td>
<td>L</td>
<td>Ins</td>
</tr>
<tr>
<td>40.00-49.99</td>
<td>Low</td>
<td>L</td>
<td>Ins</td>
<td>Ins</td>
</tr>
<tr>
<td>&lt;40.00</td>
<td>Insignificant</td>
<td>Ins</td>
<td>Ins</td>
<td>Ins</td>
</tr>
</tbody>
</table>

References for species assessment:
PRISM
(New York Partnerships for Regional Invasive Species Management)
NON-NATIVE PLANT INVASIVENESS RANKING FORM


Citation: This ranking form for regions within NYS may be cited as: Jordan, M.J., G. Moore and T.W. Weldy. 2008. Invasiveness ranking system for non-native plants of New York. Unpublished. The Nature Conservancy, Cold Spring Harbor, NY; Brooklyn Botanic Garden, Brooklyn, NY; The Nature Conservancy, Albany, NY. Note that the order of authorship is alphabetical; all three authors contributed substantially to the development of this protocol.

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