City of
Wagga Wagga

# Wagga Wagga Roadside Vegetation Management Plan

February 2019

Prepared for the City of Wagga Wagga
by CTENVIRONMENTAL



Project: Wagga Wagga Roadside Vegetation Management Plan
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# How to use this plan

**This Roadside Vegetation Management Plan (or RVMP) will assist Wagga Wagga City Council to manage vegetation within the roadside reserve, particularly areas with moderate to high conservation value. The intention of this RVMP is to provide the council with an easy-to-use resource which identifies values, issues and appropriate actions to manage the roadside reserve at both the organisational and roadside operations levels.**

### Roadside vegetation and environmental values

**Section 3** describes the value and conservation significance of the native vegetation communities within the roadside reserve and identifies threats that have the potential to compromise the long-term viability of these communities.

### Priority areas

**Section 4** describes the method of assessment applied to determine the conservation significance of the roadside reserve (or reaches) as having low, moderate or high conservation value.

### Management actions

**Section 6** details recommended management actions for the roadside reserve at the organisational level ie. integrating the RVMP into the councils' integrated planning and reporting frameworks; and at the on-ground level by providing appropriate management actions for individual road reserve reaches.

### Assessed site profiles

**Appendix B** provides comprehensive profiles of each assessed roadside reserve reach. Each profile provides detail relating to conservation status, landscape context, vegetation condition, habitat features, threats and native flora species.

### Environmental assessment

When a development or maintenance activity is proposed within the roadside reserve there are 4 steps for which the RVMP will provide guidance when evaluating likely impacts:

Step 1: identify the section or reach of roadway and road reserve where the proposed activity will occur (refer to **maps on pages 16 and 17**)

Step 2: determine the conservation significance of that section or reach of road identified (refer to **map on page 19**)

Step 3: if the activity is proposed in a roadside reserve with moderate or high conservation value refer to site summaries (**Appendix B**) for detail on State or Federal conservation status of vegetation community.

Step 4: If the planned activity will impact the roadside reserve, the appropriate environmental assessment should be undertaken to determine if the proposed activity will impact vegetation within the roadside reserve or if there is a need for specialist studies such as flora and fauna surveys.

# Contents


**1 Vision and objectives**

Section 1 includes the vision, purpose and specific objectives for the RVMP.

page 5

**2 Roadside vegetation management in context**

Section 2 describes the context for roadside vegetation management in Wagga Wagga LGA

page 6

**3 Roadside vegetation and environmental values**

Section 3 describes values of native vegetation communities within roadside reserves and identifies threats that may compromise their long-term viability.

page 8

**4 Priority areas**

Section 4 describes the method of assessment applied to determine the conservation significance of the roadside reserves.

page 14

**5 Community strategic planning**

Section 5 tabulates elements of Council's Community Strategic Plan that relates to roadside reserve management.

page 20

**6 Management actions**

Section 6 details management actions for the roadside reserve at both organisational and on-ground level.

page 21

**7 Monitoring and evaluation**

Section 7 includes guidance for monitoring roadside vegetation assets and evaluating progress in condition and management of reserves.

page 27

**8 Legislation**

Section 8 lists relevant statutes and high-level planning instruments delineating responsibilities and requirements relating to roadside vegetation management.

page 30

**9 References**

Section 9 lists references used to prepare the RVMP including those that may assist with implementation.

page 35

**10 Appendices**

Four appendices accompany the RVMP and provide detailed information based on field assessments and native vegetation.

page 37

# 1

# Wagga Wagga plans for the growth of the city. We protect and enhance our natural areas. We create a sustainable environment for future generations.

**OBJECTIVE 1: CREATE AND MAINTAIN A FUNCTIONAL AND ATTRACTIVE BUILT ENVIRONMENT**

**OBJECTIVE 2: PROTECT AND ENHANCE OUR NATURAL AREAS**

**OBJECTIVE 3: EDUCATE THE COMMUNITY IN SUSTAINABILITY**



2

# Roadside vegetation management in context

## Wagga Wagga City Council recognises the vital role of the roadside reserve network in maintaining ecosystems alongside necessary transportation functions for their communities.

The Wagga Wagga local government area (LGA) is located in the Riverina region of south-western New South Wales covering traditional lands of the Wiradjuri people. Wagga Wagga straddles the Murrumbidgee River and the urban centre (colloquially known as Wagga) has a population of approximately 55,000, while the LGA as a whole has approximately 63,000.

Current land use across the LGA is a mix of urban and suburban residential, commercial/industrial and peri-urban in the city and townships with broad-scale agriculture covering extensive areas alongside State Forests and Nature Reserves of various types.

### Diversity in the long paddock

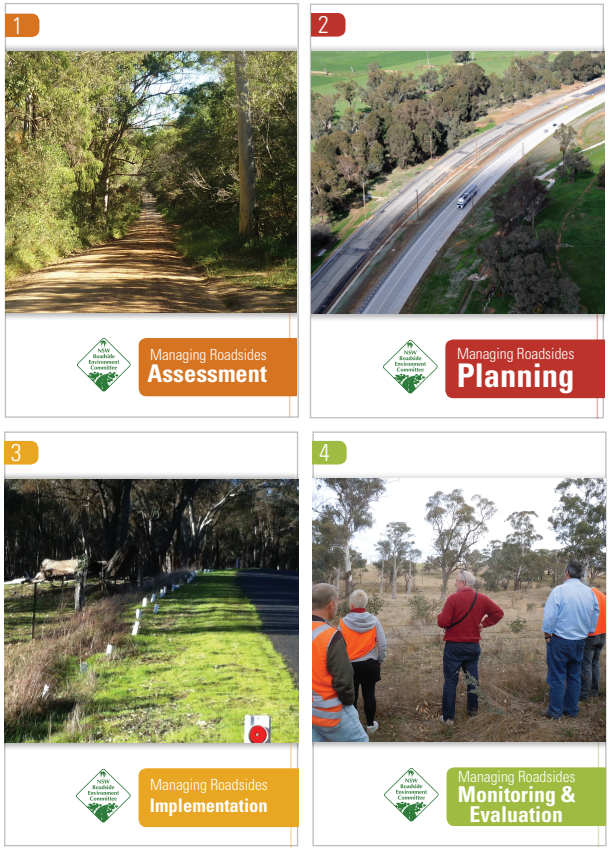
An extensive road network traverses the rural landscape and includes a combination of principal, secondary and minor roads and tracks. Vegetation within the adjoining roadside reserve network is diverse and ranges from native woodland to scattered paddock trees to rural yards. Many of the vegetation communities within the roadside reserve are listed as threatened ecological communities under both state and/or federal legislation and as a result these areas hold significant conservation value. These areas provide potential habitat for many native plants and animals, including threatened species such as Squirrel Gliders, Brown Tree Creepers, Glossy Black Cockatoos and Superb Parrots.

## A comprehensive assessment

Wagga Wagga City has recognised the significance of the roadside reserve network and the benefits these areas provide toward maintaining diverse and functional ecosystems to support native fauna and also serve rural needs. As a result, Council has identified the need to manage vegetation within the roadside reserves and undertaken desktop assessment and prioritisation of 2,239 kilometres of the roadside reserve, followed by field assessment of the conservation significance of approximately 731 kilometres of roadside within rural areas of the LGA.

Comprehensive information and data from this assessment have provided the Council with a baseline condition of vegetation within the roadside reserves. This will guide management practices that maintain or improve conservation significance while balancing this with community needs related to road and bushfire safety.

## Roadside management factsheets from NSW Roadside Environment Committee




The NSW Roadside Environment Committee has produced a series of four factsheets for roadside land managers covering assessment, planning, implementation and monitoring & evaluation.

http://www.rms.nsw.gov.au/about/what-we-do/committees/roadside-environment-committee.html



3

# Roadside vegetation, environmental values and threats

## for roadside managers

**"While the road infrastructure may be considered as a built asset, the roadside reserve containing vegetation, and other natural features may be considered as a natural asset. … Natural assets will appreciate with management over time."**

Local Government NSW Council Roadside Environmental Management Framework

The Wagga Wagga local government area is located within the South Western Slopes Biogeographic Region (or IBRA) and includes the Inner Slopes and Lower Slopes subregions.

Occurring within the biogeographic region and the Wagga Wagga LGA are the Mitchell landscapes of Adrah Hills and Ranges, Ardlethan Hills, Brokong Plains, Carabost Hills and Ranges, Coffin Rock Granite Hills, Junee Hills and Slopes, Lockhart Hills and Footslopes, Murrumbidgee - Tarcutta Channels and Floodplains and Wonga Hills and Ranges. These landscapes vary from 71% to 98% cleared in NSW, and are thus regarded as over-cleared landscapes.

Only the Tipperary Hills Granites is not yet over-cleared, with 33% remaining, however this is near the threshold for over-cleared landscapes (the threshold being 70% cleared).

Roadside environments and the conservation values present within the road reserve vary considerably. In the rural and peri-urban areas of Wagga Wagga LGA vegetation occurs in patches of variable size and is often highly fragmented. This increases the importance of roadside vegetation as stepping stones between remnant patches. Remnants provide valuable wildlife habitat and support areas of core habitat when linked to other vegetation across the landscape.

However, roadside vegetation continues to be under threat from poor management practices, despite these areas often containing high value remnant vegetation and threatened ecosystems.

The value of roadside vegetation is increasingly being recognised and appreciated. These areas provide a variety of ecosystem services, including:

- remnant vegetation acts as a corridor between otherwise isolated native vegetation stands, linking different native vegetation communities
- habitat for native species and important refuges for feeding, shelter and breeding, including threatened native plant and animal species and communities
- vegetated roadsides play a significant role in soil conservation and stormwater quality
- ground-cover vegetation helps prevent soil eroding on the road shoulder and in table drains
- vegetation filters sediment and pollutants from road run-off such as petrochemicals, improving water quality entering watercourses and protecting adjacent vegetation patches from stormwater impacts
- well managed native vegetation reduces weed maintenance pressure and acts as an effective means of weed control.

Roadside vegetation is a prominent part of the landscape and provides public amenity and aesthetic value. Well-structured native vegetation with trees and shrubs provides shelter from road noise, dust and prevailing winds and shade for residents and others using the roadside environment.

The value of the roadside vegetation is dependent on the landscape context in relation to the surrounding environment. Roadside vegetation may be the edge of a larger remnant on adjoining land or a thin strip of vegetation surrounded by a highly modified agricultural landscape.

Vegetation also adds value for recreation and tourism through provision of attractive roadsides, shady drives and walking environments, and improved microclimate and aesthetics.

**Less than 400 hectares of White Box Grassy Woodlands with relatively intact understorey are known to exist in New South Wales.**

The predominant vegetation type in the LGA is White Box Grassy Woodlands, which once covered 10 million hectares of the deep fertile soils of the wheat-sheep belt of south-eastern Australia. However, since European settlement an estimated loss of more than 90% of its distribution has occurred. Box Woodlands now only occur in isolated fragments on the western New South Wales slopes of the Great Dividing Range, in the north extending into Queensland to the southern Darling Downs and in the south extending into northern Victoria.

