## Introduction

Biodiversity Response Planning (BRP) is a long-term area-based planning approach to biodiversity conservation in Victoria. It is designed to strengthen alignment, engagement and participation between government, Traditional Owners, non-government agencies and the community.

DELWP Regional staff have been working with stakeholders on actions to conserve biodiversity in specific landscapes, informed by the best available science and local knowledge.

These Fact Sheets capture a point in time, reflecting data and knowledge available in 2020. They provide information for many (but not all) landscapes across Victoria, containing general information on the key values and threats in each area, as well as the priority cost-effective actions that provide the best protection of biodiversity. Fact Sheets are intended to provide useful biodiversity information for the community, non-government and government organisations during project planning and development.

Further information and the [full list of Fact Sheets](http://www.environment.vic.gov.au/biodiversity/working-together-for-biodiversity) is available on the Department’s Environment website.

## Landscape description

This 45,537ha landscape is situated west/south west of Bendigo with 58% of the landscape covered by native vegetation. Public land makes up 31% of the landscape and includes Myers Flat State Forest, Bendigo Regional Park, and Shelbourne Nature Conservation Reserve to the west and Greater Bendigo National Park (NP) and Sedgwick State Forest to the south. Refer to the map at the end of this Fact Sheet.

This landscape has an overlap with the Dja Dja Wurrung Clans Aboriginal Corporation RSA landscape. For more information, please refer to this Fact Sheet in the [full list of Fact Sheets](http://www.environment.vic.gov.au/biodiversity/working-together-for-biodiversity).

## Cultural importance

We recognise that the entire landscape has high cultural value for Traditional Owners. Landscapes identified as having “notable” cultural importance is based on the density of recorded cultural heritage sites and knowledge shared by Traditional Owners. We also recognise that there are locations important to Traditional Owners not within these landscapes.

## Stakeholder interest

As part of the BRP process, in October 2020 stakeholders were asked to nominate focus landscapes and actions of interest. City of Greater Bendigo, DELWP (Public Land), Coliban Water, and Dja Dja Wurrung all nominated Mid Loddon.

Possible future investment/project development in this landscape will be available to any interested stakeholders in addition to those who nominated this landscape.

|  |
| --- |
| 0BEcological values identified by Traditional Owners, partners and community within this landscape |
| Revegetation of Djandak with:   * Buwatji (grasses used for grain) * Witji (weaving grasses) * Gatjawil Matorm (tuberous plants with scented flowers) * Murnang (Yam Daisies) including Kangaroo grass, Lomandra and Dianella species, Chocolate Lily, Vanilla Lily, Bulbine Lily and Yam Daisy |
| Wi (cultural fire) authorised and lead by Dja Dja Wurrung on Djandak (Country) Strathdale – Scrub Tk |
| Forest and woodland thinning in Dja Dja Wurrung Parks (Greater Bendigo NP) |
| Remnant Box-Ironbark and woodland communities, woodland bird community |

|  |  |  |
| --- | --- | --- |
|  | Habitat Distribution Models identify 11 species with more than 5% of their Victorian range in this landscape area | Traditional Owners, stakeholders and community groups identified the following species of interest within this landscape |
| Plant | 8 Plants; notably:   * Bendigo Spider-orchid (*Caladenia sp. aff. fragrantissima* (Central Victoria)), endangered with 20% of its Victorian range in area * Tan Leek-orchid (*Prasophyllum erythrocommum*), endangered with 9% of its Victorian range in area * Sutton Grange Greenhood (*Pterostylis agrestis*), endangered with 9% of its Victorian range in area |  |
| Rat | Mammals | * Brush-tailed Phascogale * Fat-tailed Dunnart |
| Snake | 1 Reptile:   * Pink-tailed Worm-Lizard, endangered with 97% of its Victorian range in area |  |
| Sparrow | 2 Birds:   * Swift Parrot, endangered with 5% of its Victorian range in area * Turquoise Parrot, near threatened with 5% of its Victorian range in area | * Australasian Bittern * Swift Parrot * Bush Stone-curlew |
| Frog | Amphibians | * Growling Grass Frog |
| Other | * Eltham Copper Butterfly * Golden Sun Moth | |

