

IF YOU FIND A SUSPICIOUS AQUATIC PLANT please 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 the Maine Volunteer Lake Monitoring Program at 207-783-7733 or vlmp@mainevlmp.org for further instruction. For more information please visit www.mainevlmp.org.



Quick Key

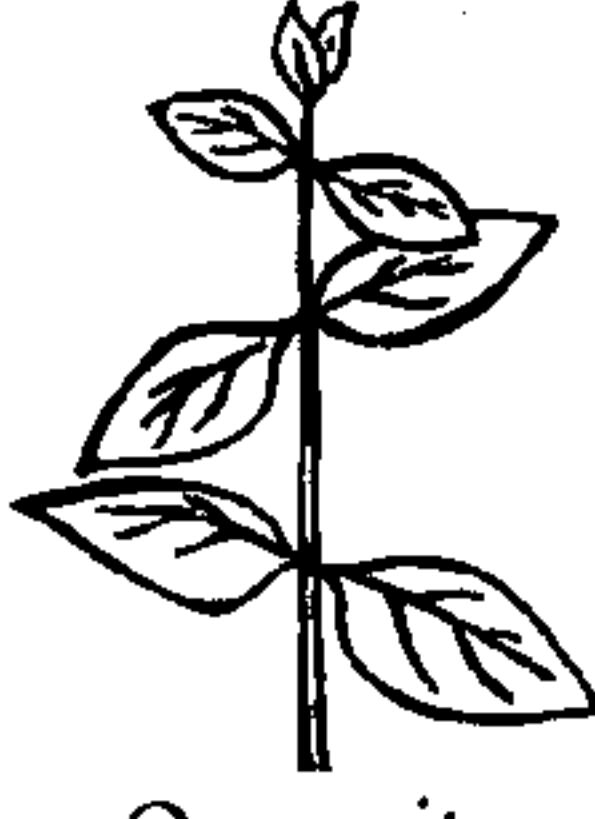
to Ruling Out Maine's Eleven Most Unwanted Invasive Aquatic Plants

- Brazilian Waterweed
- Curly Leaf Pondweed
- European Frogbit
- Eurasian Watermilfoil
- European Naiad
- Fanwort
- Hydrilla
- Parrot Feather
- Variable Watermilfoil
- Water Chestnut
- Yellow Floating Heart

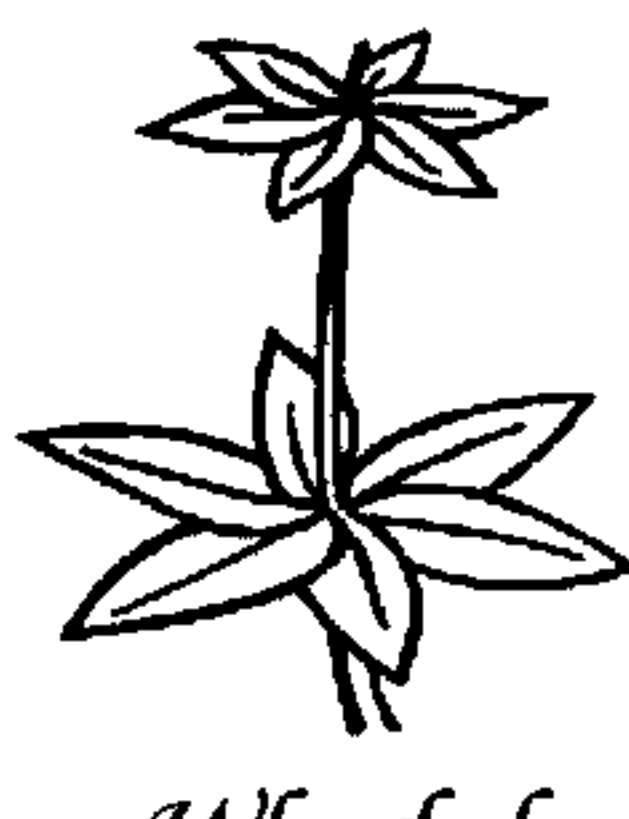
Leaf Arrangement Examples



Alternate

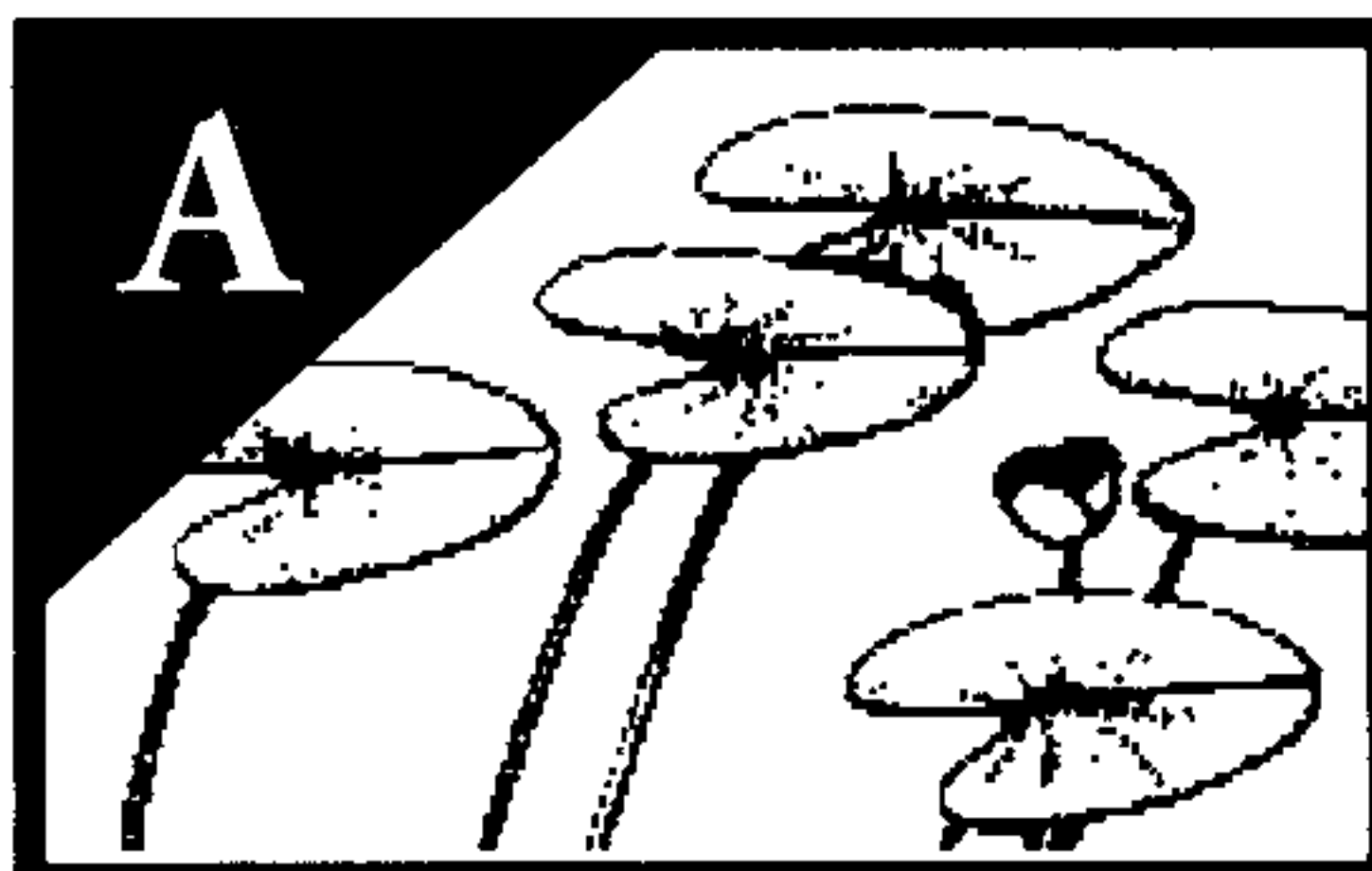


Opposite



Whorled

STEP ONE: Find the category that best describes your plant.



