

PRISM

New York Partnerships for Regional Invasive Species Management.

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

PRISM: Adirondack Park Invasive Program

Scientific name: Silphium perfoliatum USDA Plants Code: SIPEP
Common names: Cup-plant
Native Distribution: Central United States and Canada
Date Assessed: December 10 2015
PRISM Assessors: Zachary Simek
PRISM Reviewers: Brendan Quirion, Steve Young, Chris Zimmerman
Date Approved: 4/7/2016 Form version date: 6 September 2012

New York Relative Maximum score: 77.78 Date NY assessment approved: 7/10/2009

New York State Invasive Rank: High
(for natural areas)

SUMMARY OF PRISM RANKING RESULTS:

Distribution: Common

Estimated number of infested sites: 4+

PRISM Invasiveness Rank[§]: 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:

APIPP has not conducted extensive surveys for cup-plant, but field observations have identified linear distributions along the Ausable River between Upper Jay and Ausable Forks. Additional infestations have been detected in upland areas near Keene Valley. The iMap invasives database suggests there is one additional infestation located near the Hudson River in Warren County.

Sources of information:

Field observations by APIPP staff; iMap, 2015

[§]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):

Cup plant is known to occupy moist riparian corridors, low woodland edges, fence rows, right-of-way drainage ditches, lacustrine areas, wetlands, and yards. Its primary spread mechanism is seed and long distance dispersal is possible when seed movement is aided by flowing water. Given the location of existing infestations along the Ausable River, it is very likely that cup plant will continue to spread downstream and become established along the riparian corridor.

Sources of information:

"cup plant," n.d.; Field observations by APIPP staff; "Silphium perfoliatum," n.d.

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:

Cup Plant (*Silphium perfoliatum*). (n.d.). Retrieved December 10, 2015, from <http://www.illinoiswildflowers.info/prairie/plantx/cupplantx.htm>

Field observations by APIPP staff

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Silphium perfoliatum. (n.d.). Retrieved December 10, 2015, from
https://www.eddmaps.org/ipane/ipanespecies/herbs/Silphium_perfoliatum.htm

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.

Acknowledgments: Valuable contributions by members of the Long Island Invasive Species Management Area's Scientific Review Committee were incorporated in revisions of this form.