

Leiostyla cassidula, Madeiran Land Snail

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Lauriidae

Taxon Name: *Leiostyla cassidula* (R.T. Lowe, 1852)

Common Name(s):

- English: Madeiran Land Snail

Assessment Information

Red List Category & Criteria: Critically Endangered B2ab(iii) [ver 2.3](#)

Year Published: 2013

Date Assessed: August 31, 2010

Justification:

This species occurs at one site with a restricted area of occupancy of 4 km². The site is close to a road where declining quality of habitats is inferred and hence it meets the criteria for Critically Endangered (CR) B2ab(iii).

Geographic Range

Range Description:

This species is endemic to the Madeiran islands, the type locality was from the head of the Ribeira de Sta Luzia. It was recorded in recent surveys at a single site in central Madeira. It was previously recorded by Waldén (1983) from a single site, which is thought to be close to the current site.

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map

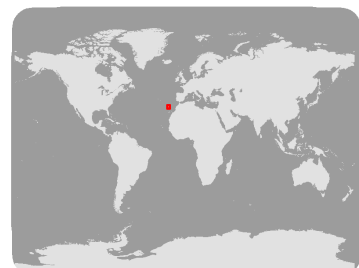


Leiostyla cassidula

Range
■ Extant (resident)

Compiled by:
 IUCN

NE	DD	LC	NT	VU	EN	< CR > CRITICALLY ENDANGERED	EW	EX
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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 not considered abundant, and there are very few recent records in recent surveys at the single site known in central Madeira. Therefore it is not possible to establish trends.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

Wollaston (1878) suggests it is in leaf-litter on rock ledges of large crags. However, Coles (pers. comm. 2008) found it on rock ledges in damp areas. Uncertain whether Wollaston (1878) recorded it from shaded crags within laurisilva forest, as past records suggest the known site at that time was wooded.

Systems: Terrestrial

Use and Trade

There is no known trade in this species.

Threats (see Appendix for additional information)

The site is close to a road where declining quality of habitats is inferred, as the road creates an area with pollution from run-off, and the species lives in damp habitats with leaf-litter, which would be vulnerable to seepage.

Conservation Actions

There are no known conservation actions for the species. Further survey work on the central habitats close to the last records, especially in remote ravines to determine if the species is still extant and if it has a wider range.

Credits

Assessor(s): Seddon, M.B.

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

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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?
1. Forest -> 1.4. Forest - Temperate	-	Unknown	-
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
4. Transportation & service corridors -> 4.1. Roads & railroads	Ongoing	Minority (50%)	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.2. Species disturbance		
9. Pollution -> 9.1. Domestic & urban waste water -> 9.1.2. Run-off	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.2. Species disturbance		

Research Needed

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

Research Needed
1. Research -> 1.2. Population size, distribution & trends
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 4
Number of Locations: 1
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

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