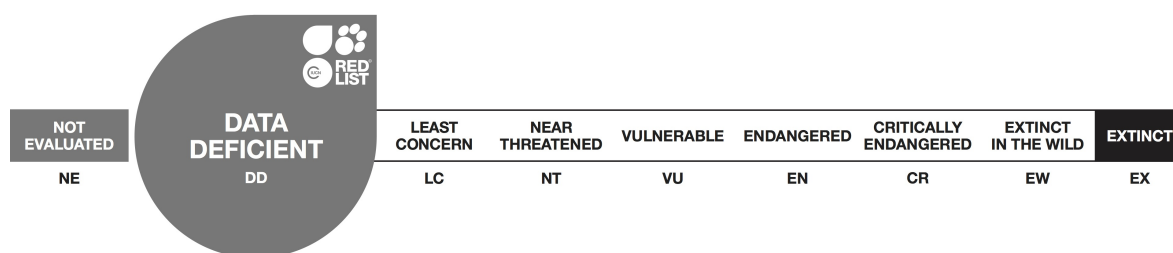


Heterostoma desertae

Assessment by: Seddon, M.B.



View on www.iucnredlist.org

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae

Taxon Name: *Heterostoma desertae* (Mandahl-Barth, 1950)

Taxonomic Notes:

Bank *et al.* (2002) retain three taxa, *Steenbergia pauperculum*, *S. desertae*, and *S. duplex* following the belief that the conchological forms identified are distinct species. In contrast, Cook and Lace (1993) suggest that the variability in conchological forms relates to incomplete speciation. There have been further investigations into the anatomical and genetic variability of these taxa on Porto Santo. Lace (1992) showed that there are euphallic (fully hermaphrodite) populations and hemiphallic (lacking male distal genitalia) populations. Neither Cook nor Lace followed Mandahl-Barth (1950) in considering *Steenbergia duplex* and *Steenbergia desertae* as distinct species, instead placing the shell forms as a single species (Cameron *et al.* 1999). Further research by Craze and Lace (2000) show that there are distinct associations with habitats, they suggest that the toothed and untoothed populations represent sandy and rocky populations as opposed to those from more vegetated sites. There are other conchological differences in the taxa, notably the granular surface sculpture, but it is possible that further work may resolve this taxonomic issue.

Assessment Information

Red List Category & Criteria: Data Deficient [ver 3.1](#)

Year Published: 2013

Date Assessed: September 30, 2010

Justification:

Bank *et al.* (2002) list the species as endemic to Madeira, where it is present at the eastern end only, and on the Desertas. However the taxonomic issues discussed in taxonomic notes, led Cameron and Cook (1999) and subsequent unpublished surveys (Cameron, pers. comm., 2010) and Seddon (2008) to conclude that only one species *Heterostoma paupercula* was present on Madeira and the Desertas. No conservation action are in place, but it requires further research to determine the status as a valid species. It is listed as Data Deficient (DD), but if considered a valid species then it is abundant in the grasslands and open sandy areas with no specific threats, so would become Least Concern.

Geographic Range

Range Description:

Bank *et al.* (2002) list the species as endemic to Madeira, where it is present at the eastern end only, and on the Desertas. However the taxonomic issues discussed in taxonomic notes, led Cameron and Cook (1999) and subsequent unpublished surveys (Cameron, pers. comm., 2010) and Seddon (2008) to conclude that only one species *Heterostoma paupercula* was present on Madeira and the Desertas.

Country Occurrence:

Native: Portugal (Madeira)

Population

If considered a valid species, then it is abundant in the grasslands and open sandy areas.

Current Population Trend: Stable

Habitat and Ecology (see Appendix for additional information)

If considered a valid species, then it is abundant in the grasslands and open sandy areas.

Systems: Terrestrial

Use and Trade

There is no known trade in the species.

Threats

If considered a valid species, then it is abundant in the grasslands and open sandy areas with no specific threats.

Conservation Actions

There are no conservation action in place, but it requires further research to determine the status as a valid species, then it is abundant in the grasslands and open sandy areas with no specific threats.

Credits

Assessor(s): Seddon, M.B.

Reviewer(s): Cameron, R., Groh, K., Cuttelod, A. & Neubert, E.

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Citation

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External Resources

For [Images and External Links to Additional Information](#), please see the Red List website.

Appendix

Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
4. Grassland -> 4.4. Grassland - Temperate	-	Suitable	Yes
13. Marine Coastal/Supratidal -> 13.3. Marine Coastal/Supratidal - Coastal Sand Dunes	-	Suitable	Yes

Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Research Needed
1. Research -> 1.1. Taxonomy

Additional Data Fields

Population
Population severely fragmented: No

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