Zingiber vinosum

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Liliopsida	Zingiberales	Zingiberaceae

Taxon Name: *Zingiber vinosum* Mood & Theilade

Assessment Information

Red List Category & Criteria: Endangered B1ab(iii)+2ab(iii) [ver 3.1](#)

Year Published: 2019

Date Assessed: March 14, 2019

Justification:

This species is endemic to Sabah (Malaysia) on Borneo and known from three georeferenced collections (ZRC 2019, Theilade and Mood 1997). The extent of occurrence (EOO) and area of occupancy (AOO) are small (84 and 12 km², respectively) and there is a decline in the quality of habitat. Although subpopulations in Danum Valley and Sepilok Forest Reserve may be protected, the majority of the land at the third location has been converted, suggesting a negative population trend. *Zingiber vinosum* is considered Endangered.

Geographic Range

Range Description:

This species is endemic to Sabah (Malaysia) on Borneo where it has been found in Sandakan District (Theilade and Mood 1997, Lamb *et al.* 2013, ZRC 2019). According to available georeferenced herbarium collections (ZRC 2019) the extent of occurrence (EOO) is 84 km² and the area of occupancy (AOO) 12 km².

Country Occurrence:

Native: Malaysia (Sabah)

Distribution Map

Zingiber vinosum

Range

- Extant (resident)

Compiled by:
ZRC

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 available herbarium collections are few, suggesting that the population is small. While the subpopulations in protected areas should stay conserved, it is likely that there is a general decline in population size in the rest of the extent of occurrence (EOO).

Current Population Trend: Decreasing

Habitat and Ecology (see Appendix for additional information)

This species has leafy shoots up to 1.25 m tall and has been found growing in wet areas of lowland primary forest (Theilade and Mood 1997, Lamb *et al.* 2013).

Systems: Terrestrial

Use and Trade

No available use or trade information.

Threats (see Appendix for additional information)

The forests of Borneo are under continuous threat of being logged and the land converted (WWF 2019), and lowland areas are especially at risk. The habitat at two of the three locations is intact, while land has been converted in the third (GFW 2019).

Conservation Actions (see Appendix for additional information)

The type was collected in Sepilok Forest Reserve (Lamb *et al.* 2013, Theilade and Mood 1997). The species is also known from Danum Valley Protection Forest Reserve (ZRC 2019, Protected Planet 2019). It has been recorded by BGCI (2019) to be grown at three *ex situ* sites.

Credits

Assessor(s): Mood, J., Theilade, I. & Olander, S.B.

Reviewer(s): Newman, M.F.

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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 -> 1.6. Forest - Subtropical/Tropical Moist Lowland	Resident	Suitable	-

Plant Growth Forms

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

Plant Growth Forms
Forb or Herb

Threats

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

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.1. Shifting agriculture	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 2. Species Stresses -> 2.1. Species mortality		
2. Agriculture & aquaculture -> 2.2. Wood & pulp plantations -> 2.2.3. Scale Unknown/Unrecorded	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 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

Conservation Actions Needed

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

Conservation Actions Needed
1. Land/water protection -> 1.1. Site/area protection
2. Land/water management -> 2.1. Site/area management

Research Needed

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

Research Needed
1. Research -> 1.2. Population size, distribution & trends
3. Monitoring -> 3.1. Population trends
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 12
Estimated extent of occurrence (EOO) (km ²): 84
Number of Locations: 3
Upper elevation limit (m): 200
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

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