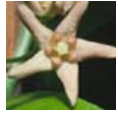




Invasive Plant Atlas of New England

Catalog of Species Search Results



[:: Catalog of Species Search](#)



Myriophyllum aquaticum

(Parrotfeather
Brazilian watermilfoil)

[Common Name\(s\)](#) | [Full Scientific Name](#) | [Family Name Common](#) | [Family Scientific Name](#) | [Images](#) | [Synonyms](#) | [Description](#) | [Similar Species](#) | [Reproductive/Dispersal Mechanisms](#) | [Distribution](#) | [History of Introduction in New England](#) | [Habitats in New England](#) | [Threats](#) | [Early Warning Notes](#) | [Management Links](#) | [Documentation Needs](#) | [Additional Information](#) | [References](#) | [Data Retrieval](#) | [Maps of New England Plant Distribution](#)

COMMON NAME

Parrotfeather
Brazilian watermilfoil

FULL SCIENTIFIC NAME

Myriophyllum aquaticum (Vell.) Verdc.

FAMILY NAME COMMON

Watermilfoil family

FAMILY SCIENTIFIC NAME

Haloragaceae

IMAGES



Close-up of
plant



Habit



Emergent stems



Incursion

NOMENCLATURE/SYNONYMS

Synonyms: *Enydria aquatica* Vell.
Myriophyllum brasiliense Camb.
Myriophyllum proserpinacoides Gillies ex Hook. & Arn.

DESCRIPTION

Botanical Glossary

Myriophyllum aquaticum is an herbaceous aquatic plant that can grow 2-5 m (6.5-16 ft.) in length. The bluish-green stems are stout. The numerous leaves of this plant are pinnately dissected and arranged in whorls of 4 to 6 around the stem. They have both emergent and submerged leaves. The emergent leaves can be up to 30 cm (1 ft.) out of the water. They measure 2-5 cm (0.75-2 in.) long and have 6-18 divisions per leaf. The submerged leaves are 1.5-3.5 cm (0.5-1.25 in.) long and have 20-30 divisions per leaf.

The flowers are located axillary to slightly modified leaves on the emergent inflorescences. They are positioned between two bracts and measure 1.5 mm (0.06 in.) long. The flowers do not have petals, but have white sepals. The plants are dioecious, and only female plants have been reported in the United States. The fruits of this plant are 1.5-2 mm (0.07 in.) long.

Page References Crow & Hellquist 194, Gleason & Cronquist 308, Holmgren 289, Magee & Ahles 778. See reference section below for full citations.

SIMILAR SPECIES

Myriophyllum species

REPRODUCTIVE/DISPERSAL MECHANISMS

Since all the known *Myriophyllum aquaticum* plants in the United States are female, the only means of reproduction for this plant in the U.S. is by fragmentation. Plant fragments can move downstream with the current, or attach to boats and animals.

DISTRIBUTION

Myriophyllum aquaticum is native to South America along the Amazon River. It has been introduced into South Africa, New Zealand, Australia, Japan and parts of Europe. In the United States it has been reported in the west from Washington, Oregon, California, Hawaii, Idaho, Montana, Arizona and New Mexico. It has been reported from Massachusetts to Florida and west to Kansas, Oklahoma and Texas. In New England it has been reported from

Connecticut and Massachusetts.

HISTORY OF INTRODUCTION IN NEW ENGLAND

Myriophyllum aquaticum was most likely introduced in the late 1800's for aquaria and water gardening. The first known specimen of this plant was collected in 1890 from New Jersey. It also became established in the early 1900's around Washington, D.C. because of water gardening.

This plant reported in 1929 from southeastern New York (Long Island). In 1946 the first report in New England came from West Lake in Guilford, Connecticut. In Massachusetts it has been reported from Cape Cod.