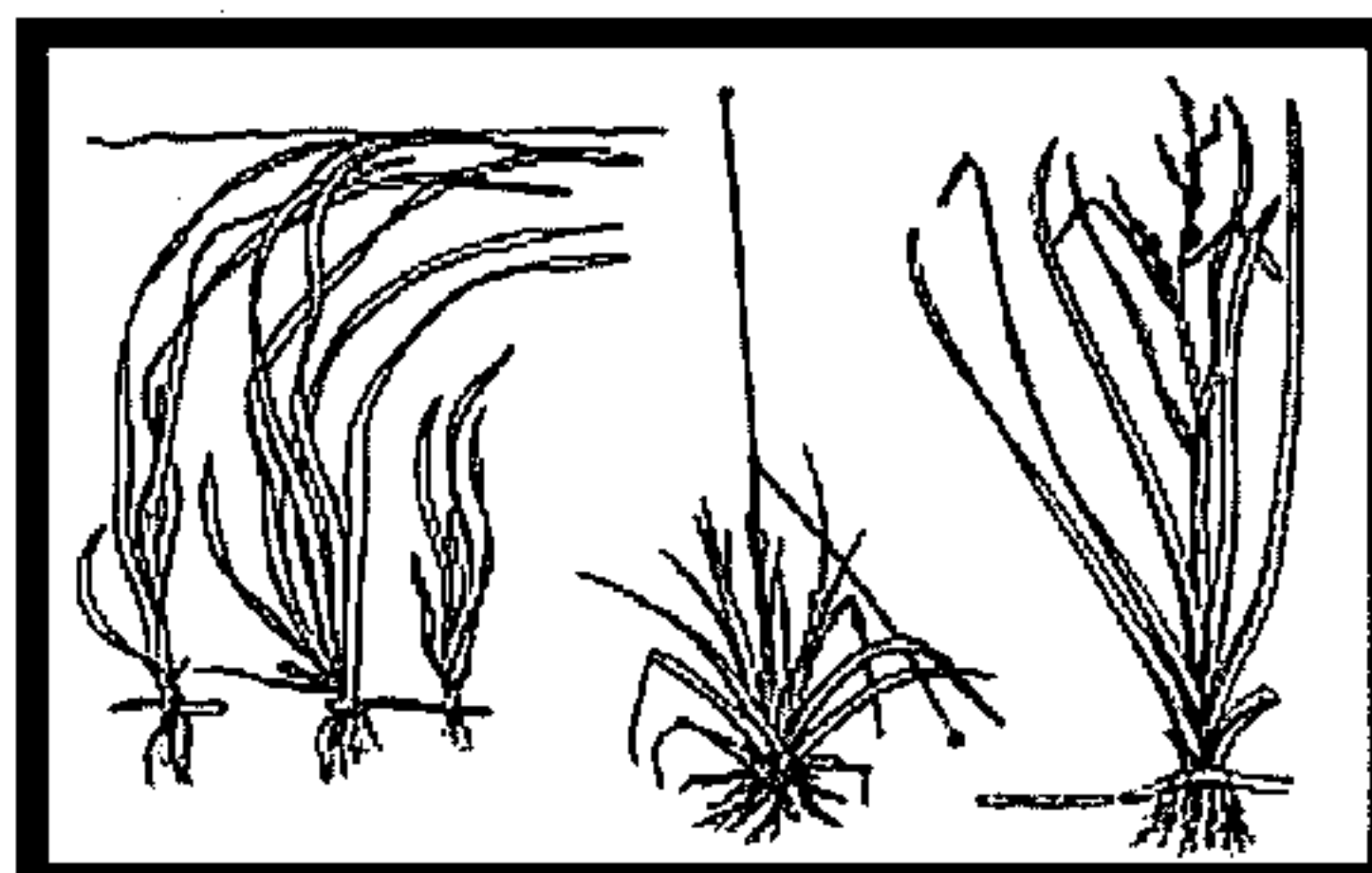
A
Plants with primary leaves floating; leaves not ribbon-like
Three of the eleven invasive aquatic plants are found in this category.



B
Plants with finely-divided leaves arranged on submersed stems
Four of the eleven invasive aquatic plants are found in this category.



C
Plants with blade- or strap-shaped leaves arranged on submersed stems
Four of the eleven invasive aquatic plants are found in this category.



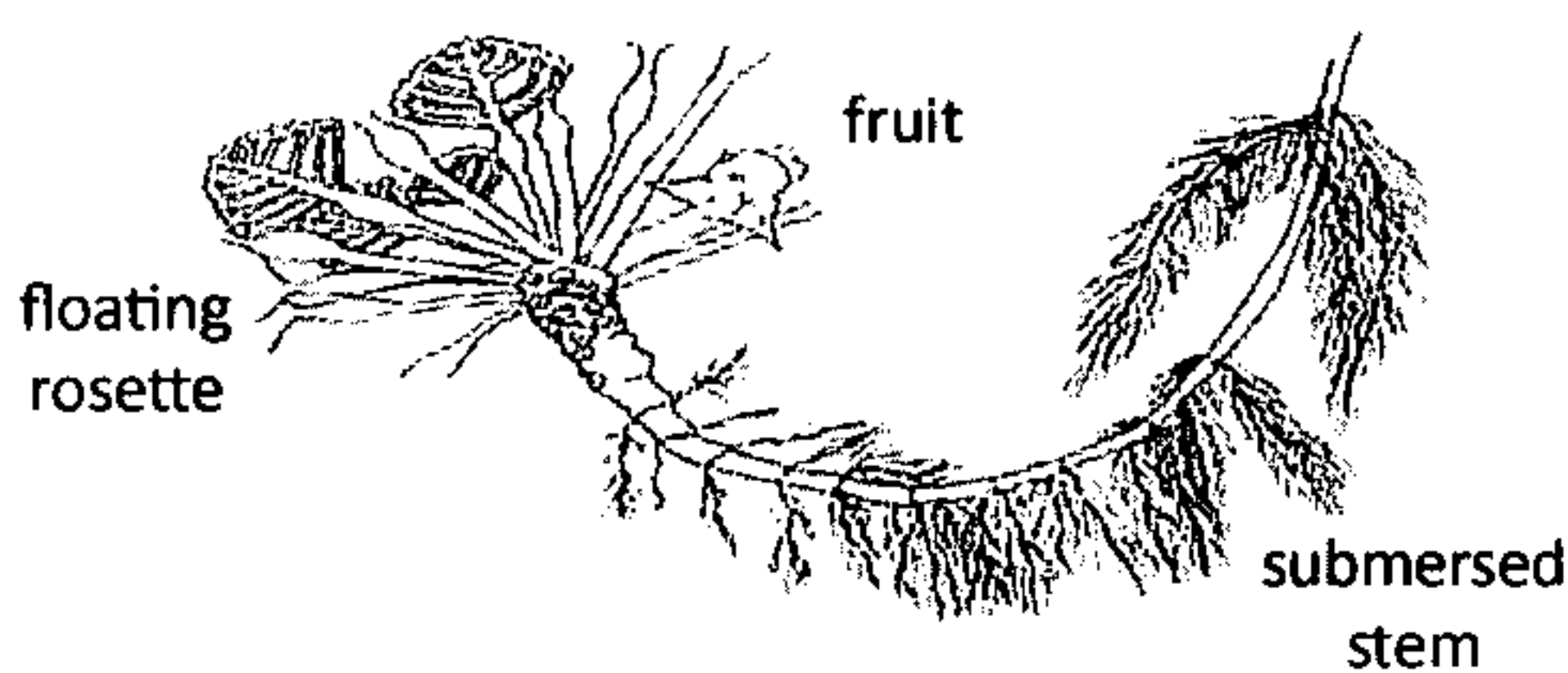
Everything Else
If your plant does **not** fit categories A, B, or C, rule out all eleven invaders (see list above).
That WAS quick, wasn't it?

