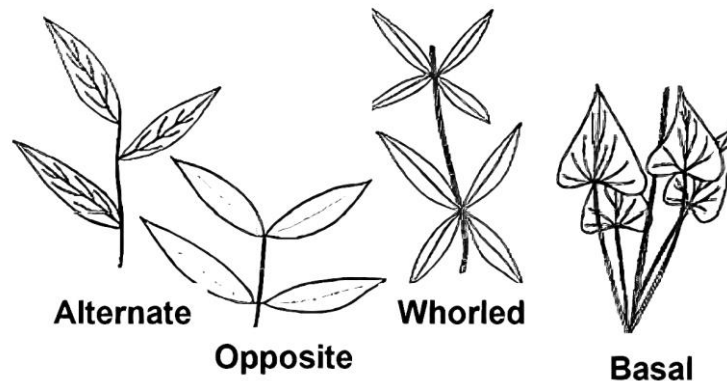


# LOOK ALIKES

## Native and Invasive Plants that Look Similar

### Details to Note When Differentiating Look-Alike Plants

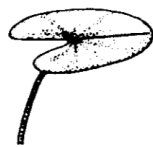
#### Leaf Arrangement – how the leaves are arranged on the stem



#### Leaf Shapes



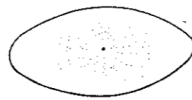
Triangular



Heart



Strap or  
Elongate



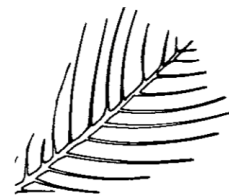
Oval



Elliptical



Lance or  
Blade



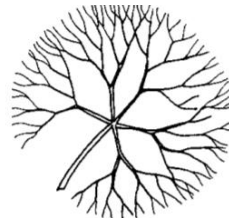
Finely Divided

#### Leaf Shape

#### Finely-Divided Leaf Variations



Fork-divided



Branch-divided

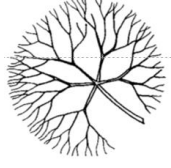


Feather-divided

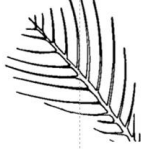
# Quick Guide to Look-Alike Plants with a Cylindrical Bottle Brush Shape & Finely-Divided Leaves



**Fork-Divided  
Leaves**



**Branch-Divided  
Leaves**



**Feather-Divided  
Leaves**

## Coontail

**Water Marigold** – leaves occur in whorls that are fan-shaped and attach directly to stem.

**Fanwort** – leaves occur in whorls that are fan-shaped and attach to stem via a short petiole – **Invasive**.

## Bladders Present

**Common Bladderwort** – alternating leaves with bladders along edges of leaves.

**Purple Bladderwort** – whorls of leaves with bladders along tips of leaves.

**Flat-Leaf Bladderwort** – alternating leaves with bladders only on leafless basal stem.

**Native Milfoil** – pairs of opposing leaves.

## Invasive Milfoils

**Variable Milfoil** – whorls of 4-6 leaves.

**Eurasian Milfoil** - whorls of 4 leaves.

# Plants with Finely-Divided Leaves

## Invasive Variable Milfoil and Eurasian Milfoil vs Native Milfoil



**Variable Milfoil - Invasive**

- Variable milfoil has a **very stiff and thick reddish stem** and is **more robust than the other milfoil species**.
- Leaves are **feather-divided in whorls of 4-6**.
- **Most common Invasive species in NH and Maine.**



**Eurasian Milfoil - Invasive**

- The leaves are **feather-divided in whorls of 4**.
- Green to reddish stem.



**Native Water Milfoil**

- Native milfoils have a thin red, brown, or green stem
- Leaves are **feather-divided in opposing pairs**.

**Milfoils** can be distinguished from similar looking plants by their **feather-divided leaves**. Native milfoil can be distinguished from invasive forms by the number of leaves. Native milfoil has opposing pairs of leaves whereas invasive milfoils have whorls of 4 or more leaves.

