Asian Clam

Scan for more information



Species Description

Scientific name: Corbicula fluminea

AKA: Asiatic Clam, Golden Clam, Pygmy Clam

Native to: Southern and eastern Asia

Habitat: Rivers, lakes, canals. Requires well-oxygenated

water and prefers sand and gravel substrate.

Corbicula fluminea is a small bi-valve clam, with an inflated shell and is slightly round to triangular in shape. They can grow to length of 50-65mm, but usually are less than 25mm. They have a thick shell with prominent and evenly spaced concentric ridges. The outside shell is yellow-green to brown which can flake off leaving white patches. The inside shell layer (nacre) is a glossy light purple. They have a lifespan of 1 – 7 years. Reproduction requires water temperatures greater than 15°C.

In Northern Ireland C. flumenia has been recorded in the River Foyle and also in a number of rivers in Ireland. Likely pathways of introduction to Northern Ireland are from ballast water from international shipping, food imports and aquarium trade. Along with the natural dispersal through a river system; boating, angling and other water based activities can spread the already present populations.

Where they are established the Asian clam can occur in very high densities (several 1000/m²). The numbers of individual significantly alter the ecosystem by filtering nutrients, altering substrate and potentially increasing sedimentation through pseudofaeces production.

Can compete with native species for nutrients and substrate space. In large numbers they can also displace or clog the spawning grounds of native species. Their high numbers can also blocking drainage or intake pipes and restrict water flow







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

Where established, dead shell can wash up on edge of water bodies.

Distribution

1 record in Northern Ireland. Records concentrated in Southern England and Wales.



Source: NBN atlas
https://species.nbnatlas.org/search/?q=corbicula+fluminea
Check website for current distribution

Similar Species

Field signs

Orb cockles (*Sphaerium spp.*) and pea cockles (*Pisidium spp.*) are native freshwater clams. They have a similar appearance to Asian clam, but they are much smaller (15mm). Shells are very thin and lack prominent ridges.



Zebra mussel Invasive non-native (Dreissena polymorpha) Alternating dark and light zigzag stripes © Domas, CC BY-SA 4.0, https://www.inaturalist.org/photos/85043727



European fingernail clam



References and further reading:

- Booy, O., Wade, M. and Roy, H. 2015. Field Guide to Invasive Plants and Animals in Britain. Bloomsbury. London.
- CABI Corbicula fluminea (Asian clam) data sheet https://www.cabi.org/isc/datasheet/88200
- Millane, M. & Caffrey, J. 2014. Inland Fisheries Ireland and the National Biodiversity Data Centre Risk Assessment of Corbicula fluminea. Available http://nonnativespecies.ie/wp-content/uploads/2014/03/Corbicula-fluminea-Asian-Clam1.pdf
- Zieritz, A. 2015. GB Non-native species Rapid Risk Assessment (NRRA) of Corbicula fluminea. Available https://secure.fera.defra.gov.uk/nonnativespecies/downloadDocument.cfm?id=1370

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