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

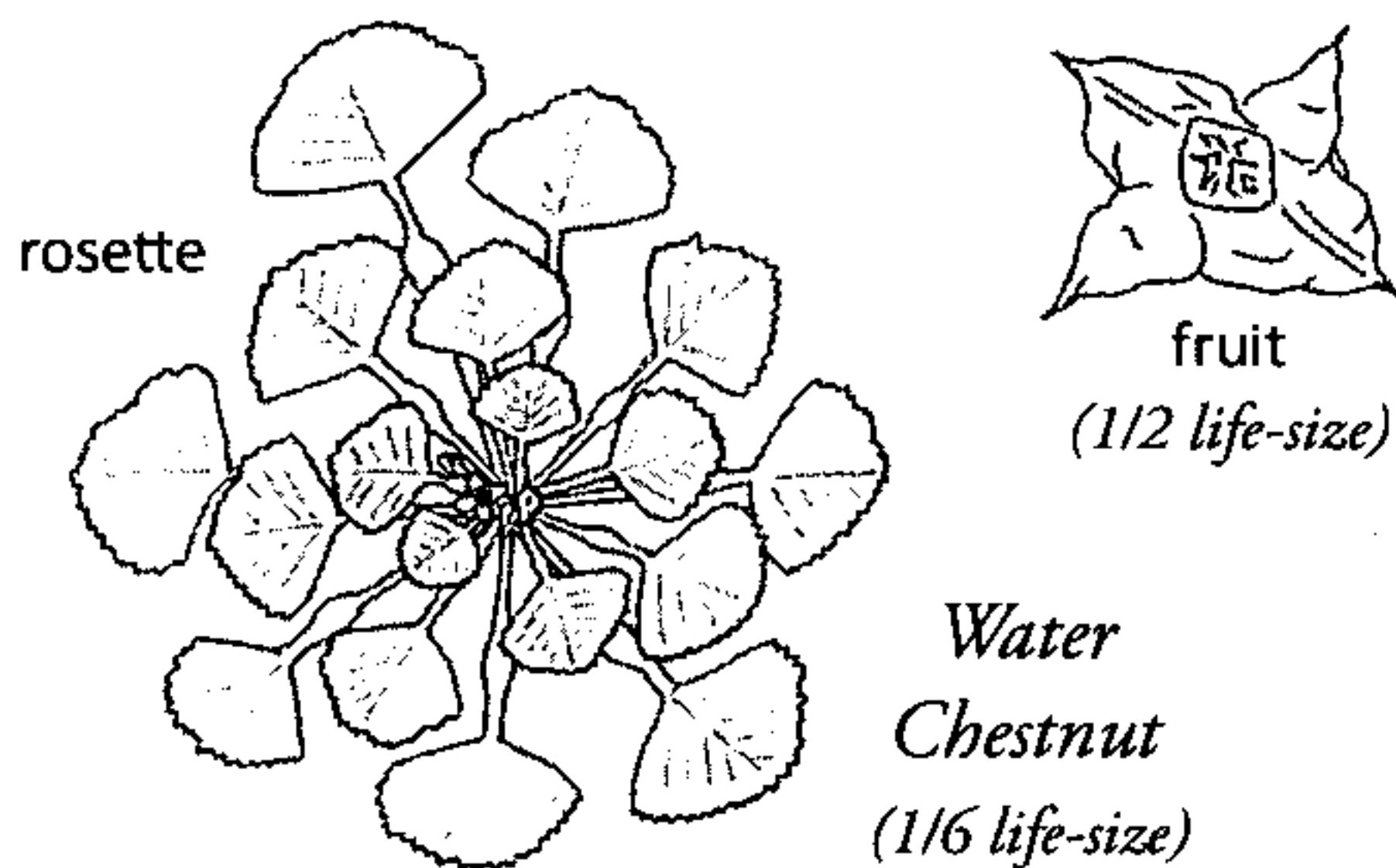
A. Plants with primary leaves floating; leaves not ribbon-like

Follow the key beneath the description that best fits the plant. If no descriptions fit, rule out invaders below.

1) Floating leaves attached to stems are triangular and strongly serrated; leaf stems form 'floating rosette' which is attached to sediments by the main stem



SUSPECT WATER CHESTNUT



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

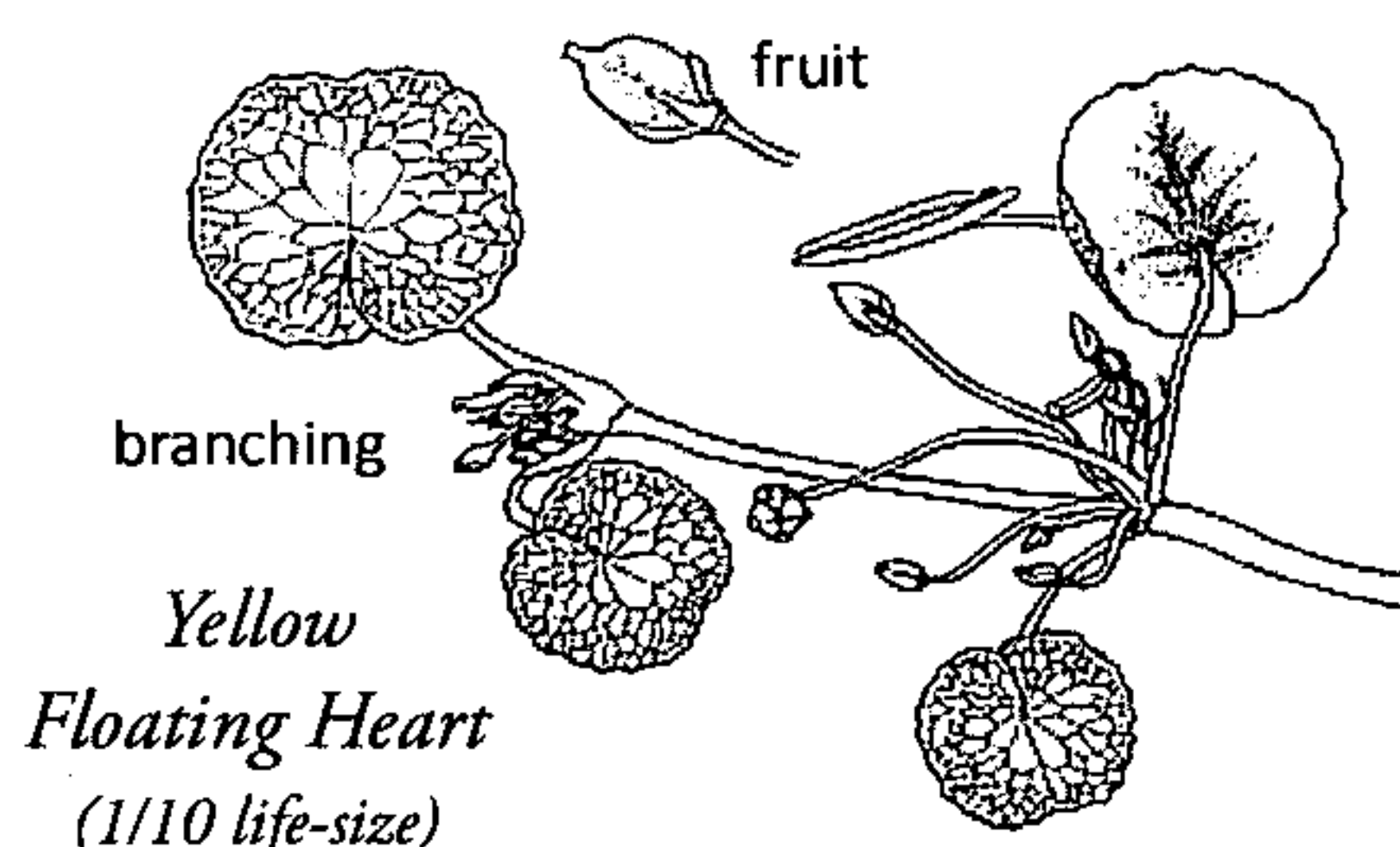
2) Floating leaves, attached to stems, are heart-shaped or round and notched on one side to the stem