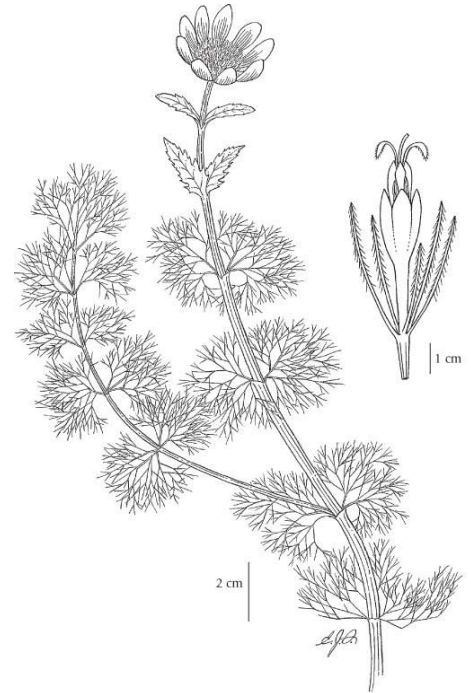


# Plants with Finely-Divided Leaves

## Water Marigold vs Fanwort



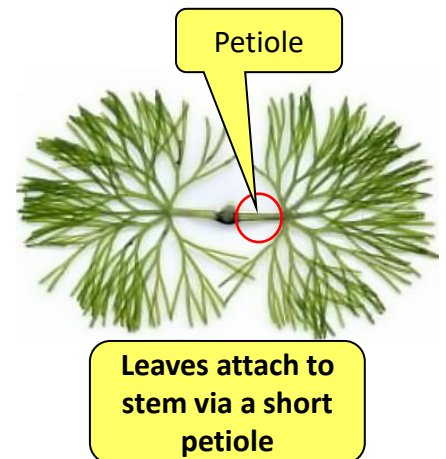
**Water Marigold**



- Pairs of **Opposing Branch-Divided Leaves**.
- Leaves attach directly to stem – there is no petiole.



**Fanwort - Invasive**



- Pairs of **Opposing Branch-Divided Leaves**.
- **Leaves attach to stem via a short petiole.**

These plants look very similar – both have **opposing pairs of fan-shaped branch-divided leaves** and have a cylindrical bottle-brush appearance in the water.

However, the leaves on **fanworts** attached to the stem **via a short petiole** whereas on **water marigolds** they attach **directly to the stem**.



## Other Plants with Finely-Divided Leaves

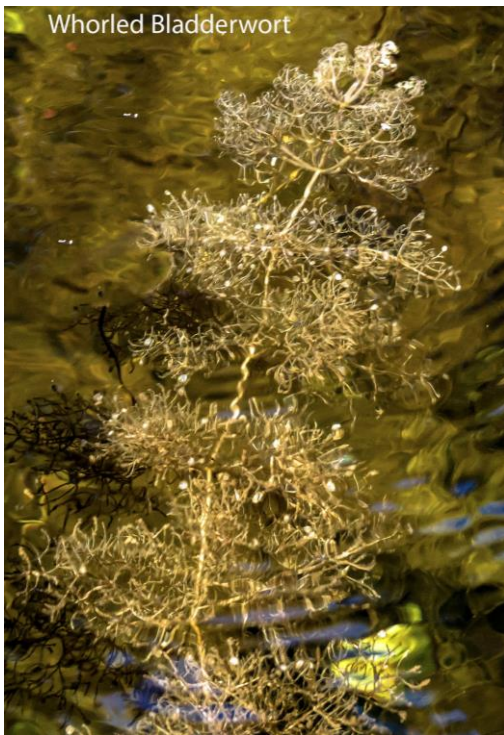
Whorls of Fork-Divided Leaves



Coontail

- At first glance this plant looks like water marigold, fanwort, or one of the milfoils – they all have a cylindrical bottle-brush appearance in the water. But this is the only plant in the group of plants with finely-divided leaves that have **whorls of fork-divided leaves**.
- The leaves are also relatively stiff to the touch and typically hold their shape and position when pulled from the water.
- This plant is not common in Conway Lake but is present in Wiley Brook Inlet

