



## Where we work

- The BCT operates across seven regions.
- Our regional teams include ecologists and regional conservation staff who work with new and existing landholders to enter into and manage their agreements
- The majority of our staff work from regional hubs, with offices across the State.
- Our head office is Parramatta (4PSQ)





### What we do

The BCT's purpose is partnering with landholders to enhance and conserve biodiversity across NSW.

Our vision is vibrant private land conservation areas protecting our unique and diverse plants and animals.

Our aspirational aims over the four-year period (2021-2025) of our business plan are to:

- enter 400 private land conservation agreements with landholders
- secure 200,000 hectares of new conservation areas
- protect examples of another 50 unique under-represented NSW landscapes.

**Threatened Species Records - MacDonald Valley** 

**1279** Records in the Greater MacDonald Valley

- Sixty-three (63) vulnerable / endangered species
- Seventeen (17) flora species
- Forty-six (46) fauna species

SOS site managed species include:

- Brush-tailed Rock-wallaby (Petrogale penicillata)
- Olearia cordata
- Zieria involucrata

Associated endangered ecological communities include:

- Swamp Sclerophyll Forest on Coastal Floodplains
- Swamp Oak Floodplain Forest
- Freshwater Wetlands on Coastal Floodplains



Threatened Species Records - MacDonald Valley - Brush-tailed

**Rock-wallaby** 

Twenty-two (22) records in the Greater MacDonald Valley

Endangered status in NSW, Vulnerable status Commonwealth.

Habitat: Occupy rocky escarpments, outcrops and cliffs with a preference for complex structure.

#### Threatening processes:

- Restricted and fragmented populations;
- Predation;
- Competition;
- Habitat modification.



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## Brush-tailed Rock-wallaby

#### Identification:

- Long and bushy, dark rufous-brown tail. Bushier towards its tip.
- Brown body-fur that tends to be rufous on the rump and greyer on the shoulders.
- Characteristic white cheek-stripe and a black stripe from its forehead to the back of its head.



#### Threatened Species Records - MacDonald Valley - Olearia cordata

Nineteen (19) records in the Greater Macdonald Valley

Vulnerable status in NSW, Vulnerable status Commonwealth.

Habitat: Grows in dry open sclerophyll forest and open shrubland, on sandstone ridges. Grows in shallow or skeletal soils, on steep to gentle slopes,

#### Threatening processes:

- Competition from weeds
- Altered fire regimes
- Changed drainage patterns

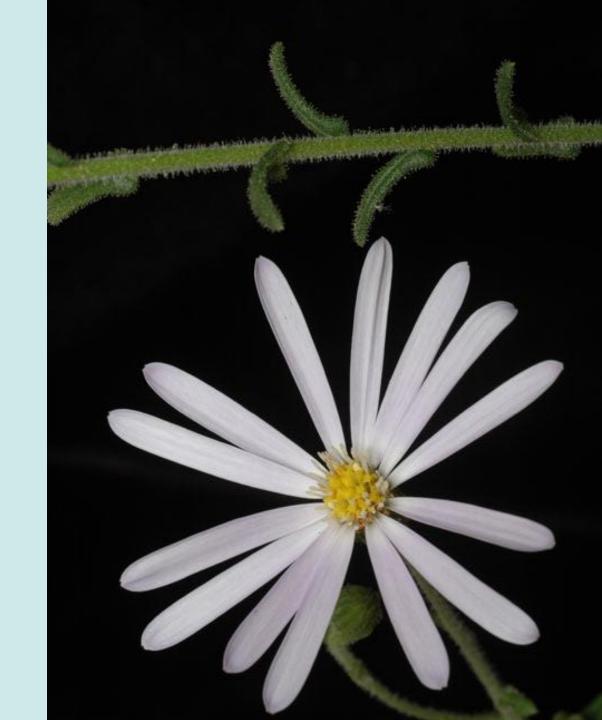


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#### Olearia cordata

#### Identification

- Ray florets 10–18, deep blue to mauve.
- Disc florets 33–35, yellow.
- Aromatic, slender shrub growing to 2 m
- The stems and leaves are densely covered with hairs and glands
- Flowers are daisy like and mauve to deep blue with yellow centres
- Leaves alternate, scattered; lamina linear to narrow-lanceolate



#### Threatened Species Records - MacDonald Valley - Zieria involucrata

Two-hundred and ninety-eight (298) records in the Greater MacDonald Valley

Endangered status in NSW, Vulnerable status Commonwealth.

Habitat: Found primarily in sheltered forests on mid- to lower slopes and valleys. Occurs primarily on Hawkesbury sandstone.