2a) Plant IS ROOTED to the sediments

There is branching along the main stem (*multiple side-stems connected to a single rooted stem*) AND/OR if the plant has showy, five-petaled yellow flowers

SUSPECT YELLOW FLOATING HEART

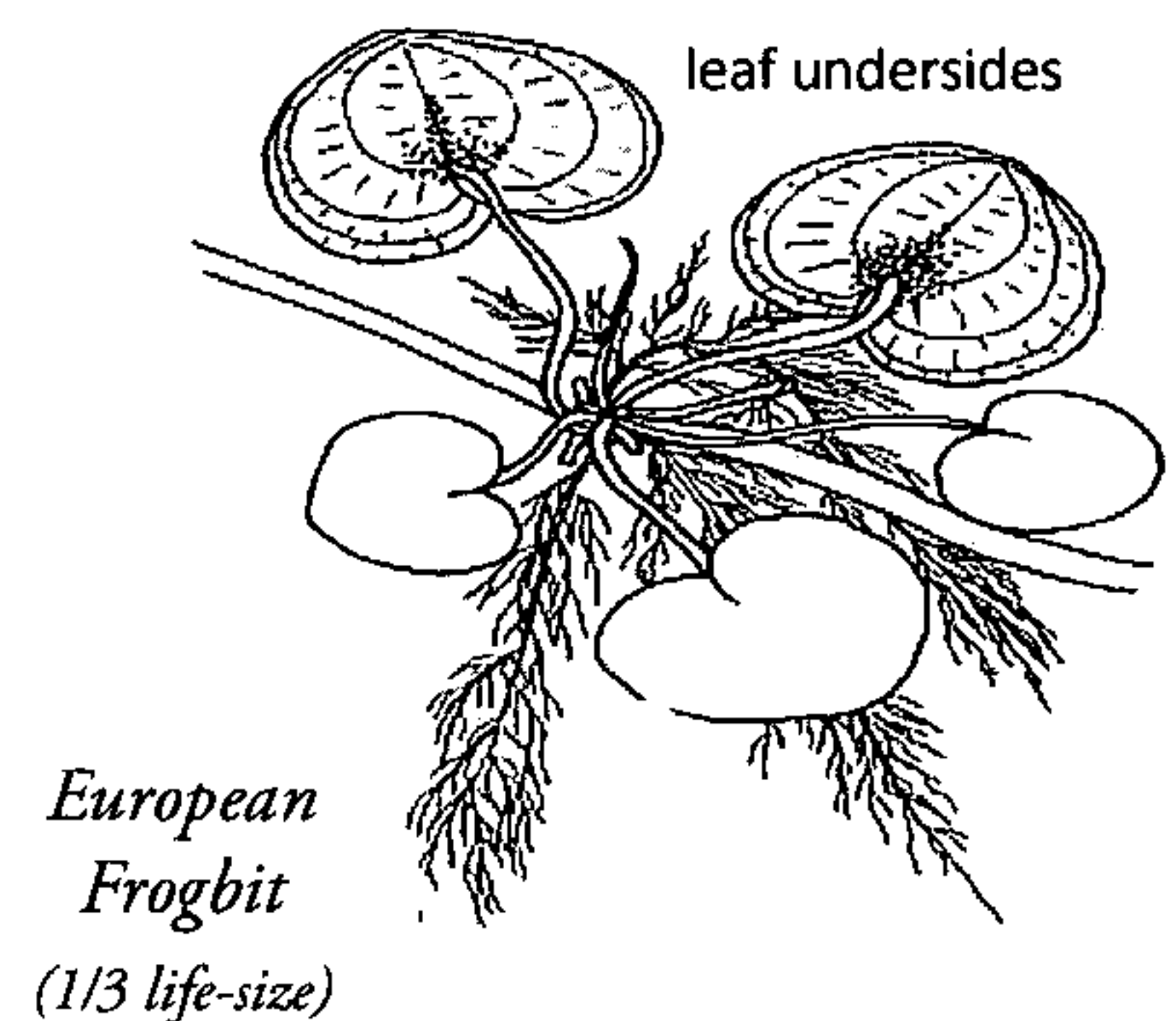


If no branching or flowers are observed, err on side of caution and collect specimen for identification.

2b) Plant IS NOT ROOTED to the sediments

Leaf stems are joined in a clump; clumps may be attached to other clumps by stem-like runners (*stolons*)

SUSPECT EUROPEAN FROGBIT

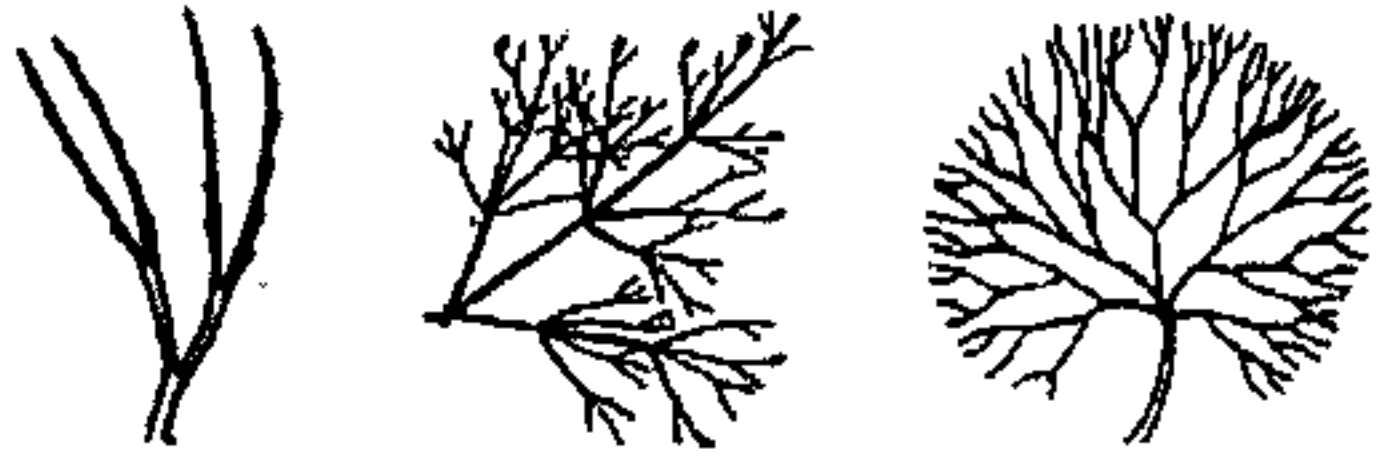


If plant is not as described above, rule out this invasive plant.

B. Plants with finely-divided leaves arranged on stems

Follow the key beneath the description that best fits the plant. If no descriptions fit, rule out invaders below.

