

Senna artemisioides

LC

Taxonomic Authority: (Gaudich. ex DC.) Randell

Global Assessment Regional Assessment

Region: Global

Endemic to region

Synonyms

Cassia artemisioides DC.
Cassia canaliculata R.Br.
Cassia desolata F.Muell.
Cassia eremophila A.Cunn. ex Vogel
Cassia helmsii Symon
Cassia nemophila Vogel
Cassia oligophylla F.Muell.
Cassia oligophylla va Symon
Cassia phyllodinea R.Br.
Cassia platypoda R.Br.
Cassia sturtii R.Br.
Cassia sturtii var. inv J.Black
Cassia sturtii var. pla J.Black
Cassia sturtii var. to Benth.
Cassia teretifolia A.Cunn. ex Lindl.
Cassia teretiuscula F.Muell.
Cassia zygophylla Benth.

Common Names

BURNT-LEAVED ACACIA English
DESERT ACACIA English
GREY ACACIA English
LIMESTONE ACACIA English
PUNTY ACACIA English
SILVER ACACIA English
WOODY ACACIA English

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 Australian "cassias" occur in large and variable populations that integrate into hybrid swarms maintained by asexual and sexual reproduction. This makes it difficult to separate them into species. There are two ways of dealing with this: one way reduces the number of variants formerly regarded as separate species into subspecies of two widespread species, one of which is *Senna artemisioides*. The other way, is to treat the hybrid forms into "form taxa", where separation is based on appearance but taxonomic rank is not defined. For the purposes of assessing this species we have chosen the first approach. In which case *S. artemisioides* includes the following: *S. artemisioides* ssp. *alicia*, nothosp. *artemisioides* (Silver Acacia), nothosp. *coriacea* (Desert Acacia), ssp. *filifolia* (Desert Acacia), ssp. *helmsii* (Burnt-leaved Acacia), ssp. *oligophylla* (Limestone Acacia), ssp. *petiolaris* (Woody Acacia), nothosp. *sturtii* (Grey Acacia) and ssp. *zygophylla* (Punty Acacia) (Moore 2005).

General Information

Distribution

Senna artemisioides is endemic to Australia, distributed across all mainland states throughout arid habitats.

Range Size

Area of Occupancy:

Extent of Occurrence:

Map Status:

Elevation

Upper limit: 950

Lower limit:

Depth

Upper limit:

Lower limit:

Biogeographic Realm

Afrotropical

Antarctic

Australasian

Neotropical

Oceanian

Depth Zones

- Shallow photic Bathyl Hadal
 Photic Abyssal

- Palearctic
 Indomalayan
 Nearctic

Population

Total population size is not known but it is known to be a common species.

Total Population Size

Minimum Population Size: Maximum Population Size:

Habitat and Ecology

This shrub up to three metres tall grows in arid habitats from rocky hillsides to deep desert sands on a variety of soils.

System

- Terrestrial Freshwater
 Marine

Movement pattern

- Nomadic Congregatory/Dispersive
 Migratory Altitudinally migrant

Crop Wild Relative

- Is the species a wild relative of a crop?

Growth From

Definition

Shrub - large Perennial shrub (>1m), also termed a Phanerophyte (>1m)

Threats

There are no major threats known to this species.

	<u>Past</u>	<u>Present</u>	<u>Future</u>
13 None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Conservation Measures

Across its range it is known to occur within protected areas. This species is not listed as Threatened in the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). Seeds have been collected as part of the Millennium Seed Bank Project. Seeds are located at: Wakehurst Place, Royal Botanic Gardens, Kew (UK), University of Queensland, Kings Park and Botanic Garden and Seed Conservation Centre, Adelaide Botanic Garden (Australia).

	<u>In Place</u>	<u>Needed</u>
3 Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.1 Taxonomy	<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"/>
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 checked="" type="checkbox"/>	<input type="checkbox"/>
5.7 Ex situ conservation actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.7.2 Genome resource bank	<input checked="" type="checkbox"/>	<input 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
Australia	<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"/>
Australian Capital Territory	<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"/>
New South Wales	<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"/>
Northern Territory	<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"/>
Queensland	<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"/>
South Australia	<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"/>
Victoria	<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"/>
Western Australia	<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"/>

<u>General Habitats</u>	<u>Score</u>	<u>Description</u>	<u>Major Importance</u>
2 Savanna	1	Suitable	Unset
2.1 Savanna - Dry	1	Suitable	Unset
3 Shrubland	1	Suitable	Unset
3.8 Shrubland - Mediterranean-type Shrubby Vegetation	1	Suitable	Unset
6 Rocky areas (eg. inland cliffs, mountain peaks)	1	Suitable	Unset
8 Desert	1	Suitable	Unset
8.2 Desert - Temperate	1	Suitable	Unset

Species Utilisation

Species is not utilised at all

<u>Purpose / Type of Use</u>	<u>Subsistence</u>	<u>National</u>	<u>International</u>
17. Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

S. artemisioides is listed as Least Concern in view of its wide distribution through arid habitats across mainland Australia, also for the fact that it is known to occur in protected areas across its range and there are no known major threats to the species. It is recommended that further research is carried out to better delimit this complex group of hybrid swarms.

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

- Genuine Change
 - Genuine (recent)
 - Genuine (since first assessment)

- Nongenuine Change
 - New information
 - 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: 27/07/2011

Name(s) of the Assessor(s): Malcolm, P.

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

Commonwealth of Australia, 1999, Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) 10 June 2010, , ,

Moore, P., 2005, A guide to plants of inland Australia, , Reed New Holland, Sydney

Randell, B.R. and Barlow, B.A., 1998, Senna, Flora of Australia Volume 12, Mimosaceae (excl. Acacia), Caesalpinaceae, A.E. Orchard and P.M. McCarthy, , ,