HABITATS IN NEW ENGLAND

Aquatic
Lake or Pond
River or Stream
Yard or Garden

Myriophyllum aquaticum is found in lakes, ponds and quiet streams. The emergent form of this plant can survive on mudflats, indicating that it can tolerate water fluctuations. *Myriophyllum aquaticum* appears to thrive in high nutrient situations.

THREATS

Myriophyllum aquaticum has not yet been reported from the northern parts of New England, and its potential range is yet to be determined. In more southern regions, this plant forms monocultures that clog waterways, impeding recreational and commercial boating activities. These monocultures also disrupt the growth of native aquatic plants and provide breeding areas for mosquitoes. *Myriophyllum aquaticum* is a common water garden plant, which has the potential to escape into local waterways. The control of this plant is expensive, with costs in the order of tens of thousands of dollars in Washington state alone.

MANAGEMENT LINKS

[Virginia Native Plant Society](#)

[Washington State Department of Ecology](#)

DOCUMENTATION NEEDS

Documentation required: Herbarium specimen or mounted snippet of the branch.

Best time for documentation: Summer, fall.

ADDITIONAL INFORMATION

[Integrated Taxonomic Information System](#)

Taxonomic information

[PLANTS Database](#)

General information and map

[Virginia Native Plant Society](#)

Fact sheet with description and control information

[Center for Aquatic and Invasive Plants, University of Florida](#)

General information and photographs

[North Carolina State University](#)

Fact sheet with description and images

[King County Noxious Weeds](#)

Description and illustrations

[Washington State Department of Ecology](#)

General information including control

[Pacific Island Ecosystems at Risk](#)

Description and control information

REFERENCES

Bossard, C.C., J.M. Randall, M.C. Hoshovsky, M.C. 2000. Invasive plants of California's wildlands. University of California Press, Berkeley, California.

Chambers, P.A., J.W. Barko, C.S. Smith. 1993. Evaluation of invasions and declines of submersed aquatic macrophytes. *Journal of Aquatic Plant Management* 31: 218-220.

Cilliers, C.J. 1999. *Lysathia* n. sp (Coleoptera: Chrysomelidae), a host-specific beetle for the control of the aquatic weed *Myriophyllum aquaticum* (Haloragaceae) in South Africa. *Hydrobiologia* 415: 271-276.

Cilliers, C.J. 1999. Biological control of parrot's feather, *Myriophyllum aquaticum* (Vell.) Verdc. (Haloragaceae), in South Africa. *African Entomology* 113-118.

Cronk, Q.C.B. and J.L. Fuller. 1995. *Plant invaders*. Chapman & Hall, London.

Crow G.E. and C.B. Hellquist. 2000. *Aquatic and Wetland Plants of Northeastern North America*. Vol 1. University of Wisconsin Press, Madison.

Fischer, B. 1992. *The Grower's Weed Identification Handbook*. Publication 4030. University of California, Division of Agriculture and Natural Resources, California.

Gleason H.A. and A.C. Cronquist. 1991. *Manual of Vascular Plants of the Northeastern United States and Adjacent Canada*. 2nd ed.

New York Botanical Garden, Bronx, New York.

Holmgren N.H. 1998. Illustrated Companion to Gleason and Cronquist's Manual. New York Botanical Garden, Bronx, New York.

Les, D.H. and L.J. Mehrhoff. 1999. Introduction of nonindigenous aquatic vascular plants in southern New England: a historical perspective. *Biological Invasions* 1:281-300.

Magee D.W and H.E. Ahles. 1999. Flora of the Northeast. University of Massachusetts Press, Amherst.

USDA, NRCS. 2001. The PLANTS Database, Version 3.1. (<http://plants.usda.gov>). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

DATA RETRIEVAL

Select a task by clicking the radio button and then click "Submit Selection."

- Formatted display as table
- Export as comma-delimited text file

Submit Selection

MAPS OF PLANT DISTRIBUTION IN NEW ENGLAND

Select a study area by clicking the radio button and then click "Submit Selection."

- The whole New England area
- One or more states
- One or more counties
- One or more towns (county sub-divisions)

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