1) Leaves are fork- or branch-divided

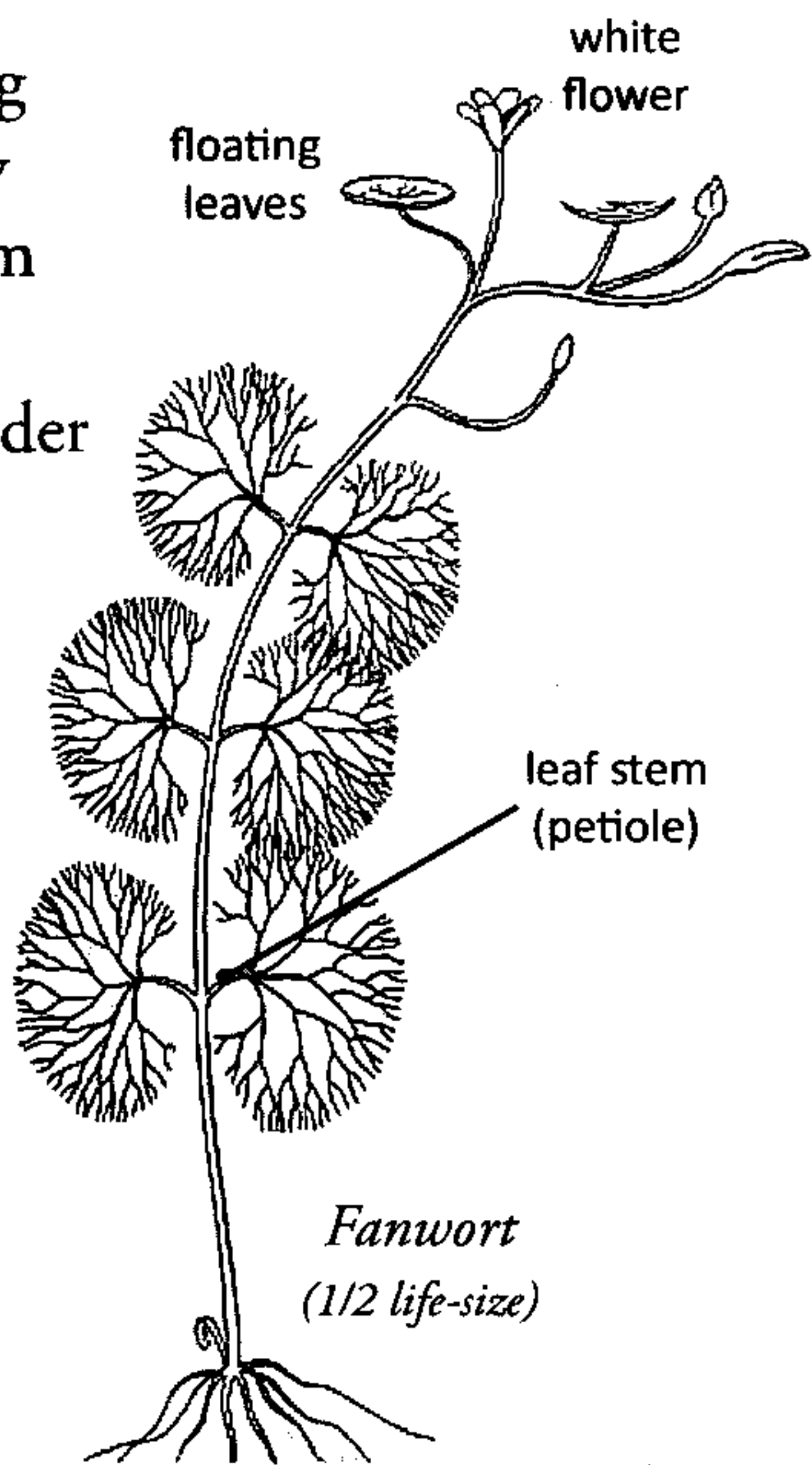
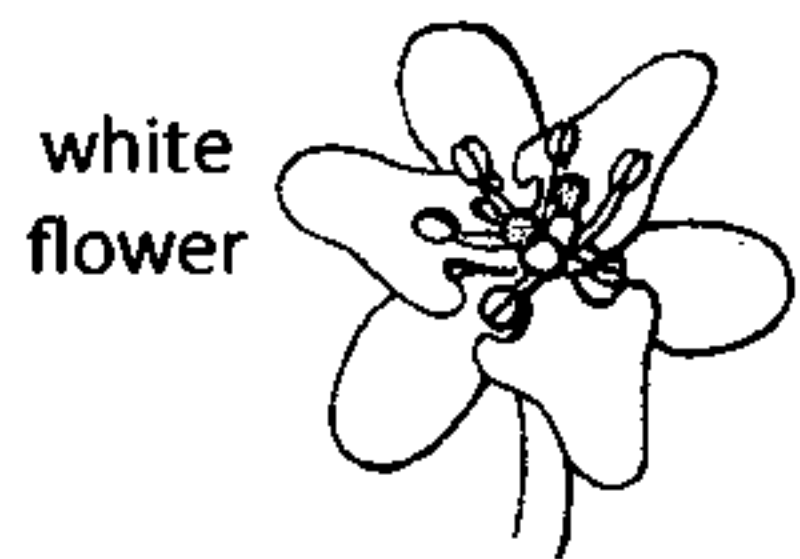


2) Leaves are feather-divided



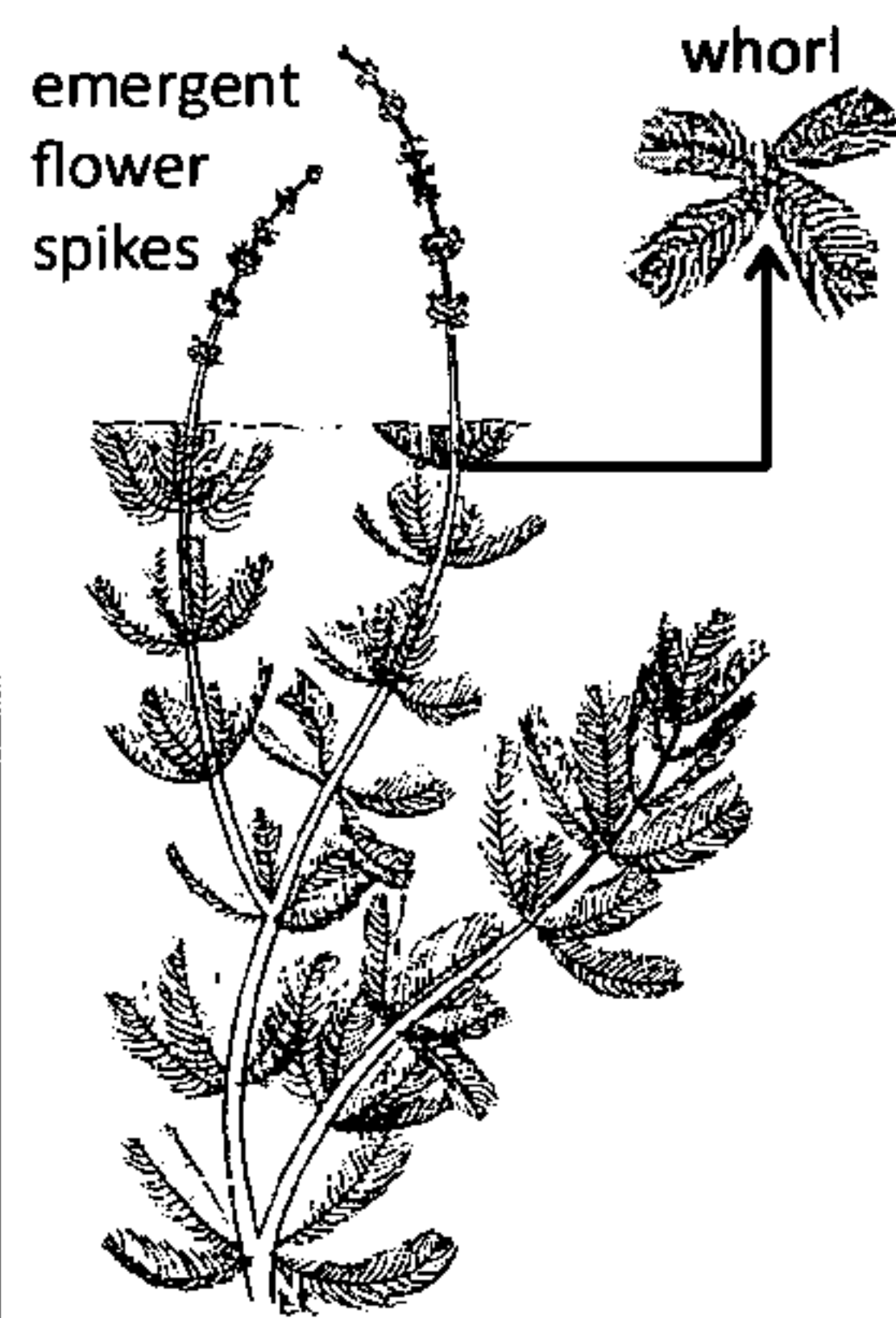
If broadly-branching leaves are oppositely arranged on the stem and attached to the main stem by a slender leaf stem (petiole)

