



Burrinjuck Nature Reserve

Plan of Management



BURRINJUCK NATURE RESERVE PLAN OF MANAGEMENT

NSW National Parks and Wildlife Service

Part of the Department of Environment, Climate Change and Water

September 2010

This plan of management was adopted by the Minister for Climate Change and the Environment on 16th September 2010. **Acknowledgments** The NPWS acknowledges that this reserve is in the traditional country of the Ngunawal and Wiradjuri people. This plan of management is based on a draft plan prepared by the staff of the South West Slopes Region of the NSW National Parks and Wildlife Service (NPWS), part of the Department of Environment, Climate Change and Water. Cover photo by Scott Seymour, NPWS. For additional information or any inquiries about this reserve or this plan of management, contact the NPWS South West Slopes Region Office at 7 Adelong Road Tumut, NSW, 2720 or by telephone on 6947 7000.

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FOREWORD

Burrinjuck Nature Reserve covers 5,207 hectares and is located on the South West Slopes of New South Wales, approximately 26 kilometres south-west of Yass.

Burrinjuck Nature Reserve contains six distinct forest ecosystems, including two threatened plant species and populations of the southern blue gum that are considered regionally significant. A total of 223 animal species have been recorded in the reserve, including 16 threatened species.

A number of Aboriginal sites have been recorded in the reserve, and illustrate the importance of this area to the Aboriginal community. In addition, 14 historic sites have been identified in the reserve including relics of agricultural use, forestry and dam construction.

The New South Wales *National Parks and Wildlife Act 1974* requires that a plan of management be prepared for each nature reserve. A plan of management is a legal document that outlines how an area will be managed in the years ahead.

A draft plan of management for Burrinjuck Nature Reserve was placed on public exhibition from 29th August until 1st December 2008. The submissions received were carefully considered before adopting this plan.

The plan contains a number of actions to achieve the State Plan priority to "Protect our native vegetation, biodiversity, land, rivers and coastal waterways", including surveys for threatened species, programs to minimise erosion, control of pest animals and weeds, and management of fire.

This plan of management establishes the scheme of operations for Burrinjuck Nature Reserve. In accordance with Section 73B of the *National Parks and Wildlife Act 1974*, this plan of management is hereby adopted.

Frank Sartor MP Minister for Climate Change and the Environment

1. BURRINJUCK NATURE RESERVE

Burrinjuck Nature Reserve (referred to as "the reserve" in this plan) is located on the South West Slopes of New South Wales, approximately 14 kilometres south of Bookham and 26 kilometres south-west of Yass. The reserve covers a total area of 5,207 hectares. The large northern block encompasses 5,118 hectares on the northern shores of Burrinjuck Dam, and the southern block covers 89 hectares of land 800 metres to the south on the opposite side of the dam.

Burrinjuck Nature Reserve was originally gazetted in 1984, with an area of 1,286 hectares, over what was previously Burrinjuck State Forest. It adjoined, on its eastern boundary, Burrinjuck State Recreation Area (part of which is now Burrinjuck Waters State Park), established in 1977 on the foreshores of Burrinjuck Dam. In 2001, as part of the Southern Regional Forest Agreement (see section 2.3), an additional 367 hectares were added to Burrinjuck Nature Reserve in 4 parcels, as was part of the state recreation area. In 2006, 1911 hectares adjoining the western side of Burrinjuck Nature Reserve was added to the reserve

The name Burrinjuck is thought to be derived from the Aboriginal words, Booren Yiack, which mean 'precipitous mountain' and refer to the peak that rises in the west of the reserve. This was initially translated as Barren Jack by settlers, but in 1910 was changed to Burrinjuck by Government officials who felt that Barren Jack was not in keeping with the promotion of the new Murrumbidgee Irrigation Area development.

Black Andrew Nature Reserve is located southwest of the reserve, adjacent to the southern portion of the reserve, and Oak Creek Nature Reserve is approximately 6 kilometres to the southeast. Most of the surrounding land is cleared for grazing, with the exception of Bungongo State Forest to the west which is native forest.

The reserve lies within the area of Yass Valley Shire Council, Murrumbidgee Catchment Management Authority, Southern Tablelands Livestock Health and Pest Authority, and the Onerwal and Tumut-Brungle Local Aboriginal Land Councils.

2. MANAGEMENT CONTEXT

2.1 LEGISLATIVE AND POLICY FRAMEWORK

The management of nature reserves in NSW is in the context of a legislative and policy framework, primarily the *National Parks and Wildlife Act 1974* (NPW Act), the NPW Regulation, the *Threatened Species Conservation Act 1995* (TSC Act) and the policies of the National Parks and Wildlife Service (NPWS). The policies are based on the legislative background and internationally accepted principles of park management. They relate to nature conservation, Aboriginal and historic heritage conservation, recreation, commercial use, research and communication.

Other legislation, international agreements and charters may also apply to management of the area. In particular, the *Environmental Planning and Assessment Act 1979* (EPA Act) requires the assessment and mitigation of the environmental impacts of any works proposed in this plan.

A plan of management is a statutory document under the NPW Act. Once the Minister has adopted a plan, no operations may be undertaken within Burrinjuck Nature Reserve except in accordance with this plan. This plan will also apply to any future additions to Burrinjuck Nature Reserve. Should management strategies or works be proposed for the nature reserve or any additions that are not consistent with the plan, an amendment to the plan will be required.

2.2 MANAGEMENT PURPOSES AND PRINCIPLES

Nature reserves are reserved under the NPW Act to protect and conserve areas containing outstanding, unique or representative ecosystems, species, communities or natural phenomena.

Under the Act (section 30J), nature reserves are managed to:

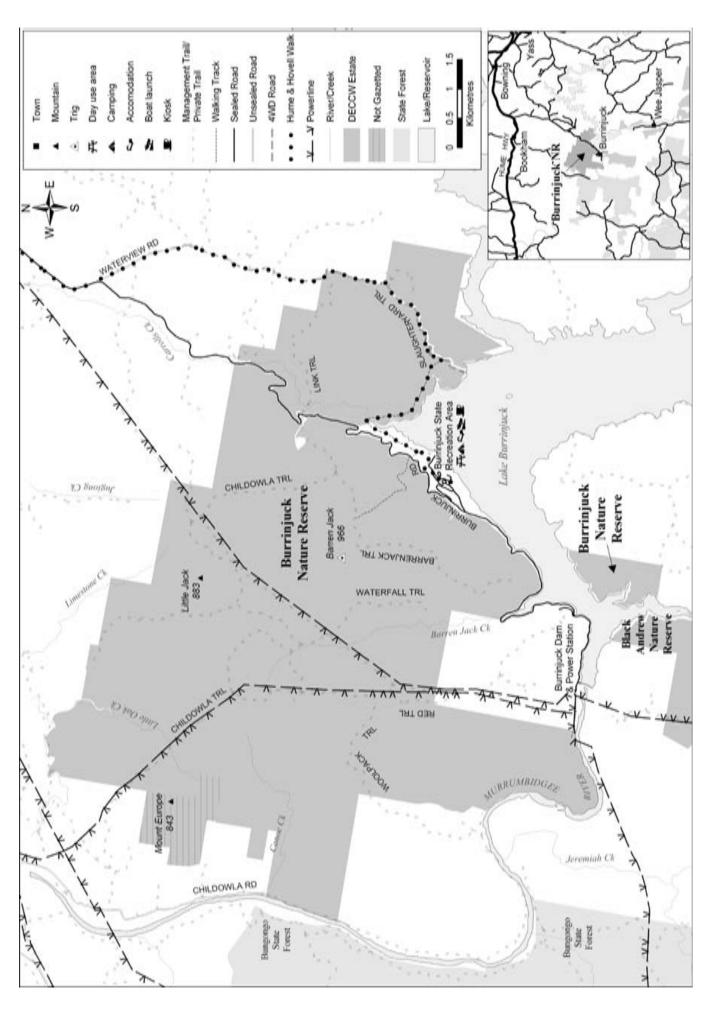
- conserve biodiversity, maintain ecosystem functions, and protect geological and geomorphological features and natural phenomena;
- conserve places, objects, features and landscapes of cultural value;
- promote public appreciation, enjoyment and understanding of the reserve's natural and cultural values; and
- provide for appropriate research and monitoring.

