

Threatened Species of the Northern Territory

LAND SNAIL

Semotrachia rossana

Conservation status

Australia: Not listed

Northern Territory: Vulnerable

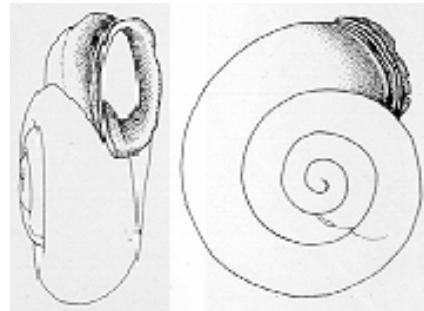


Illustration from Solem 1993

Description

Semotrachia rossana is a medium-sized (shell diameter 11-12 mm) camaenid land snail, with relatively low spire.

Other distinguishing characters are listed in Solem (1993).

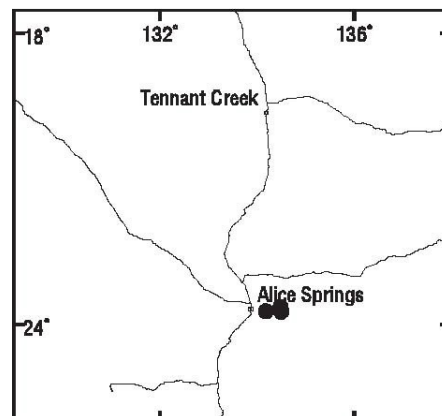
Distribution

Solem (1993) reported that this species had been collected only from two sites along the Ross River downstream of the Ross River Resort and above N'Dhala Gorge, east of Alice Springs. The two sites are less than 0.5 km apart. Some more recent museum collections attributed to this species extend this known range marginally.

Conservation reserves where reported: None (the existing records are just outside N'Dhala Gorge National Park).

Ecology

There is no published information on the ecology of this species.



Known locations of *Semotrachia rossana*

• = post 1970.

Conservation assessment

This species is one of a set of snail species listed here that are all relatively restricted in their geographic range and are exposed to processes that may lead to their decline. This species is classified as **Vulnerable** (under criteria B1ab(i,ii,iii)+2ab(i,ii,iii)) based on:

- extent of occurrence <20,000 km²;
- area of occupancy <2,000 km²;
- known to exist at <10 locations; and
- continuing decline observed, inferred or projected.

Threatening processes

There is no direct evidence that any factors have caused a decline in the numbers or distribution of this species. However, there has been no monitoring of status, and this species may be detrimentally affected by an increased frequency and/or intensity of fire, fuelled in part by invasive exotic grasses, particularly buffel grass (*Cenchrus ciliaris*).

Conservation objectives and management

There are no existing management programs for land snail species in the Northern Territory.

Research priorities are:

- i. to conduct further surveys to determine whether populations occur elsewhere; and
- ii. to identify specific threats to the known population.

A monitoring program should be established.

The management priority is to better safeguard the known population through establishment of appropriate fire regimes.

Complied by

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[April 2006]

References

Solem, A. (1993). Camaenid land snails from Western and central Australia (Mollusca: Pulmonata: Camaenidae). VI Taxa from the red centre. *Records of the Western Australian Museum* Supplement 43, 983-1459.