

# IF YOU FIND A SUSPICIOUS AQUATIC PLANT

mark the location with a weighted buoy and carefully collect a specimen for confirmed identification. **Do not attempt to remove the entire plant!** Place the specimen in a container of water and store in a cool place. Contact Lake Stewards of Maine at **stewards@lakestewardsme.org** or **207-783-7733** or for further instruction.

Additional information is available at

LakeStewardsOfMaine.org.



# Quick Key

to Ruling Out Maine's Most Unwanted Aquatic Invasive Plants

Brittle Naiad
Brazilian Waterweed
Curly Leaf Pondweed
European Frogbit
Eurasian Watermilfoil
Fanwort
Giant Salvinia
Hydrilla

Parrot Feather Starry Stonewort Swollen Bladderwort Variable Watermilfoil Water Chestnut Water Soldier Yellow Floating Heart

# STEP ONE: Select the category that best describes your plant.



# Plants with blade- or strapshaped leaves arranged on submersed stems

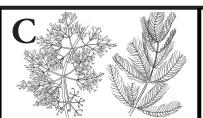
Five of the fifteen invasive aquatic plants are found in this category.





Plants with blade-shaped leaves in a basal rosette

One of the fifteen invasive aquatic plants are found in this category.



# Plants with finelydivided leaves arranged on submersed stems

Five of the fifteen invasive aquatic plants are found in this category.



Plants with primary leaves floating; leaves not ribbon-like

Four of the fifteen invasive aquatic plants are found in this category.





**Everything Else** 

If your plant does **not** fit categories A, B, C, or D, rule out all invaders listed above.

That WAS quick, wasn't it?

**STEP TWO:** If your plant fits into category A, B, C, or D, it may be an invasive aquatic plant. Continue on to the section that corresponds to your selected category.

# Plants with blade- or strap-shaped leaves arranged on submersed stems

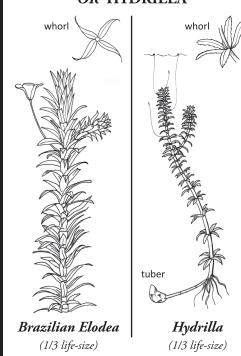
Read the numbered descriptions below, and follow additional guidance where indicated. If no descriptions match your plant, rule out the following four depicted invaders.



1) Lance- or blade-shaped leaves (1-3 cm long) arranged along stems in whorls of three or more leaves

Cut stem (with a sharp knife or scissors) in several locations and carefully count the number of leaves per whorl. If you find one or more whorls consisting of MORE THAN THREE LEAVES

# SUSPECT BRAZILIAN ELODEA OR HYDRILLA



If ALL whorls consist of three leaves

only, rule out these two invaders.

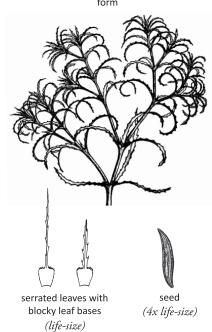


2) Slender, pointed, bladeshaped leaves (1-3 cm long) arranged variably along stem, often forming clusters at tip

Examine several leaves using magnification, or naked eye. If you see serrations along leaf edge

# SUSPECT BRITTLE NAIAD

branching



Brittle Naiad

(1/3 life-size)

If plant is not as described above, rule out this invader.

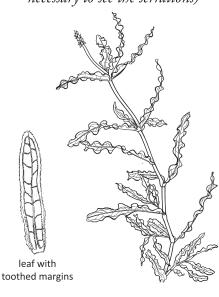


3) Strap-shaped leaves (2-8 cm long; 5-12 mm wide) are alternately arranged along the stem; plant has SUBMERSED LEAVES ONLY (no distinctly different floating leaves)

If leaves are distinctly wavy, like lasagna noodles, with fine serrations along the outer edges

### SUSPECT CURLY LEAF PONDWEED

(magnification may be necessary to see the serrations)



# Curly Leaf Pondweed

(1/6 life-size)

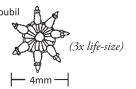
If plant is not as described above, rule out this invader.

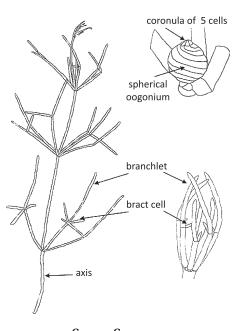


4) Slender branchlets, arranged in whorls along the stem, with conspicuous star-shaped bulbils

If star-shaped bulbils are present

# SUSPECT STARRY STONEWORT





# Starry Stonewort

(1/2 life-size)

If plant is not as described above, rule out this invader.