#### Threatening processes:

- Habitat destruction
- Altered fire regimes
- Altered flow regimes

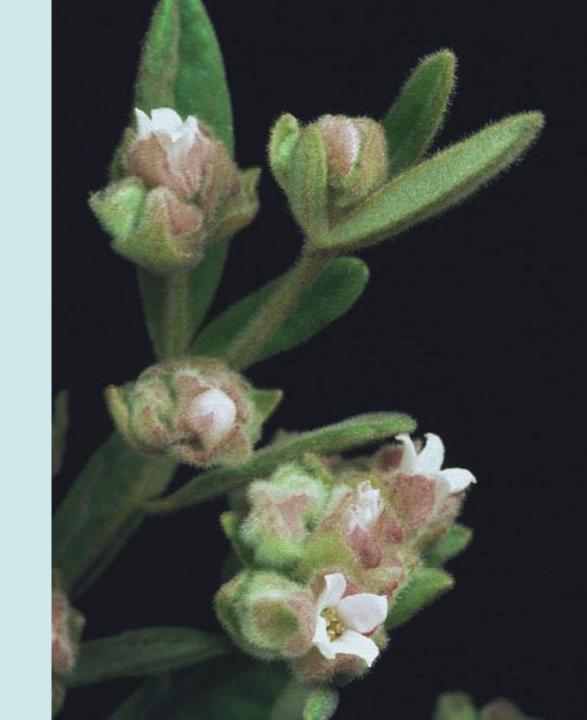


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#### Zieria involucrata

#### Identification

- A small, sparse shrub. 1 2 metres in height.
- Branches and leaves are covered with hairs which form a soft, velvety covering.
- Leaves are opposite and consist of either a single leaflet or three leaflets.
- The flower clusters (3 21) are shorter than the leaves.
- Flowers are white with pink tinges, and slightly hairy.



## Threatened Ecological Communities - Swamp sclerophyll forest on coastal floodplains

Associated with PCT 4057 - Sydney Creekflat Swamp Mahogany-Paperbark Forest

Endangered Ecological Community in NSW & Commonwealth.

Habitat: Swamp Sclerophyll Forest is associated with humic clay and sandy loam soils on waterlogged or periodically flooded areas.

Characteristic species include:

- Swamp Mahogany (Eucalyptus robusta)
- Broad leaved Paperbark (Melaleuca quinquenervia)
- Forest Oak (Casuarina glauca)
- Cheese Tree (Glochidion ferdinandi)
- Flax leaved Paperbark (Melaleuca linariifolia)



#### **How can I contribute?**

#### Citizen Science – contribute to datasets

#### \* The Australian Museum Frog ID application

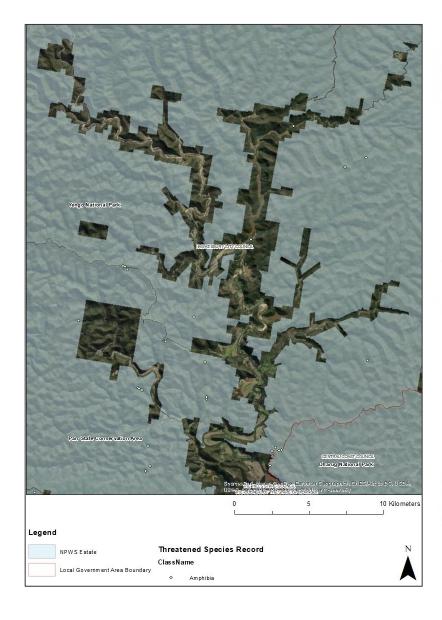
- Free phone application that identifies amphibians based on calls.
- Contributes to a nation-wide database of frog calls to document the true species diversity, distributions and breeding habitats of Australian frogs.

#### \*Nature Mapr

- Free phone application/ website where records can be uploaded.
- You can submit photo of plants or animals; you do not need to know the species. Just provide details.

#### \*Inaturalist

- Free phone application/ website where records can be uploaded.
- Similar to Nature Mapr.









#### How can I contribute?

#### **BCT Conservation land management course**

- https://www.bct.nsw.gov.au/elearning
- Free online course with no eligibility that covers items including:
  - Monitoring;
  - Supplementary habitat;
  - Hydrology;
  - Pest management

#### **BCT Webinars**

https://www.bct.nsw.gov.au/events

#### **Additional Resources**

- Tree's Near Me Application
- Atlas of Living Australia
- Community Groups (Facebook ect)



#### What are we doing - EMM

#### **Ecological Monitoring Module (EMM)**

BCT's monitoring methodology. How we collect and analyse data to inform evaluation and reporting of ecological outcomes at site, regional and state scales.

Baseline Survey Outcome Report August 2022 available. The outcomes included:

- BCT agreement sites are protecting significantly more critical threatened species and climate refuge habitat than typical sites in the landscape and are also protecting high quality koala habitat.
- The protective value of BCT agreements has resulted in an estimated 9,000 hectares of avoided biodiversity loss.



# Biodiversity Conservation Trust Ecological Monitoring Module Biodiversity Outcomes Report

Baseline | August 2022

## **Agreement types**

We currently offer three types of voluntary private land conservation agreements:

Wildlife Refuge Agreements

Entry level agreement which can be revoked at the request of the landholder (minimum 10 ha)

**Conservation Agreement** 

In-perpetuity agreement (minimum 20 ha)

Biodiversity Stewardship Agreement In-perpetuity agreement which generates biodiversity credits

We also support landholders with a range of legacy agreements established under former legislation / with previous agencies including:

Wildlife Refuge Agreements

Registered Property
Agreements

National Parks and Wildlife
Act 1974 Agreements

Nature Conservation Trust Agreements

**Bio Banking Agreements** 



## **Questions??**