The dominant tree species of Box Gum Woodlands is generally White Box (*Eucalyptus albens*) with grass species dominating the ground layer. Other tree species associated with these woodlands include Blakely's Red Gum (*Eucalyptus blakelyi*), Yellow Box (*Eucalyptus melliodora*) and an associated understorey of native grasses including Kangaroo, Wallaby and Tussock grasses.

Endemic native vegetation across Wagga Wagga LGA is considered threatened, including vegetation types listed as critically endangered under NSW and National biodiversity management frameworks.

White Box Grassy Woodlands are one of the most highly fragmented and poorly reserved ecosystems in Australia.

Due to their occurrence on deep fertile soils this community has experienced a dramatic reduction in extent as woodland areas on good soils were converted into grazing and cropping lands.

This vegetation is under considerable pressure from ongoing clearing for agriculture and infrastructure and every effort should be made to conserve, connect and enhance that which remains.

The National Recovery Plan is available at https://environment.gov.au/system/files/resources/386f395f-b2c6-4e10-8fc3-e937ad277bfe/files/white-and-yellow-box.pdf

Ongoing threats to roadside native vegetation in Wagga Wagga LGA are illustrated and briefly described in the following panels. Similar descriptions of threatened plant community types (PCTs) cross-referenced to NSW and Australian endangered ecological communities (EECs) and threats associated with each EEC per the OEH BioNet database are comprehensively listed in the tables in **Appendix C.**



## invasive weeds

Weed infestation threatens viability and species diversity of roadside vegetation communities as weeds compete for resources and alter environmental conditions.

Avoiding or addressing new weed infestation is cheaper than removal once established, and well-managed roadside vegetation communities can exhibit greater resilience to a number of invasive species, including Chilean Needle Grass (*Nassella neesiana*) shown here.



## clearing

Changes in the use and management of land containing Box-Gum Grassy Woodland communities can have a significant impact on remnants. Agricultural development, urban/rural residential and urban development, and the development, maintenance and upgrade of public infrastructure result in clearing and modification of large areas of the ecological community. Changes to vegetation clearing laws pose increased risk of further loss and fragmentation particularity of small remnant patches and paddock trees.



## slashing/under-scrubbing

Slashing associated with road maintenance can impact on native vegetation in a number of ways including causing soil disturbance and compaction, destroying small plants, damaging tree roots and contributing to the spread of noxious and environmental weeds.



## litter/dumping

High levels of litter can smother ground cover species and affect growth. Dumping of larger objects including vehicles has greater impact, and encourages fire-setting.

The aesthetic impacts of litter and dumping are significant, both to community amenity values and by influencing behaviours, discouraging recreation and pedestrian activity in the roadside reserve environment



## frequent burning

Periodic burning plays an important role in development and maintenance of grassy ecosystems. However, frequent burning can limit recruitment of flora species, cause local extinctions of fire-sensitive species, facilitate the spread of some exotics, reduce habitat (fallen logs, hollow trees, litter) and threaten fauna populations.

In NSW “High frequency fire resulting in the disruption of life cycle processes in plants and animals and loss of vegetation structure and composition” is listed as a Key Threatening Process under the *Biodiversity Conservation Act 2016*.



## firewood removal

Collection of firewood from roadsides significantly reduces habitat value of vegetation communities. Dead standing trees and fallen timber provide protection and feeding resources for woodland birds, mammals, reptiles, amphibians and invertebrates and provides base material and environmental conditions for nutrient recycling. Vegetation of the western slopes and tablelands are particularly threatened by fire wood collection as Box Gum are a preferred firewood species. “Removal of dead wood and dead trees” is a Key Threatening Process per the *Biodiversity Conservation Act 2016*.



## road maintenance/grading

Impacts from road construction and maintenance activities on roadside vegetation include those caused directly via soil disturbance and compaction, and removal of vegetation, and indirectly by the introducing of weeds, along with impacts associated with stockpiling of construction materials.

Grading of roadsides has been identified as a primary driver for continuing spread of the high-threat weeds African Lovegrass (*Eragrostis curvula*) and Coolatai Grass (*Hyparrhenia hirta*).



## stockpiles

Stockpiling of materials is often essential for maintenance and construction work. Careless or poorly planned stockpiling can smother groundcover species and significantly impact trees, cause soil compaction, introduce weeds, alter light, moisture conditions and drainage patterns, and leach nutrients or pollutants.

Location and access to stockpiles must avoid high conservation areas and use effective erosion and pollution control.



## infrastructure and maintenance

On-going maintenance and upgrade activities such as road widening, clearing, mowing, weed spraying, grading and burning may involve clearing, ripping, excavation, stockpiling of topsoil and other materials, movement of vehicles and machinery and changes to surface water flows. These can have detrimental impacts on the quality and extent of roadside vegetation by causing further fragmentation, habitat loss, changes to soil moisture regimes and nutrient status, creation of bare patches and spread of high threat weeds.



## grazing

Livestock grazing has caused significant and widespread impacts on Box-Gum Grassy Woodlands by altering the structure and composition of the flora community through selective grazing of more palatable and regenerating species.

Grazing is accompanied by trampling, soil compaction, changed soil nutrient status and weed invasion.



## overgrazing impacts

Sheep grazing is potentially destructive to native groundcover species in the lower vegetation strata, as sheep graze more uniformly down to soil level

Cattle may also trample and compact the ground causing damage to plant tubers and soil structure, and resulting in changes to drainage and differential germination of species.



## loss of hollows

Tree hollows provide significant habitat for many native animals and loss of this important resource is listed as a Key Threatening Process per the *Biodiversity Conservation Act 2016*. Hollows mainly occur in Eucalyptus and large dimension hollows often take over 200 years to develop. These mature trees also provide more feeding and refuge resources than younger trees. Across the Wagga Wagga LGA hollow bearing trees are critical habitat for a regionally significant populations of Squirrel Gliders, Brown Tree Creepers, Glossy Black Cockatoos and Superb Parrots.

4

# Priority areas
for roadside vegetation management

## Wagga Wagga City Council has undertaken an assessment of the conservation significance of approximately 2,239 km of roadside outside the urban areas of the LGA.

The conservation significance of the roadside reserve throughout the rural and other extra-urban areas of the Wagga Wagga LGA were assessed using the Roadside Assessment Method (RAM) developed by Local Government NSW and LLS (Ecosure 2017).

### Prioritising roadside reserves for assessment

Prior to assessment a prioritisation process was undertaken. This involved a desktop analysis of spatial data to identify roadside reserves that:

- contain native vegetation
- contain or are adjacent to a threatened flora or fauna species
- are within 250 m of a species prioritised by the Saving Our Species (SOS) Project
- include a Council or jointly-managed road

To determine this the following spatial data sets were interrogated:

- State-wide vegetation mapping of the Riverina (OEH 2017)
- VIS Database – Plant Community Types
- IBRA and IBRA subregions
- Mitchell landscapes
- BioNet Atlas threatened species and endangered ecological communities
- Saving Our Species (SOS) program sites and species
- Ramsar and Directory of Important Wetlands in Australia (DIWA)
- NSW Waterways and stream order
- DPI Key Fish Habitat mapping
- Wagga Wagga cadastre
- Road reserve (property) and road segment (topographic) layers for Wagga Wagga
- Waterways

Roadside reserves containing native vegetation and/or threatened species were prioritised for assessment. Developed urban areas were excluded from assessment.

To identify reaches for assessment and management, the roadway was assigned marker points at 1 kilometre intervals. These road reserves included 64 Plant Community Types (PCTs) within their confines. Similarly, 2,068 threatened flora and fauna sightings were recorded within the road reserves or a 250 metre radius.

Mapped roadside canopy vegetation covered a total area of 2,849 hectares (including road surface area) within the road reserve. Within this area, tree density was highly variable. Additionally, 374 hectares contained or were within 250 metres of wetland. Finally, 382 hectares were proximate to threatened flora or fauna species within a 250 metre buffer radius. Accounting for overlaps among these categories, these roadside reserve reaches total 2,239 kilometres of road length and were prioritised for assessment (map on **page 16**).

## Field assessment

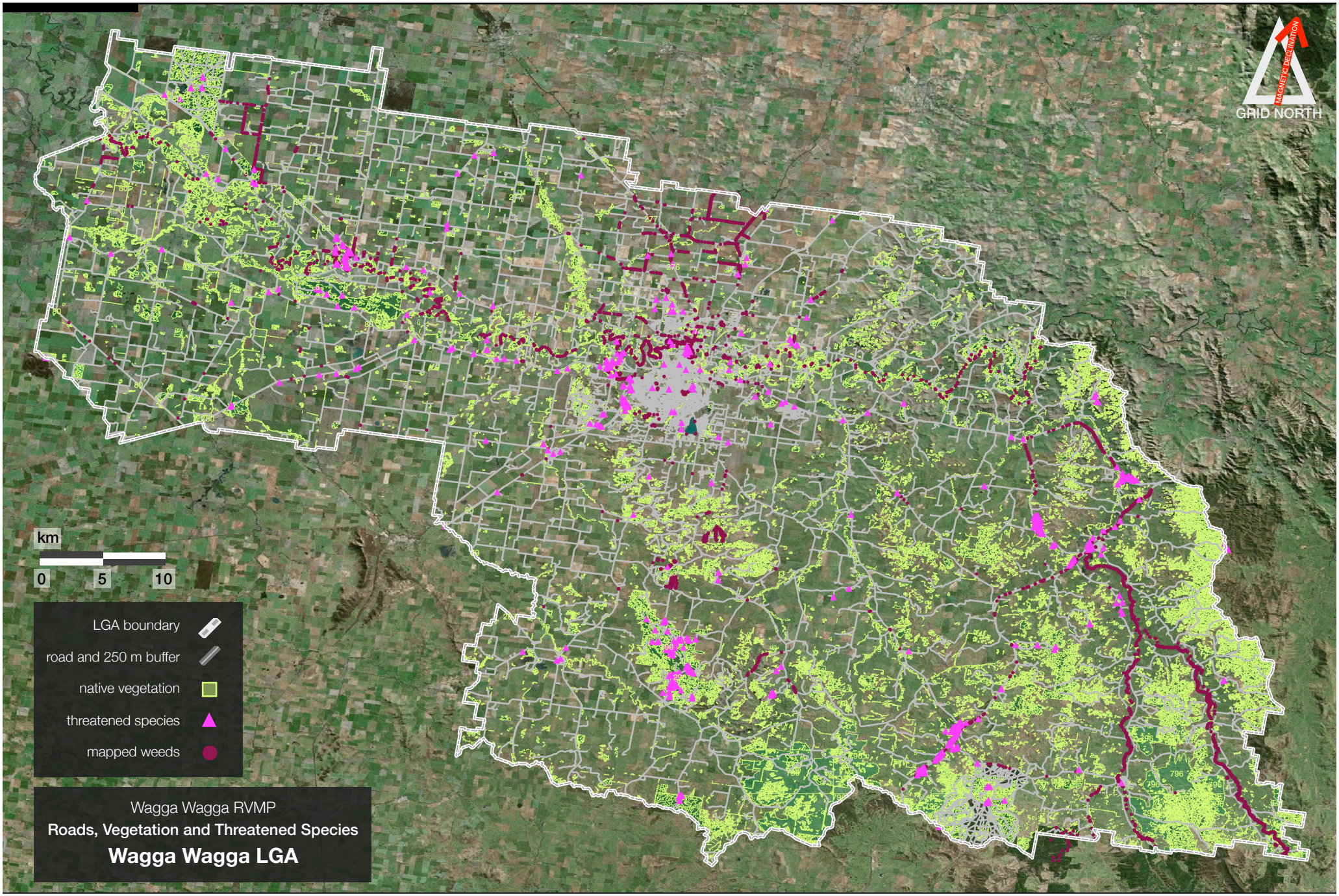
Field work was undertaken by CTENVIRONMENTAL from December 2017 to May 2018. Prioritised roads were inspected and assessed. However in the case where no native vegetation was present within the prioritised road reserve no assessment was undertaken. In the instance where native vegetation was observed in the road reserve in areas not identified as vegetated by statewide mapping, an assessment was undertaken.