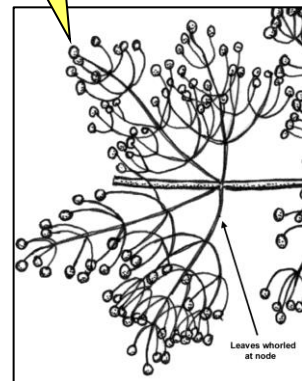
Whorled Bladderwort



Common Bladderwort

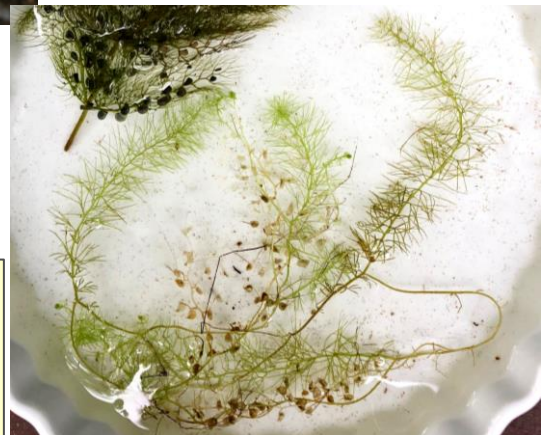


Bladders



Bladderworts  
Native

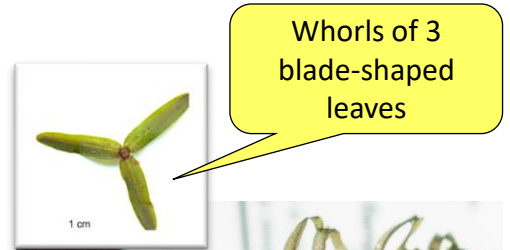
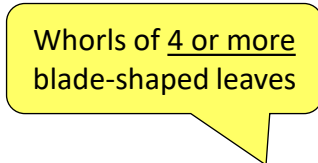
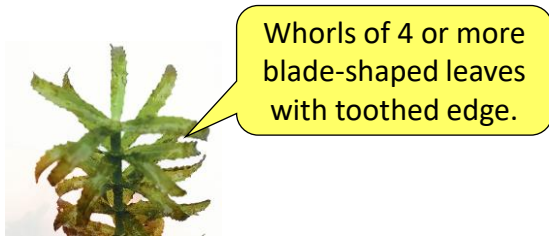
- There are several species of **bladderworts** in Conway Lake
- Although they may look different from one another, all have **branch-divided leaves** and **small bladders** that can be found at the tips of leaves, or along the length of the leaf, or on the leafless bottom stem of the plant.



Thin-leaf Bladderwort

# Plants with Whorls of Blade-Shape Leaves

## Invasive Hydrilla & Brazilian Elodea vs. Common Elodea



**Hydrilla - Invasive**



**Brazilian Elodea - Invasive**



**Common Elodea  
aka Waterweed**

- These plants can look very similar when looking into the lake, so reach in and snag a piece to check it in your boat.
- **Common Elodea** can be differentiated from **Hydrilla** and **Brazilian elodea** by the number of leaves in a whorl – it has whorls of 3 leaves (rarely 4) while Hydrilla and Brazilian elodea have whorls of 4 or more leaves.
- **Hydrilla** can be further differentiated from **Brazilian elodea** by the finely-toothed margins of the leaves.



# Plants with Alternating Wavy Leaves

## Invasive Curly-Leaf Pondweed

### vs. Native Robbins Pondweed and Clasping-Leaf Pondweed

Alternating very slightly wavy leaves.



