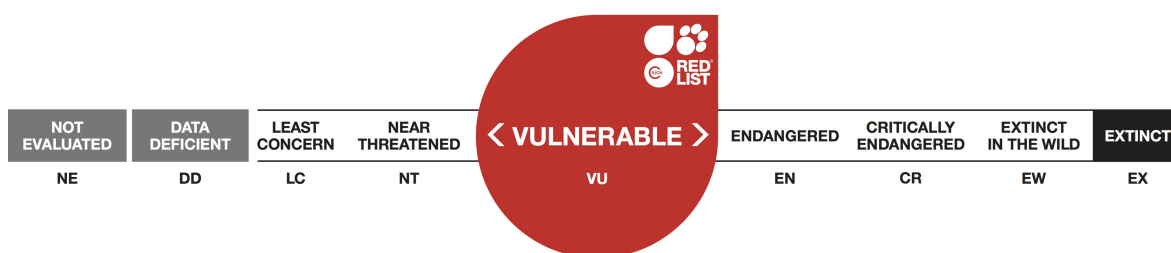


Leiostyla heterodon

Assessment by: Seddon, M.B.



View on www.iucnredlist.org

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Lauriidae

Taxon Name: *Leiostyla heterodon* (Pilsbry, 1923)

Taxonomic Notes:

This species was originally listed as a subspecies of *L. sphinctostoma*, but Waldén (1986, pers. comm) believed that the taxa merited specific status. Bank *et al.* (2002) treat this as a separate species in their checklist and Seddon (2008) also treated it as a distinct species.

Assessment Information

Red List Category & Criteria: Vulnerable D2 [ver 3.1](#)

Year Published: 2013

Date Assessed: September 30, 2010

Justification:

Seddon (2008) suggested that the species should be assessed as Vulnerable D2 (version 3.1). This species occurs at four sites with a known area of occupancy of under 16 km². Until recently there was no evidence of declining quality of habitat over the last 15 years, and the laurisilva forest and the summit areas in the centre of the island are protected. However, there was a severe fire in the region where this species is located in August 2010, and hence it is still considered Vulnerable D2, given these recent threats.

Previously Published Red List Assessments

1996 – Critically Endangered (CR)

1994 – Extinct? (Ex?)

Geographic Range

Range Description:

This species is found in central highlands of Madeira, where it is found at four closely localised sites (Seddon 2008).

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map



Leiostyla heterodon

Range
■ Extant (resident)

Compiled by:
 IUCN

NE DD LC NT < VU > EN CR EW EX
VULNERABLE



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.



Population

The species is rare. It is usually found in specialist surveys targeted at the species. Since the fire in August 2010, the status is uncertain (C. Abreu, pers. comm., 2010).

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species is found on rock ledges and on crags in the summit regions of Pico Arriero and Pico Ruivo.

Systems: Terrestrial

Use and Trade

This species is not used.

Threats (see Appendix for additional information)

Until recently, there was no evidence of declining quality of habitat over the previous 15 years, and the summit areas in the centre of the island are protected. However, there was a severe fire in the region where this species is located in August 2010, and surveys are needed to establish the impact on this species which lives on rock ledges and on crags, however, it is suspected that the species may have been impacted. Storms have also damaged the habitat of this species.

Conservation Actions (see Appendix for additional information)

Although the species range lies in a protected area, it does not prevent storm damage. Surveys are needed to establish the impact of the recent fires and storms on this species which lives on rock ledges and on crags.

Credits

Assessor(s): Seddon, M.B.

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

Bibliography

Bank, R.A., Groh, K. and Ripken, T.E. 2002. Catalogue and Bibliography of the non-marine Mollusca of Macronesia. In: M. Falkner, K. Grah and M.C.D. Speight (eds), *Collecteana Malacologica*, pp. 89-235.

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Citation

Seddon, M.B. 2013. *Leiostyla heterodon*. *The IUCN Red List of Threatened Species 2013*: e.T11472A3282280. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T11472A3282280.en>

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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?
0. Root -> 6. Rocky areas (eg. inland cliffs, mountain peaks)	-	Suitable	Yes

Threats

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

Threat	Timing	Scope	Severity	Impact Score
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.1. Increase in fire frequency/intensity	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		

Conservation Actions in Place

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

Conservation Actions in Place
In-Place Land/Water Protection and Management
Occur in at least one PA: Yes

Research Needed

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

Research Needed
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 16
Number of Locations: 4
Habitats and Ecology
Generation Length (years): 1-2

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