**Najas minor**
(Brittle water-nymph
eutrophic water-nymph)

**COMMON NAME**
Brittle water-nymph
eutrophic water-nymph

**FULL SCIENTIFIC NAME**
*Najas minor* All.

**FAMILY NAME COMMON**
Water-nymph family

**FAMILY SCIENTIFIC NAME**
Najadaceae

**IMAGES**
- Habit
- Close-up
- Clump of Plants
- Habit Close-up
NOMENCLATURE/SYNONYMS

Synonyms: Caulinia minor (All.) Coss. & Germ.

DESCRIPTION

Botanical Glossary

*Najas minor* is an herbaceous, aquatic annual with stems that can grow 10-20 cm (4-7.75 in.) long. These stems can be up to 1 mm (0.04 in.) thick. The oppositely arranged, dark green leaves become recurved as they age, and have serrulate margins with 7-15 small teeth on each side. The leaf base is truncate or lobed. The leaves measure 0.5-3.5 cm (0.2-1.25 in.) long and 0.1-1.2 mm (0.007-0.05 in.) wide.

*Najas minor* is a monoecious plant, with 1-2 flowers per axil. The male flowers are located distally and are 1.9-2.2 mm (0.08 in.) in size. The involucre has two lobes and the beaks are 0.4 to 2.1 mm (0.02-0.08 in.) in length. The female flowers are located in the distal to proximal axils and measure 2.2 mm (0.8 in.) in size. The spindle-shaped seeds of this plant are 1.5-3 mm (0.05-0.1 in.) in size and purple colored.

Page References Crow & Hellquist 68, Fernald 82, Flora of North America 79, Gleason & Cronquist 646, Holmgren 640, Magee & Ahles 121. See reference section below for full citations.

SIMILAR SPECIES

None

REPRODUCTIVE/DISPERSAL MECHANISMS

*Najas minor* can reproduce by means of seeds, but its primary method of dispersal is fragmentation. The seeds are dispersed by waterfowl that consume them.

DISTRIBUTION

*Najas minor* is native to North Africa, Japan, Turkey, India as well as central and eastern Europe. In the United States it is located from New Hampshire to Florida and west to Michigan and Oklahoma. In New England this plant has been reported from New Hampshire, Vermont, Massachusetts and Connecticut.

HISTORY OF INTRODUCTION IN NEW ENGLAND

*Najas minor* was first reported in the United States from the Hudson River in 1934. There was an intentional introduction into Cayuga Lake, New York in 1935. There is speculation as to why the
plant was introduced. One possibility is that it was somehow shipped here from Europe. Another possibility is that it was from aquaria being dumped into local waterbodies. Finally, it was encouraged as food for waterfowl in the 1930's, though the specific species is difficult to identify. The first report in New England was in 1974 from Berkshire County in western Massachusetts. The first collected specimen in Connecticut is from 1995. Both the Massachusetts and Connecticut localities were within 80 km of the first New York records.

HABITATS IN NEW ENGLAND

Aquatic
Lake or Pond
River or Stream
Yard or Garden

*Najas minor* is most often found in ponds, lakes, reservoirs, and slow-moving streams. The plant is typically found in water of depths of 0.6-4.5 m (2-15 ft.).

THREATS

*Najas minor* has the ability to form thick stands that can cover or clog a lake or stream. This plant is extremely brittle, which allows it to fragment and get moved via boats, waterfowl and river channels. Waterfowl readily eat and move this plant from waterbody to waterbody. In North Carolina, this plant is reported to out-compete other exotics such as *Hydrilla verticillata*. This plant has not yet caused major problems in New England, but needs to be watched, contained or removed if found.

MANAGEMENT LINKS

US Army Corps of Engineers
Information on mechanical control

DOCUMENTATION NEEDS

Documentation required: Herbarium specimen or mounted snippet of the plants.
Best time for documentation: Summer, fall.

ADDITIONAL INFORMATION

Ohio Department of Natural Resources

Integrated Taxonomic Information System
Taxonomic information

PLANTS Database
General information and map

*Flora of North America*

Extensive description

**GRIN database**

Taxonomic and distributional information

**North Carolina State University**

Fact sheet with description and images

**CT Invasive Plant Working Group**

Description and images

**Northern Prairie Wildlife Research Center**

General information and a map

**US Army Corps of Engineers**

General information and a map

**Virginia Tech Weed Identification Guide**

Images

**REFERENCES**


DATA RETRIEVAL

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

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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)

Submit Selection