Water fern

Scan for more information



Species Description

Scientific name: Azolla filiculoides

AKA: Fairy Fern

Native to: North and Central America

Habitat: Still and slow flowing water bodies (e.g. ponds,

drainage channels, ditches, canals)

Azolla filiculoides is a floating aquatic fern that is almost mosslike in appearance. It is bright green in colour with a noticeable fine red border round each leaf. Leaves up to 2.5 cm. Often acquires a rusty red colouration in winter, or when stressed. It is not tolerant of turbulence or waves, and is usually flushed out of fast-flowing rivers and streams.

Introduced for ornamental use in ponds and aquaria. Can be inadvertently carried on water plants from garden centres. Outcompetes native species by forming a dense covering on the surface of the water, blocking out light, causing deoxygenation, preventing air-breathing insects from reaching the surface and reducing water temperatures. Dense and continuous stands can be a health hazard as the water surface appears solid.

Water Fern is listed under Schedule 9 of The Wildlife (Northern Ireland) Order 1985 and as such, it is an offence to plant or otherwise allow this species to grow in the wild.



Key ID Features

Usually green but often has a reddish tinge and can be completely red when exposed to stresses (such as cold temperatures, brackish waters or shading)





Forms dense mats but can also be present as a few fronds amongst emergent or other floating vegetation.

Report any sightings via; CEDaR Online Recording - https://www2.habitas.org.uk/records/ISI, iRecord app or Invasive Species Northern Ireland website - https://invasivespeciesni.co.uk/report-sighting

Identification throughout the year

Plants can be present year round, but often dies back in winter. Colour can vary considerably through the year. Green in spring/ summer often turns red during cold weather in autumn/winter.

Green form

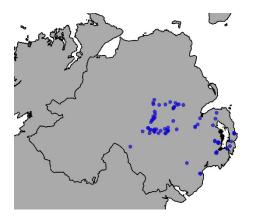


Red form



Distribution

Recorded in a number of sites across Northern Ireland.



Source: NBN Atlas Northern Ireland https://northernirelandspecies.nbnatlas.org/species/NBNSYS0000002090 Check website for current distribution

Similar Species





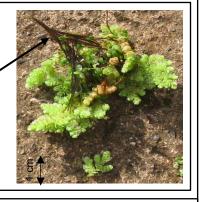
Common Duckweed

Native (Lemna minor) Light green colour Smaller than water fern (only 1.5 – 4mm across) Single round leaves, not branched White to light green root attached to each leaf

Water fern For comparison)

Multiple dark brown roots

Leaves are much larger (up to 2.5cm) and branching



References and further reading:

Blamey, M, Fitter, R and Fitter, A (2003) "The Wild Flowers of Britain and Ireland. The Complete Guide to the British and Irish Flora". A & C Black Preston, C D and Croft, J M (1997) "Aquatic plants in Britain and Ireland". Harley Books

Preston, C D, Pearman, D A and Dines, T A (editors) (2002) "New Atlas of the British and Irish Flora". Oxford University Press

Stace, C (1999) "Field Flora of the British Isles".

Cambridge University Press Photos from: Olaf Booy, Anne Halpin, Peter Llewellyn,

Alisdair Mason, Max Wade

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