

# Action statement

*Flora and Fauna Guarantee Act 1988*

## Wombat Bossiaea (*Bossiaea vombata*)

Taxon ID: 505970

Action statements are developed under the *Flora and Fauna Guarantee Act 1988* (FFG Act). Their preparation and implementation complement the FFG Act strategy *Protecting Victoria's Environment – Biodiversity 2037* and its vision that “Victoria’s biodiversity is healthy, valued and actively cared for”.

### Species and Distribution



Wombat Bossiaea. Image source: Royal Botanic Gardens Victoria.



Wombat Bossiaea Victorian Biodiversity Atlas (VBA) records since 1970. See [NatureKit](#) for an interactive map.

### Conservation Status

#### Critically Endangered

**Listing criteria:** 3.1.1; 3.1.2(a)(b)(i)(ii)(iii)(iv)(v); 3.1.3(b)(i); 3.1.4 of the Flora and Fauna Guarantee Regulations 2020.

This means that:

- the taxon has undergone, is suspected to have undergone, or is likely to undergo in the immediate future, a very severe reduction in population size; and
- its geographic distribution is extremely restricted; and
- the distribution of the population or habitat of the taxon is severely fragmented; and
- it is restricted to a limited number of areas that are subject to the same threat or suite of threats that can impact all individuals present; and
- there is a continuing decline or reduction in:
  - its extent of occurrence; and
  - its area of occupancy; and
  - the area, extent or quality of habitat; and
  - the number of locations or subpopulations; and
  - the numbers of mature individuals; and
- the total number of mature individuals is extremely low, the number is likely to continue to decline and each subpopulation is extremely small.

**Corresponding International Union for the Conservation of Nature (IUCN) criteria:** A3ce; B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v); C2a(i); D. More information on IUCN listing criteria can be found here: [IUCN Red List Criteria](#).

## Species Information

Species information such as its description, distribution, ecology and references are provided in the [Wombat Bossiaea Species Forecast Report](#) and [VicFlora](#).

## Threats

The threats below have been identified by input from western scientists, and from databases, decision support tools and published literature. Traditional Owners may have additional threats to those listed for this species.

Threat	Description
<b>Climate change</b>	
Increased frequency and/or length of droughts	<ul style="list-style-type: none"> <li>Drying and warming of the environment, including droughts, may lead to habitat changes, and impact recruitment and/or mortality rates.</li> </ul>
<b>Fire</b>	
Altered fire regimes	<ul style="list-style-type: none"> <li>Fire, including planned burns, that is more frequent than the species tolerable fire interval can lead to seedbank exhaustion, reduced recruitment and mortality of recruits.</li> <li>Increased frequency and intensity of fire may cause mortality of adult plants before they reach maturity, damage the habitat, and modify ecosystem processes.</li> <li>Both infrequent and frequent fire, may lead to population decline and alter vegetation structure and habitat condition.</li> </ul>
Fire management activities	<ul style="list-style-type: none"> <li>Fire management operations such as creation of fuel breaks (soil disturbance, slashing) may remove or degrade habitat, cause mortality of individuals, and reduce regeneration.</li> </ul>
<b>Habitat loss, degradation or modification</b>	
Vegetation clearing or damage	<ul style="list-style-type: none"> <li>Removal or damage to vegetation contributes to habitat loss.</li> </ul>
<b>Human disturbance</b>	
Lack of awareness	<ul style="list-style-type: none"> <li>Land managers and/or community members may inadvertently cause harm to a species or its habitat through a lack of awareness of the species' conservation needs.</li> </ul>
Road and track construction or maintenance	<ul style="list-style-type: none"> <li>Construction and maintenance of waterway crossings, roads and tracks expose the species and habitat to disturbance from run-off, soil erosion, siltation, and weed and pathogen introduction, in the immediate area and downstream.</li> </ul>
<b>Introduced species</b>	
Deer	<ul style="list-style-type: none"> <li>Introduced deer species such as Sambar Deer (<i>Cervus unicolor</i>), Red Deer (<i>Cervus elaphus</i>), Fallow Deer (<i>Dama dama</i>) and Hog Deer (<i>Axis porcinus</i>) degrade habitat through herbivory, antler-rubbing, trampling, pugging of wet soils, increasing nutrient loads, causing erosion of waterway edges, and increasing the accessibility of habitat for other introduced species.</li> </ul>

**Native species**

- |  |   |
|--|---|
| Competition and/or herbivory by native species | <ul style="list-style-type: none"> <li>Competition for resources with, and/or herbivory by, other native species can impact habitat, recruitment and/or mortality rates. This threat is exacerbated where habitat loss or degradation reduces availability of resources.</li> </ul> |
|--|---|