|  |
| --- |
| Traditional Owners, stakeholders and community groups identified the following threats within this landscape |
| Exclusion of Dja Dja Wurrung leadership (governance) |
| Lack of enquiry and understanding of Dja Dja Wurrung customs and practice that provide an enabling and supportive environment so that Djaara can reconnect to land and reconnect stories and knowledge to place. Ask “How?” not “Why?” |
| Area from Long Gully to Marong Bushland Reserve is a growth corridor for Council. Threats of this include land use change, population growth, housing pressure |
| Encroachment of farming activities |
| Firewood collection |
| Inappropriate fire prevention activities |
| Lack of listening, hearing and respect for Dja Dja Wurrung ability to talk to Country – bias toward western science-based decision support tools and not Dja Dja Wurrung knowledge-based tools |
| Utilising past learnings and achievement to guide future effort – Dja Dja Wurrung participation in past and future biodiversity planning and delivery below the IAP2 level of ‘involve’ does not support Dja Dja Wurrung aspirations |
| Intrusions of pest plants and animals and dieback on vegetation pose a significant risk to roadside vegetation |
| Urban development |
| Road maintenance and construction works |
| Installation and maintenance of services |

## Strategic Management Prospects

Strategic Management Prospects (SMP) models biodiversity values such as species habitat distribution, landscape-scale threats and highlights the most cost-effective actions for specific locations. More information about SMP is available in [NatureKit](https://www.environment.vic.gov.au/biodiversity/naturekit).

## Additional threats

Threats identified (in addition to those modelled in SMP) through the consultation process were:

* alterations to hydrology
* land salinisation
* soil erosion
* habitat degradation due to extremes of climate and weather
* lack of regeneration in some vegetation classes
* recreational activities causing fragmentation
* loss of vegetation, and erosion
* legacy use of public land
* private land use impacting biodiversity
* inappropriate land use planning
* inappropriate fire regimes (planned burning and bushfires)

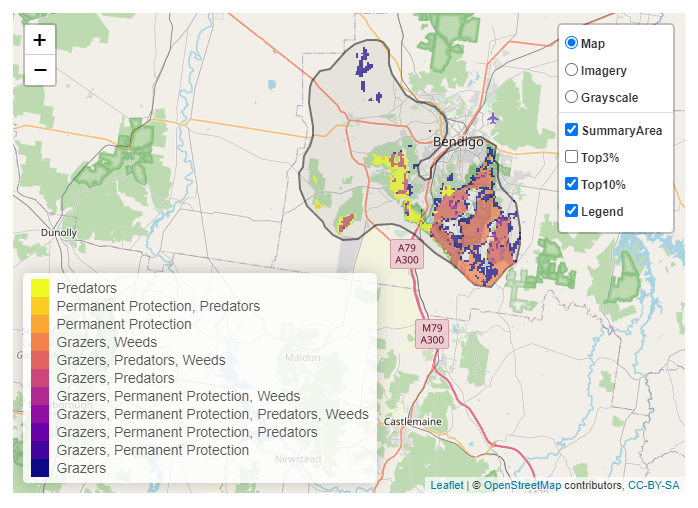
Some individual threatened species may also require targeted intervention, beyond actions to manage landscape-scale threats, to improve their future prospects.

## Which landscape-scale actions are most cost-effective in this landscape?

The coloured areas indicate where the identified landscape-scale actions and locations are most cost-effective and will maximise biodiversity benefit across Victoria for multiple species.

|  |  |
| --- | --- |
| Rabbit | Control rabbits 9,416ha |
| A picture containing text  Description automatically generated | Combined cat and fox control 6,961ha |
| Grain | Control weeds 5,736ha |

A picture containing text

Description automatically generatedThe SMP priority actions which rank among the top 10% for cost-effectiveness of that action across Victoria for much of the landscape are in order of the top 3 actions, see map and list below:

Of the top 10% of cost-effective actions, combined cat and fox control provides the most cost-effective biodiversity benefits when considering all flora and fauna.

From the nomination process the following additional actions were also suggested for this landscape:

* appropriate management of recreational activities
* public access and cultural fire

|  |  |
| --- | --- |
| The most cost-effective action for flora and fauna | |
| Plant | Plants - Control rabbits |
| FrogSparrowRatSnake | Reptiles, mammals, birds, amphibians - Combined cat and fox control |

For a further in depth look into SMP for this landscape please refer to [NatureKit](https://www.environment.vic.gov.au/biodiversity/naturekit).

## 