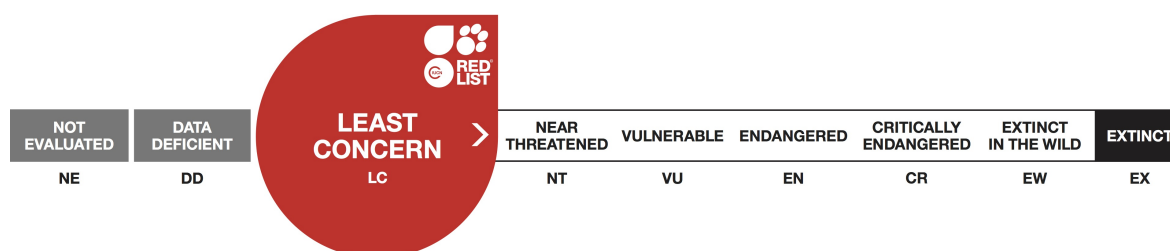


Hystricella echinulata

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: *Hystricella echinulata* (R.T. Lowe, 1852)

Synonym(s):

- *Discula echinulata*

Assessment Information

Red List Category & Criteria: Least Concern [ver 3.1](#)

Year Published: 2013

Date Assessed: August 31, 2010

Justification:

Seddon (2008) suggested the species should be listed as Near Threatened (version 3.1) as it meets the criteria Vulnerable B1b(iii) but not the number of localities (criterion B1a). This species has a total extent of occurrence of 16 km² with the main population at numerous sites on three hills in the eastern part of the island. The quantitative surveys undertaken in the late 1990s suggest that the populations are reasonably abundant in spite of the habitat quality that declined over the last thirty years following increased tourism and recreational activities, as well as changing in grazing practices. Hence the abundance of the species within its range and the presence of protected area status for part of the range suggest that, unless the number of sites or the habitat quality declines further, the species no longer meets the higher threat categories. Therefore, based on the new population data, this species is now considered as Least Concern (LC). It is noted that should the rate of change in habitat quality start to impact the species it would immediately qualify as a higher threat category.

Previously Published Red List Assessments

1996 – Vulnerable (VU)

1994 – Rare (R)

Geographic Range

Range Description:

This species is restricted to Porto Santo, where it is abundant on the mountains in the northeastern part of the island, around Pico Branco and Pico do Conçelho (Seddon 2008). The distribution seems to have been similar in Wollaston's time over 130 years ago (Seddon, pers. comm, 2010).

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map

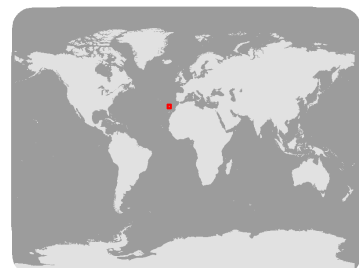


Hystricella echinulata

Range

■ Extant (resident)

Compiled by:
IUCN (International Union for Conservation of Nature)



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 quantitative surveys undertaken in the late 1990's (Cameron, pers. comm., 2010) suggests that the populations are reasonably abundant in spite of the habitat quality that declining over the last thirty years following increased tourism and recreational activities, as well as changing in grazing practices. There is no additional data on population trends, however the species is abundant within its range and believed to be stable (Seddon 2008).

Current Population Trend: Stable

Habitat and Ecology (see Appendix for additional information)

This species occurs under stones on grassland.

Systems: Terrestrial

Use and Trade

The species is not known to be utilised, although occasionally sold by shell collectors.

Threats (see Appendix for additional information)

The habitat quality has been declining over the last thirty years following changing land-use practice including increasing in tourist developments.

Conservation Actions

This species is widely distributed on eastern Porto Santo, so recommended conservation actions include management of the grassland areas for maintenance of this species and monitoring of the protected areas to ensure no loss of further habitat. Research actions include population monitoring and habitat monitoring, especially for the populations near to tourist facilities.

Credits

Assessor(s): Seddon, M.B.

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

Contributor(s): Abreu, C. & Teixeira, D.

Bibliography

Cameron, R.A.D., Cook, L.M. and Hallows, J.D. 1996. Land snails on Porto Santo: adaptive and non-adaptive radiation. *Philosophical Transactions of the Royal Society London, B* 351(1337): 309-327.

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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

Threats

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

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.3. Tourism & recreation areas	Ongoing	Majority (50-90%)	Slow, significant declines	Medium impact: 6
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		
6. Human intrusions & disturbance -> 6.1. Recreational activities	Ongoing	Majority (50-90%)	Slow, significant declines	Medium impact: 6
	Stresses:	2. Species Stresses -> 2.2. Species disturbance		

Research Needed

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

Research Needed
3. Monitoring -> 3.1. Population trends
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated extent of occurrence (EOO) (km ²): 10

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