Nature reserves differ from national parks in that they do not have as a management principle to provide for visitor use.

2.3 REGIONAL FOREST AGREEMENTS

Regional Forest Agreements (RFAs) are one of the principle means of implementing the National Forest Policy Statement of 1992. Under this statement, Commonwealth, State and Territory governments agree to work towards a shared vision for Australia's forests. This aims to maintain native forest estate, manage it in an ecologically sustainable manner and develop sustainable forest-based industries. The statement provided for joint comprehensive assessments of the natural, cultural, economic and social values of forests. These assessments formed the basis for negotiation of Regional Forest Agreements that provide, amongst other things, for Ecologically Sustainable Forest Management.

The Southern Regional Forest Agreement covers the planning area. The process leading up to the RFA provided for major additions to the reserve system, including the additions to Burrinjuck Nature Reserve.



3. VALUES OF THE RESERVE

The location, landforms and plant and animal communities of an area have determined how it has been used and valued. Both Aboriginal and non-Aboriginal people place values on natural areas, including aesthetic, social, spiritual and recreational values. These values may be attached to the landscape as a whole or to individual components, for example to plant and animal species used by Aboriginal people. This plan of management aims to conserve both natural and cultural values. For reasons of clarity and document usefulness, natural heritage, cultural heritage, threats and ongoing use are dealt with individually, but their inter-relationships are recognised.

3.1 LANDFORM, GEOLOGY AND SOILS

The reserve is rugged, and heavily timbered on steep falls into the Murrumbidgee River and Burrinjuck Dam. Elevations in the northern block range from 400 metres on the shores of Burrinjuck Dam to 965 metres in the centre of the block, and elevations in the southern block range from 370 metres to 590 metres. A ridgeline runs from Little Jack peak in the north through the centre of the northern block, falling to gentler slopes east of Burrinjuck Road.

The northern block of the reserve is underlain by Devonian age sediment including tuff, rhyolite, dacite, agglomerate and shale. The south-western tip of the block covers Burrinjuck Granite, while the western edge is underlain by Silurian age Douro Volcanics, including dacite, andesite, tuff, tuffaceous sandstone and shale. The reserve's southern block covers Devonian age Hatchery Creek Conglomerate.

The reserve forms part of the Murrumbidgee Catchment. Several large creeks flow through the reserve and drain into Burrinjuck Dam, including Barren Jack Creek which originates in the reserve and Carrolls Creek. Canoe Creek in the western portion of the reserve, and Limestone Creek which begins at the northern tip of the reserve, drain into the Murrumbidgee River. Many minor creek lines originate in the reserve with most carrying water south to Burrinjuck Dam.

3.2 NATIVE PLANTS

The reserve possesses a high diversity of vegetation types with 6 distinct forest ecosystems identified within the reserve (EcoGIS 2004). These ecosystems are:

Apple box – Norton's box moist grass forest: This forest type is characterised by a canopy of Norton's box *Eucalyptus nortonii*, apple box *E. bridgesiana* and red stringybark *E. macrorhyncha* and a sparse shrub layer of silver wattle *Acacia dealbata* and tick indigo *Indigofera adesmiifolia*. The short ground layer is made up of forbs and grasses such as stinking pennywort *Hydrocotyle laxiflora*, native geranium *Geranium solanderi var. solanderi*, *Acaena echinata*, native carrot *Daucus glochidiatus*, weeping grass *Microlaena stipoides var. stipoides*, snowgrass *Poa meionectes*, Austral bear's ear *Cymbonotus preissianus*, and *Plantago varia*. This is the dominant vegetation type in the eastern half of the reserve.

Wee Jasper Norton's box – Poa grass forest: This forest type contains a canopy of Norton's box *Eucalyptus nortonii* and red stringybark *E. macrorhyncha*, a mid storey of shiny cassinia *Cassinia longifolia*, hoary guinea flower *Hibbertia obtusifolia* and slender tea tree *Leptospermum brevipes*, and an understorey of forbs and grasses such as daphne heath *Brachyloma daphnoides*, clustered everlasting *Chrysocephalum semipapposum*, *Gonocarpus tetragynus* and snow grass *Poa sieberiana var. cyanophylla*. The steep slopes in the south west of the reserve are dominated by this vegetation type.

Brittle Gum – Broad-Leaved Peppermint Poa grass forest: This forest type has a canopy of brittle gum *E. mannifera*, broad-leaved peppermint gum *E. dives*, Robertson's peppermint *E robertsonii* ssp. *robertsonii* and red stringybark. The shrub layer is made up of a pea bush *Platylobium formosum* ssp. *formosum*, hoary guinea flower *Hibbertia obtusifolia*, red-stemmed wattle *Acacia rubida* and *Monotoca scoparia*, while the ground layer consists of forbs and grasses including *Gonocarpus tetragynus*, grass trigger-plant *Stylidium graminifolium*, *Poa tenera*, *Brachyscome spathulata*, silvertop wallaby grass *Joycea pallida* and snowgrass *Poa sieberiana* var. *sieberiana*. This community is common on steeper slopes in the southern half of the reserve.

Dwyer's Gum heathy low open woodland: This forest type has a canopy of black cypress pine *Callitris endlicheri*, white box *Eucalyptus albens*, red stringybark *E. macrorhyncha* and inland scribbly gum *E. rossii*. The sparse mid storey is dominated by sticky everlasting *Bracteantha viscosa*, and the understorey is made up of forbs, grasses and sedges including *Caladenia mentiens*, fringed spider orchid *Caladenia tentaculata*, native carrot *Daucus glochidiatus*, *Gonocarpus elatus*, yellow pennywort *Hydrocotyle foveolata*, *Senecio* species E, spoon cudweed *Stuartina muelleri*, annual bluebell *Wahlenbergia gracilenta*, snowgrass *Poa meionectes*, and wattle mat-rush *Lomandra filiformis ssp. coriacea*. This woodland covers a relatively small area at the northern boundary of the reserve.

Long Leaved Box (Black Cypress Pine) heath shrub forest: This forest type has a canopy of long-leaved box *Eucalyptus goniocalyx* and red stringybark *E. macrorhyncha*. The mid storey consists of common fringe-myrtle *Calytrix tetragona*, lesser guinea flower *Hibbertia calycina*, varnish wattle *Acacia verniciflua*, *Cassinia longifolia*, grass tree *Xanthorrhoea glauca ssp. angustifolia*, green wattle *Acacia deanei ssp. Deanei*, a woolly grevillea/crimson grevillea cross *Grevillea lanigera x polybractea* and *Daviesia pubigera*. The understorey is dominated by forbs including *Persoonia rigida*, spotted doubletail *Diuris maculata*, *Damperia purpurea* and *Senecio anethifolius*. There are scattered pockets of this vegetation type throughout the central and western areas of the reserve.

