

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

PRISM: Long Island Invasive Species Management Area

Scientific name: Ludwigia peploides (Kunth) Raven ssp. glabrescens (Kuntze) Raven
 USDA Plants Code: LUPES

Common names: floating water-primrose

Native Distribution: South America and southeastern United States

Date Assessed: 24 June 2008

PRISM Assessors: Gerry Moore

PRISM Reviewers: LIISMA SRC

Date Approved: 9 July 2008 Form version date: 13 April 2009

New York Relative Maximum score: 89.36 Date NY assessment approved: 9 July 2008

New York State Invasive Rank: Very High

SUMMARY OF PRISM RANKING RESULTS:

Distribution: Common

Estimated number of infested sites: <5

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:
 Sites identified in Kings and Suffolk County. This species covered a large area of an impounded section of the Peconic River (several acres and thousands of plants) in 2004-2005 which we consider common (see C above). Removal efforts in 2006-2008 reduced the species to just a few widely scattered plants. Removal efforts continue as of 2009.
 Sources of information:
 Weldy and Werier, 2005; Brooklyn Botanic Garden, 2008; conic Estuary Program, 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:

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

Species is present in PRISM and based on its spread in other areas with similar climates (e.g., Europe) it seem reasonable that it could further spread in the LIISMA PRISM.

Sources of information:

Dandelot et al., 2005; Brooklyn Botanic Garden, 2008; Peconic Estuary Program, 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].

Dandelot, S., R. Verlaque, A. Dutartre, A. Cazaubon. 2005. Ecological, dynamic, and taxonomic problems due to Ludwigia (Onagraceae) in France. *Hydrobiologia* 551(1):131-136.

Peconic Estuary Program. 2008. Water primrose or floating primrose willow, *Ludwigia peploides*. <<http://www.peconicestuary.org/InvLudwigia.html>> [Accessed on 24 June 2008.].

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Weldy, T. and D. Werier. 2005. New York Flora Atlas. [S.M. Landry, K.N. Campbell, and L.D. Mabe (original application development), Florida Center for Community Design and Research. University of South Florida]. New York Flora Association, Albany, New York. [Accessed on].

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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