**Population dynamics**

- |                                   |   |
|-----------------------------------|---|
| Lack of pollination opportunities | <ul style="list-style-type: none"> <li>Lack of pollination opportunities or events contributes to low recruitment rates.</li> </ul>   |
| Loss of genetic diversity         | <ul style="list-style-type: none"> <li>Small, greatly reduced, and/or isolated populations are at increased risk of loss of genetic diversity, which leads to a heightened risk of reduced recruitment and/or increased mortality rates.</li> </ul> |

**Conservation Objectives**

Conservation objectives are informed by the conservation status and criteria in which the species was listed under the FFG Act. This provides a framework to understand how we can work towards recovery and improve the species' conservation status over time as per the objectives of the FFG Act.

The key objectives of this action statement are:

- Mitigate threats to populations and habitat to increase resilience, increase genetic fitness and minimise future population decline;
- Increase the Wombat *Bossiaea*'s range and/or extent, by providing opportunities for natural movement/dispersal;
- Increase knowledge of biology, ecology, distribution, demography, emerging threats, and conservation requirements; and
- Support community participation and improve awareness of the Wombat *Bossiaea* and conservation of its habitat, including the restoration of cultural knowledge where appropriate.

**Conservation Actions**

The actions below have been identified by input from western scientists, and from databases, decision support tools and published literature. Actions are listed in alphabetical order to allow all interested parties to prioritise based on their context, capacity and capability. Holistic management of the cultural landscape where this species occurs is encouraged. Traditional Owners may identify other actions including cultural practice that will benefit this species, and may also need to review existing actions to ensure they are culturally appropriate. For more information on where to undertake actions that benefit multiple species and identify the most beneficial locations to undertake actions for this species, please refer to [NatureKit](#).

Action	Description
Artificial pollination	<ul style="list-style-type: none"> <li>Mitigate low pollination opportunities by undertaking artificial pollination, to improve recruitment success.</li> </ul>
Avoid and/or mitigate impacts associated with fire management	<ul style="list-style-type: none"> <li>Undertake biodiversity values check prior to fuel management in areas of the species' habitat, to confirm treatment suitability and timing.</li> <li>Ensure that species distribution data and ecological information is available and considered in fire management activities.</li> </ul>

Action	Description
Climate adaptation	<ul style="list-style-type: none"> <li>Consider the incremental and/or transformational adaptation actions that may be required to support the recovery of the species. This may be done by applying the climate adaptation lens and triggers for transformational adaptation from the Victorian Government's Climate Change Adaptation Action Plans.</li> </ul>
Collect and store reproductive material	<ul style="list-style-type: none"> <li>Undertake appropriate collection of propagules for long-term storage. Ensure that adequate supply and genetic diversity is secured for future reintroduction, and that essential information (such as dormancy) is known.</li> <li>Maintain seed collections from target populations within the Victorian Conservation Seedbank at the Royal Botanic Gardens Victoria.</li> </ul>
Community engagement and awareness	<ul style="list-style-type: none"> <li>Identify, promote, and support opportunities for raising awareness and community involvement in conservation efforts, including through citizen science, to inform improved management for the species.</li> <li>Work with land managers and planning authorities to confirm the presence, condition and distribution of the species.</li> </ul>
Control deer*	<ul style="list-style-type: none"> <li>Implement and maintain effective control of deer in priority areas.</li> </ul>
Ecological fire regime*	<ul style="list-style-type: none"> <li>Implement fire management actions that promote an appropriate fire regime for the species.</li> </ul>
Establish and maintain fencing	<ul style="list-style-type: none"> <li>Establish and maintain fencing and/or other forms of protection to prevent access and damage to individuals or populations from introduced or native species where required.</li> </ul>
Ex-situ management	<ul style="list-style-type: none"> <li>Establish and maintain ex-situ populations in suitable secure sites, to service the conservation objectives of the species.</li> </ul>
Manage road and track works	<ul style="list-style-type: none"> <li>Protect habitat from disturbances caused by track, bridge and ford construction and maintenance.</li> </ul>
Permanent protection*	<ul style="list-style-type: none"> <li>Investigate incentives, voluntary agreements, covenants, and other permanent protection measures to protect and restore habitat.</li> </ul>
Protect key habitat	<ul style="list-style-type: none"> <li>Ensure that species distribution data and ecological information is available and considered in planning for developments, land use changes and utilities maintenance. Ensure that incremental losses are included in consideration of potential losses.</li> </ul>
Survey and monitoring	<ul style="list-style-type: none"> <li>Undertake targeted field surveys to confirm the extent of all known populations and seek to discover previously undetected populations based on predicted habitat and ecological information.</li> <li>Monitor representative populations to determine trends and management needs.</li> </ul>
Translocation	<ul style="list-style-type: none"> <li>Design and implement a translocation program to meet the objectives of the action statement.</li> </ul>
Vegetation management	<ul style="list-style-type: none"> <li>Implement localised vegetation management to mitigate the impacts of increased frequency and intensity of fire.</li> </ul>