Assessment of the conservation significance of the roadside reserve was undertaken using the *EcoRoadside* mobile application developed by EcoServer for the Local Government NSW Council Roadside Reserves project. *EcoRoadside* is a mobile digital version of the RAM field sheets and provides a user-friendly platform for data collection. Assessment data including photographs are immediately uploaded to the cloud database hosted by EcoServer.

A total of 123 individual assessments of conservation significance of the roadside reserve were undertaken across Wagga Wagga LGA representing 731 km of roadway.

Results of these assessments show 563 linear kilometres of road reserve were considered to have high conservation value or HCV and 128 kilometres with moderate conservation value or MCV. A smaller number of the MCV assessment reaches totalling 40 kilometres are provisionally rated moderate but depend on closer assessment to finalise conservation value due to poor condition of vegetation (notwithstanding presence of threatened communities or over-cleared landscapes) and these are tagged MCV* following revisions to the method by Local Government NSW and Local Land Services. The map on **page 17** displays the results.

An overview of management actions at LGA and reach scale can be found in **Section 6**. A full summary of the assessment reaches and related management actions can be found in **Appendix A**. Comprehensive assessment reach profiles including conservation status, landscape context and vegetation condition, along with observations of habitat features and threats and reach species lists can be found in **Appendix B**.


GRID NORTH
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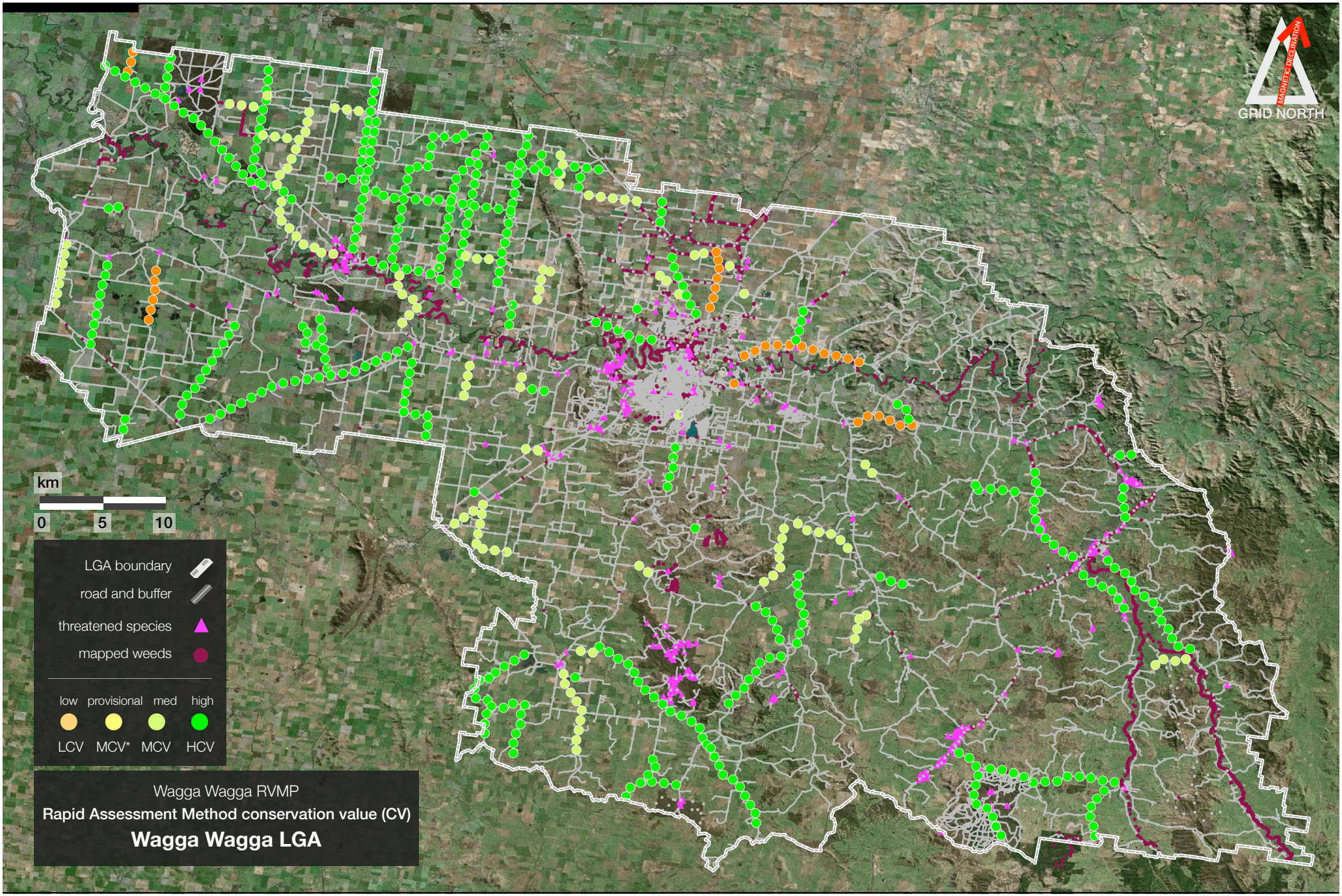
LGA boundary
road and 250 m buffer
native vegetation
threatened species
mapped weeds
Wagga Wagga RVMP
Roads, Vegetation and Threatened Species
Wagga Wagga LGA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Rapid Assessment Method conservation value (CV)
Wagga Wagga LGA

## Connectivity

Native vegetation remnant patches within the roadside reserve and adjacent properties play an important role in connecting larger conservation significant areas across the Wagga Wagga LGA. The roadside reserve supports biodiversity and plays a role in assisting species' movement across the landscape. In the face of increasing urbanisation and climate change, these areas will become more vital to ensure the unique flora and fauna of the Wagga Wagga LGA persists for future generations to enjoy.

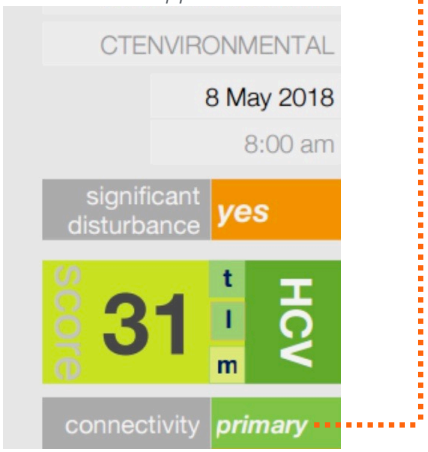
The map on **page 19** identifies roadside reserves that provide connectivity potential through the landscape to link larger conservation areas including National Parks and Nature Reserves with smaller remnant vegetation areas and provide pathways for movement of fauna and support vectors for flora propagation.

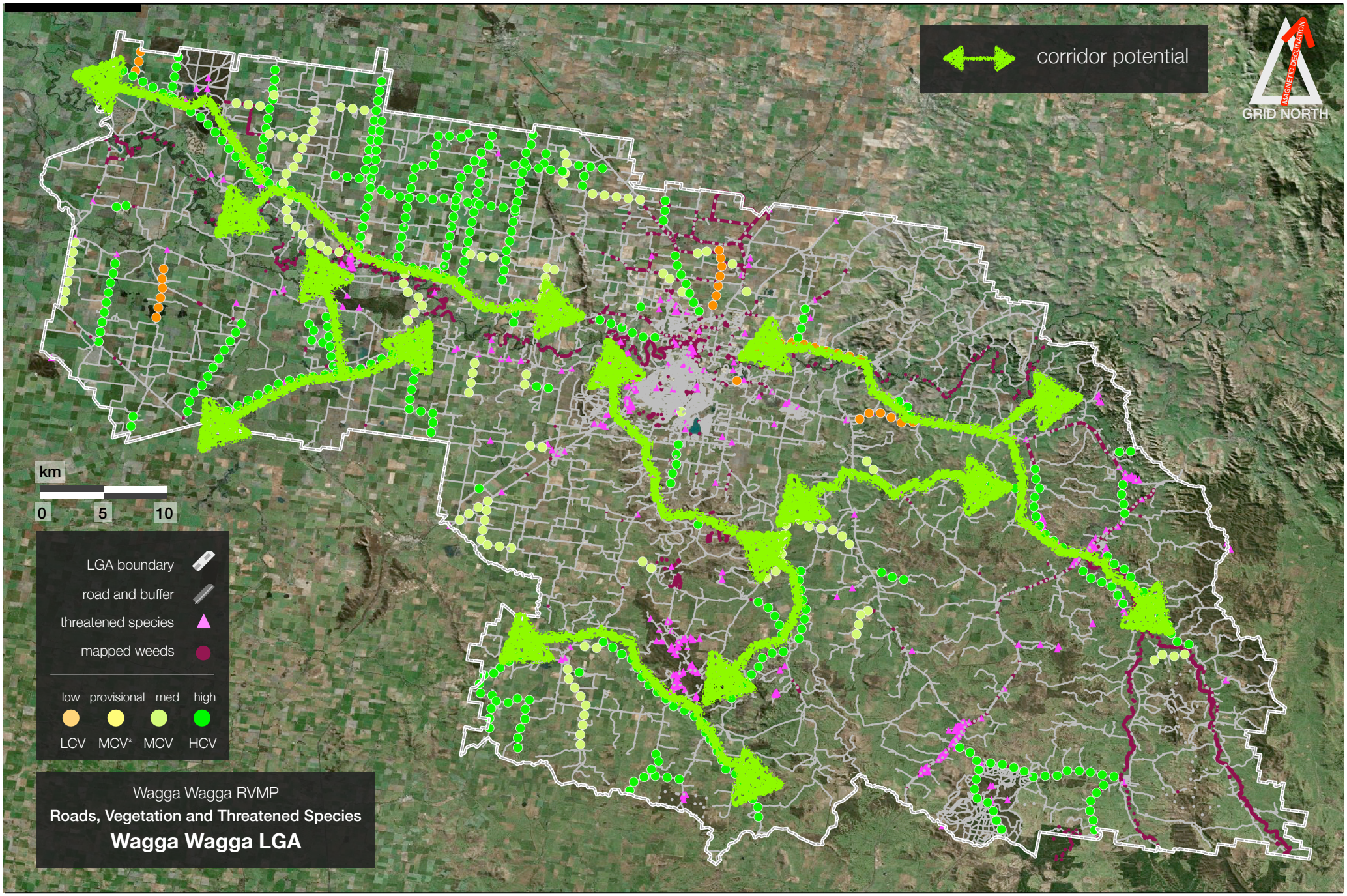
Corridor potential includes roadside reserves that may link larger areas of protected bushland or waterways and contain reaches assessed as having high conservation significance as far as possible and significantly traverse the LGA. Corridors should avoid any roadside reserves that are managed as fire evacuation routes. These are supplemented by corridors that link smaller areas of bushland and may include roadside reserves that have been assessed as having moderate or low conservation significance but which may provide additional connectivity if re-vegetated.

