# Quagga mussel

## Scan for more information



# **Species Description**

Scientific name: Dreissena bugensis

AKA: Dreissena rosteriformis bugensis, Asiatic Clam, Golden

Clam, Pygmy Clam

Native to: Ponto-Caspian region, Black, Caspian and Aral

Sea

**Habitat**: Fresh and weakly brackish waters

The quagga mussel is a small bivalve mollusc similar to the invasive non-native zebra mussel.

Adults have a triangular shell and up to 50 mm in length. In new populations, most

individuals are young and therefore very small (less than 8mm).

They survive in both muddy and hard substrates, and tolerates a range of water conditions, from shallow and warm to deep and cold. They attached to anything solid underwater, e.g. stones, shells, wooden posts, hulls, concrete.

Due to its filtering capacity and ability to produce dense populations, it can alter whole freshwater ecosystems. It can outcompete and significantly reduce native biodiversity. It feeds on the varieties of algae that compete with blue-green algae, often resulting in toxic algal blooms. It is also a nuisance and economic problem when growing in pipes of water treatment plants or commercial ships.

It is not yet present in Northern Ireland. However in July 2021 Quagga mussel was discovered in the Shannon River, providing a direct route for spread into Northern Ireland. Following 'Check, Clean, Dry' guidance is the most effective way to prevent its introduction here.

Likely pathways of introduction to Northern Ireland include; fouling of boats and other machinery, hitch hiking on equipment associated with angling or recreational activities and ballast water. Once established there is no effective eradication method for quagga mussel.



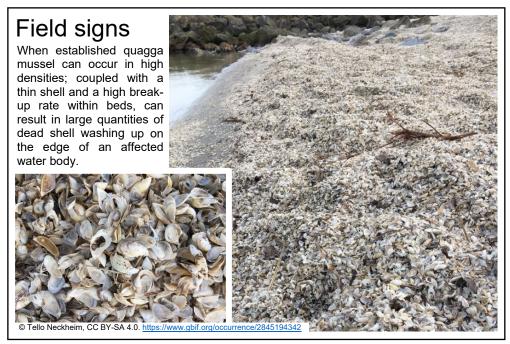
ian wessels, CC BY-NC-ND 4.0 https://www.gbif.org/occurrence/1971621470



© John Boldt, CC BY-NC 4.0, http



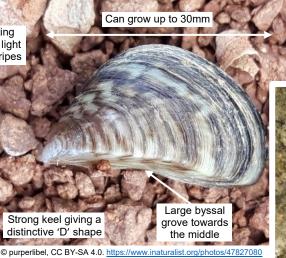
Report any sightings via; CEDaR Online Recording - <a href="https://www2.habitas.org.uk/records/ISI">https://www2.habitas.org.uk/records/ISI</a>, iRecord app or Invasive Species Northern Ireland website - http://invasivespeciesni.co.uk/report-sighting











When placed on its front (hinge edge), zebra mussel usually remains upright, whereas quagga mussel tends to roll on its side

Mid-ventral line is straight

More byssal threads, therefore is more difficult to detach from surfaces

© calebthinks, CC BY-NC 4.0. https://www.gbif.org/occurrence/1880474563

# Blue mussel Native (Mytilus edulis) Found only in marine and estuarine habitats (5 – 10 cm in length) © Sylvain Morin, CC BY-NC 4.0. https://www.gbif.org/occurrence/2814100711

### References and further reading:

- Aldridge, D. 2011. GB Non-Native Organism Risk Assessment Scheme of Quagga mussel (*Dreissena rostriformis bugensis*). Available
- https://secure.fera.defra.gov.uk/nonnativespecies/downloadDocument.cfm?id=1372
- Booy, O., Wade, M. and Roy, H. 2015. Field Guide to Invasive Plants and Animals in Britain. Bloomsbury. London.
- CABI Dreissena rostriformis bugensis (quagga mussel) data sheet. Available <a href="https://www.cabi.org/isc/datasheet/107770">https://www.cabi.org/isc/datasheet/107770</a>

Sustainability at the heart of a living, working, active landscape valued by everyone.



