

What else lives at the pond? **Guide to duckweeds**



Duckweeds are plants on a miniature scale; they have leaves, roots and flowers - just very small ones! Duckweeds float on the surface of ponds. Where there is a lot of duckweed it can block out sunlight, which affects other pond life. This chart shows six duckweeds that you might see when you're spending time around the pond taking part in the OPAL Water Survey.

leaf Kev Invasive species water roots **HINT** The pond may contain more than one species of duckweed. This guide groups duckweeds by how many roots they have, so look for that first. Then use the size, shape and colour of the leaves to decide which species you have. Using the OPAL magnifier will help you.

Tell us what you see! Duckweeds are useful indicators of water quality and a pond's condition. Invasive duckweeds (introduced from other countries) can negatively affect our native duckweeds. Help us track their spread by completing the OPAL Water Survey. www.OPALexplorenature.org

Duckweeds with no roots

Rootless Duckweed

Wolffia arrhiza

Never has roots.

Native species

Leaves are 0.5-2 mm long, oval-shaped and fat. They look like tiny bright green grapes.

Rare.



from above



from side





the small leaves are Rootless Duckweed

Duckweeds with many roots

Greater Duckweed

Spirodela polyrhiza

Each leaf has more than one root.

Leaves are flat, 4-12 mm long, nearly round or tear-shaped. Top surface of the leaf darkish green and smooth or slightly ribbed. Underneath is purplish red.

Uncommon.



from above



from side



purple underneath





Always exercise caution around water: please see health and safety guidance at www.rospa.com/leisuresafety/ adviceandinformation/watersafety

Duckweeds with one root

Fat Duckweed

Lemna gibba

Leaves are domed and 2-6 mm long. Top surface of the leaf is dull green or reddish-brown.

Look for big. bubble-like clear cells underneath the leaf.

Common.



from above



from side





Least Duckweed

Lemna minuta

Leaves flat and 1-2.5 mm long. Both leaf surfaces are pale grey-green in colour. The leaf is delicate and almost see-through.

Least Duckweed is an invasive species introduced from another country. It is now the most common species in some areas, and is probably still spreading. Help us to track where it is.

Common.



from above





Common Duckweed



Leaves are flat, egg-shaped and 2-7 mm long. Top surface of the leaf is bright yellow-green. Unlike Least Duckweed the underneath is much paler.

Common.



from above



from side



Ivy-leaved Duckweed •

I emna trisulca

Leaves are flat and 5-10 mm long. Each leaf has a pointed tip and a stalk connecting it to other leaves. Leaves grow in groups of 3, are see-through and usually float just below the water surface.

Never has more than one root. Occasionally has no roots at all.

Common.



from above



from side





The **Botanical Society of the British Isles (BSBI)** has developed this survey in partnership with the Natural History Museum's Angela Marmont Centre for UK Biodiversity. The BSBI is Society of the the leading society in Britain and Ireland for the study of plants. They run plant surveys, field trips and training courses as well as publishing handbooks and journals. Find out about recording plants in your local area by visiting their website www.bsbi.org.uk.

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