

Title	Gundabooka National Park and State Conservation Area Vegetation 2021 VIS_ID 5108
Alternative title(s)	GundabookaVeg2021_VIS5108
Abstract	<p>Eco Logical Australia was commissioned by the NSW Parks and Wildlife Service and the NSW Department of Planning, Industry and Environment to undertake vegetation survey, analysis and mapping of Gundabooka National Park and State Conservation Area. Gundabooka National Park and State Conservation Area is of special significance to the Aboriginal people of western NSW and is the traditional lands of the Ngemba and Paakandji people who have strong cultural links to the area. The Gundabooka Range was a vital resource for Aboriginal people during dry periods, with creeks in the range being one of the few locations on the Cobar Peneplain that provide water during times of drought. Gundabooka National Park and State Conservation Area are located in north western New South Wales 50 km south west of Bourke and just south of the Darling River, covering an area of 90,473 hectares within the Cobar Peneplain and Darling Riverine Plains bioregions. Prior to gazettal in 1996, Gundabooka National Park consisted of three pastoral stations: Belah, Ben Lomond and Mulgowan Stations. In 2006 the nearby Yanda Station was gazetted and became the Gundabooka State Conservation Area. This project reviews and expands upon existing data and mapping and aligns vegetation communities with the current state-wide Plant Community Type classification through the collection of strategic data on floristic and structural diversity. Existing vegetation surveys and mapping were reviewed and supplemented with over 240 rapid data points. Vegetation community mapping was undertaken at a scale of between 1:5,000 and 1:25,000 using a range of datasets. Development of vegetation community linework and attribution of Plant Community Types was undertaken in three dimensions using high resolution stereo ADS40 imagery. The final mapped product is considered accurate at a 1:25,000 scale. A total of 410 species from 76 plant families were recorded, of which 8% were exotic (one being a priority weed). Four threatened plant species are now known to occur, with new localities identified for <i>Pterostylis cobarensis</i> and <i>Lepidium monoplocoides</i>. A total of 35 unique vegetation communities (totalling 89,210 hectares) were mapped and described. These 35 vegetation communities are equivalent to 25 Plant Community Types. The vast majority of vegetation falls within the Semi-Arid Woodlands and Arid Shrublands Vegetation Formations. One Threatened Ecological Community, namely Coolibah-Black Box Woodland was mapped across three Plant Community Types on the floodplains of the Darling River. A range of management considerations are discussed including: grazing pressure from feral animals; erosion and loss of topsoil; inappropriate fire regimes; priority and environmental weeds; historical clearing and land degradation; and extensive Eucalypt dieback.</p> <p>VIS_ID 5108</p>
Resource locator	
Data Quality Statement: Gundabooka National Park and State Conservation Area Vegetation 2021 VIS_ID 5108	<p>Name: Data Quality Statement: Gundabooka National Park and State Conservation Area Vegetation 2021 VIS_ID 5108</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data Quality Statement</p> <p>Function: download</p>
Report	<p>Name: Report</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Gundabooka Veg Report 2021</p> <p>Function: download</p>
Download Package	<p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p>

Data (Shapefile)

Function: download

Unique resource identifier

Code 007b5124-17d8-4b73-bc47-7892abc77832

Presentation form Map digital

Edition 1

Dataset language English

Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/007b5124-17d8-4b73-bc47-7892abc77832>

Purpose Park and fire management

Status Completed

Spatial representation

Type vector

Geometric Object Type surface

Geometric Object Count 1918

Spatial reference system

Code identifying the spatial reference system 4283

Spatial resolution 10 m

Additional information source

The following recommendations have been developed:

- Conduct detailed research into the fire ecology of each PCT including recent and likely historic fire regimes as well as sensitive species to better inform fire management requirements.
- Review and update relevant fire management plans taking into consideration the minimum fire intervals, mosaic cultural burning practises, the adequacy of existing trail networks, management of fire in long unburnt shrublands and woodlands and consideration of impacts to conservation significant species.
- Control priority and environmental weeds.
- Control feral animals including goats, rabbits and pigs.
- Undertake erosion control works in identified areas to mitigate against continual erosion and landscape degradation.
- Undertake an investigation into Eucalypt dieback to ascertain root causes and potential controls which could be implemented to ensure positive ecosystem recovery.
- Undertake restoration works in areas disturbed as a result of historical agricultural practices (e.g. holding yards)
- Establish a biodiversity monitoring program to measure change as a result of positive environmental actions being undertaken in the reserve (e.g. weed and feral control, erosion control works, cultural burning) as well as any adverse effects of climate change (increase fire risk, less frequent rainfall, increased storms, less frequent flooding in riparian zones etc.)
- Undertake spring surveys for rare and threatened species including orchids in areas of

