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

Scientific name: Trapa Natans L. USDA Plants Code: TRNA
Common names: water chestnut, water caltrop
Native Distribution: Central and eastern Europe, central Asia, tropical Africa and Asia
Date Assessed: April 9, 2008
PRISM Assessors: Steven Clemants
PRISM Reviewers: LIISMA SRC
Date Approved: June 16, 2008 Form version date: 13 April 2009
New York Relative Maximum score: 82.00 Date NY assessment approved: June 16, 2008
New York State Invasive Rank: Very High

SUMMARY OF PRISM RANKING RESULTS:

Distribution: Restricted

Estimated number of infested sites: 3

PRISM Invasiveness Rank*: Very High

A. DISTRIBUTION AND ABUNDANCE (KNOWN/POTENTIAL):

1. What is the species distribution and abundance in the PRISM?
   A. Not present 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 Restricted
   C. Present in 4–10 natural areas, or with one occupied location >1 acre or containing >100 individuals Common
   D. Present in >10 minimally managed areas Widespread
   U. Unknown Unknown
   Answer: Restricted

Describe distribution:
Known from only three sites: Swan Pond, Mill Pond in Oyster Bay, Mill Pond in Wantagh.
Sources of information:
Brooklyn Botanic Garden 2008; Kishbaugh NYDEC pers. com; K. Schwager WIMS database; IPCNYS 2008

*Not Assessable: not persistent in the PRISM, or not found outside of cultivation.

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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: Very likely

Documentation (e.g.: history of establishment in PRISM, suitability of habitats and climate, distribution models, literature, expert opinions):
Relatively poor disperser, needs nutrient rich waters, has been in Hudson river for 75 years. But recently increased from one to three locations in Suffolk and Nassau Co.

Sources of information:

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: Very likely

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>

Column used: A (Insert PRISM Invasiveness Rank on page 1)

References for species assessment:
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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