Management actions for these corridors range from passive management for well-vegetated primary corridors to revegetation to connect existing isolated remnant vegetation patches.

*Road reserve reaches with corridor potential are tagged in the EcoRoadside RAM assessment database reproduced with habitat features and threats in* ***Appendix B.***

*Appendix B detail*




corridor potential
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Roads, Vegetation and Threatened Species
Wagga Wagga LGA

# 5 Actions to protect, manage and enhance roadside vegetation align with Wagga Wagga community objectives and strategies

## COMBINED DELIVERY PROGRAM AND OPERATIONAL PLAN 2018/19 - 2021/22

OBJECTIVE: CREATE AND MAINTAIN A FUNCTIONAL AND ATTRACTIVE BUILT ENVIRONMENT

- Manage Wagga Wagga City Council's asset data Provision of condition assessment, capture of asset data and assistance in the updating of the asset management plans
- Plan, construct, maintain and manage sealed roads Construction and maintenance of sealed roads, pavements, shoulders, bridges, culverts and table drains, including the replacement of aged infrastructure
- Maintain and manage unsealed roads Maintenance of unsealed roads, culverts, bridges and table drains, including the replacement of aged infrastructure
- Manage Wagga Wagga City Council's quarries • Management of quarry sites, hauls, licences and extraction fees and contractors • Review and update of the Pavement Material Resources Plan and development of strategic rehabilitation plans

OBJECTIVE: PROTECT AND ENHANCE OUR NATURAL AREAS

- Provision of road, path and property inspections, weed control, and biosecurity education for the community
- Protection of the environment through improving connectivity of habitats for threatened species and applying for grant funding to enhance the natural environment
- Management of National Tree Day activities, the Birramal Conservation Area and the Bomen Axe Quarry
- Management and maintenance of the Marrambidya Wetland, including the facilitation of tours and events
- Administration of environmental customer requests, undertaking of inspections and investigations, and the enforcement of legislation

OBJECTIVE: EDUCATE THE COMMUNITY IN SUSTAINABILITY

- Deliver environmental events and projects Development and implementation of environmental events and projects such as Recycling Week, Spotlighting Walks, Clean up Australia Day and World Environment
- Provide environmental education and information Promotion of environmental sustainability through the provision of educational information, community workshops, radio spots, an e-newsletter and Bill The Sustainability Truck visits



# 6 Management actions

**Effective use and understanding of environmental data in the roadside environment can improve asset and risk management outcomes. Information on roadside values includes the type, structure and condition of vegetation present, level and type of disturbance, habitat features, heritage values and site characteristics and context in the landscape**

Local Government NSW worked with NSW Local Land Services to develop a consistent approach to rapid field surveying of environmental features in linear reserves. The rapid assessment method (RAM) designed to be used in the field as a cost effective survey method for collecting data on environmental attributes was used in Wagga Wagga to survey road reaches and road reserves prioritised by desktop assessment per **Section 4**.

Comprehensive site profiles for each roadside reserve reach containing assessment details for conservation status, landscape context and vegetation condition; habitat features, threats and disturbances are provided at **Appendix B**.

This environmental data can be used to:

- identify significant environmental features and sites of high importance
- minimise the council's legal and statutory biodiversity risk relating to roadside vegetation and species habitat
- minimise risk of inadvertent damage from routine maintenance works and for planning and assessing roadworks so that clearing of important vegetation can be avoided
- establish baseline data from which to compare changes from management actions or unregulated uses
- inform funding allocation for works such as weed control
- plan management actions such as restoration works to improve environmental condition.

Following field assessment, a workshop elaborated strategies and actions applicable to management of roadside reserves based on field data from prioritised assessment areas. Strategies and actions are tabulated and detailed on **pages 25 and 26**.

Reach-scale actions are assigned according to conservation value and site characteristics and summarised at **Appendix A**. The reach actions are also designed to be monitored, tracked and updated via the **EcoRoadside** tool.

### Dumping and litter

To reduce the prevalence of dumping and litter within the roadside reserve Council could consider erecting signage in areas prone to dumping that warn of the associate penalties. Signage should be reinforced by surveillance that may include active visits by Council officers and/or installation of cameras at areas where dumping is prevalent. Vehicle access to these dumping hotspots may be restricted by bollards, sandstone blocks or steel rope fencing. Council may consider undertaking an audit of areas prone to dumping to enable prioritisation of surveillance methods and clean-up response.

Reach actions include:

- control access to roadside dumping areas
- remove litter/dumping
- signage: litter/dumping surveillance/penalties
- surveillance of roadside dumping areas

### Signage indicating high conservation value roadside reserve reaches

To highlight the significance of high conservation value roadside reserves, Council may erect signage notifying users of the importance of these areas. A basic signage template can be found at www.rms.nsw.gov.au/documents/about/environment/srea-sign-template.pdf. This template contains basic information that may be augmented by additional detail such as information relating to threatened species or communities or generic information relating to the important of roadside habitats. Signage can be a tool to raise awareness and understanding of the importance of the roadside reserve and the value these areas have in terms of conservation and preserving the unique flora and fauna of Wagga Wagga LGA.

Reach actions include:

- signage: High Conservation Value reach

### Avoid grading, mowing/slashing, spraying sensitive ground covers and understorey

Native ground cover and understory vegetation plays an important role in providing habitat and dispersal corridors to enhance movement of fauna across the landscape. This vegetation also stabilises soil, preventing accelerated erosion of the roadside and sedimentation of receiving waterways. These environments support numerous threatened species found within the Wagga Wagga LGA including woodland birds such as Brown Treecreeper and Grey-crowned Babbler, arboreal mammals such as Squirrel Glider and the Superb and Swift Parrots. Threatened species are protected under state legislation and harming them or is subject to penalties for both individuals and companies involved.

Reach actions include:

- avoid grading vegetated buffer
- avoid mowing/slashing regeneration area/s
- avoid spraying sensitive understorey
- maintain vegetation/habitat condition

### Monitor weeds in the roadside reserve

Invasive weeds present a threat to amenity, biosecurity and ecology of the roadside reserve and land managers including Councils have an obligation to manage weeds particularly those declared as "*priority*" under the *Biodiversity Act 2015.* Council may consider developing a monitoring program to determine distribution and density of invasive weeds across the LGA, or collaborate with Riverina Local Land Services (RLLS) to do so. Monitoring data would help enable Council and RLLS to effect a coordinated response to weed management aligned with the "Riverina Regional Strategic Weed Management Plan 2017-2022" (RLLS 2017).

Reach actions include:

- monitor weed occurrence/extent/density
- liaise with regional weed management authority

### Passive management of existing vegetated areas

Many areas assessed as having high conservation value typically have vegetation communities with complex structure and minimal weed invasion. Consequently these areas may not require a high level of maintenance and Council may consider passive management including: periodic inspection to assess potential weed invasion; low-level intervention/control strategies such as hand weeding or low-impact herbicide application methods such as cut-and-paint; and ecological burns where appropriate. Seasonal burns at the recommended frequency and timing of controlled burns enhance native vegetation reproduction and assist to control a range of invasive weeds. Mowing or slashing areas of high conservation value is not considered a passive management strategy and should be avoided.

Reach actions include:

- passive management of vegetated areas

## Restore and enhance habitat

Restoration and recovery is a priority for the Australian and NSW Governments and in 2011 the *National Recovery Plan for White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland* was developed by NSW Department of Environment Conservation Climate Change and Water (or DECCW, now functioning as the NSW Office of Environment and Heritage or OEH) which provides support for for the long-term survival a number of threatened species and endangered ecological species. The plan recognises the importance of linking remnant patches and corridors to larger areas of core bushland as these areas contain significant biodiversity value, support the dispersal of species between core bushland areas and play a role in assisting species' movement in the face of climate change. As part of the ongoing recovery of vegetation in the Riverina, Council could consider restoration of areas assessed as moderate conservation significance and enhancement of areas of high conservation significance. On-ground actions may include revegetation of understory and ground covers, habitat enhancement with course woody debris or hollow augmentation or complete revegetation with a complex mosaic of canopy, midstorey and ground cover species.

Additional to broad scale restoration, Council could consider targeted restoration to enhance habitat, increase biodiversity and improve connectivity of the corridors identified on **page 19**. These areas could be prioritised for management responses as improvement will enhance connectivity of bushland patches across the landscape and benefit biodiversity. Restoration of these areas will need to consider the delicate balance between vegetation, biodiversity and bushfire risk.

This RVMP is a broad scale, overarching document designed to guide Council to practically and sensitively manage for the conservation significance contained within the roadside reserve. However, due to the complexity of managing these areas and the potential of site specific issues such as fire, threatened species or asset protection, Council may recognise a need to develop site specific management plans to address issues.

Reach actions include:

- restore/enhance habitat
- enhance habitat for [species]
- regenerate understory
- revegetate roadside reserve
- restore connectivity between patches
- flag: primary connectivity potential
- flag: secondary connectivity potential
- flag: develop restoration plan

## Weed control

Invasive flora (weeds) pose a serious threat to the roadside environment. The opportunist trait of many weeds and their active and often aggressive response to disturbance may result in a few invasive species becoming the dominant species within a vegetation community which results in a significant loss of biodiversity, reduction of the regenerative capacity of native vegetation, increase of biomass and fire fuel load, increase to biosecurity risk, impacts to human health and affects roadside assets. Weed management is the responsibility of all land holders, both private and Government to manage potential threats that weeds present. Many areas of roadside reserve across Wagga Wagga LGA have significant weed invasion including species such as African Lovegrass (*Eragrostis curvula)*, Spiny burr grass (*Cenchrus spinifex*), Chilean Needle Grass (*Nassella neesiana*) Coolatai grass (*Hyparrhenia hirta*) and Feral Olives (*Olea europaea subsp. europaea*). To manage weeds across the LGA, Council collaborates with Riverina Local Land Services to implement management activities pursuant to the *Biosecurity Act 2015*. To balance weed control and biodiversity protection/enhancement the Councils should consider developing or elaborating detailed weed management plans which identify specific weed control actions that are dependant on the conservation significance, presence of threatened species and connectivity of roadside reserves and aligns with the three goals identified by the *Riverina Regional Strategic Weed Management Plan 2017- 2022* (RLLS 2017) which are:

1. Responsibility for weed biosecurity is shared by all people of the Riverina region, including organisations and businesses

2. Weed biosecurity supports profitable, productive and sustainable primary industries

3. Weed biosecurity supports healthy, diverse and connected natural environments

Weed control should be tailored to minimise impacts to native vegetation and dependent fauna species and weed control actions for consideration include:

- hand weed removal in areas of particularly high conservation significance or presence of threatened flora species
- in areas requiring higher intensity weed management targeted, low impact control measures such as cut-and-paint, stem injection or targeted and direct application of herbicide
- slashing and mowing should be avoided in areas where native vegetation is prevalent: frequent slashing and mowing increases disturbance and promote weed invasion

- in areas where mowing and slashing is required (such as fire evacuation routes) vegetation should not be slashed to a height that exposes topsoil as this increases the risk of accelerated erosion and weed invasion: many weed species produce large amounts of seeds or propagules which are easily spread by machinery used to control vegetation
- fire should be considered as a management option. Not only does fire promote the regeneration of native vegetation, if undertaken in a sensitive and strategic way can improve weed management

Detailed information on weed control for NSW South Western Slopes vegetation dominated by Box Gum grassy woodland can be found in the *National Recovery Plan for White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland* (DECCW 2011) https://www.environment.gov.au/system/files/resources/386f395f-b2c6-4e10-8fc3-e937ad277bfe/files/white-and-yellow-box.pdf

Reach actions include:

- **ecological burn**
- **seasonal slashing only**
- **targeted weed control**
- **targeted weed control: manual removal**
- **targeted weed control: direct herbicide application only**

## Ecological burn

Fire has played an integral role in the evolution of woodlands on the NSW Western Slopes woodlands and much of the region's flora and fauna evolved in its presence. However with changes in land use, fire is no longer applied to manage the landscape as it was by local indigenous people in preceding millennia. Now fire is commonly regarded as a threat to the community and not as an effective management tool. In the instances when fire is applied as a management tool it is commonly used as a method to control fuel loads more so than to maintain or enhance biodiversity. However if used strategically and where consideration of seasonality, frequency and intensity is given, fire can be used as a effective management tool to protect assets, control weeds and improve biodiversity.