Topic category	
Keyword set	
keyword value	FLORA-Native VEGETATION-Floristic
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	145.472717
East bounding longitude	145.950623
North bounding latitude	-30.727671
South bounding latitude	-30.232968
NSW Place Name	Near Bourke, NSW
Vertical extent information	
Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
Temporal extent	
Begin position	2021-03-08
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Unknown
Contact info	
Contact position	Data Broker
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Responsible party role	pointOfContact

Lineage The reserve includes Gundabooka National Park and Gundabooka State Conservation Area. Prior to gazettal in 1996 Gundabooka National Park consisted of three pastoral stations: Belah, Ben Lomond and Mulgowan Stations (Westbrook, et al., 2005). In 2006 the nearby Yanda Station was gazetted and became the Gundabooka State Conservation Area (NPWS, 2005). The reserve sits within the Western Local Land Service (LLS) area, which conforms to the Bourke Shire Council Local Government Area (LGA). The reserve is of special significance to the Aboriginal people of western NSW and is the traditional lands of the Ngemba and Paakandji people who have strong cultural links to the area (NPWS, 2005). The Gundabooka Range was a vital resource for Aboriginal people during dry periods, with creeks in the range being one of the few locations on the Cobar Peneplain that provide water during times of drought (NPWS, 2005). The Gundabooka Range and adjoining Yanda Creek were used as part of an extensive travel network linking the mountain with creeks, waterholes and the Darling River (NPWS, 2005). Important physical archaeological evidence in the form of art sites, stone quarries, open camp sites and scarred trees survives in the reserve, with important rock art sites listed on the Register of the National Estate (NPWS, 2005). Aboriginal people were displaced by European settlers who grazed the reserve as part of four separate pastoral leases 'Ben Lomond', 'Belah', 'Mulgowan' and 'Yanda'. These leases were subdivisions of larger leases which date from the early 1900s, with grazing of sheep and cattle being the main land use since the mid-19th century (NPWS, 2005). Since the gazettal of Gundabooka National Park (comprising the former pastoral leases 'Ben Lomond' and 'Belah') in 1996, the reserve was expanded to include the former pastoral lease 'Mulgowan' in 2002. More recently Gundabooka State Conservation Area (comprising the former pastoral lease 'Yanda') was gazetted in 2005. A major feature of the reserve is the Gunderbooka Range (500 m) that dramatically rises from the southern end of the reserve and is strikingly contrasted against the flat riverine plains found in the rest of the reserve (120-140 m). Within the reserve are four ephemeral creeks (Yanda, Gundabooka, Mulareenya and Ben Lomond Gorge) that flow following major rainfall events (Westbrook, et al., 2005). Vegetation surveys and mapping have previously been undertaken across the reserve on behalf of the NSW NPWS in 2005 (Westbrook, et al., 2005). Prior to these surveys little botanical data for the reserve existed. Twenty-one vegetation communities were identified and mapped, the most widespread being *Eucalyptus populnea*/*Acacia aneura*/*Acacia excelsa* open woodland and *Acacia aneura* tall shrubland (Westbrook, et al., 2005). A full list of the vegetation communities described by Westbrook et al. (2005) is located in Appendix A. A State Vegetation Type Map for the Western Region in NSW was produced by DPIE in 2019 at a scale of 1:25,000 using the best available imagery, site survey records and environmental information (DPIE, 2019). Thirty eight PCTs were identified in the reserve, the most widespread being 'Poplar Box - Mulga - Ironwood woodland on red loam soils on plains in the Cobar Peneplain Bioregion and north-eastern Mulga Lands Bioregion' (PCT 109: 55,149 ha) and 'Mulga - Ironwood shrubland on loams and clays mainly of the Cobar Peneplain Bioregion' (PCT 125: 15,951 ha). A full list of the PCTs mapped within the reserve is located in Appendix B. Westbrook, et al. (2005) reported that there has been a loss of perennial tussock grasses in the reserve due to its pastoral history and increased grazing by introduced and native herbivores. The reserve is isolated from other protected areas and is largely surrounded by pastoral lands. Three species of conservation significance have been recorded in the reserve prior to this survey, including *Acacia curranii*, *Pterostylis cobarensis* and *Oldenlandia galioides*.

Limitations on public access

Responsible party

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Responsible party role	pointOfContact

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