

Action statement

Flora and Fauna Guarantee Act 1988

Cabbage Fan-palm (*Livistona australis*)

Taxon ID: 502023

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



Cabbage Fan-palm. Image source: Atlas of Living Australia.



This habitat distribution model displays the indicative range of Cabbage Fan-palm based on occurrence records and likely habitat. See [NatureKit](#) for an interactive map. This species also occurs outside of Victoria.

Conservation Status

Critically Endangered

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

This means that:

- its geographic distribution is extremely restricted; 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 very low, and the number is likely to continue to decline at a very high rate.

Corresponding International Union for the Conservation of Nature (IUCN) criteria: B1ab(i,ii,iii,iv,v); C1. More information on IUCN listing criteria can be found here: [IUCN Red List Criteria](#).

Species Information

The Cabbage Fan-palm also occurs outside of Victoria where it may have a different conservation status throughout its broader distribution. Species information such as its description, distribution, ecology and references are provided in the [Cabbage Fan-palm Species Forecast Report](#), [VicFlora](#) and the [Atlas of Living Australia](#).

Threats

The threats below have been identified through expert input, published literature and spatial analysis.

Threat	Description
Climate change	
Altered rainfall and temperature regimes	<ul style="list-style-type: none"> Climate change, increasing temperature and altered rainfall are likely to magnify existing threats and may reduce the stability, extent, and condition of habitat.
Extreme weather events	<ul style="list-style-type: none"> Climate change may increase the frequency and intensity of storms and flooding, increasing erosion and impacting habitat condition, and potentially causing mortality events.
Increased frequency and/or length of droughts	<ul style="list-style-type: none"> Drying and warming of the environment, including droughts, may lead to habitat changes, and impact recruitment and/or mortality rates.
Fire	
Altered fire regimes	<ul style="list-style-type: none"> Increased frequency and intensity of fire may cause mortality of plants before they reach maturity. Fires contribute to vegetation change by opening the habitat and permitting drying winds to enter, facilitating overgrowth by short-lived shrubs and herbs, and allowing expansion of eucalypt species. A hotter, drier climate may increase the likelihood or frequency of fire impacting habitat, with the potential to reduce habitat extent and/or condition. This includes the drying of buffers which act to prevent planned burns from entering rainforest.
Fire management activities	<ul style="list-style-type: none"> Fire management operations such as creation of fuel breaks (soil disturbance, slashing) may remove or degrade habitat, cause mortality of individuals, and reduce regeneration.
Habitat loss, degradation or modification	
Land use change	<ul style="list-style-type: none"> Land use change alters vegetation extent and condition, and may impact water regimes, contributing to habitat loss and degradation.
Vegetation clearing or damage	<ul style="list-style-type: none"> Removal or damage to vegetation contributes to habitat loss.
Human disturbance	
Road and track construction or maintenance	<ul style="list-style-type: none"> 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.
Introduced species	
Deer	<ul style="list-style-type: none"> Introduced deer species (Sambar Deer (<i>Cervus unicolor</i>), Red Deer (<i>Cervus elaphus</i>) and Fallow Deer (<i>Dama dama</i>)) degrade habitat through herbivory, antler-rubbing, trampling, pugging of wet soils, increasing nutrient loads, erosion of waterway edges, and increasing the accessibility of habitat to other introduced species.

Native species

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| Competition and/or herbivory by other native species | <ul style="list-style-type: none"> 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. |
| Other native plant species | <ul style="list-style-type: none"> Encroachment of eucalypt and acacia recruits from surrounding forest outcompete rainforest stands and significantly impact the retention of Victoria's rainforest habitat. Increasing abundance, or area of occurrence, of some native plant species may impact habitat condition. |

Pathogens and diseases

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| Myrtle Rust | <ul style="list-style-type: none"> Myrtle Rust is a disease caused by the introduced fungus (<i>Austropuccinia psidii</i>). Myrtle Rust threatens trees and shrubs of the Myrtaceae family and can cause deformed leaves, heavy defoliation of branches, reduced fertility, stunted growth, and mortality. Understorey species will be impacted by changes in light, temperature and moisture as a result of a reduction in canopy cover caused by the disease. |
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Population dynamics

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| Loss of genetic diversity | <ul style="list-style-type: none"> 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. |
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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 Cabbage Fan-palm'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 Cabbage Fan-palm and conservation of its habitat, including the restoration of cultural knowledge where appropriate.

Conservation Actions

The actions below have been identified through expert input, published literature and spatial analysis. 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 noting additional actions including cultural practice may benefit this species. 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](#). In undertaking actions for this species, consider the full extent of the species' range.

Action	Description
Avoid and/or mitigate impacts associated with fire management	<ul style="list-style-type: none"> Undertake biodiversity values check prior to fuel management in areas of the species' habitat, to confirm treatment suitability and timing. Ensure that species distribution data and ecological information is available and considered in fire management activities.
Climate adaptation	<ul style="list-style-type: none"> 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.
Collect and store reproductive material	<ul style="list-style-type: none"> Maintain seed collections from target populations within the Victorian Conservation Seedbank at the Royal Botanic Gardens Victoria. 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. Also ensure collection of mycorrhizal fungi where appropriate.
Control deer*	<ul style="list-style-type: none"> Implement and maintain effective control of deer in priority areas.
Establish and maintain fencing	<ul style="list-style-type: none"> Establish and maintain fencing to prevent access and damage to individuals or populations from introduced or native species where required.
Manage native plant species	<ul style="list-style-type: none"> Manage eucalypt and acacia encroachment in rainforest following intense fire events. Removal should occur within four years following fire, and focus on habitat for known threatened species.
Manage native species	<ul style="list-style-type: none"> Develop and apply management techniques to mitigate the threat of competition and/or herbivory from native species where required.
Manage road and track works	<ul style="list-style-type: none"> Protect habitat from disturbances caused by track, bridge and ford construction and maintenance.
Permanent protection*	<ul style="list-style-type: none"> Investigate incentives, voluntary agreements, covenants, and other permanent protection measures to protect and restore habitat.
Restoration and/or revegetation*	<ul style="list-style-type: none"> Undertake restoration and/or revegetation to increase habitat suitability and/or create new habitat areas.
Survey and monitoring	<ul style="list-style-type: none"> 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. Monitor representative populations to determine trends and management needs.
Translocation	<ul style="list-style-type: none"> Design and implement a translocation program to meet the objectives of the action statement.

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

Past Actions

The key conservation management actions listed below have been delivered in the past 10 years.

Past Action	Description
Control deer	<ul style="list-style-type: none">Implemented and maintained effective control of deer in priority areas.

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

- [Cabbage Fan-palm Species Forecast Report](#)
- [Threatened Species Assessment Report - Cabbage Fan-palm \(*Livistona australis*\)](#)
- [Atlas of Living Australia – Open access to Australia’s biodiversity data](#)
- [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](#)
- [Natural Environment Climate Change Adaptation Action Plan 2022-2026](#)

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

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 \(environment.vic.gov.au\)](#)

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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