The application of fire across NSW Western Slopes vegetation will encourage a balance between canopy species, shrubs and ground cover dominated by a mosaic of forbs and grasses.

The Councils should consider integrating fire into management of the roadside reserve to provide the multiple benefits of weed control, hazard reduction and biodiversity enhancement. An important consideration of using fire as a management tool is the season, frequency and intensity of the burn. Use of fire is best restricted seasonally to the autumn months when burns are likely to provide the greatest biodiversity benefits (and the least harm to native groundcover reproduction) however frequency of burns must also be considered as a too-high fire frequency will result in a reduction in groundcover and midstorey diversity and abundance and too-low fire frequency may result in a dominance of less fire-tolerant species..

While appropriate burning regimes will depend on the initial floristic composition and history of a remnant, early results from research conducted in southern NSW suggest that autumn burning cycles approximately every 5-8 years are adequate to maintain floristic diversity in Box Gum grassy woodland remnants dominated by Snow Grass (*Poa sieberiana*) and Kangaroo Grass (*Themeda triandra*)

Mosaic burns may be applied to remnants (i.e. burning small areas at staggered intervals) to allow survival of soil and ground fauna (including invertebrates, amphibians and reptiles) and maintain overstorey regeneration. Sites where burning is practiced should retain unburnt areas, to provide refuges for species of fauna and flora that may be fire-sensitive.

The recommended minimum and maximum intervals for ecological burns varies across vegetation communities and therefore a strategic approach is required based on the following recommended burn frequencies outline by the *National Recovery Plan* for Box Gum grassy woodland (DECCW 2011) and current in OEH BioNet for the Threatened Ecological Communities (both Endangered and Critically Endangered):

- Box Gum woodland: restrict fire to no more than once every 5 years
- Inland Grey Box woodland: restrict fire to no more than once every 15 years
- Sandhill Pine woodland: restrict fire to no more than once every 15 years

Reach actions include:

- **ecological burn**

| action type | action or strategy statement | priority | timing | *responsibility* | *resourcing* |
|---|---|---|---|---|---|
| strategies to integrate RVMP into Council planning and reporting | **Develop an environmental assessment process for biodiversity legislative requirements when planning projects in the roadside reserve** | medium | 1 year | *Manager Environment and City Compliance* | *recurrent funding* |
| | **Incorporate RVMP into Councils IP&R framework** | medium | 2 years | *Manager City Strategy* | *recurrent funding* |
| | **Consider inclusion of RVMP and associated conservation significance mapping into Councils LEP and DCP(s)** | low | 5 years | *Manager City Strategy* | *recurrent funding* |
| actions relating to other legislative requirements such as weed management, bushfire management | **Continue to develop the relationship between adjoining Local Government Areas to manage weed issues across boundaries** | medium | ongoing | *Manager Environment and City Compliance* | *recurrent funding* |
| | **Ensure roadside vegetation along Strategic Fire Advantage Zones is adequately maintained and kept clear in accordance with the Bushfire Risk Managememt Plan** | high | ongoing | *Manager Operations* | *recurrent funding* |
| | **Develop a communications strategy to respond to requests from the public regarding clearing moderate and high conservation roadside vegetation to manage bushfire risk** | medium | 2 years | *Manager Information and Customer Service* | *recurrent funding* |
| | **Investigate opportunities to raise community awareness of Key Threatening Processes that contribute to the loss of vegetation and habitat connectivity** | medium | ongoing | *Manager Environment and City Compliance* | *grant funding* |
| | **Prioritise targeted weed management in roadside reserves or adjacent to areas with medium and high conservation value vegetation** | high | ongoing | *Manager Environment and City Compliance* | *recurrent funding* |
| actions to minimise the impacts of threats and resolve issues | **Incorporate roadside assessment data into Councils spatial mobile data application to alert staff of areas containing moderate or high conservation value vegetation** | medium | 2 years | *Manager Information and Customer Service* | *recurrent funding* |
| | **Incorporate results of roadside assessment into site toolbox talks to highlight the conservation significance of the associated work area and other related issues** | high | 1 year | *Manager Operations* | *recurrent funding* |

| action type | action or strategy statement | priority | timing | *responsibility* | *resourcing* |
|---|---|---|---|---|---|
| actions to better manage high, medium and low conservation value roadsides and, in particular, the high priority sites | **Install signage at strategic locations to inform the community of the biodiversity value areas of high conservation value of these areas** | high | 2 years | *Manager Operations* | *grant funding* |
| | **Develop SWMS for on ground staff outlining appropriate operation of plant and vegetation control methods in areas identified as moderate, high and low conservation value roadside vegetation, with appropriate management actions according to level of significance** | medium | 2 years | *Manager Operations* | *recurrent funding* |
| | **In many areas with high conservation value passive management ie leave area undisturbed, is recommended. These areas and passive management action should be highlighted and incorporated into SWMS and toolbox talks** | medium | 2 years | *Manager Operations* | *recurrent funding* |
| | **Implement a training program to provide staff with best practice methods for working in medim and high conservation value areas** | medium | ongoing | *Manager Operations* | *recurrent funding* |
| | **Stabilise areas disturbed by works in the roadside reserve using suitable plant species and plant densities as per best practise guidelines** | medium | 2 years | *Manager Operations* | *recurrent funding* |
| | **Revegetate strategic areas with low or absent native vegetation cover to link patches of moderate or high conservation value to enhance habitat connectivity** | medium | ongoing | *Manager Environment and City Compliance* | *grant funding* |
| | **Implement an intergrated weed management plan on sites where threatened species are known to be present or are of conservation significance** | high | ongoing | *Manager Environment and City Compliance* | *recurrent funding* |
| | **Develop a concise summary of the RVMP which outlines the purpose of the document and how it will be used to appropriately manage roadside reserves with varying levels of conservation significance** | high | 1 year | *Manager Environment and City Compliance* | *recurrent funding* |
| | **Develop restoration plans for priority roadside areas which act as biodiversity corridors across the LGA** | medium | 3 years | *Manager Environment and City Compliance* | *recurrent funding* |



7

# Monitoring and evaluation
for roadside managers

## Wagga Wagga Council is including management of roadside reserve vegetation in IP&R and will report quarterly on related actions

Considering the value of roadside vegetation described above, a positive change would be for the Councils to consider roadside reserves an asset class, and include them in the Councils' asset condition reporting. Suitable metrics derived from the roadside assessment method and data may developed and applied to this asset class.

Where applicable, environmental assessment including Review of Environmental Factors (REF) will be undertaken with documentation saved to the Councils' record management systems. Assessment metrics that may be added to the reports and records systems include:

- number and proportion of roadside activities with REFs
- relevant positive or negative impacts of REF activities

A key operational element of roadside reserve and vegetation management is that relevant council staff are adequately trained and aware of the value of roadside vegetation and understand how it should be managed.

This approach includes developing Safe Work Management Practices (SWMS) for on-ground staff outlining appropriate operation of plant and vegetation control methods in areas identified as moderate and high conservation roadside vegetation.

Additional metrics that may be relating to training and operations include:

- number/length areas of significant roadside vegetation which are marked (including signage for High Conservation Value reaches)
- number of SWMS developed for roadside reserve and vegetation management
- number of staff attending training sessions and achieving appropriate levels of competency

Monitoring of overall condition of roadside reserves and vegetation as an outcome of the preceding measures may include metrics such as:

- overall condition of roadside environment as periodically assessed (length and conservation value)
- number of community complaints received regarding roadside (including litter/dumping and vegetation issues)

Monitoring, evaluation, reporting and improvement (MERI) is a well-documented approach to natural resource and environmental management practice recommended by the NSW Roadside Environment Committee.

The following is extracted from the Committee's factsheet on monitoring and evaluation for roadside reserves:

### Appropriate maintenance of roadsides
How is maintenance quality being monitored? Is there a community complaints register being used? Is the maintenance regime appropriate to the conservation value status of the roadside? Is it effective and efficient?

### Signage and markers
Is the signage or markers effective in educating council maintenance staff/contractors and the community?

### Training
Based on training feedback sheets and other monitoring, was the training appropriate and effective? Has it left a lasting legacy of best practice? When will the training program need to be updated and for participants to update their training?

### Community education
From community feedback such as a survey, is the community aware of the importance of roadsides and particularly those of high conservation value? Has there been a reduction of illegal behaviours as a result of the community education actions?

### Regulation
Are enforcement activities working? How well are they being coupled with community education?

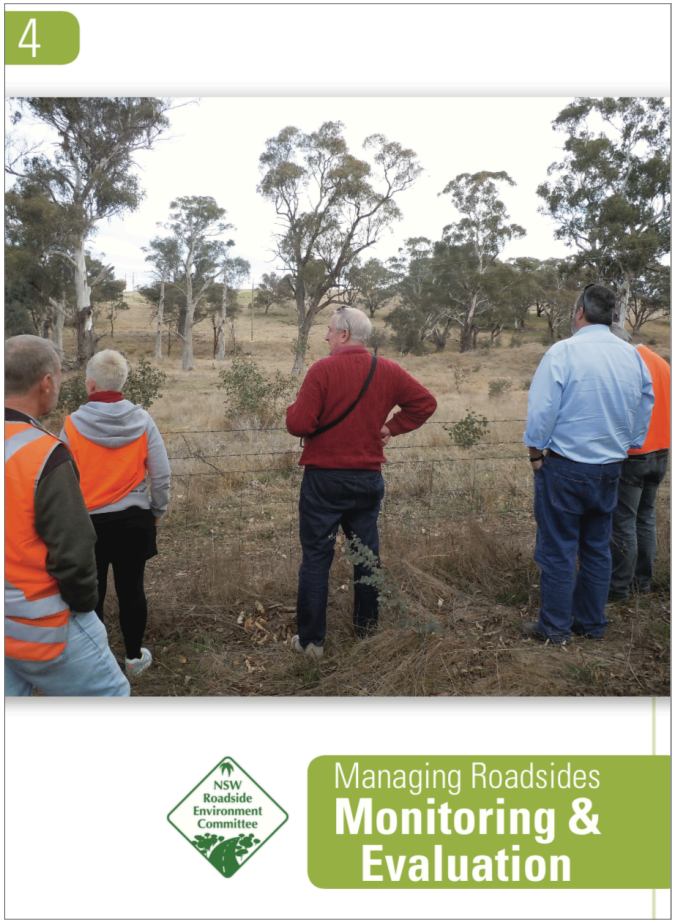
### Stakeholder engagement and partnerships
Are those being engaged still appropriate? Are there partnerships in place to effectively implement the management actions?