# Plants with blade-shaped leaves arranged in a basal rosette

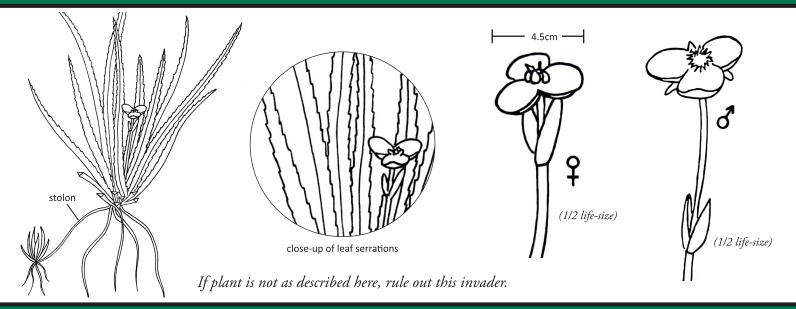
Read the description below, and follow additional guidance where indicated. If the description doesn't match your plant, rule out this depicted invader.

Plants with blade-shaped leaves arranged in a basal rosette

If leaves arranged in a basal rosette are stiff with conspicuous serrations resembling an aloe plant

**SUSPECT** WATER SOLDIER

(1/8 life-size)



# Plants with finely-divided leaves arranged on submersed stems

yellow

flower

floating

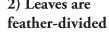
Read the numbered descriptions below, and follow additional guidance where indicated. If no descriptions match your plant, rule out the following depicted invaders.

1) Leaves are fork- or branch-divided













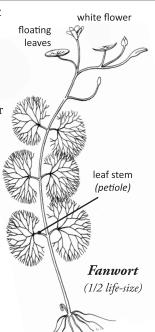
1a) Bladders absent

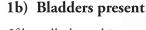
If broadly-branching leaves are oppositely arranged on the stem and attached to the main stem by a slender leaf stem (petiole)





If plant is not as described above, rule out this invader.





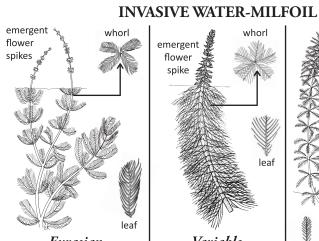
If broadly-branching leaves are alternately arranged on the stem with small, randomly scattered bladders and/or a yellow flower supported by a raft



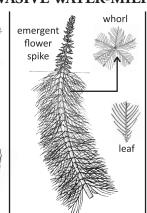
### **SUSPECT SWOLLEN BLADDERWORT**

Bladderworts may be difficult to identify without experience. Collect and submit a specimen as directed on the front side of this Quick Key.

2) Leaves are

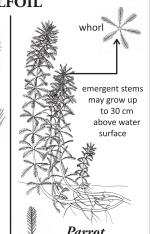


Eurasian Watermilfoil (1/3 life-size)



**SUSPECT** 

Variable Watermilfoil (1/3 life-size)



Feather

(1/3 life-size)

ALL milfoils are suspicious until proven otherwise. Collect and submit a specimen as directed on the front side of this Quick Key.

# Plants with primary leaves floating; leaves not ribbon-like

Read the numbered descriptions below, and follow additional guidance where indicated. If no descriptions match your plant, rule out the following three depicted invaders.

1) Triangular, distinctly serrated floating leaves attached to leaf stems; leaf stems form 'floating rosette' attached to sediments by the main stem



2) Floating leaves arranged in clumps are irregularly shaped, not rooted to the sediment, with a central groove and fine hairs



3) Floating leaves, attached to stems, are heartshaped or round and notched on one side to the stem



# 3a) Plant IS ROOTED to the sediments

If there is branching along the main stem (multiple side-stems connected to a single rooted stem) and/or if the plant has showy, fivepetaled yellow flowers

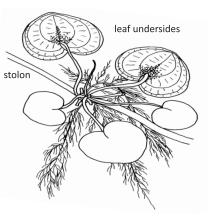


If leaf stems are joined in a clump, with some attached to other clumps by stem-like runners (stolons)

3b) Plant IS NOT ROOTED

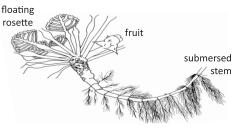
to the sediments

## **SUSPECT EUROPEAN FROGBIT**



European Frogbit (1/3 life-size)

If plant is not as described above, rule out this invader.

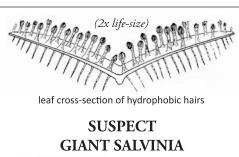


### **SUSPECT WATER CHESTNUT**



(1/6 life-size)

If plant is not as described above, rule out this invader.



# egg-shaped sporocarps

# Giant Salvinia (1/3 life-size)

If plant is not as described above, rule out this invader.

flower **SUSPECT** YELLOW FLOATING HEART fruit Yellow Floating Heart (1/10 life-size)

If no branching or flowers are observed, err on the side of caution and collect a specimen for identification.