Gastrolobium bre	evipes		
Taxonomic Authority: Crisp ☑ Global Assessment □ Region	onal Assessment	Region: Global	Endemic to region
Upper Level Taxonomy Kingdom: PLANTAE Class: MAGNOLIOPSIDA Family: LEGUMINOSAE Lower Level Taxonomy Rank:		Phylum: TRACHEOL Order: FABALES	PHYTA
Subpopulation:		Authority:	
General Information			
Distribution Gastrolobium brevipes is endemic chiefly in the George Gill and Macl			stralia and also in the Northern Territory,
Range Size	Elevation		Biogeographic Realm
Area of Occupancy: Extent of Occurrence:	Upper limit: Lower limit:	1100 500	Afrotropical Antarctic
Map Status:	Depth Upper limit: Lower limit: Depth Zone Shallow Photic		Australasian Austr
Population			
Total population size is not known	but it was recently collected	d in 2008.	
Total Population Size			
Minimum Population Size:	Maximum Population	on Size:	
Habitat and Ecology			
An erect shrub that grows in dune in heath, mallee or open woodland			andy, gravelly or rocky soils. It grows mostly stock.
System	Movement pattern		Crop Wild Relative
Terrestrial Freshwater Marine		gregatory/Dispersive udinally migrant	☐ Is the species a wild relative of a crop?

Growth From	Definition
Shrub - Iarge	Perennial shrub (>1m), also termed a Phanerophyte (>1m)

### **Threats**

There are no major threats known to this species. This genus is highly toxic to stock which led to an eradication program in the wheat-belt region in Western Australia. Also in agricultural areas, fertilisers and herbicides greatly affected the species of this genus, by changing the nutrients in the soils and impeeding seed germination respectively. However, in central Australia where this species occurs there is no pressure on the natural habitat from agriculture (National Land and Water Resources Audit theme assessments 2000).

	<u>Past</u>	Present	Future
13 None	$\checkmark$	$\checkmark$	

#### **Conservation Measures**

Across its range, several populations of this species occur within protected areas. Most notably known from Ngaanyatjarra Lands Indigenous Protected Area, Uluru-Kata Tjuta, Watarrka and West MacDonnell National Parks. This species is not listed as Threatened in the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). It is recommended that the seeds of this species are banked as an ex situ conservation measure.

	In Place	Needed
4 Habitat and site-based actions	$\checkmark$	
4.4 Protected areas	$\checkmark$	
5 Species-based actions		$\checkmark$
5.7 Ex situ conservation actions		$\checkmark$
5.7.2 Genome resource bank		$\checkmark$

### Countries of Occurrence

		PRESENCE				ORIGIN					
	Year Round			i migrant		Presence uncertain	Native	Introduced Ir	Re- htroduc	Vagrant ced	Origin uncertain
Australia	V						$\checkmark$				
Northern Territory	$\checkmark$						$\checkmark$				
Western Australia	$\checkmark$						$\checkmark$				

General Habitats	<u>Score</u>	Description	<u>Major</u> Importance
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
8 Desert	1	Suitable	Unset
8.2 Desert - Temperate	1	Suitable	Unset

## **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:

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?	
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### Rationale for the Red List Assessment

G. brevipens is listed as Least Concern in view that is it fairly wide distribution in central Australia. Also for the fact that it is known to occur within protected areas. Based on the extent of ocurrence (~80,000 km2) it may warrant the rating of Near Threatened, however, there are no known major threats to this species. Furthermore, this species is highly toxic to stock. It is recommended that its seeds are banked as an ex situ conservation measure.

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

Genuine Change	Nongenuine Change	_	No Change
Genuine (recent) Genuine (since first assessment)	<ul> <li>New information</li> <li>Knowledge of Criteria</li> <li>Incorrect data used previously</li> </ul>	Taxonomy     Criteria Revisio     Other	<ul> <li>Same category and criteria</li> <li>Same category but change in criteria</li> </ul>
Current Population Trend: Stable		Date of Assessment:	28/07/2010
Name(s) of the Assessor(s): Malcolm, P.			
Evaluator(s):			
Notes:			
% population decline in the past:			
Time period over which the past decline h applying Criterion A or C1 (in years or gen			
% population decline in the future:			
Time period over which the future decline applying Criterion A or C1 (in years or gen			
Number of Locations:	Sever	ely Fragmented:	
Number of Mature Individuals:			

### **Bibliography**

Chandler, G.R., Crisp, M.D., Cayzer, L.W. Bayer, R.J., 2002, Monograph of Gastrolobium (Fabaceae: Mirbelieae)., Australian Systematic Botany5, 619-739, ,

Commonwealth of Australia, 1999, Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)10 June 2010, , , National Land and Water Resources Audit theme assessments, 2000, Biodiversity Assessment, Commonwealth of Australia, , ,