

# Abarema curvicarpa

LC

Taxonomic Authority: (H.S.Irwin) Barneby & J.W.Grimes

Global Assessment  Regional Assessment

Region: Global

Endemic to region

## Synonyms

Pithecellobium curvic H.S. Irwin

## Common Names

ORELHA DE NEGRO Portuguese

## Upper Level Taxonomy

Kingdom: PLANTAE

Phylum: TRACHEOPHYTA

Class: MAGNOLIOPSIDA

Order: FABALES

Family: LEGUMINOSAE

## Lower Level Taxonomy

Rank:

Infra- rank name:

Plant Hybrid

Subpopulation:

Authority:

Most species of Abarema were at one time or another placed in Pithecellobium.

## General Information

### Distribution

This species is reported to occur in Brazil, French Guiana, Suriname and Guyana.

### Range Size

Area of Occupancy:

Extent of Occurrence: 112900

Map Status:

### Elevation

Upper limit: 357

Lower limit: 56

### Depth

Upper limit:

Lower limit:

### Depth Zones

Shallow photic  Bathyl  Hadal

Photic  Abyssal

### Biogeographic Realm

Afrotropical

Antarctic

Australasian

Neotropical

Oceanian

Palearctic

Indomalayan

Nearctic

### Population

The actual size and dynamic of species is unknown. However there are some notes in the literature concerning the frequency of the species: 'Common but scattered' (Scott et al 2002), 'Rare' (Irwin 1966).

### Total Population Size

Minimum Population Size:

Maximum Population Size:

### Habitat and Ecology

This taxon is known to occur in nonflooded forest (Scott et al 2002) and mixed forest, on river banks and near swamps (Irwin 1966). The taxon is known from specimen data to occur with in the following ecoregions: Guianan Moist Forests; Guianan Freshwater swamp forests; Uatuma-Trombetas moist Forests; Marajo-varzea forests and Amazon-Orinoco-Southern Caribbean mangroves.

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	

### Life History

Age at Maturity	Female:	Units for Age:
	Male:	
Size at Maturity (in cm)	Female:	
	Male:	
Longevity:		Units for Longevity:
Average Reproductive Age:		Units for Reproductive Age:
Maximum Size (in cm):		
Size at Birth (in cm):		
Gestation Time:		Units for Gestation:
Generation Length:		
Justification:		
Reproductive Periodicity:		Average Annual Fecundity or Litter Size:
Annual Rate of Population Increase:		Annual Rate of Population Increase:
Natural Mortality:		

Growth From	Definition
Tree - large	Large tree, also termed a Phanerophyte (>1m)

### Threats

There are not any documented major threats to the species nor the pristine forest in which it occurs especially in French Guiana (FAO 2005). However, there are some concerns about a road project in French Guiana which will link Cayenne to Saül and bring changes to the primary forest (Mori & Granville 1997). In addition, despite the fact that the deforestation rate in French Guiana is very low (FAO 2005), timber extraction and subsistence agriculture are increasing.

	Past	Present	Future
1 Habitat Loss/Degradation (human induced)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3 Extraction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3.3 Wood	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3.3.1 Small-scale subsistence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4 Infrastructure development	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.5 Transport - water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10 Human disturbance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.4 Transport	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Conservation Measures

The species occurs in areas that are protected. According to the World Database on Protected Areas (WDPA), the species specimens were located in:

- (1) Parc Regional de Guyana
- (2) Reserve naturelle de la Trinite
- (3) Region de Saul Biotope
- (4) Reserve naturelle des Marais de Kaw
- (5) Reserve naturelle des Nouragues

	In Place	Needed
1 Policy-based actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2 Legislation	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.2.2 Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.1 International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Research actions	<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 type="checkbox"/>
4.4 Protected areas	<input checked="" type="checkbox"/>	<input 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"/>
5.7.2 Genome resource bank	<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
Brazil	<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"/>
Acre	<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"/>
Amazonas	<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"/>
Bahia	<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"/>
Mato Grosso	<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"/>
Mato Grosso do Sul	<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"/>
Minas Gerais	<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"/>
Pernambuco	<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"/>
Rio de Janeiro	<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"/>
Rio Grande do Norte	<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"/>
Roraima	<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"/>
Santa Catarina	<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"/>
French Guiana	<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"/>
Guyana	<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"/>
Suriname	<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
1.6 Forest - Subtropical/Tropical Moist Lowland	1	Suitable	Unset
1.8 Forest - Subtropical/Tropical Swamp	1	Suitable	Unset
12 Marine Intertidal	9	Possible	Not applicable
12.7 Marine Intertidal - Mangrove Submerged Roots	9	Possible	Not applicable

## Ecosystem Services

- Insufficient Information available       Species provides no ecosystem services

## Species Utilisation

- Species is not utilised at all

Trend in the level of wild offtake/harvest in relation to total wild population numbers over the last five years: Unknown  
Trend in the amount of offtake/harvest produced through domestication/cultivation over the last five years: Unknown  
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 species is mostly found in French Guiana in a large range of elevation (56-357m). The range is within an area of mostly low human impact. In addition, 15.4% of French Guiana is protected under IUCN categories I-V and the deforestation rate of the country, between 2000 and 2005, was 0% (FAO 2005). Lastly, the species extent of occurrence is 112,900 km<sup>2</sup> (> 20 000 km<sup>2</sup>). The species does not meet any of the IUCN red list criteria and thus it is assessed as Least Concern.

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: Stable

Date of Assessment: 04/07/2010

Name(s) of the Assessor(s): Groom, A.

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:

### Bibliography

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