

# COMMON DUCKWEED



Among the smallest of all flowering plants (the smallest on earth is a different species of duckweed), common duckweed is a free-floating native aquatic perennial that forms a floating mat of minute foliage on the water surface. It is dispersed around the world.

### **Characteristics:**

#### Vegetative

- Leaf type: single 1-8 millimeter long.
- Leaf shape: flat oval (ovate).
- Leaf arrangement: one, two, three or four leaves.
- Leaf position: leaves at top of stem floating on water.

#### Flower

- Number of petals/sepals: Almost never seen.
- Color: Green.
- Attachment: in pouch-like sac near leaves.

#### Seed

• No seed, reproduce by building new leaf bodies that remain attached which is how they form floating clusters.



#### **Habitat Preference**

Found on the surface of quiet waters of lakes, ponds, marshes, swamps, swales, sloughs and slow-moving streams. Requires water high in nutrients.



## **COMMON DUCKWEED**

to Lake Champlain

commercially valuable proteins.

prevent excessive mosquito breeding.

**Ecological Contributions** 

• Important food source for aquatic waterfowl and fish.

• Research using duckweed to synthesize insulin and other

• Surface clusters of duckweed provide shade for some fish

and other invertebrates. Dense clusters of duckweed can

Lemna minor

#### Cultural History Notes

Common duckweed can be used to remove excess nutrients or toxic metals from water bodies (called phytoremediation) because it is an efficient bioaccumulator, is fast-growing and hardy, and is easily removed from the water after use.

## Similar Species

#### Cyanobacteria blooms

• Not a plant species, but a phenomenon that has become common in Lake Champlain.

**Biological** 

Chemical

**Physical** 

• Can produce toxins harmful to humans and pets.



## DUCKWEED ON A CYANOBACTERIA BLOOM

#### Scan to learn more about Lake Champlain's native aquatic plants!



The Lake Champlain Committee is a watershed-based nonprofit that uses science-based advocacy, education, and collaborative action to protect and restore water quality, safeguard natural habitats and ensure recreational access in the Lake Champlain Basin.

#### How to differentiate cyanobacteria blooms and duckweed mats

- Cyanobacteria blooms and duckweed mats can be found under similar conditions: warm, shallow, stagnant, and nutrient-rich water. They can occur together.
- Carefully get closer to tell them apart-duckweed has small floating leaves while cyanobacteria blooms have no plant structure.