\*Indicates landscape-scale actions that may deliver benefits to multiple species

## Past Actions

The compilation process for this action statement did not identify any past management actions undertaken in the last 10 years. If you are aware of recent actions that have been undertaken to benefit this species, please contact [threatened.species@deca.vic.gov.au](mailto:threatened.species@deca.vic.gov.au)

## Decision Support Tools

Decision making for conservation actions is supported through the following Victorian Government tools which may be of assistance in choosing the most appropriate or beneficial actions for biodiversity:

- [Choosing actions for nature](#)
- [Biodiversity Knowledge Framework](#)

## Further Information

- [Wombat Bossiaea Species Forecast Report](#)
- [Threatened Species Assessment Report - Wombat Bossiaea \(\*Bossiaea vombata\*\)](#)
- [Victorian Deer Control Strategy](#)
- [Victoria's changing climate - understanding the impacts of climate change in Victoria](#)
- [Genetic Risk Index](#)
- [Commonwealth Threat Abatement Plans](#)
- [Flora and Fauna Guarantee Regulations 2020](#)
- [IUCN criteria summary](#)

## Get Involved and Take Action

If you are interested in supporting this species' recovery, there are some important things to consider.

The Department of Energy, Environment and Climate Action (DEECA) is committed to engaging and partnering with Traditional Owners on how they wish to be involved in the planning and implementation of actions for this species. Steps must be taken to avoid harm and where appropriate ensure actions can deliver cultural benefits.

You can find advice about required approvals, land manager and/or owner permissions, options and incentives for private land conservation, and engagement with Traditional Owners and public land managers here: [Action statements \(environment.vic.gov.au\)](#)

To identify the relevant Traditional Owners, use the [Aboriginal Cultural Heritage Register and Information System \(ACHRIS\) Welcome to Country and Acknowledgements Map](#).

You can also register your interest in taking action so we can connect you to other people or organisations working to help us secure the future for this species at [threatened.species@deeca.vic.gov.au](mailto:threatened.species@deeca.vic.gov.au)

## Reporting Actions

Activity data are critical to monitoring the implementation and progress of actions and evaluating action statements. These data are also used to:

- determine progress towards achieving the contributing targets for [Protecting Victoria's Environment – Biodiversity 2037](#).
- inform the five-yearly State of the Environment Report.

For guidance on reporting actions undertaken on this species, refer to [Activity Data](#).

## Submitting Monitoring Data

The Victorian Biodiversity Atlas (VBA) provides a foundational dataset showing where biodiversity occurs across the Victorian landscape and how it may have changed over time. As a core input for decision support tools that inform conservation action, public land management, research activities and reporting, we encourage all participants in the delivery of on-ground actions to submit species records and observations, including for weeds or introduced animals, as they carry out their projects.

For further information see: [Victorian Biodiversity Atlas \(environment.vic.gov.au\)](https://environment.vic.gov.au)

Sign up and begin submitting your data today at: <https://vba.biodiversity.vic.gov.au/>

## Indigenous Data Sovereignty

DEECA is committed to recognising and enabling Indigenous Data Sovereignty (IDS). Indigenous data comprise any information or knowledge of species and Country collected or recorded by, or about, Traditional Owners. IDS asserts Traditional Owner rights to access and have governance over the collection, ownership and use of their data, including that which is included or referred to in this Action Statement.

### Acknowledgement

We acknowledge and respect Victorian Traditional Owners as the original custodians of Victoria's land and waters, their unique ability to care for Country and deep spiritual connection to it. We honour Elders past and present whose knowledge and wisdom has ensured the continuation of culture and traditional practices.

We are committed to genuinely partner, and meaningfully engage, with Victoria's Traditional Owners and Aboriginal communities to support the protection of Country, the maintenance of spiritual and cultural practices and their broader aspirations in the 21st century and beyond.



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ISSN 1448-9902 (online)

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