**Robbins Pondweed**

Alternating wavy leaves. Leaf base wraps around the stem



**Clasping-Leaf Pondweed**

Alternating wavy leaves. Leaf base does not wrap around the stem



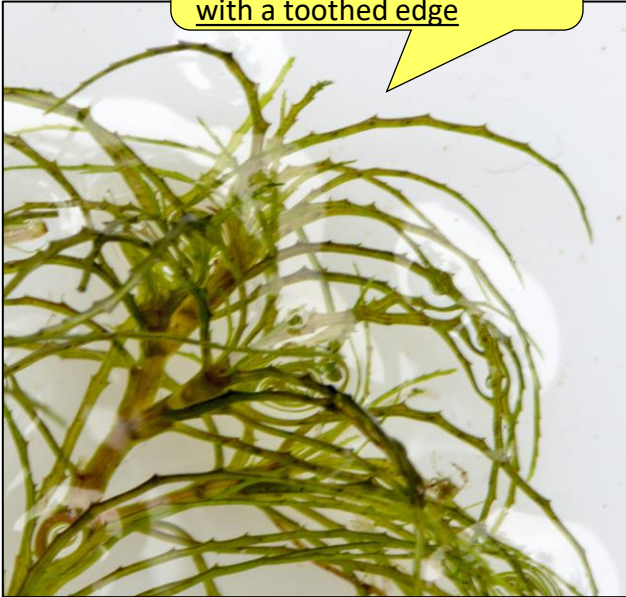
**Curly-Leaf Pondweed - Invasive**

- These plants are characterized by alternating leaves and can be distinguished from one another by the waviness of the leaves and whether the base of the leaf does or does not wrap around the stem.
- **Robbins pondweed** is present in Conway Lake and while **clasping-leaf pondweed** has not yet been spotted. It is, however, present in nearby ponds and lakes. Be on the lookout for plants with very wavy leaves – it could be **clasping-leaf pondweed** or the invasive **curly-leaf pondweed**.

## Plants with Slender Leaves

### Invasive Spiny Naiad Vs. Native Water Naiad & Spiral Pondweed

Leaves are attached to stem in whorls and are stiff with a toothed edge



#### Invasive Spiny Naiad

- Spiny naiad leaves are paired, sometimes appearing whorled, and usually bunched at leaf axils.
- Leaves are typically stiff, curled and pointed, and have spines along the margins that are visible to the naked eye, if not a hand lens. Leaves are about 1 mm wide and 0.5 to 3.5 cm long.
- **Look Alikes:** This plant is similar to native waterweed and spiral pondweed.

#### Native Water Naiad & Spiral Pondweed

- Narrow thread-like leaves originating in pairs or whorls (water naiad) or individually off the central stem (spiral pondweed)
- Look very similar to the invasive spiny naiad. The invasive species is distinguished by its thicker and broader leaves with serrated edges.

**Water Naiad**  
Leaves attached to stem in pairs or whorled tufts of three.



#### Spiral Pondweed

Individual leaves attach to the stem rather than in whorled groups. Not shown here but spiral pondweeds also have small oval floating leaves.

- These plants all have narrow thread like leaves with stems that can be green or purple.
- **Spiral pondweed** can be differentiated from **water naiad** and **spiny naiad** by its leaf arrangement and presence of small floating leaves. Individual leaves on spiral pondweed attach at single nodes – they are not arranged in pairs or whorls as they are on **water naiad** & **spiny naiad**
- **Spiny naiad** can be differentiated from **water naiad** by the finely serrated edges on its leaves and its stiff feel.



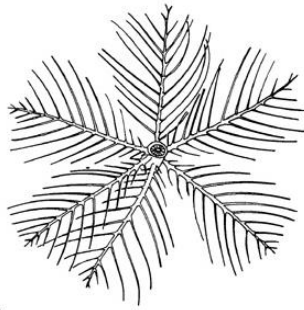
# Comparison of Leaf Cross-Sections

## Feather-Divided Leaves



### Milfoil – Native

- Pairs of opposite feathery-divided leaves



### Variable Milfoil – Invasive

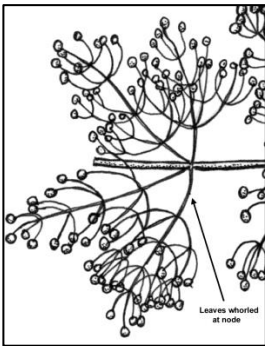
- leaves are feathery-divided in whorls of 4 to 6



### Eurasian Milfoil – Invasive

- The leaves of are feathery-divided, in whorls of 4.

## Branch-Divided Leaves



### Bladderworts – Native

- Distinguished by presence of bladders.



### Water Marigold – Native

- Two opposing leaves attached directly to the stem.



### Fanwort – Invasive

- Two opposing leaves attached to the stem by a short petiole.



### Water Crowfoot – Native

- Alternating branching divided leaves
- Not yet found in Conway Lake



## Fork-Divided Leaves



### Coontail – Native

- Fork-divided leaves arranged in whorls around the stem.

## Whorls of Blade-Shaped Leaves



### Waterweed – Native

- Whorls of three leaves (rarely 4).



### Brazilian Elodia - Invasive

- Whorls of 4 or more leaves.



### Hydrilla - Invasive

- Whorls of 4 or more leaves
- Finely-toothed leaf margins