Blue Gum – Broad-Leaved Peppermint dry grass shrub forest: This forest type has a canopy of southern blue gum *Eucalyptus bicostata*, broad-leaved peppermint *E. dives*, red stringybark *E. macrorhyncha* and Robertson's peppermint *E. robertsonii ssp. robertsonii*. The mid storey is composed of common bracken *Pteridium esculentum*, silver wattle *Acacia dealbata*, *Cassinia longifolia*, *Hovea linearis*, honeypots *Acrotriche serrulata*, *Platylobium formosum ssp. formosum*, pale wedge pea *Gompholobium huegelii* and *Monotoca scoparia*. The understorey is made up of grasses, forbs and sedges including twyning glycine *Glycine clandestina*, rough bedstraw *Galium gaudichaudii*, native geranium *Geranium solanderi var solanderi*, *Plantago varia*, *Brachycome spathulata*, pink fairy *Caladenia carnea var carnea*, kidneyweed *Dichondra repens*, cudweed *Euchiton gymnocephalus*, nodding greenhood *Pterostylis nutans*,

prickly starwort *Stellaria pungens*, Australian bluebell *Wahlenbergia stricta ssp. stricta*, common whaetgrass *Elymus scaber var scaber*, wattle mat-rush *Lomandra filiformis ssp. filiformis* and snow grasses *Poa sieberiana var hirtella* and *Poa sieberiana var cyanophylla*. This community dominates the gentle gradients in the centre of the reserve with some small pockets in the east and south.

The populations of southern blue gum *E. bicostata* that exist in the reserve are considered regionally significant. The stands within the reserve are most likely regrowth following logging in the area, and they cover a range of age classes from new regrowth to mature trees. These trees represent significant habitat for arboreal animals and owls in the reserve.

Two flora species have been recorded within the reserve that are listed on the schedules of the *Threatened Species Conservation Act 1995* (TSC Act). These are the Yass daisy *Ammobium craspedioides* which is listed as vulnerable, and the crimson spider orchid *Caladenia concolor* which is listed as endangered. The Wee Jasper grevillea *Grevillea iaspicula*, also listed as endangered, has been recorded just outside the reserve.

Over recent years there has been an ongoing project to protect the population of Wee Jasper grevillea. This project involves maintaining a fence around the population to protect the plants from goats and other pest species, and the use of a gravity fed watering system to prevent seedling stress during drought periods. The fence must be checked several times a year to ensure that rock falls and other factors have not allowed goats to access the area.

A Threatened Species Priorities Action Statement (PAS) has been prepared that identifies strategies and actions to promote the recovery of many threatened plant species, populations and ecological communities and manage key threatening processes.

3.3 NATIVE ANIMALS

NSW Wildlife Atlas records reveal a high diversity of native animals within the reserve. A total of 223 species have been recorded in the reserve, made up of 3 amphibian species, 9 reptile species, 179 bird species and 32 mammal species.

Sixteen fauna species that are listed on the schedules of the TSC Act have been recorded within the reserve. These species are listed in Table 1. Some of these threatened species were recorded in the reserve up to 30 years ago and have not been recorded since, for example the olive whistler and the speckled warbler, so may no longer be present.

The Murrumbidgee River below Burrinjuck Nature Reserve is part of the Endangered Ecological Community of the Lower Murray Catchment. This community includes known or expected habitat for several threatened fish species listed under the *Fisheries Management Act 1994*, including trout cod *Maccullochella macquariensis*, silver perch *Bidyanus bidyanus*, and Macquarie perch *Macquaria australasica*. Any fire management or other operational activities in the reserve will take into account this important aquatic habitat.

The Threatened Species Priorities Action Statement (PAS) also identifies strategies and actions to promote the recovery of threatened animal species, populations and ecological communities and manage key threatening processes for species.

A full fauna list has been included in Appendix 1.

Table 1. Threatened animal species recorded in Burrinjuck Nature Reserve

Common name	Scientific name	Legal Status ¹
Gang-gang cockatoo	Callocephalon fimbriatum	Vulnerable
Turquoise parrot	Neophema pulchella	Vulnerable
Superb parrot	Polytelis swainsonii	Vulnerable
Barking owl	Ninox connivens	Vulnerable
Powerful owl	Ninox strenua	Vulnerable
Brown treecreeper	Climacteris picumnus	Vulnerable
Speckled warbler	Pyrrholaemus sagittatus	Vulnerable
Black-chinned honeyeater (eastern subspecies)	Melithriptus gularis subsp. gularis	Vulnerable
Hooded robin	Melanodryas cucullata	Vulnerable
Grey-crowned babbler (eastern subspecies)	Pomatostomus temporalis subsp. temporalis	Vulnerable
Olive whistler	Pachycephala olivacea	Vulnerable
Diamond firetail	Stagonopleura guttata	Vulnerable
Spotted-tailed quoll	Dasyurus maculatus	Vulnerable
Yellow-bellied glider	Petaurus australis	Vulnerable
Squirrel glider	Petaurus norfolcensis	Vulnerable
Eastern bent-wing bat	Miniopteris schreibersii oceanensis	Vulnerable

¹ Status under TSC Act

3.4 ABORIGINAL HERITAGE

Aboriginal communities have an association and connection to the land. The land and water within a landscape are central to Aboriginal spirituality and contribute to Aboriginal identity. Aboriginal communities associate natural resources with the use and enjoyment of foods and medicines, caring for the land, passing on cultural knowledge, kinship systems and strengthening social bonds. Aboriginal heritage and connection to nature are inseparable from each other and need to be managed in an integrated manner across the landscape.

Burrinjuck Nature Reserve is within an area that was inhabited by the Ngunawal people, and together with the surrounding area provided the Ngunawal people with a variety of foods, medicines, shelter and utensils. Today the northern portion of the reserve is within the area of the Onerwal Local Aboriginal Land Council, and the southern portion is within the area of the Tumut/Brungle Local Aboriginal Land Council. The southern section of the reserve is within an area of land subject to the Tumut-Brungle Area registered Indigenous Land Use Agreement.

Seven Aboriginal sites have been recorded within the reserve, ranging from small to very large artefact scatters. These sites have all been identified along roadsides and easements, and their size and number indicate that more sites are likely to exist within the reserve. Grinding stones and possible scar trees have also been identified in the reserve.

One significant Aboriginal artefact scatter was damaged prior to acquisition of the reserve and measures have since been undertaken to prevent further erosion at the site.

The high number of artefacts found, the wide variety of artefacts and the presence of sub-surface archaeological deposits all indicate repeated and extended occupation by Aboriginal people (English 1998). Prior to the construction of Burrinjuck Dam, the reserve was close to the junction of the Goodradigbee and Murrumbidgee Rivers, both of which were of high significance to Aboriginal people. This significant junction, as well as the limestone outcrops in the area (Cave Island), indicate that this was most likely a very significant meeting place. Several major sites have also been recorded at the head of the Goodradigbee River on Mt Morgan; this shows that the river was a significant ceremonial path (Boot 2004).

3.5 HISTORIC HERITAGE

Fourteen historic sites have been identified within Burrinjuck Nature Reserve, dating from the period that Burrinjuck was managed as a state forest, from agricultural use of the area (slaughter yards, saw pits and dams) and from the period of construction of Burrinjuck Dam.