### Funding opportunities
Are funds such as grants and sponsorships being sought? How successful has council been in obtaining funding? What are the critical success factors and what are the barriers to obtaining internal and external funding?

### Restoration and rehabilitation projects
Have the planned project outputs and outcomes been achieved? If not, why not? Have these funded projects/ programs been completed to deadline, within budget? Were there any unexpected outcomes? How will the project outputs be monitored and evaluated in the future to ensure that they are still in place? What learnings and improvements are there for future projects?

See reference in sidebar

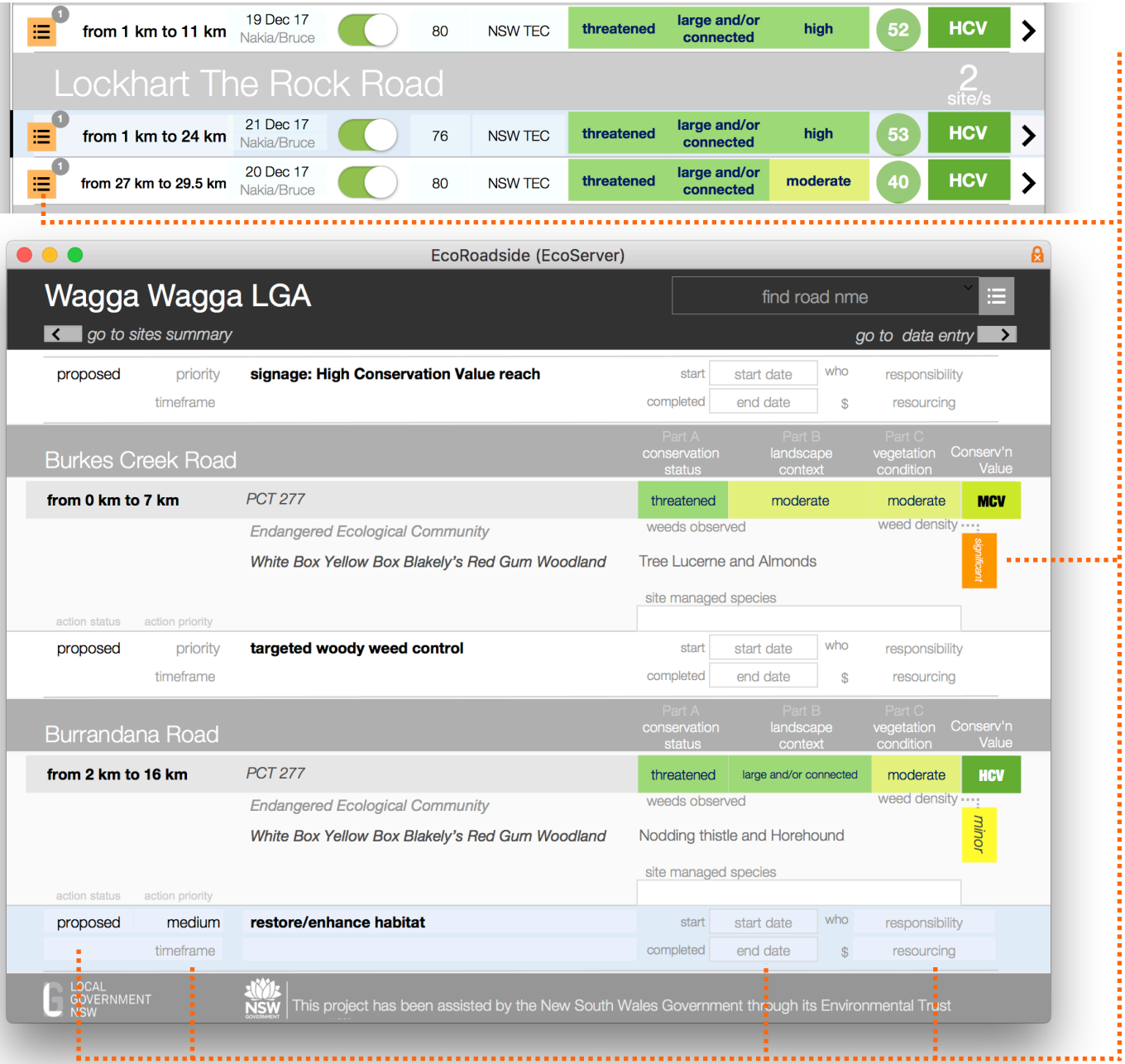
Periodic re-assessment of roadside reserve and vegetation condition can be undertaken at intervals of 4 years (once per council term IP&R cycle) or otherwise as on-ground change and resources permit. This RVMP is accompanied by specifically designed tools to assess and monitor on-ground condition and progress of management actions.




## Roadside monitoring & evaluation factsheet

A comprehensive factsheet for use by roadside managers is available from the NSW Roadside Environment Committee

http://www.rms.nsw.gov.au/documents/about/environment/rec-fact4-managing-roadsides-eval.pdf




## Tracking progress

A summary of management actions provisionally assigned to each roadside assessment site (or "reach") is provided at **Appendix A**.

Support for tracking progress on these actions is provided via the EcoRoadside assessment app developed for the LGNSW Council Roadside Reserves project and accessible at ecoserver.com.au/fmi/webd/

A small icon on the EcoRoadside summary page (top image) changes from grey to light orange if field notes have been entered for an assessment site, to darker orange if management actions have been entered for that reach, and displays the total number of actions for that reach (grey circle) as well as the number tagged urgent (red circle) in progress (yellow circle) and completed (green circle).

The popover and the pdf/printable report view (bottom image) display details relating to the actions that can be set by the roadside manager. These include the action status, priority, timeframe and start/completed dates. Also available are responsibility and resourcing, which can display an officer or section, and a funding source or budget amount.

Action status is assigned via the date fields: "proposed" for no dates; "scheduled" for a start date in the future; "in progress" for a start date in the past; "complete" for a completed date in the past, with "urgent" as an over-ride.

Weeds and site-managed species relevant to certain management actions are also shown.



8

# Legislation

## Councils must be aware of and demonstrate compliance with a wide range of legislation relating to roadside reserves and their management in NSW

This section summarises key legislation and other statutory obligations councils must consider when managing roadside environments.

Council must be aware of and demonstrate compliance with a range of legislation relating to the management of roadside reserves. Due diligence may be practiced within council via a range of measures including identifying roadside reserve areas with high biodiversity or conservation values, adoption of standard operating procedures for routine roadside maintenance activities and undertaking effective environmental assessment of proposed activities within a roadside reserve. Implementing these measures should be embedded within the council structure through internal training and, regularly evaluated through a monitoring and review process.

A range of environmental values may be relevant to or impacted by a proposed activity and investigation into the level of assessment required on a case by case basis. Key legislation and relevance to council management of roadside reserves is collated below at (adapted from Hunter Councils: ELA 2008 and Local Government NSW 2018 and updated to account for recent legislative changes).

### Legislative changes

Commencing in 2017, the *Biosecurity Act 2015* replaces a number of existing Acts, including the *Noxious Weeds Act 1993*. The act is accompanied by supporting subordinate legislation, policies and procedures.

The *Biodiversity Conservation Act 2016* commenced mid 2017 after enabling Regulations, tools and products that support the legislation were developed. The Act replaces the *Threatened Species Conservation Act 1995* and parts of the *National Parks and Wildlife Act 1974*. Amendments to the *Local Land Services Act 2013* assented to in November also replace the *Native Vegetation Act 2003*.

| Legislation or policy | Description | Relevance to council roadside management |
|---|---|---|
| *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) | The EPBC Act aims to protect Matters of National Environmental Significance (MNES) which includes EPBC- listed threatened species and endangered ecological communities.<br>Actions that may have a significant impact on MNES are likely to be considered a Controlled Action and require approval from the Minister for the Environment | Roadside vegetation management should avoid or minimise impacts to MNES. Where impacts are unavoidable an assessment should be undertaken by an ecologist. If the impacts are likely to be significant a referral to the Commonwealth should be made to determine whether the Commonwealth consider it a Controlled Action requiring approval under Part 9 of the Act. |
| *NSW Environmental Planning and Assessment Act 1979* (EP&A Act) | The *EP&A Act* is the principal planning legislation for NSW. The Act provides the statutory basis for environmental assessment of development as well State Environmental Planning Policies and Local Environmental Plans. | Most roadside management will be undertaken by or on behalf of Council and will therefore be permissible without consent (see Infrastructure SEPP below).<br>The proposed works must however be subject to an environmental assessment under Part 5 of the EP&A Act. In undertaking an environmental assessment of the activity, council must:<br>• consider whether the activity will have a significant impact on threatened species or endangered ecological communities (s5A of the EP&A Act); and<br>• take into account to the fullest extent possible all matters affecting or relating to the environment (section 111 of the Act)<br>Consider the matters listed in s228 of the EP&A Regulation 2000 If impacts to the environment are significant, an Environmental Impact Statement is required.<br>Council may choose to do an environmental assessment of proposed roadside works or assess individual areas of work. |
| *NSW Threatened Species Conservation Act 1995* (TSC Act)* | * replaced by the NSW biodiversity legislation reforms (see *Biodiversity Conservation Act* below) | |
| *NSW Biodiversity Conservation Act 2016* (BC Act) * | The BC Act includes provisions for threatened species protection which councils need to consider. | Threatened species and endangered ecological communities listed in the Act are to be considered when undertaking an environmental assessment in accordance with part 5 of the EP&A Act (described above). |