SUSPECT FANWORT

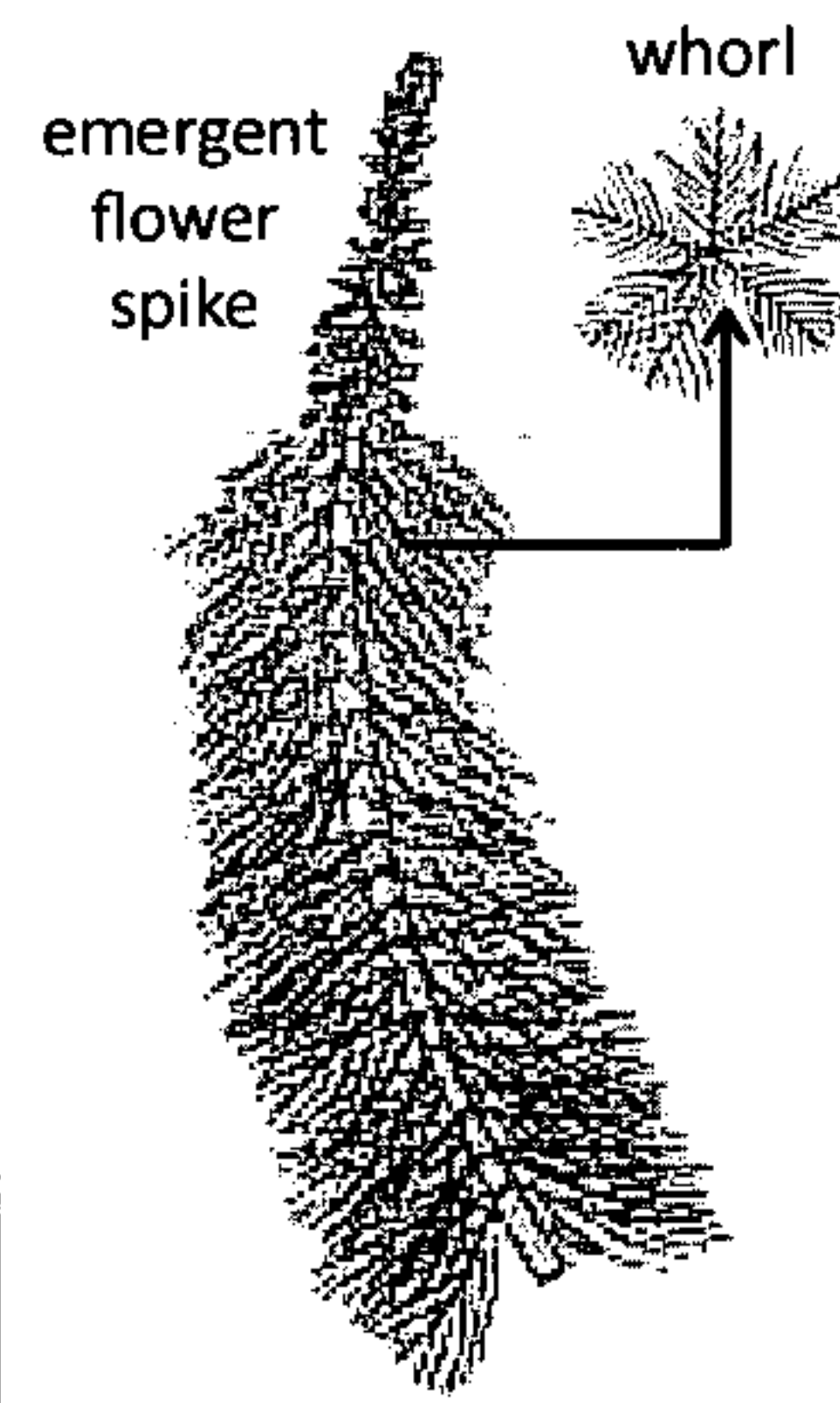


If plant is not as described above, rule this invader out.

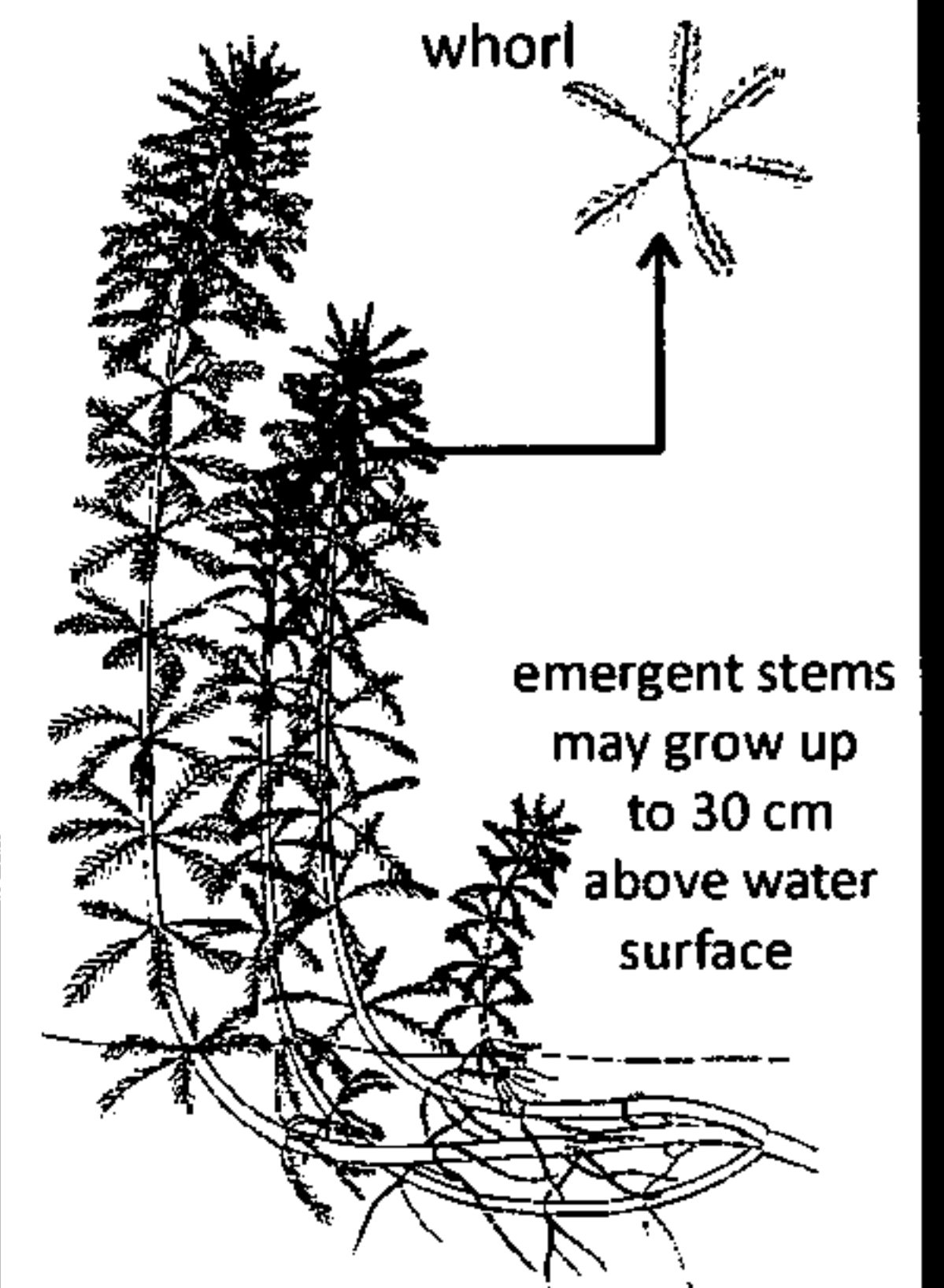
SUSPECT INVASIVE WATER-MILFOIL



Eurasian Watermilfoil
(1/3 life-size)