In 1908 a railway was constructed from Goondah to Burrinjuck to carry cement, materials and passengers to the Burrinjuck Dam construction site. The narrow-gauge locomotives used on the line had to be refilled with water at several places along the line and several dams and weirs were constructed for this purpose (Chanson & James 1999). The most notable of these, the De Burgh Dam, was built in 1907 to collect water from Carrolls Creek. This dam was the first reinforced-concrete thin arch dam to be constructed in Australia (Chanson & James 1999). Burrinjuck dam was completed in 1928 and the Goondah-Burrinjuck railway line was dismantled the following year. The railway route was later converted to a road and now provides public vehicle access to the state recreation area and the Dam and power station. The De Burgh Dam and several weirs further down the line are still intact but are fully silted.

Burrinjuck Dam and Lake and the surrounding foreshores were listed on the State Heritage Register in April 1999 as "a fascinating example of how applied modern technology has been used to meet the demand of an expanding rural area". The greater dam site includes many structures and artefacts (both above and below water) that are associated with the early construction phases of Burrinjuck Dam. These include railway remnants, the De Burgh locomotive water supply dam, Barren Jack water supply dam, a children's graveyard at the former town site, a Church of England church and some former staff cottages. None of these sites are within the reserve.

A number of pine trees in the reserve were originally planted during the construction of Burrinjuck Dam. The heritage value of these trees has not been determined.

3.6 PUBLIC USE

Burrinjuck Waters State Park is located at the southeast of the reserve's northern block, on the foreshores of Burrinjuck Dam. This recreation area is managed by the Land and Property Management Authority and provides cabin accommodation and camping facilities and caters for water sports such as boating, fishing and swimming.

Recreational activities not consistent with the study of nature and natural environments are generally considered inappropriate uses of nature reserves. The reserve currently receives low levels of use for activities such as nature study, walking and bird watching, with most users originating from the state park. The reserve is also a popular destination for recreational anglers.

One public access road, Burrinjuck Road, passes through the reserve and provides access to the state park as well as the dam wall and power station. All other trails within the reserve are management trails and not for public vehicular use. There are no public facilities in the reserve other than the Hume and Hovell walking track, which is managed by the Land and Property Management Authority and passes through the south-east of the reserve and into the state park from where a boat trip is required across the dam, and a walking track that runs from the state park to Mount Barren Jack. The latter track is quite steep, is only suitable for experienced walkers, and receives very little use.

4. THREATS TO RESERVE VALUES

4.1 INTRODUCED PLANTS

An introduced plant species is defined in this plan as any species not endemic to the reserve. Introduced species within the reserve and on adjoining land are of concern because they have the potential to have detrimental effects on ecological values and can spread to and from neighbouring land. The *Noxious Weeds Act 1993* places an obligation upon public authorities to control noxious weeds on land that they occupy to the extent necessary to prevent such weeds spreading to adjoining lands. NPWS also has a priority to control environmental weeds that threaten natural habitats.

The NPWS South West Slopes Region Pest Management Strategy identifies priority pest species and programs for action through set criteria. By following a similar process the prioritisation of reserve pest species programs may be established and directly linked into the regional strategies. This risk analysis will consider such issues as the control of weeds in endangered ecological communities, significant remnant vegetation associations, threatened/endangered species habitat and areas of neighbour concern. The risk of new weed incursions will also be considered.

Introduced plant species recorded in the reserve include St John's wort *Hypericum* perforatum, Paterson's curse *Echium plantagineum*, blackberry *Rubus fruticosus*, serrated tussock *Nassella trichotoma*, sweet briar *Rosa rubiginosa* and radiata pine *Pinus radiata*. Since gazettal, ongoing weed control programs have focussed on reducing the extent of blackberry within the reserve. In the past, control programs have also targeted St John's wort, sweet briar, and Paterson's curse.

There are a large number of very old (~80 years old) radiata pine trees growing along Burrinjuck Road. These trees are a constant source of wildings and have led to a high number of pines of various ages within the reserve. A radiata pine wilding control program using stem injections began in 1999. The aim of this program is to target the younger pines at the edges of the infestation to prevent spread and then progressively poison the trees back towards Burrinjuck Road. It is planned that the trees closest to the road will be cut down rather than poisoned to ensure they do not fall on the road as they die.

A road easement exists along the Burrinjuck Road which is managed by Yass Council, NPWS will work with the council to manage the pine trees within this reserve.

The pine tree control program will not target the large original pine trees planted during the construction of Burrinjuck Dam. The heritage value of these trees needs to be assessed.

4.2 INTRODUCED ANIMALS

An introduced animal species is defined in this plan as any animal species not native to the reserve. Introduced animals may impact upon native fauna populations through predation or competition for food or shelter. Introduced animals in the reserve include wild dogs, feral pigs, red foxes, goats, feral cats and rabbits. All introduced species are managed in accordance with the actions listed in the Regional Pest Management Strategy.

The Burrinjuck area has had a long history of wild dog and fox predation on domestic stock, predominantly sheep. Wild dog immigration is thought to stem from downstream of Burrinjuck Dam where access across the Murrumbidgee River is possible during periods of low flow. Sandpad monitoring is undertaken annually to monitor pest animal numbers and to assess the effectiveness of control programs. A dog and fox control program, utilising 1080 baits, is undertaken in the reserve in conjunction with the Southern Tablelands Livestock Health and Pest Authority.

Feral goats exist in high numbers in the eastern section of the nature reserve. A control program undertaken in 2006 resulted in the removal of 22 goats from the reserve. Follow up programs in 2007 and 2008 resulted in the removal of a further 91 goats and 180 goats respectively. Goats impact heavily on native vegetation and pose a significant threat to populations of the Wee Jasper grevillea.

There have been signs of pig activity in the reserve but there is currently no control program specifically targeting this species. There has been some evidence of stock straying into the reserve from neighbouring properties, particularly during recent periods of severe drought. Rabbits exist in the reserve in small numbers.

4.3 FIRE MANAGEMENT

Fire is a natural feature of many environments and is essential for the survival of some plant communities. However, inappropriate fire regimes can lead to loss of particular plant and animal species and communities, and high frequency fires have been listed as a key threatening process under the TSC Act.

The primary fire management objectives of the NPWS are to protect life and property and community assets from the adverse impacts of fire, whilst managing fire regimes to maintain and protect biodiversity and cultural heritage (NPWS, 2005). The NPWS uses a zoning system for bushfire management which is compatible with the zoning used by the Southern Tablelands Zone Bush Fire Management Committee (BFMC) in its bushfire risk management plan.

A separate map-based fire management strategy has been prepared for Burrinjuck Nature Reserve. Annual hazard reduction programs, which may include mechanical fuel reduction, prescribed burning and fire trail works, are submitted to the BFMC. Six prescribed burns have been implemented within the reserve since 1982.

Wildfires have occurred on average 16 years apart for the last 66 years, although it is likely that they were more frequent in the past due to steam train access through the area. In the majority of cases ignitions were caused by lightning. Large landscape fires burnt through the reserve and surrounding region in 1951, 1972 and 2003. These fires came from the west-northwest, burnt the entire reserve and continued to the east. The most recent wildfire, in January 2003, started west of the reserve boundary and, after burning through Burrinjuck Nature Reserve and the state park, jumped the Murrumbidgee River and Burrinjuck Dam, and spotted to the east, south and southwest of the reserve. Close to 30,000 hectares of land was affected.

The intensity and frequency of fires in the reserve means that a high intensity wildfire occurring within the next 15-30 years could severely impact the biodiversity of the reserve.

In 1998 the CSIRO undertook a vegetation survey in Burrinjuck Nature Reserve, with the aim of producing a vegetation map of the reserve. Following the fires of 2003 it was decided to return to the survey plots established in 1998 to monitor the vegetation recovery in the reserve for five years following the fires. 2007 marks the end of this initial five year period and it is intended for monitoring to now take place once every five years.