| Legislation or policy | Description | Relevance to council roadside management |
|---|---|---|
| *NSW Fisheries Management Act 1994* (FM Act) | The FM Act aims to conserve, develop and share the fishery resources of NSW for the benefit of present and future generations. The Act protects both marine vegetation and threatened species, including species found in inland rivers. | A permit or consultation under the FM Act is required for the following activities:<br>• harm to marine vegetation (such as mangroves, saltmarsh, seagrass and microalgae) – S205<br>• dredging of creek bed, land reclamation, excavation of bed or bank or obstructing fish passage in a Key Fish Habitat creek – S199, S200, S218, S219<br>This may be triggered by bridge or culvert works. |
| *NSW Native Vegetation Act 2003* (NV Act) * | * replaced by the *NSW Local Land Services Amendment Act 2016*. | |
| *NSW National Parks and Wildlife Act 1974* (NPW Act) ** | ** amended by the NSW biodiversity legislation reforms (see *Biodiversity Conservation Act* above) | |
| *NSW Heritage Act 1997* | The Heritage Act sets out the process by which items or places of State and Local Heritage Significance are protected and managed. Items are considered significant in relation to the historical, scientific, cultural, social, archaeological, architectural, natural or aesthetic value of the item. | An approval from the Office of Environment and Heritage, is required when making changes to a heritage place listed on the State Heritage Register or covered by an interim heritage order, or when excavating any land in NSW where you might disturb an archaeological relic. If the works are only minor in nature, and will have minimal impact on the heritage significance of the place, they may be exempted from the requirement to submit a Section 60 or Section 140. |
| *NSW Noxious Weeds Act 1993* *** | *** replaced by the *NSW Biosecurity Act 2015* | |
| *NSW Biosecurity Act 2015* | The broad objectives for the *Biosecurity Act* are to manage biosecurity risks from animal and plant pests and diseases, weeds and contaminants by<br>• preventing their entry into NSW;<br>• quickly finding, containing and eradicating any new entries<br>• effectively minimising the impacts of those pests, diseases, weeds and contaminants that cannot be eradicated through robust management arrangements;<br>Of specific relevance for local councils, the *Biosecurity Act* repeals the *Noxious Weeds Act 1993*, but maintains provisions which establish councils as Local Control Authorities (LCAs). | Roads can act as major transport corridors for pest species (plants and animals, etc). The *Biosecurity Act* imposes obligations on owners and occupiers of land to control pest species, for example weeds declared for their area, including on land that the Local Control Authority itself owns or manages such as roadsides. |

| Legislation or policy | Description | Relevance to council roadside management |
|---|---|---|
| *NSW Roads Act 1993* | The Roads Act regulates the implementation of various activities on public roads.<br>Section 159(1) provides the power for the Roads and Traffic Authority (now the Roads and Maritime Services) to give control of roads to councils, which then become a roads authority under the Act in which case the road becomes a public reserve under the council's duty of care. | Clause 88 – Tree Felling states: 'a roads authority may, despite any other Act or law to the contrary, remove or lop any tree or other vegetation that is on or overhanging a public road if, in its opinion, it is necessary to do so for the purpose of carrying out road work or removing a traffic hazard.'<br>Councils should however exercise due diligence where areas of high biodiversity may be impacted by undertaking an assessment and either avoiding or mitigating impacts. Maintenance works e.g. trimming of regrowth should be conducted in accordance with the original assessed impact. New works or new roads will require a new assessment. See useful information resources for further information |
| *NSW Rural Fires Act 1997* (RFS Act) | This Act will only be triggered in mapped bushfire prone lands. | Bushfire prone lands require consideration during the development application process or where council activities place temporary works depots including fuel storage in bushfire prone lands.<br>Further operational considerations are required for works proposed during periods of total fire ban. |
| *NSW Water Management Act 2000* (WM Act) | The WM Act provides a number of mechanisms for protection of water sources. A 'controlled activity' approval from the NSW Office of Water is required for activities which include the construction of buildings or carrying out of works; the removal of material or vegetation from land by excavation or any other means; the deposition of material on land by landfill or otherwise on 'waterfront land'. The WM Act defines waterfront land as the bed of any river, lake or estuary and any land within 40 metres of the river banks, lake shore or estuary mean high water mark. | Under section 38 of the Water Management Regulation 2011, a public authority is exempt from requiring a Controlled Activity Approval, however the objectives of the WM Act are still relevant.<br>Activities that may impact or interfere with groundwater aquifers such as large scale excavation or drilling require approval under the WM Act and in line with the NSW Aquifer Interference Policy. |

| Legislation or policy | Description | Relevance to council roadside management |
|---|---|---|
| *State Environmental Planning Policy (SEPP) (Infrastructure 2007)* | This SEPP provides a planning regime for infrastructure throughout NSW. The SEPP describes infrastructure and actions that:<br>• require consent,<br>• are permissible without consent,<br>• are prohibited,<br>• or are exempt development. | Part 3, Division 17 of the SEPP provides development controls for roads. Section 94 states that development for the purposes of a road or road infrastructure facilities may be carried out by or on behalf of a public authority without consent on any land.<br>In this section, road infrastructure facilities includes, among other things,<br>• Emergency works, or routine maintenance works, carried out on an existing road or on land that is adjacent to such a road (including land to which SEPP 14 – Coastal Wetlands or SEPP 26 Littoral Rainforest applies, but if they are on such land, only if any adverse impact on the land is restricted to the minimum possible to allow the works to be carried out,<br>• Environmental management works if the works are in or adjacent to a road corridor<br>Division 1 provides provisions for consultation that is required to be undertaken for Part 5 activities. |
| *NSW Protection of the Environment Administration Act 1991* and *Protection of the Environment Operations Act 1997* | These related Acts established the NSW Environment Protection Council and Environmental Protection Authority (subsequently absorbed into NSW Office of Environment and Heritage then re-established in 2012) introduced ecologically sustainable development into the NSW statutory framework and provided the operational framework for pollution control, licensing and and enforcement for the State. | • Provides for pollution licences to regulate potentially hazardous activities<br>• Sets penalties and means for enforcement of breaches |
| *State Environmental Planning Policy No. 26 Littoral Rainforests* | The aim of this Policy is to provide a mechanism for the consideration of applications for development that are likely to damage or destroy littoral rainforest areas with a view to the preservation of those areas in their natural state. The policy applies to land described in maps administered by the Department of Planning and to land within a distance of 100 metres from the outer edge of the mapped area except residential land | Council consent is required and concurrence sought from the Director of Planning for development proposals that falls within a SEPP 26 boundary.<br>This policy prevails over the Infrastructure SEPP with the exception of Clauses 41 (2) (b), 48 (b), 79 (2) (b) and 94 (2) (b) of the Infrastructure SEPP. |

# 9

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**NSW Roadside Environment Committee (undated) Managing Roadsides 3 Implementation**

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http://www.rms.nsw.gov.au/documents/about/environment/rec-fact4-managing-roadsides-eval.pdf

**NSW Scientific Committee (199x) White box yellow box Blakely's red gum woodland - endangered ecological community listing**

https://www.environment.nsw.gov.au/determinations/BoxgumWoodlandEndComListing.htm

**Riverina Local Land Services (2017) Riverina Regional Strategic Weed Management Plan 2017-2022**

Riverina Local Lands Services, NSW
https://riverina.lls.nsw.gov.au/__data/assets/pdf_file/0007/722446/RIVERINA_RSWMP-26-June_RLLS_FINAL.pdf

# 10

# Appendices

**A** **Sites summary and management actions**

Site inventory with management actions

**B** **Assessment site profiles**

Site profiles; assessment details for conservation status, landscape context and vegetation condition; habitat features, threats and disturbances

**D** **Plant Community Types**

Profiles of threatened plant community types in Wagga Wagga local government area

**C** **Roadside assessment method**

Method documentation and guidelines developed for Local Government NSW and Local Land Services



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City of
Wagga Wagga

# Appendix A

## Wagga Wagga Roadside Vegetation Management Plan— Roadside assessment sites summary and management actions



Prepared for the City of Wagga Wagga
by CTENVIRONMENTAL

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|

## Wagga Wagga LGA

export records | view as site report/s

122 LGA sites

### Alexanders Road

start -34.942567, 147.079103 | end -34.93747, 147.036086 | 1 site/s

| | assess date | | PCT | TEC status | Part A | Part B | Part C | score | |
|---|---|---|---|---|---|---|---|---|---|
| 2 / 1 | from 0 km to 4 km | 21 Dec 17 Carl | 75 | NSW TEC | threatened | moderate | high | 29 | HCV |

### Alleyns Road

start -33.704742, 150.797408 | end | 1 site/s

| | assess date | | PCT | TEC status | Part A | Part B | Part C | score | |
|---|---|---|---|---|---|---|---|---|---|
| | from 1 km to 6 km | 16 May 18 CTENVIRONMENTAL | 266 | NSW TEC | threatened | moderate | low | 12 | MCV* |

### Arajoel Road

start -35.020283, 146.890792 | end -35.074261, 146.883745 | 1 site/s

| | assess date | | PCT | TEC status | Part A | Part B | Part C | score | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | from 7 km to 12 km | 28 Feb 18 Carl | 53 | NSW TEC | threatened | large and/or connected | low | 36 | MCV* |

### Atherton Crescent

start -34.717237, 150.059053 | end -34.718975, 150.075592 | 1 site/s

| | assess date | | PCT | TEC status | Part A | Part B | Part C | score | |
|---|---|---|---|---|---|---|---|---|---|
| 3 | from 1 km to 6 km | 6 Feb 18 CTENVIRONMENTAL | 266 | NSW TEC | threatened | moderate | moderate | 28 | MCV |