Variable Watermilfoil
(1/3 life-size)



Parrot Feather
(1/3 life-size)

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

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

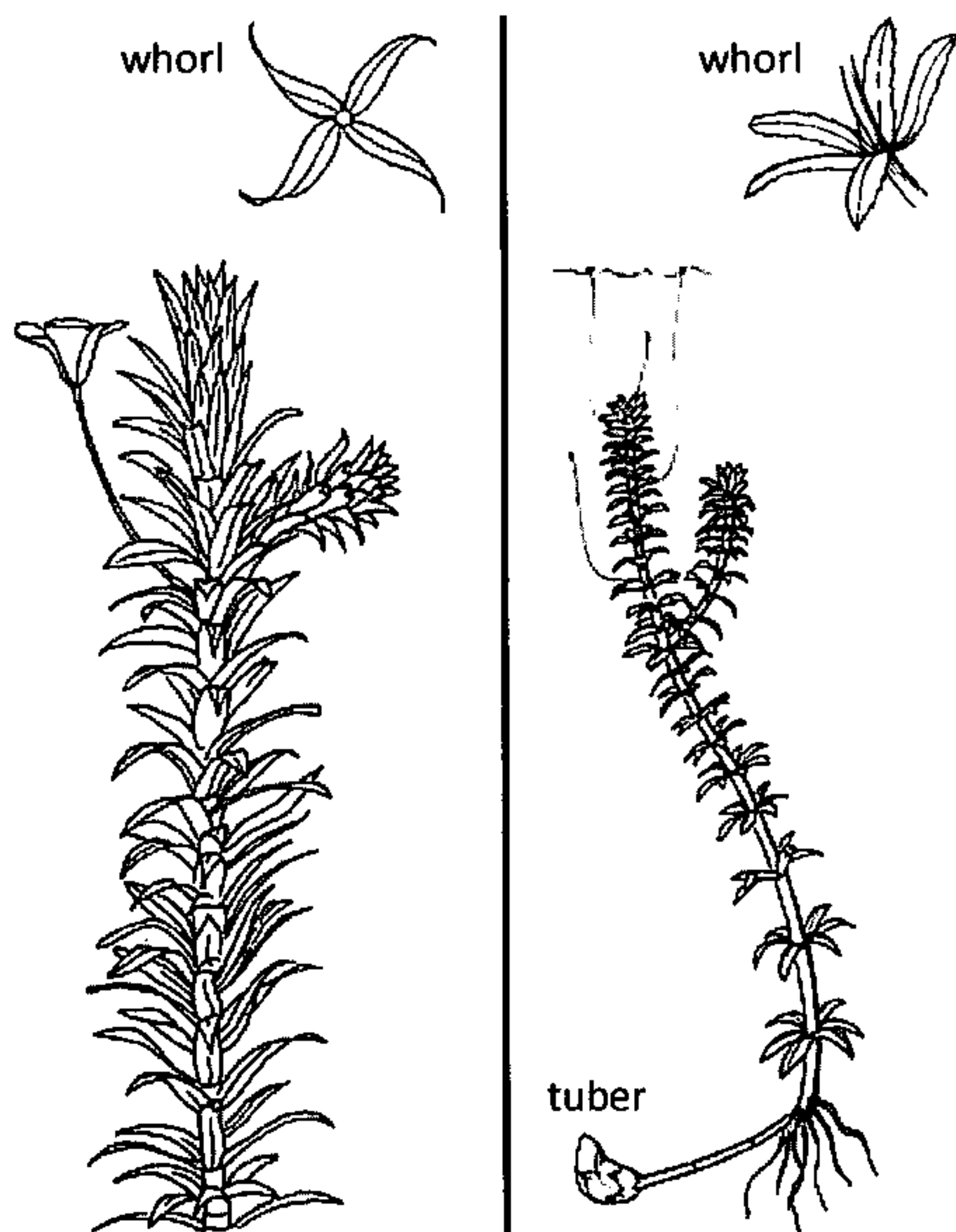
Follow the key beneath the description that best fits the plant. If no descriptions fit, rule out invaders below.



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

Cut the 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

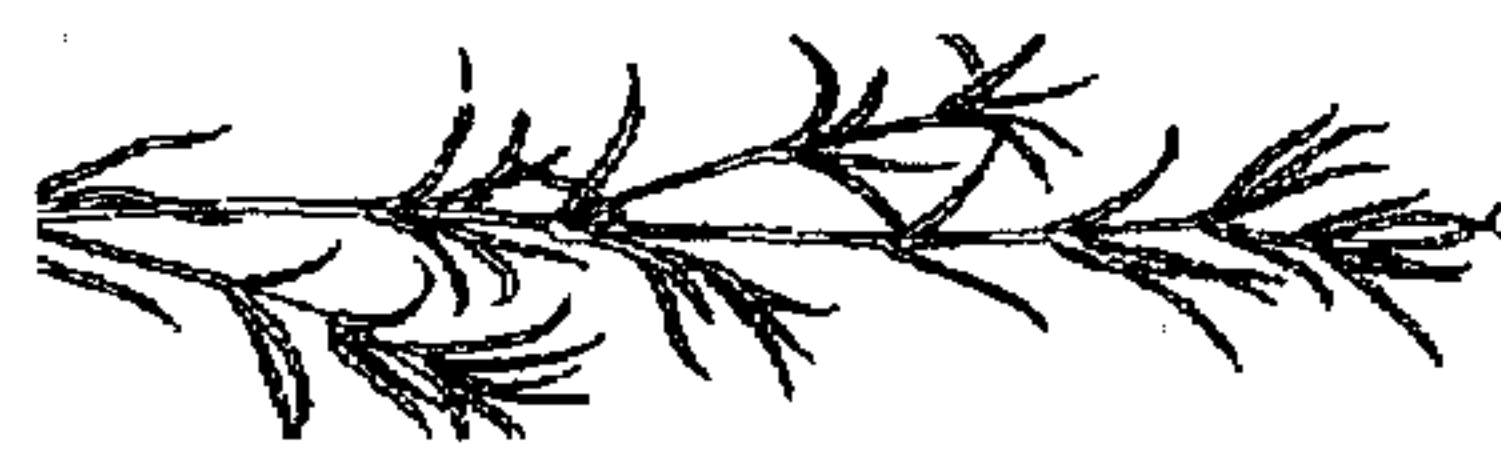
SUSPECT BRAZILIAN ELODEA OR HYDRILLA



Brazilian Elodea
(1/3 life-size)

Hydrilla
(1/3 life-size)