A fuel monitoring program was initially established in 1998 to monitor fine fuels and establish photographic points at each monitoring site. This program was repeated in 2002 and 2004. The fire management strategy for the reserve recommends that fuel monitoring is repeated every five years.

4.4 VISITOR IMPACTS

At present there is some evidence of illegal use of the reserve by trail bike riders and four-wheel drive vehicles. Some informal camping also takes place in the reserve, especially close to the foreshores of the dam and along the Murrumbidgee River.

One of the main threats to the endangered crimson spider orchid is damage caused by vehicles leaving established tracks. Illegal access to reserve trails needs to be prevented as part of the threat abatement plan for this species.

4.5 CLIMATE CHANGE

Climate change has been listed as a key threatening process under the Threatened Species Conservation Act. Projections of future changes in climate for NSW include higher temperatures, increasing sea levels and water temperatures, elevated CO₂, more intense but possibly reduced annual average rainfall, increased temperature extremes and higher evaporative demand. These changes are likely to lead to greater intensity and frequency of fires, more severe droughts, reduced river runoff and water availability, regional flooding.

Climate change may significantly affect biodiversity by changing population size and distribution of species, modifying species composition, and altering the geographical extent of habitats and ecosystems. Species most at risk are those unable to migrate or adapt, particularly those with small population sizes or with slow growth rates. The potential impact of climate change is difficult to assess since it depends on the compounding effects of other pressures, particularly barriers to migration.

Adjusting our management of the environment through programs to reduce the pressures arising from other threats will help reduce the severity of the effects of climate change.

5. MANAGEMENT OPERATIONS AND OTHER USES

There are two powerline easements crossing the reserve. Several trails follow these easements and are used by Transgrid to access their facilities for maintenance.

The endangered crimson spider orchid is commonly found at the sides of trails and roads. This species is at threat from inadvertent damage during road maintenance activities, as well as from vehicles travelling off-road. Management of this species will need to be considered during any planned trail maintenance activities. Vehicles used for management operations should not travel off track unless absolutely necessary.

The northern portion of the reserve is accessed via Burrinjuck Road. The southern portion can be accessed through private property, off Wee Jasper Road, or by boat.

6. MANAGEMENT STRATEGIES AND ACTIONS

Current Situation	Desired Outcomes	Management Response	Priority
6.1 Soil and water conservation			
Several trails in the reserve are very steep and there is the potential for erosion to occur		6.1.1 Undertake all works in a manner that minimises erosion and water pollution.	High
during and after rain. Soil erosion has the potential to become a major problem if frequent fires remove ground	or arrested and natural erosion is minimised where appropriate.	6.1.2 Continue to support the Murrumbidgee Catchment Management Authority to maintain and improve water quality in the catchments.	Low
cover.	Water quality and health of reserve streams is improved.	6.1.3 If prescribed burning, ensure burn areas are strategically implemented across the landscape so that large areas and slopes are not left exposed.	Medium
		6.1.4 Maintain steep trails, including the track to Barren Jack, with appropriate drainage measures to help prevent erosion.	High
		6.1.5 Continue goat control programs to minimise erosion caused by the species and improve water quality in the reserve.	High

Current Situation	Desired Outcomes	Management Response	Priority
6.2 Native plants		6.0.1 Encourage vertation automorphisms	
een	Native plant species	o.z. i Ericoulage vegetation surveys for tineatened plant species.	
recorded in the reserve. It has been suggested that fire may promote recruitment of the crimeon enider flower	and communities are conserved.	6.2.2 Develop appropriate long-term conservation and	Medium
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Structural diversity	significant vegetation.	
reserve are in the Threatened Species III the Priorities Action Statement	and nabilat values are restored in areas subject to past	6.2.3 Continue to undertake goat control programs to minimise impacts of this species on native vegetation	High
	disturbance.	specifically populations of threatened species.	
The reserve also supports several stands of		6.9.4 Maintain foncing armore bullations of Wea	Ţ Į
considered regionally significant.		Jasper grevillea to ensure domestic stock and pest	_ D = -
		species are excluded.	
Several populations of threatened species in the area, particularly of Wee Jasper grevillea,		6.2.5 Undertake annual control of blackberry and	High
are located on private land. Exclusion fencing		sweet briar in areas where threatened species occur.	,
has been established around one population of the Wee Jasper grevillea.		6.2.6 Undertake enrichment planting of Wee Jasper grevillea sites.	Medium
		6.2.7 Work with neighbours and catchment management authorities to encourage conservation and appropriate management of key habitat and	Low
		corridors adjacent to the park, especially those areas where threatened species and significant vegetation	
		communities are located.	
		6.2.8 Encourage research into the effect of fire on the crimson spider orchid.	Low

Current Situation	Desired Outcomes	Management Response	Priority
6.3 Native Animals			
Sixteen threatened fauna species have been recorded in the reserve, including 12 bird species and 4 mammal species. Other	Native animal species are	6.3.1 Encourage surveys for threatened animal species.	Medium
species may also be present, and some records are very old and need confirming.	There is greater understanding of	6.3.2 Identify and protect significant roost habitat for eastern bentwing-bats in artificial structures, eg culverts, old buildings, mines.	Medium
Inreatened species in the reserve are managed in accordance with the Threatened Species Priorities Action Statement. This identifies the need to assist the eastern	species diversity, distribution and ecological	6.3.3 Establish formal conservation arrangements with neighbouring properties to protect barking owl habitat.	Low
bentwing-bat by protecting artificial roosting sites as well as natural hollows, and to protect large area of natural hush to provide habitat		6.3.4 Undertake surveys for threatened woodland birds in areas of suitable habitat.	Low
for the barking owl.		6.3.5 Continue cooperative fox and dog control programs to minimise the impacts of these species on	High
Surveys have been undertaken in the past for spotted-tailed quolls.		native fauna.	

6.4 Cultural Heritage Seven Aboriginal sites have been identified in Abcthe reserve, and there is the potential for more hist			
4			
_	Aboriginal and historic features and	6.4.1 Precede all ground disturbance work by a check for cultural features. Any works undertaken will	High
to be identified. valuand and and	values are identified and protected.	incorporate appropriate conservation measures to mitigate impacts on cultural heritage.	
The sites that have been identified are large and illustrate the importance of this area to the Abc	Aboriginal people are	6.4.2 Consult and involve the Onerwal and Tumut-	High
Aboriginal community.	involved in management of the	Brungle Local Aboriginal Land Councils and other relevant Aboriginal community organisations in the	
	Aboriginal cultural	management of Aboriginal sites, places and values,	
free reserve including relics of agricultural use, ware forestry and dam construction.	values III III e pain.	including interpretation of places of values.	
Unc	Understanding of the cultural values of the	6.4.3 Encourage further research into the Aboriginal heritage values of the park in consultation with the	Low
parl	park is improved.	Onerwal and Tumut-Brungle LALCs and community groups.	
		6.4.4 Historic sites in the reserve will be recorded and left in situ.	Low
		6.4.5 Undertake a cultural assessment of the original pine trees planted during construction of Burrinjuck Dam.	Low

Current Situation	Desired Outcomes	Management Response	Priority
6.5 Climate Change			
Climate change has been listed as a key threatening process under the TSC Act.	The effects of climate change on the reserve are better understood.	The effects of climate 6.5.1 Encourage research into appropriate indicator change on the species within the reserve are better climate change.	Medium
	The impacts of climate change on natural systems are reduced.	6.5.2 Continue existing fire, pest and weed management programs to increase the ability of native flora and fauna to cope with future disturbances, including climate change.	Medium

