

Derris acuminata

LC

Taxonomic Authority: Benth.

Global Assessment Regional Assessment

Region: Global

Endemic to region

Synonyms

Derris microptera Benth.

Common Names

Upper Level Taxonomy

Kingdom: PLANTAE

Phylum: TRACHEOPHYTA

Class: MAGNOLIOPSIDA

Order: FABALES

Family: LEGUMINOSAE

Lower Level Taxonomy

Rank:

Infra- rank name:

Plant Hybrid

Subpopulation:

Authority:

Derris microptera Benth was previously treated as a separate species by Bentham (1860) and Baker (1879), and Thothathri (1976) thought there was enough evidence to treat D.acuminata and D.microptera as separate species. However, Thothathri (1982) treats D.microptera as a synonym of D.acuminata, Kumar and Sane (2003) treat it as a synonym of D. Acuminata var. acuminata. Kumar and Sane (2003) also recognise D.acuminata var. sikkimensis.

General Information

Distribution

This species is found in Sikkim, West Bengal, Meghalaya, Assam and Arunachal Pradesh in India (Thothathri 1961, Kumar and Sane 2003), Bhutan and Nepal.

Range Size

Area of Occupancy:

Extent of Occurrence:

Map Status:

Elevation

Upper limit: 1700

Lower limit: 1000

Depth

Upper limit:

Lower limit:

Depth Zones

Shallow photic Bathyl Hadal

Photic Abyssal

Biogeographic Realm

Afrotropical

Antarctic

Australasian

Neotropical

Oceanian

Palearctic

Indomalayan

Nearctic

Population

No population data is available for this species. The most recent herbarium record found is dated 1997.

Total Population Size

Minimum Population Size:

Maximum Population Size:

Habitat and Ecology

This is a perennial, often climbing, shrub. It is found in broad-leaved forests.

System		Movement pattern			Crop Wild Relative
<input checked="" type="checkbox"/> Terrestrial	<input type="checkbox"/> Freshwater	<input type="checkbox"/> Nomadic	<input type="checkbox"/> Congregatory/Dispersive	<input type="checkbox"/> Is the species a wild relative of a crop?	
	<input type="checkbox"/> Marine	<input type="checkbox"/> Migratory	<input type="checkbox"/> Altitudinally migrant		

Growth Form	Definition
Shrub - size unkno	Perennial shrub (any size), also termed a Phanerophyte if >1m or a Chamaephyte if <1m
Vines	Vines, lianas and creepers

Threats

This species has the general threats associated with expanding human populations, for example agricultural encroachment and forest clearance. Dams and hydroelectric power projects are a threat to habitats in Sikkim. Tea estates are known to predominate in at least one former locality in West Bengal (Sanjappa pers com. 2011).

	Past	Present	Future
1 Habitat Loss/Degradation (human induced)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1 Agriculture	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3 Extraction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.3 Wood	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Conservation Measures

No specific conservation measures are in place for this species. There are protected areas within the range of this species, such as the Singalila National Park, West Bengal. Further research is needed into the ecology, habitat status and population trends of this species to determine its conservation needs. It was not found in available lists of seed bank or botanic garden species.

	In Place	Needed
3 Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.2 Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.3 Biology and Ecology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.4 Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.5 Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.9 Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4 Habitat and site-based actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.4 Protected areas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.4.1 Identification of new protected areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4.4 Expansion	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5 Species-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.7 Ex situ conservation actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Countries of Occurrence

	PRESENCE							ORIGIN				
	Year Round	Breeding Season only	Non-breeding season only	Passage migrant	Possibly extinct	Extinct	Presence uncertain	Native	Introduced	Re-Introduced	Vagrant	Origin uncertain
Bhutan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

India	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arunachal Pradesh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meghalaya	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sikkim	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
West Bengal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Myanmar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Myanmar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nepal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

General Habitats

	Score	Description	Major Importance
1 Forest	1	Suitable	Unset
1.9 Forest - Subtropical/Tropical Moist Montane	1	Suitable	Unset
3 Shrubland	1	Suitable	Unset
3.7 Shrubland - Subtropical/Tropical High Altitude	1	Suitable	Unset

Ecosystem Services

- Insufficient Information available Species provides no ecosystem services

Species Utilisation

- Species is not utilised at all

Purpose / Type of Use

	Subsistence	National	International
4. Poisons	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This plant is used as a fish poison by tribal communities of Arunachal Pradesh (Gangwar & Ramakrishnan 1990).

Trend in the level of wild offtake/harvest in relation to total wild population numbers over the last five years:

Trend in the amount of offtake/harvest produced through domestication/cultivation over the last five years:

CITES status: Not listed

IUCN Red Listing

Red List Assessment: (using 2001 IUCN system) Least Concern (LC)

Red List Criteria:

Date Last Seen (only for EX, EW or Possibly EX species):

Is the species Possibly Extinct? Possibly Extinct Candidate?

Rationale for the Red List Assessment

The extent of occurrence (EOO) for this species exceeds the threshold for a threatened category. There is little information about the habitat requirements or information about the current population status of this species. There is continuing habitat loss in parts of its range, but in other area, such as Bhutan, habitat remains. It is assessed as Least Concern (LC). However, research is recommended to confirm its geographic range, habitat, threats and the current population status and trends.

Reason(s) for Change in Red List Category from the Previous Assessment:

- Genuine Change
 - Genuine (recent)
 - Genuine (since first assessment)
- Nongenuine Change
 - New information
 - Taxonomy
 - Criteria Revisio
 - Other
 - Knowledge of Criteria
 - Incorrect data used previously
- No Change
 - Same category and criteria
 - Same category but change in criteria

Current Population Trend: Unknown

Date of Assessment: 06/09/2010

Name(s) of the Assessor(s): H.Chadburn

Evaluator(s):

Notes:

% population decline in the past:

Time period over which the past decline has been measured for applying Criterion A or C1 (in years or generations):

% population decline in the future:

Time period over which the future decline has been measured for applying Criterion A or C1 (in years or generations):

Number of Locations:

Severely Fragmented:

Number of Mature Individuals:

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