Zingiber eborinum

Mood, J.; Theilade, Ida; Olander, S.B.

Published in:
The IUCN Red List of Threatened Species

DOI:
[10.2305/IUCN.UK.2019-3.RLTS.T117456649A124284712.en](https://doi.org/10.2305/IUCN.UK.2019-3.RLTS.T117456649A124284712.en)

Publication date:
2019

Document version
Publisher's PDF, also known as Version of record

Citation for published version (APA):
Mood, J., Theilade, I., & Olander, S. B. (2019). *Zingiber eborinum*. *The IUCN Red List of Threatened Species*, 2019, [e.T117456649A124284712]. <https://doi.org/10.2305/IUCN.UK.2019-3.RLTS.T117456649A124284712.en>

Zingiber eborinum

Assessment by: Mood, J., Theilade, I. & Olander, S.B.

View on www.iucnredlist.org

Citation: Mood, J., Theilade, I. & Olander, S.B. 2019. *Zingiber eborinum*. The IUCN Red List of Threatened Species 2019: e.T117456649A124284712. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T117456649A124284712.en>

Copyright: © 2019 International Union for Conservation of Nature and Natural Resources

Reproduction of this publication for educational or other non-commercial purposes is authorized without prior written permission from the copyright holder provided the source is fully acknowledged.

Reproduction of this publication for resale, reposting or other commercial purposes is prohibited without prior written permission from the copyright holder. For further details see [Terms of Use](#).

The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#). The IUCN Red List Partners are: [Arizona State University](#); [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); and [Zoological Society of London](#).

If you see any errors or have any questions or suggestions on what is shown in this document, please provide us with [feedback](#) so that we can correct or extend the information provided.

Taxonomy

Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Liliopsida	Zingiberales	Zingiberaceae

Taxon Name: *Zingiber eborinum* Mood & Theilade

Assessment Information

Red List Category & Criteria: Critically Endangered B2ab(iii) [ver 3.1](#)

Year Published: 2019

Date Assessed: February 27, 2019

Justification:

This species is only known from the type collection (Mood 432 SAN!) (ZRC 2019) and therefore hyper endemic to its type location; Paling-Paling in Sabah (Malaysia) on Borneo (Lamb *et al.* 2013). Land conversion has been observed in the area and the species is, by J. Mood (pers. comm. 2019), considered highly endangered. Without official protection the habitat conversion is likely to continue. *Zingiber eborinum* is therefore assessed as Critically Endangered.

Geographic Range

Range Description:

This species is hyper endemic to Paling-Paling Hills in Sabah (Lamb *et al.* 2013) and only known from the type collection (Mood 432 SAN!) (ZRC 2019).

Country Occurrence:

Native: Malaysia (Sabah)

Distribution Map

Zingiber eborinum

Range

- Extant (resident)

Compiled by:
ZRC

Population

The actual population size is unknown, but the species is considered rare (Lamb *et al.* 2013).

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This is a herb with leafy shoots to 0.75-1 m tall, only found in hill forest at lower altitudes (<300 m) (Lamb *et al.* 2013).

Systems: Terrestrial

Use and Trade

No available use or trade information.

Threats (see Appendix for additional information)

Forests of Borneo are under continuous threat of being logged and the land converted to e.g. palm oil plantations (WWF 2019). A lot of forests have been converted in the area where this species is known. Without official protection, land conversion is likely to continue.

Conservation Actions (see Appendix for additional information)

This species is not known from any protected area (ZRC 2019, Protected planet 2019). It has been recorded by BGCI (2019) to be grown at two *ex situ* sites.

Credits

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

Reviewer(s): Newman, M.F.

Bibliography

BGCI (Botanic Gardens Conservation International). 2019. PlantSearch online database. Richmond, UK Available at: www.bgci.org/plant_search.php. (Accessed: 2019).

IUCN. 2019. The IUCN Red List of Threatened Species. Version 2019-3. Available at: www.iucnredlist.org. (Accessed: 10 December 2019).

Lamb, A., Gobilik, J., Ardiyani, M. and Poulsen, A.D. 2013. *A Guide to Gingers of Borneo*. Natural History Publications (Borneo), Kota Kinabalu.

Protected Planet. 2019. Protected Planet: The World Database on Protected Areas (WDPA). Cambridge, UK Available at: www.protectedplanet.net. (Accessed: 2019).

WWF (World Wildlife Fund). 2019. Threats to Borneo Forests. Available at: http://www.panda.org/knowledge_hub/where_we_work/borneo_forests/borneo_deforestation/.

ZRC. 2019. Zingiberaceae Resource Centre. Available at: <http://padme.rbge.org.uk/ZRC/welcome>.

Citation

Mood, J., Theilade, I. & Olander, S.B. 2019. *Zingiber eborinum*. The IUCN Red List of Threatened Species 2019: e.T117456649A124284712. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T117456649A124284712.en>

Disclaimer

To make use of this information, please check the [Terms of Use](#).

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
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 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
2. Agriculture & aquaculture -> 2.2. 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		
5. Biological resource use -> 5.3. Logging & wood harvesting -> 5.3.3. Unintentional effects: (subsistence/small scale) [harvest]	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		

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: No

Conservation Actions Needed

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

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

Research Needed

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

Research Needed
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.5. Threats
3. Monitoring -> 3.1. Population trends
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 4
Number of Locations: 1
Upper elevation limit (m): 300
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

The IUCN Red List Partnership

The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#).

The IUCN Red List Partners are: [Arizona State University](#); [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); and [Zoological Society of London](#).