Current Situation	Desired Outcomes	Management Response	Priority
6.6 Introduced Plants and Animals			
The reserve contains a number of weed species including blackberry, St John's wort, Paterson's curse, serrated tussock and radiata	Introduced plants and animals are	6.6.1 Manage introduced species in accordance with the Regional Pest Management Strategy.	High
pine. Control programs have been commenced for these species in accordance with regional priorities. The reserve contains a number of introduced	possible eliminated. Pest control programs are	6.6.2 Control and, where possible, eradicate introduced plants and animals. Monitor noxious and significant environmental weeds. Treat any new outbreaks where possible.	High
animals including wild dogs, red foxes, feral pigs, feral goats, feral cats and rabbits. The Regional Pest Management Strategy was	consultation with neighbours.	6.6.3 Undertake integrated pest control programs with the Southern Tablelands Livestock Health and Pest Authority and neighbours.	High
prepared in 2008. At present there is some evidence of straying stock entering the reserve. The majority of		6.6.4 Maintain an ongoing fox and dog control program in conjunction with neighbours and the Livestock Health and Pest Authority.	High
boundary fences were replaced following the fires in 2003.		6.6.5 Implement a control program for pigs. Sand pad monitoring indicates a rise in pig numbers, and pig impacts are noted.	High
		6.6.6 Continue the feral goat control program.	High
		6.6.7 In conjunction with neighbours, maintain boundary fences and gates and determine strategies to exclude stock.	High

Current Situation	Desired Outcomes	Management Response	Priority
6.7 Fire Management			
The most recent wildfire occurred in January 2003. There have been few recorded ignitions in the reserve but evidence suggests that fire	Life, property and natural values are protected	6.7.1 Implement the Reserve Fire Management Strategy for the reserve.	High
has been frequent over the last 50 years.	from fire.	6.7.2 Participate in the Southern Tablelands Zone Bush Fire management Committee Maintain	High
A high intensity fire within the next 15-30 years could severely impact biodiversity in the reserve.	Fire frequencies are appropriate for conservation of	cooperative arrangements with RFS brigades and fire control officers, other fire authorities and surrounding landowners in regard to finel management and fire	
A map-based Fire Management Strategy was	native plant and animal communities.	suppression.	
prepared in 2006. The facilities of Burriniuck Waters State Park		6.7.3 Manage the nature reserve to protect biodiversity in accordance with the identified fire interval guidelines	High
are located immediately adjacent to the reserve boundary. Burrinjuck Village is within 2 kilometres of the reserve boundary.		Management Strategy.	

Current Situation	Desired Outcomes	Management Response	Priority
6.8 Recreational Opportunities			
Burrinjuck Waters State Park is located on the southern boundary of the reserve. Facilities	Visitor use is appropriate and	6.8.1 Exclude vehicular access except for essential management requirements of the reserve.	High
include accommodation, camping, and water sports.	ecologically sustainable.	6.8.2 Provide information indicating appropriate uses of the reserve at all access points.	Medium
The reserve receives some use for bushwalking, bird watching and camping. Most visitors originate from the nearby state park.	Visitor use encourages appreciation of the	6.8.3 Permit day bushwalks, picnics and educational visits, subject to limits on numbers and other conditions if necessary to minimise impacts. No	Medium
There is some evidence of illegal use by trailbike riders and four-wheel drive vehicles. This	The local community	facilities will be provided and no fires will be permitted in the reserve.	
kind of activity can have an extremely detrimental impact on threatened species, such as the crimson spider orchid which commonly grows along roadsides.	is aware of the significance of the area and of management	6.8.4 Maintain the walking track to the top of Mount Barren Jack to a Class 4 Australian Standard walking track. Provide minimal directional signage where necessary.	Low
Promotion of community understanding and appreciation of the conservation values of the reserve is important for minimising damaging activities and maximising visitor enjoyment.	programs.	6.8.5 Prohibit camping, trail bike riding and horse riding. Utilise a range of techniques including installation of barriers and law enforcement activities as necessary to prevent these activities continuing in	High
The walking track to Mount Barren Jack receives minimal use and is maintained at a standard intended for experienced walkers.		the reserve. 6.8.6 Monitor levels and impacts of use.	High
		6.8.7 Organise media releases, educational material and contact with neighbours and community organisations where necessary, ensure information about the reserve's values and appropriate use is made available at Burriniuck Waters State Park.	Low

Current Situation	Desired Outcomes	Management Response	Priority
6.9 Management Operations and Other Uses			
Management trails in the reserve are maintained at Cat 9 fire vehicle standard as outlined in the Bushfire Coordinating	Management facilities and operations adequately serve	6.9.1 Maintain the trails shown on the map for management purposes.	High
Committee's Policy on Fire Trails.	management needs and have minimal	6.9.2 Provide information to NPWS and Transgrid staff about protecting the crimson spider orchid.	High
Vegetation regrowth at the sides of management trails is controlled.	impact.	6.9.3 Maintain signage on management trails to restrict	High
Transgrid across nowerline easements in the	Existing non-park	unauthorised access.	
reserve to carry out maintenance work. This	managed to minimise	6.9.4 All watercraft access to the reserve is in	Low
access is undertaken in accordance with a Memorandum of Understanding.	impacts on natural and cultural values.	accordance with the Policy Statement for Watercraft Management:	
		 Watercraft to be launched from formed roads or 	
Off-road vehicle use and road and trail		ramps only, unless the craft can be carried to and	
the crimson spider orchid.		 Watercraft are not to be moored to vegetation. 	
The park boundary lies on the mean high water mark of Burrinjuck Dam, although the water level is rarely at this point.			
The southern portion of the reserve is occasionally accessed by boat.			

PRIORITIES

High priority activities are those imperative to achievement of the objectives and desired outcomes. They must be undertaken in the near future to avoid significant deterioration in natural, cultural or management resources.

Medium priority activities are those that are necessary to achieve the objectives and desired outcomes but are not urgent.

Low priority activities are desirable to achieve management objectives and desired outcomes but can wait until resources become available.

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APPENDIX 1 FAUNA SPECIES LIST FOR BURRINJUCK NATURE RESERVE

Scientific Name	Common Name	Status
Amphibians		
Crinia parinsignifera	Eastern Sign-bearing Froglet	Protected
Crinea signifera	Common Eastern Froglet	Protected
Limnodynastes tasmaniensis	Spotted Grass Frog	Protected
Litoria leseuri	Leseur's Frog	Protected
Pseudophryne bibronii	Bibron's Toadlet	Protected
Reptiles		
Amphibolurus nobbi	Nobbi Lashtail	Protected
Carlia tetradactyla	Southern Rainbow Skink	Protected
Christinus marmoratus	Marbled Southern Gecko	Protected
Ctenotus robustus	Striped Skink	Protected
Ctenotus taeniolatus	Copper-tailed Ctenotus	Protected
Egernia saxatilis	Black Crevice-skink	Protected
Emydura macquarii	Murray Short-necked Turtle	Protected
Eulamprus heatwolei	Warm-temperate Water-skink	Protected
Hemiergis decresiensis	Three-toed Earless Skink	Protected
Niveoscincus coventryi	Southern Forest Cool-skink	Protected
Pogona barbata	Eastern Bearded Dragon	Protected
Pseudechis porphyriacus	Red-bellied Black Snake	Protected
Birds		
Acanthiza chrysorrhoa	Yellow-rumped Thornbill	Protected
Acanthiza lineata	Striated Thornbill	Protected
Acanthiza nana	Yellow Thornbill	Protected
Acanthiza pusilla	Brown Thornbill	Protected
Acanthiza reguloides	Buff-rumped Thornbill	Protected
Acanthorhynchus tenuirostris	Eastern Spinebill	Protected
Accipiter fasciatus	Brown Goshawk	Protected
Accipter cirrocephalus	Collared Sparrowhawk	Protected
Aegotheles cristatus	Australian Owlet-nightjar	Protected
Alcedo azurea	Azure Kingfisher	Protected
Alisterus scapularis	Australian King Parrot	Protected
Anas castanea	Chestnut Teal	Protected
Anas gracilis	Grey Teal	Protected
Anas rhynchotis	Australasian Shoveler	Protected
Anas superciliosa	Pacific Black Duck	Protected