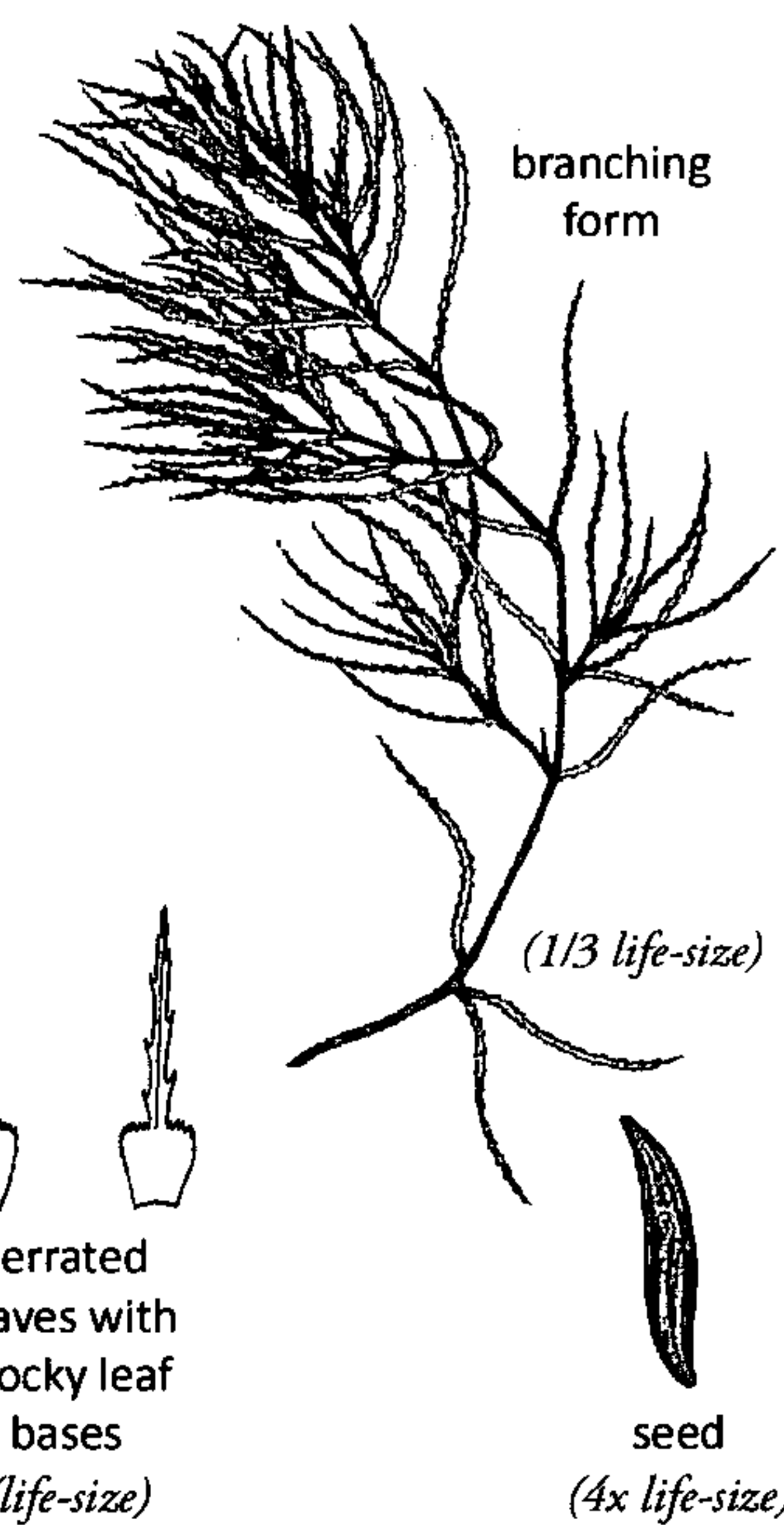
If ALL whorls consist of three leaves only, rule these two invaders out.



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

Examine several leaves using a hand lens, or naked eye. If you see serrations along the leaf edge

SUSPECT EUROPEAN NAIAD



European Naiad

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

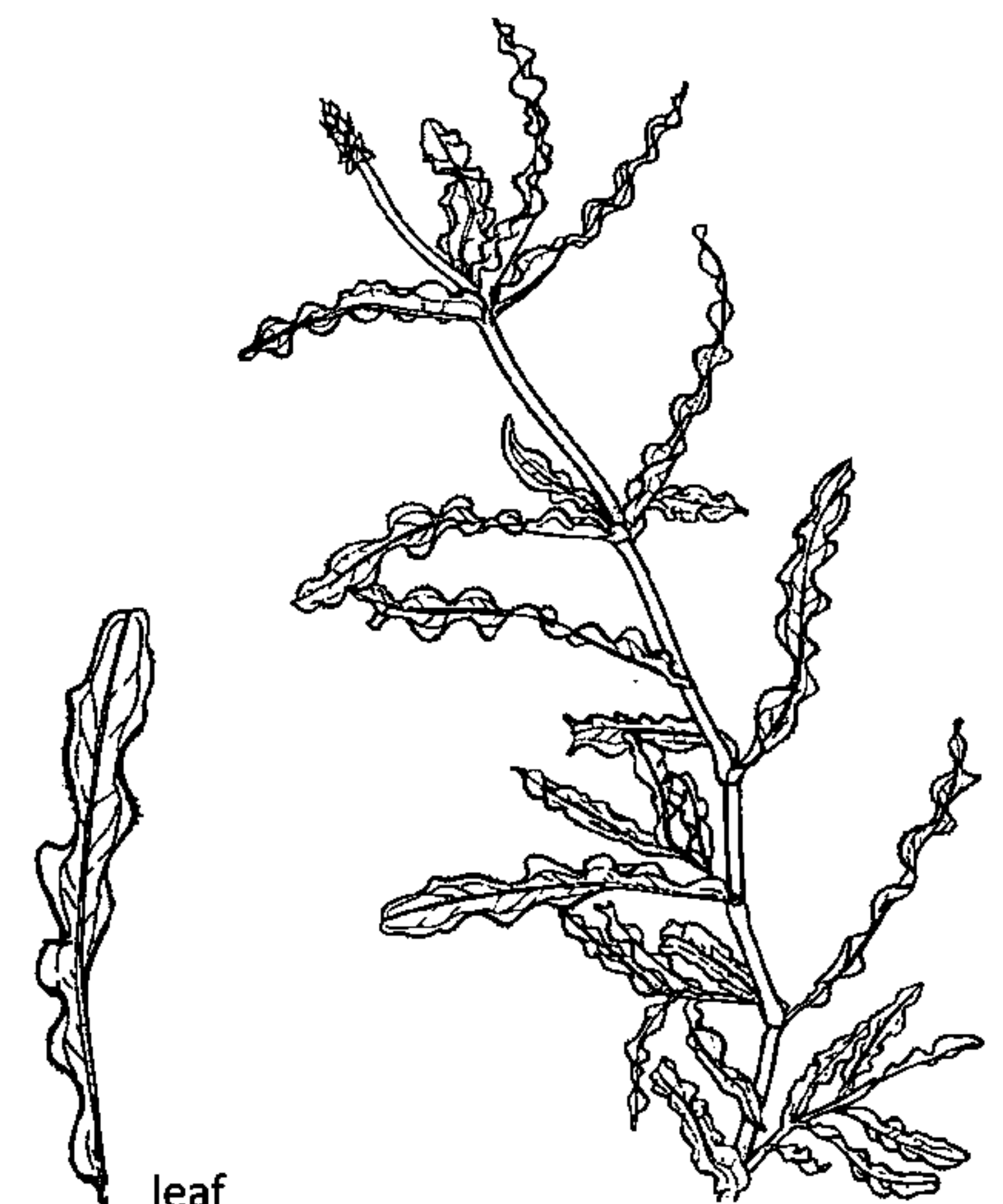


3) Strap-shaped leaves (2 – 8 cm long; 5 – 12 mm wide) are alternately arranged along the stem; plant has SUBMERSED LEAVES ONLY (no distinctly different floating leaves)

If leaves are distinctly wavy, like a lasagna noodle, with fine serrations along the outer edge

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 this invader out.