

SPECIES MANAGEMENT PROFILE

Beddomeia hallae Hydrobiid Snail (Buttons Rivulet)

Group: Mollusca (shellfish), Gastropoda (snails and slugs), Hypsogastropoda, Tateidae

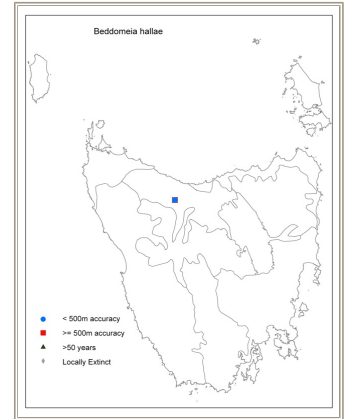
Status: *Threatened Species Protection Act 1995:* **endangered**
Environment Protection and Biodiversity Conservation Act 1999: Not listed

Endemic: Endemic in Tasmania and restricted

Status:



Beddomeia hallae is a tiny (3-4 mm) freshwater snail occurring in tributaries of Buttons Rivulet on South Preston Rd, Nietta and headwater streams of the Castra Rivulet (including Deep Gully Creek), in central northern Tasmania. The species has a relatively narrow range, known only from a small number of streams, across an area of 20 square km. The principal threats to *B. hallae* are agricultural and forestry practices which result in habitat modification or degradation. *B. hallae* may also be vulnerable to competition with the exotic snail *Potamopyrgus antipodarum*, a species of hydrobiid introduced from New Zealand. The principal management objectives for *B. hallae* include preventing the loss or degradation of habitat supporting known populations, identification of new subpopulations, increasing public awareness of the species, and improving the species' reservation status.



Key Points

- Important:** Is this species in your area? Do you need a permit? Ensure you've covered all the issues by checking the Planning Ahead page.
- Important:** Different threatened species may have different requirements. For any activity you are considering, read the Activity Advice pages for background information and important advice about managing around the needs of multiple threatened species.

Habitat

- 'Habitat' refers to both known habitat for the species (i.e. in or near habitat where the species has been recorded) and potential habitat (i.e. areas of habitat with appropriate characteristics for the species and within the species' potential range which have not yet been adequately surveyed).
- If in doubt about whether a site represents potential habitat for this species, contact the Threatened Species Section for further advice.
- The known range of *B. hallae* includes four small streams from two separate catchments (Castra Rivulet and Leven River), in central northern Tasmania (see distribution map, above). While the potential range for *B. hallae* is may extend beyond the current known range, to date surveys have not detected further populations.
- Habitat for *B. hallae* includes the following elements: leaf litter, woody debris and rocks in the stream channels, the species is located on the underside of submerged habitat.

What to avoid

- Damage to downstream habitat through upstream agricultural and forestry practices
- Damage to stream habitat through altered flow regimes (e.g. due to construction of water impoundments upstream of populations).

Surveying

Key	Survey reliability more info
M	Peak survey period
M	Potential survey period
M	Non-survey period

To ensure you follow the law - check whether your survey requires a permit. Always report any new records to the Natural Values Atlas, or send the information direct to the Threatened Species Section. Refer to the Activity Advice: Surveying page for background information.

Species	Spring					Summer					Autumn					Winter								
<i>Beddomeia hallae</i>	S	S	O	O	N	N	D	D	J	J	F	F	M	M	A	A	M	M	J	J	J	J	A	A

- B. hallae* is a very small, cryptic species which can be difficult to tell apart from other species of *Beddomeia* and some other hydrobiid species. Identification to species normally requires a specialist.
- For further information on assistance in surveying or identifying this species, contact the Threatened Species Section.

Helping the species

- If you live or work in the area where the species occurs (see distribution map, above), look out for and record any observations of the species. All records of this species can provide important information on distribution and abundance.
- Important! Always report any observations of the species to the NRE Natural Values Atlas, or else provide the data direct to the Threatened Species Section. Records stored on the NVA are a permanent record and are accessible to other people interested in this species.
- Consider the needs of the whole habitat. Preserving a threatened species' habitat is the best way to manage both the species and the environment in which it lives.
- For long-term protection of populations on private land – consider protection of habitat through a vegetation management agreement or conservation covenant.

Cutting or clearing trees or vegetation

- Activities which result in habitat degradation are the principal threats to *B. hallae*, including clearing of streamside vegetation.
- To avoid damage to stream habitat – do not remove streamside vegetation around populations.
- To avoid downstream impacts – do not clear streamside vegetation upstream of populations.

Burning

- Activities which result in habitat degradation are the principal threats to *B. hallae*, including burning of streamside vegetation.
- To avoid damage to stream habitat – do not burn streamside vegetation around populations.
- To avoid downstream impacts – do not burn streamside vegetation upstream of populations.

Agriculture

- Activities which result in habitat degradation are the principal threats to *B. hallae*, including clearing of streamside vegetation and conversion to pasture and plantation.
- To avoid downstream impacts do not clear and convert (e.g. to pasture or plantation) streamside vegetation upstream of populations.
- To avoid crushing the species and its habitat – fence stock away from known and potential habitat.

Stock grazing

- To avoid damaging habitat – protect streamside habitat from stock by fencing and provide alternative access to water.

Construction

- Activities which result in habitat degradation are a principal threat to *B. hallae*, including alterations to flow conditions within stream habitat.
- To avoid damage to stream habitat – avoid alterations to stream flow conditions, for example through construction of water impoundments upstream of populations.
- To avoid loss of habitat – ensure appropriate surveys are undertaken during the planning stage for dam construction in areas of habitat.

Changing water flow / quality

- Activities which result in habitat degradation are the principal threats to *B. hallae*, including alterations to flow conditions within stream habitat.
- To avoid damage to stream habitat – avoid alterations to stream flow conditions, for example through construction of water impoundments upstream of the known populations.

Use of chemicals

- Activities which result in habitat degradation are a principal threat to *B. hallae*, including pollution of the waterway. Sources of chemical pollution include pesticides and herbicides, and fertiliser runoff into waterways
- To avoid damage to stream habitat – do not use herbicides and pesticides in the vicinity of populations where this could lead to input of chemicals into the waterway
- To avoid damage to stream habitat – avoid application of fertiliser in the vicinity of populations where this could lead to runoff of fertiliser into the waterway.

Further information

Check also for listing statement or notesheet pdf above (below the species image).

Cite as: Threatened Species Section (2024). *Hydrobiid Snail (Buttons Rivulet) (Beddomeia hallae): Species Management Profile for Tasmania's Threatened Species Link*. [https://www.threatenedspecieslink.tas.gov.au/Pages/Hydrobiid-Snail-\(Buttons-Rivulet\).aspx](https://www.threatenedspecieslink.tas.gov.au/Pages/Hydrobiid-Snail-(Buttons-Rivulet).aspx) Department of Natural Resources and Environment Tasmania. Accessed on 17/4/2024.

Contact details: Threatened Species Section, Department of Natural Resources and Environment Tasmania, GPO Box 44, Hobart, Tasmania, Australia, 7001. Phone (1300 368 550).

Permit: A permit is required under the Tasmanian *Threatened Species Protection Act 1995* to 'take' (which includes kill, injure, catch, damage, destroy and collect), keep, trade in or process any specimen or products of a listed species. Additional permits may also be required under other Acts or regulations to take, disturb or interfere with any form of wildlife or its products, (e.g. dens, nests, bones). This may also depend on the tenure of the land and other agreements relating to its management.