Anthochaera carunculata Red Wattlebird Protected Anthus australis Australian Pipit Protected Aquila audax Wedge-tailed Eagle Protected Ardea alba Great Egret Protected Ardea nitermedia Intermediate Egret Protected Ardea novaehollandiae White-faced Heron Protected Ardea pacifica White-necked Heron Protected Artamus cinereus Black-faced Woodswallow Protected Artamus cyanopterus Dusky Woodswallow Protected Artamus personatus Masked Woodswallow Protected Artamus superciliosus White-browed Woodswallow Protected	Scientific Name	Common Name	Status
Aquila audaxWedge-tailed EagleProtectedArdea albaGreat EgretProtectedArdea intermediaIntermediate EgretProtectedArdea novaehollandiaeWhite-faced HeronProtectedArdanus cinereusBlack-faced WoodswallowProtectedArtamus cinereusDusky WoodswallowProtectedArtamus personatusMasked WoodswallowProtectedArtamus superciliosusWhite-browed WoodswallowProtectedArtamus superciliosusWhite-browed WoodswallowProtectedAshiga melanogasterDarterProtectedAythya australiaHardheadProtectedBiziura lobataMusk DuckProtectedCacatua galeritaSulphur-crested CockatooProtectedCacomantis flabelliformisFan-tailed CuckooProtectedCalidris acuminataSharp-tailed SandpiperProtectedCallocephalon fimbriatumGang-gang CockatooVulnerableCalyptorhynchus funereusYellow-tailed Black-cockatooProtectedChalcites basalisHorsfield's Bronze-cuckooProtectedChalcites lucidusShining Bronze-cuckooProtectedChalcites lucidusShining Bronze-cuckooProtectedChenonetta jubataAustralian Wood DuckProtectedCincloramphus cruralisBrown SonglarkProtectedCincloramphus mathewsiRufous SonglarkProtectedCincloramphus mathewsiRufous SonglarkProtectedCilimacteris erythropsRed-browed TreecreeperVulnerable <td>Anthochaera carunculata</td> <td>Red Wattlebird</td> <td>Protected</td>	Anthochaera carunculata	Red Wattlebird	Protected
Ardea alba Great Egret Protected Ardea intermedia Intermediate Egret Protected Ardea novaehollandiae White-faced Heron Protected Ardea pacifica White-necked Heron Protected Artamus cinereus Black-faced Woodswallow Protected Artamus personatus Masked Woodswallow Protected Artamus personatus Masked Woodswallow Protected Artamus superciliosus White-browed Woodswallow Protected Artamus superciliosus White-browed Woodswallow Protected Ashiga melanogaster Darter Protected Ashiga melanogaster Darter Protected Biziura lobata Hardhead Protected Biziura lobata Musk Duck Protected Cacatua galerita Sulphur-crested Cockatoo Protected Cacatua galerita Sulphur-crested Cockatoo Protected Calidris acuminata Sharp-tailed Sandpiper Protected Calidris acuminata Sharp-tailed Black-cockatoo Vulnerable Callyptorhynchus funereus Yellow-tailed Black-cockatoo Protected Chalcites basalis Horsfield's Bronze-cuckoo Protected Chalcites lucidus Shining Bronze-cuckoo Protected Chalcites lucidus Shining Bronze-cuckoo Protected Cincloramphus cruralis Brown Songlark Protected Cincloramphus mathewsi Rufous Songlark Protected Cincloramphus mathewsi Rufous Songlark Protected Climacteris erythrops Red-browed Treecreeper Vulnerable Colluricincla harmonica Grey Shrike-thrush Protected Coracina maxima Ground Cuckoo-shrike Protected Coracina maxima Ground Cuckoo-shrike Protected Coracina movaehollandiae Black-faced Cuckoo-shrike Protected Corrocax melanorhamphos White-throated Treecreeper Protected Corrocax melanorhamphos White-throated Treecreeper Protected Corrocax melanorhamphos White-throated Treecreeper Protected Corvus sepp. Unidentified Corvid Protected Coturnix pectoralis	Anthus australis	Australian Pipit	Protected
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Corvus melloriLittle RavenProtectedCorvus spp.Unidentified CorvidProtectedCoturnix pectoralisStubble QuailProtected	Cormobates leucophaeus	White-throated Treecreeper	Protected
Corvus spp.Unidentified CorvidProtectedCoturnix pectoralisStubble QuailProtected	Corvus coronoides	Australian Raven	Protected
Coturnix pectoralis Stubble Quail Protected	Corvus mellori	Little Raven	Protected
,	Corvus spp.	Unidentified Corvid	Protected
Cracticus nigrogularis Pied Butcherbird Protected	Coturnix pectoralis	Stubble Quail	Protected
	Cracticus nigrogularis	Pied Butcherbird	Protected
Cracticus torquatus Grey Butcherbird Protected	Cracticus torquatus	Grey Butcherbird	Protected
Cuculus pallidus Pallid Cuckoo Protected	Cuculus pallidus	Pallid Cuckoo	Protected

Scientific Name	Common Name	Status
Cygnus atratus	Black Swan	Protected
Dacelo novaeguineae	Laughing Kookaburra	Protected
Daphoenositta chrysoptera	Varied Sittella	Protected
Dicaeum hirundinaceum	Mistletoebird	Protected
Dromaius novaehollandiae	Emu	Protected
Egretta garzetta	Little Egret	Protected
Egretta novaehollandiae	White-faced Heron	Protected
Elanus axillaris	Black-shouldered Kite	Protected
Elseyornis melanops	Black-fronted Dotterel	Protected
Entomyzon cyanotis	Blue-faced Honeyeater	Protected
Eolophus roseicapillus	Galah	Protected
Eopsaltria australis	Eastern Yellow Robin	Protected
Epthianura albifrons	White-fronted Chat	Protected
Erythrogonys cinctus	Red-kneed Dotterel	Protected
Eurostomus orientalis	Dollarbird	Protected
Falco berigora	Brown Falcon	Protected
Falco cenchroides	Nankeen Kestrel	Protected
Falco longipennis	Australian Hobby	Protected
Falco peregrinus	Peregrine Falcon	Protected
Falcunculus frontatus	Eastern Shrike-tit	Protected
Fulica atra	Eurasian Coot	Protected
Gallinula tenebrosa	Dusky Moorhen	Protected
Geopelia placida	Peaceful Dove	Protected
Gerygone olivacea	White-throated Gerygone	Protected
Glossopsitta pusilla	Little Lorikeet	Protected
Grallina cyanoleuca	Magpie-lark	Protected
Gymnorhina tibicen	Australian Magpie	Protected
Haliaeetus leucogaster	White-bellied Sea-eagle	Protected
Haliastur sphenurus	Whistling Kite	Protected
Hieraaetus morphnoides	Little Eagle	Protected
Hirundapus caudacutus	White-throated needletail	Protected
Hirundo neoxena	Welcome Swallow	Protected
Lalage tricolor	White-winged Triller	Protected
Larus novaehollandiae	Silver Gull	Protected
Leucosarcia melanoleuca	Wonga Pigeon	Protected
Lichenostromus chrysops	Yellow-faced Honeyeater	Protected
Lichenostromus fuscus	Fuscous Honeyeater	Protected
Lichenostromus leucotis	White-eared Honeyeater	Protected
Lichenostromus melanops	Yellow-tufted Honeyeater	Protected

