### A Key to Common Vermont Aquatic Plant Species







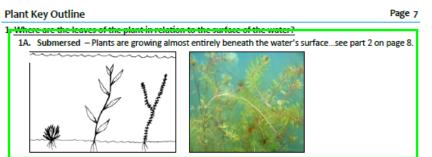
Lakes and Ponds Management and Protection Program



## What's the Key to Identifying Aquatic Plant Species?

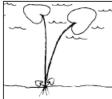
Let's practice using the key...





 Floating-leaved – Plants have many leaves floating on the water's surface, and the surface of floating leaves shed water...see part 13 on page 21.





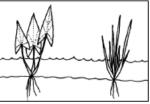
 Combination of Submersed and Floating-leaved – Plants have some leaves that that are growing underwater, but have some on or above the surface of the water...see part 22 on page 27.



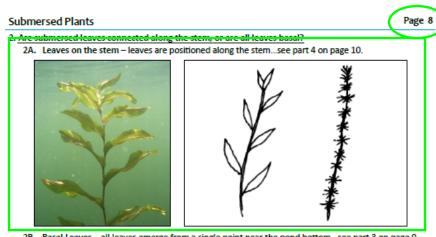


 Emergent – Plants are rooted on the pond bottom and extend upright above the water's surface... see part 23 on page 28.

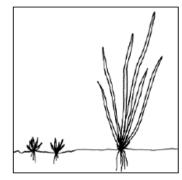








2B. Basal Leaves - all leaves emerge from a single point near the pond bottom...see part 3 on page 9.





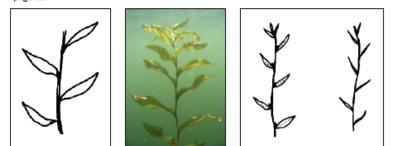


### Submersed Plants

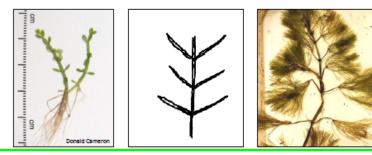
Page 10

4. Are the leaves alternate, opposite, or in whorls around the stem?

4A. Leaves are alternate - leaves are not located across from one another along the stem...see part 5 on page 11.



4B. Leaves are opposite - leaves are symmetrical in groups of two along the stem...see part 8 on page 13.



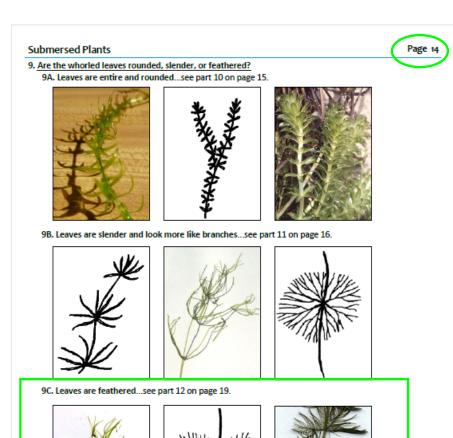
4C. Leaves are in whorls - leaves are grouped in whorls with 3 or more leaves around the stem... see part 9 on page 14.













### Submersed Plants

12. Watermilfoils: There are eight species of Watermilfoil in Vermont





Typically 4 leaves per whorl with 4-12 leaflets on each side of the stout white or tan mid-stem.

Page 19

### Variable-leaf Watermilfoil (Myriophyllum heterophyllum)

### O This is an invasive plant

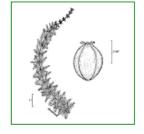


4-6 leaves per whorl with each leaf feather divided with 6-14 leaflets on each side of the mid-stem. Plant has an emergent flower spike that has 4-6 leaves per whorl. Each of these leaves is ½ inch long, entire, and minutely serrated.









Each whorl has 4-5 leaves that are finely divided with 5-14 leaflets per leaf. Stem is green or brown.





Continued next page ...

## Not sure?

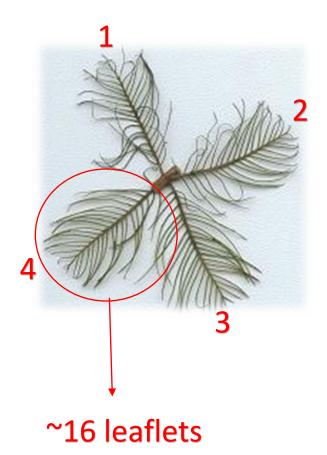
Let's take a closer at each individual whorl

How many leaves are on each whorl?

\*remember a whorl is a circle of 3 or more leaves that originate from the same point on the stem

How many leaflets per leaf?









### Submersed Plants

12. Watermilfoils: There are eight species of Watermilfoil in Vermont







Page 19

Typically 4 leaves per whorl with 4-12 leaflets on each side of the stout white or tan mid-stem.

### Variable-leaf Watermilfoil (Myriophyllum heterophyllum)

### O This is an invasive plant

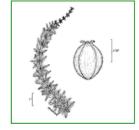


4-6 leaves per whorl with each leaf feather divided with 6-14 leaflets on each side of the mid-stem. Plant has an emergent flower spike that has 4-6 leaves per whorl. Each of these leaves is ½ inch long, entire, and minutely serrated.









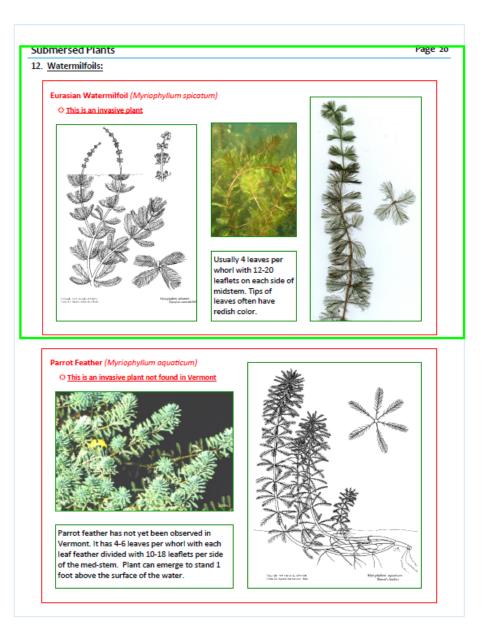
Each whorl has 4-5 leaves that are finely divided with 5-14 leaflets per leaf. Stem is green or brown.



Continued next page...





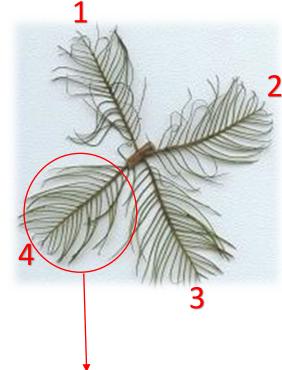




# The answer is: EURASIAN WATERMILFOIL







~16 leaflets