

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

PRISM: Long Island Invasive Species Management Area

Scientific name: Hydrocharis morsus-ranae USDA Plants Code: HYMO6
 Common names: Frogbit
 Native Distribution: Eurasia
 Date Assessed: 16 May 2008
 PRISM Assessors: Steve Glenn
 PRISM Reviewers: LIISMA SRC
 Date Approved: June 16, 2008 Form version date: 13 April 2009
 New York Relative Maximum score: 85.57 Date NY assessment approved: June 16, 2008
 New York State Invasive Rank: Very High

SUMMARY OF PRISM RANKING RESULTS:

Distribution: Common

Estimated number of infested sites: 1

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: Common

Describe distribution:
 Present in the Peconic River, Long Island, and known from six upstate NY Counties and Canada. In native range it occurs South to 40 degrees latitude. In Peconic River, not restricted to one part. Because species occupies more than 1 acre and has more than 100 individuals, the species is considered common.
 Sources of information:
 Brooklyn Botanic Garden, 2008.

[§]Not Assessable: not persistent in the PRISM, or not found outside of cultivation.

*Definition of “infested area” is the “...actual or percentage of land occupied by [canopy cover of] weed plants” NAWMA (North American Weed Management Association) 2002. North American Invasive Plant Mapping Standards (see <http://www.nawma.org/>).

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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: Moderately likely

Documentation (e.g.: history of establishment in PRISM, suitability of habitats and climate, distribution models, literature, expert opinions):

Suitable habitat is present; climate seems to be appropriate for establishment.

Sources of information:

Brooklyn Botanic Garden, 2008.

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: 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.

| New York Relative Maximum Score | New York Invasiveness Rank | A | B | C |
|---------------------------------|----------------------------|-----|-----|-----|
| > 80.00 | Very High | VH | H | M |
| 70.00–80.00 | High | H | M | L |
| 50.00–69.99 | Moderate | M | L | Ins |
| 40.00–49.99 | Low | L | Ins | Ins |
| <40.00 | Insignificant | Ins | Ins | Ins |

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

References for species assessment:

Brooklyn Botanic Garden. 2008. AILANTHUS database. [Accessed on 6 June 2008].

Catling, P. M. et al. 2003. The biology of Canadian weeds. 124. *Hydrocharis morsus-ranae* L. *Canad. J. Pl. Sci.* 83: 1001-1016.

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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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