Sc	ientific Name	Common Name	Status
Lic	henostromus penicillatus	White-plumed Honeyeater	Protected
Lic	henostromus virescens	Singing Honeyeater	Protected
Ма	llurus cyaneus	Superb Fairy-wren	Protected
Ма	norina melanocephala	Noisy Miner	Protected
Me	elanodryas cucullata	Hooded Robin	Vulnerable
Ме	elithreptus brevirostris	Brown-headed Honeyeater	Protected
Me	lithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Vulnerable
Me	lithreptus lunatus	White-naped Honeyeater	Protected
Ме	lopsittacus undulatus	Budgerigar	Protected
Me	nura novaehollandiae	Superb Lyrebird	Protected
Me	rops ornatus	Rainbow Bee-eater	Protected
Mic	croeca fascinans	Jacky Winter	Protected
Mil	vus migrans	Black Kite	Protected
Mir	rafra javanica	Horsfield's Bushlark	Protected
Му	iagra cyanoleuca	Satin Flycatcher	Protected
Му	iagra inquieta	Restless Flycatcher	Protected
Му	iagra rubecula	Leaden Flycatcher	Protected
Ne	ochmia temporalis	Red-browed Finch	Protected
Ne	ophema pulchella	Turquoise Parrot	Vulnerable
Nir	nox boobook	Southern Boobook	Protected
Nir	nox connivens	Barking Owl	Vulnerable
Nir	nox strenua	Powerful Owl	Vulnerable
Ny	cticorax caledonicus	Nankeen Night Heron	Protected
Ny	mphicus hollandicus	Cockatiel	Protected
Oc	yphaps lophotes	Crested Pigeon	Protected
Ori	iolus sagittatus	Olive-backed Oriole	Protected
Pa	chycephala olivacea	Olive Whistler	Vulnerable
Pa	chycephala pectoralis	Golden Whistler	Protected
Pa	chycephala rufiventris	Rufous Whistler	Protected
Pa	rdalotus punctuata	Spotted Pardalote	Protected
Pa	rdalotus striatus	Striated Pardalote	Protected
Pe	lecanus conspicillatus	Australian Pelican	Protected
Pe	trochelidon ariel	Fairy Martin	Protected
Pe	trochelidon nigricans	Tree Martin	Protected
Pe	troica boodang	Scarlet Robin	Protected
Pe	troica goodenovii	Red-capped Robin	Protected
Pe	troica phoenicia	Flame Robin	Protected
Pe	troica rosea	Rose Robin	Protected

Phalacrocorax carboGreat CormorantProtectPhalacrocorax melanoleucosLittle Pied CormorantProtect	ed
Phalacrocoray melanoleucos Little Pied Cormorant Protect	
Thatacrocorax metanoreucos Little Fied Communant Fiblech	ed
Phalacrocorax sulcirostris Little Black Cormorant Protect	ed
Phalacrocorax varius Pied Cormorant Protect	ed
Phaps chalcoptera Common Bronzewing Protect	ed
Philemon citreogularis Little Friarbird Protect	ed
Philemon corniculatus Noisy Friarbird Protect	ed
Phylidonyris pyrrhoptera Crescent Honeyeater Protect	ed
Phylodonyris novaehollandiae New Holland Honeyeater Protect	ed
Platalea flavipes Yellow-billed Spoonbill Protect	ed
Platalea regia Australian White Ibis Protect	ed
Platycercus adscitus eximius Eastern Rosella Protect	ed
Platycercus elegans Crimson Rosella Protect	ed
Podargus strigoides Tawny Frogmouth Protect	ed
Poliocephalus poliocephalus Hoary-headed Grebe Protect	ed
Polytelis swainsonii Superb Parrot Protect	ed
Pomatostomus superciliosus White-browed Babbler Protect	ed
Pomatostomus temporalis Grey-crowned Babbler (eastern Vulnera subspecies)	able
Porphyrio porphyrio Purple Swamphen Protect	ed
Psephotus haematonotus Red-rumped Parrot Protect	ed
Psophodes olivaceus Eastern Whipbird Protect	ed
Ptilonorhynchus violaceus Satin Bowerbird Protect	ed
Pyrrholaemus sagittatus Speckled Warbler Vulnera	able
Rhipidura albiscapa Grey Fantail Protect	ed
Rhipidura leucophrys Willie Wagtail Protect	ed
Rhipidura rufifrons Rufous fantail Protect	ed
Sericornis frontalis White Browed Scrubwren Protect	ed
Smicrornis brevirostris Weebill Protect	ed
Stagonopleura guttata Diamond Firetail Vulnera	able
Strepera graculina Pied Currawong Protect	ed
Strepera versicolor Grey Currawong Protect	ed
Struthidea cinerea Apostlebird Protect	ed
Tachybaptus novaehollandiae Australasian Grebe Protect	ed
Tadorna tadornoides Australian Shelduck Protect	ed
Taeniopygia bichenovii Double-barred Finch Protect	ed
Taeniopygia guttata Zebra Finch Protect	ed
Threskiornis spinicollis Straw-necked Ibis Protect	ed
Todiramphus sanctus Sacred Kingfisher Protect	ed

Scientific Name	Common Name	Status
Turdus merula	Blackbird	Protected
Tyto alba	Barn Owl	Protected
Vanellus miles	Masked Lapwing	Protected
Vanellus tricolor	Banded Lapwing	Protected
Zoothera sp.	Unidentified ground thrush	Protected
Zosterops lateralis	Silvereye	Protected

Mammals

Maiiiiiais		
Acrobates pygmaeus	Feathertail Glider	Protected
Antechinus stuartii	Brown Antechinus	Protected
Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable
Tachyglossus aculeatus	Short-beaked echidna	Protected
Macropus giganteus	Eastern Grey Kangaroo	Protected
Macropus robustus	Common Wallaroo	Protected
Macropus rufogriseus	Red-necked Wallaby	Protected
Miniopteris schreibersii oceanensis	Eastern Bentwing Bat	Vulnerable
Nyctophylus geoffroyi	Lesser Long-eared Bat	Protected
Nyctophylus gouldi	Gould's Long-eared Bat	Protected
Ornithorhynchus aculeatus	Platypus	Protected
Petaurus australis	Yellow-bellied Glider	Vulnerable
Petaurus breviceps	Sugar Glider	Protected
Petaurus norfolcensis	Squirrel Glider	Vulnerable
Petauroides volans	Greater Glider	Protected
Pseudocheirus peregrinus	Common Ringtail Possum	Protected
Rattus fuscipes	Bush Rat	Protected
Rhinolophus megaphyllus	Eastern Horseshoe Bat	Protected
Tachyglossus aculeatus	Short-beaked Echidna	Protected
Tadarida australis	White-striped Freetail Bat	Protected
Trichosurus vulpecula	Common Brushtail Possum	Protected
Vespadalus sp.		Protected
Vombatus ursinus	Common Wombat	Protected
Wallabia bicolor	Swamp Wallaby	Protected