### Bartletts Road

start -34.873225, 146.955428 | end -34.877053, 146.986603 | 1 site/s

| | assess date | | PCT | TEC status | Part A | Part B | Part C | score | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | from 1 km to 4 km | 20 Dec 17 CTENVIRONMENTAL | 80 | NSW TEC | threatened | moderate | moderate | 32 | MCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Big Springs Road** | | | | | start -35.30035, 147.441283 | end -35.247397, 147.456847 | 1 site/s | | |
| 2 **from 0 km to 7 km** | 9 Feb 18 Carl | | 268 | NSW TEC | threatened | moderate | moderate | 32 | MCV |
| **Boundary Road** | | | | | start -34.879878, 147.083528 | end -34.894342, 147.1866 | 1 site/s | | |
| 3 **from 0 km to 9.5 km** | 21 Dec 17 CTENVIRONMENTAL | | 80 | NSW TEC | threatened | moderate | high | 27 | HCV |
| **Brooklyn Lane** | | | | | start -35.33388, 147.539903 | end -35.36285, 147.517533 | 1 site/s | | |
| 2 **from 2 km to 6 km** | 26 Jan 18 Carl | | 266 | NSW TEC | threatened | moderate | moderate | 26 | MCV |
| **Brunskills Road** | | | | | start -35.045342, 147.366883 | end -35.043367, 147.350708 | 1 site/s | | |
| 2 **from 0 km to 1.5 km** | 28 Feb 18 Carl | | 267 | NSW TEC | threatened | moderate | moderate | 23 | MCV |
| **Brushwood Road** | | | | | start -34.856412, 147.087464 | end -35.0099, 147.06633 | 1 site/s | | |
| 5 **from 1 km to 18 km** | 20 Dec 17 CTENVIRONMENTAL | | 80 | NSW TEC | threatened | moderate | high | 36 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Bunyons Road** | | | | | start -35.057267, 147.023497 | end -35.091197, 147.040803 | 1 site/s | | |
| 2 **from 2 km to 5 km** | 28 Feb 18 Carl | complete | 80 | NSW TEC | threatened | large and/or connected | moderate | 35 | HCV |
| **Burkes Creek Road** | | | | | start -35.276222, 147.203553 | end -35.234817, 147.184678 | 1 site/s | | |
| 1 **from 0 km to 7 km** | 15 Mar 18 Carl | complete | 277 | NSW TEC | threatened | moderate | moderate | 29 | MCV |
| **Burrandana Road** | | | | | start -35.450312, 147.387908 | end -35.357978, 147.289917 | 2 site/s | | |
| 3 **from 2 km to 16 km** | 9 Feb 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 42 | HCV |
| 2 **from 8 km to 10.5 km** | 11 Dec 17 Carl | complete | 277 | NSW TEC | threatened | moderate | moderate | 25 | MCV |
| **Camerons Road** | | | | | start -35.116592, 147.052933 | end -35.061222, 147.037047 | 1 site/s | | |
| 3 **from 0 km to 8 km** | 18 Dec 17 Nakia/ Bruce | complete | 76 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV |
| **Carabost Road** | | | | | start -35.49125, 147.750672 | end -35.538158, 147.737412 | 1 site/s | | |
| 2 **from 0 km to 6 km** | 24 Jan 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 38 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Casleys Lane** | | | | | start -34.930758, 147.273712 | end -34.952117, 147.269608 | | | 1 site/s |
| 3 **from 0 km to 2 km** | 19 Dec 17 Carl | complete | 277 | NSW TEC | threatened | moderate | high | 27 | HCV |
| **Central Island Road** | | | | | start -34.966642, 146.861022 | end -34.967555, 146.847078 | | | 2 site/s |
| 3 **from 12.5 km to 14 km** | 28 Feb 18 CTENVIRONMENTAL | complete | 80 | NSW TEC | threatened | large and/or connected | moderate | 37 | HCV |
| 3 **from 4 km to 7 km** | 28 Feb 18 Carl | complete | 5 | | threatened | large and/or connected | moderate | 46 | HCV |
| **Compton Road** | | | | | start -35.326387, 147.431887 | end -35.355655, 147.451583 | | | 1 site/s |
| 3 **from 1 km to 5 km** | 10 Dec 17 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 40 | HCV |
| **Cookardinia Road** | | | | | start -35.482212, 147.328413 | end -35.486538, 147.360795 | | | 1 site/s |
| 4 **from 5 km to 7.5 km** | 11 Dec 17 Carl | complete | 277 | NSW TEC | threatened | moderate | high | 31 | HCV |
| **Coolamon Road** | | | | | start -35.062039, 147.376205 | end -35.008878, 147.355042 | | | 3 site/s |
| 2 **from 1 km to 7 km** | 19 Dec 17 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 47 | HCV |
| 2 **from 13 km to 21 km** | 19 Dec 17 Carl | complete | 80 | NSW TEC | threatened | large and/or connected | high | 44 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| 2 | from 7 km to 13 km | 19 Dec 17 Carl | 277 | NSW TEC | threatened | large and/or connected | moderate | 49 | HCV |
| **Coreinbob Road** | | | | | start -35.207542 147.631683 | | end -35.223197 147.668533 | 1 site/s | |
| 2 | from 2 km to 6 km | 22 Jan 18 Carl | 266 | NSW TEC | threatened | large and/or connected | high | 44 | HCV |
| **Cottee Road** | | | | | start -35.019756 147.101364 | | end -34.892128 147.168687 | 1 site/s | |
| 3 | from 0 km to 18 km | 21 Dec 17 CTENVIRONMENTAL | 75 | NSW TEC | threatened | large and/or connected | moderate | 37 | HCV |
| **Creasys Road** | | | | | start -35.38793 147.25688 | | end -35.389462 147.270417 | 1 site/s | |
| 2 | from 0 km to 1 km | 11 Dec 17 Carl | 76 | NSW TEC | threatened | large and/or connected | moderate | 42 | HCV |
| **Deepwater Road** | | | | | start -34.82363 146.905992 | | end -34.86745 146.896622 | 1 site/s | |
| 2 | from 1 km to 5 km | 20 Dec 17 Carl | 80 | NSW TEC | threatened | large and/or connected | moderate | 45 | HCV |
| **East Brushwood Road** | | | | | start -34.880867 147.089889 | | end -34.94247 147.079253 | 1 site/s | |
| 3 | from 0 km to 6 km | 21 Dec 17 CTENVIRONMENTAL | 75 | NSW TEC | threatened | moderate | high | 28 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **East Millwood Road** | | | | | start -34.921413, 147.175903 | end -35.041742, 147.158492 | 1 site/s | | |
| 3 **from 0 km to 13 km** | 28 Feb 18 Carl | | 267 | NSW TEC | threatened | large and/or connected | moderate | 34 | HCV |
| **East Tooyal Road** | | | | | start -34.894755, 147.241975 | end -34.932655, 147.234742 | 1 site/s | | |
| 3 **from 0 km to 2.5 km** | 19 Dec 17 CTENVIRONMENTAL | | 277 | NSW TEC | threatened | moderate | high | 28 | HCV |
| **Emu Plains Road** | | | | | start -35.498683, 147.313033 | end -35.45105, 147.339722 | 1 site/s | | |
| 3 **from 3.5 km to 9.25 km** | 11 Dec 17 Carl | | 277 | NSW TEC | threatened | moderate | high | 38 | HCV |
| **Federation Road** | | | | | start -35.008306, 147.38765 | end -35.007228, 147.35602 | 1 site/s | | |
| 1 **from .5 km to 2 km** | 19 Dec 17 Carl | | 267 | NSW TEC | threatened | moderate | moderate | 21 | MCV |
| **Flanagans Lane** | | | | | start -34.84145, 146.86653 | end -34.826797, 146.869278 | 1 site/s | | |
| 1 **from 1 km to 3 km** | 20 Dec 17 Carl | | 80 | NSW TEC | threatened | moderate | low | 16 | MCV* |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Flowerdale Road** | | | | | | start -34.960822, 147.32132 | end -34.954853, 147.274187 | 1 site/s | | |
| 1 **from 0 km to 5.5 km** | 28 Feb 18 Carl | complete | 277 | NSW TEC | threatened | moderate | moderate | 23 | MCV | > |
| **Galore Road** | | | | | | start -34.997842, 146.809708 | end -35.061355, 146.798003 | 1 site/s | | |
| 1 **from 0 km to 7 km** | 18 Dec 17 Carl/Nakia | complete | 80 | NSW TEC | threatened | moderate | moderate | 26 | MCV | > |
| **Ganmurra Road** | | | | | | start -35.008586, 147.049514 | end -34.96398, 147.002503 | 1 site/s | | |
| 1 **from 1 km to 9 km** | 21 Dec 17 Carl | complete | 74 | NSW TEC | threatened | moderate | moderate | 32 | MCV | > |
| **Gap Hall-Coolamon Road** | | | | | | start -34.94527, 147.252808 | end -34.91872, 147.253647 | 1 site/s | | |
| 1 **from 4 km to 7 km** | 19 Dec 17 Carl | complete | 277 | NSW TEC | threatened | moderate | moderate | 24 | MCV | > |
| **Gelston Park Road** | | | | | | start | end | 1 site/s | | |
| 3 **from 4.5 km to 5 km** | 10 Dec 17 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 51 | HCV | > |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **German Church Road** | | | | | start -35.415245, 147.190492 | end -35.40383, 147.169267 | 1 site/s | | | |
| 3 | **from 0 km to 2 km** | 9 Feb 18 Carl | ✓ | 277 | NSW TEC | threatened | large and/or connected | moderate | 36 | HCV |
| **Gregadoo East Road** | | | | | start -35.276803, 147.52118 | end -35.250112, 147.466522 | 2 site/s | | | |
| | **from 0 km to 6 km** | 26 Jan 18 Carl | ✓ | 277 | NSW TEC | threatened | moderate | moderate | 33 | MCV |
| 2 | **from 8 km to 11 km** | 9 Feb 18 Carl | ✓ | 277 | NSW TEC | threatened | large and/or connected | moderate | 42 | HCV |
| **Hammond Avenue** | | | | | start -35.123692, 147.402817 | end -35.124867, 147.407988 | 1 site/s | | | |
| | **from 2.5 km to 3 km** | 22 Jan 18 Carl | ✓ | 5 | | threatened | large and/or connected | low | 37 | MCV* |
| **Hancocks Lane** | | | | | start -34.928245, 147.198088 | end -34.935447, 147.254638 | 1 site/s | | | |
| 2 | **from 0 km to 5 km** | 21 Dec 17 Carl | ✓ | 277 | NSW TEC | threatened | moderate | high | 37 | HCV |
| **Henty Road** | | | | | start -35.365953, 147.273483 | end -35.448392, 147.184617 | 1 site/s | | | |
| 2 | **from 6 km to 12 km** | 9 Feb 18 Carl | ✓ | 277 | NSW TEC | threatened | large and/or connected | moderate | 35 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Holbrook Road** | start -35.455758, 147.268708 | end -35.488888, 147.261703 | 4 site/s | | | | | | | |
| from km to 9 km | 11 Dec 17 Carl | | 277 | NSW TEC | threatened | moderate | moderate | 32 | MCV | > |
| 2 from 14.5 km to 23.5 km | 11 Dec 17 Carl | | 277 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV | > |
| 4 from 29 km to 35 km | 15 Mar 18 Carl | | 266 | NSW TEC | threatened | large and/or connected | high | 50 | HCV | > |
| from 4 km to 9 km | 11 Dec 17 Carl | | 277 | NSW TEC | threatened | large and/or connected | low | 27 | MCV* | > |
| **Humula Eight Mile Road** | start -35.470858, 147.6306 | end -35.484112, 147.754683 | 1 site/s | | | | | | | |
| 2 from 0 km to 12 km | 24 Jan 18 Carl | | 352 | NSW TEC | threatened | large and/or connected | moderate | 40 | HCV | > |
| **Humula Road** | start -35.326828, 147.761063 | end -35.294055, 147.723205 | 3 site/s | | | | | | | |
| 1 from 1 km to 6 km | 24 Jan 18 Carl | | 277 | NSW TEC | threatened | large and/or connected | moderate | 41 | HCV | > |
| 2 from 18.5 km to 20 km | 24 Jan 18 Carl | | 277 | NSW TEC | threatened | large and/or connected | moderate | 33 | HCV | > |
| 2 from 8 km to 12 km | 24 Jan 18 Carl | | | | threatened | moderate | moderate | 28 | MCV | > |

# Council Roadside Reserves

sort records by LGA and road name

sort records by LGA and conservation value

sort records by LGA and PCT

sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Keajura Road** | | | | | | start -35.19493, 147.525878 | end -35.208905, 147.537383 | 2 site/s | | |
| 1 from 17.5 km to 19.5 km | 24 Jan 18 Carl | | 277 | NSW TEC | threatened | moderate | moderate | 21 | MCV | > |
| 3 1 from 2 km to 16 km | 24 Jan 18 Carl | | 277 | NSW TEC | threatened | large and/or connected | high | 45 | HCV | > |
| **Kendals Lane** | | | | | | start -35.221747, 147.177917 | end -35.214272, 147.187562 | 1 site/s | | |
| 4 from 4 km to 5 km | 15 Mar 18 Carl | | 80 | NSW TEC | threatened | moderate | high | 24 | HCV | > |
| **Kings Road** | | | | | | start -35.091136, 146.830842 | end -35.010833, 146.847503 | 1 site/s | | |
| 3 from 5 km to 13 km | 28 Feb 18 Carl | | 80 | NSW TEC | threatened | large and/or connected | moderate | 36 | HCV | > |
| **Livingstone Gully Road** | | | | | | start -35.296233, 147.469697 | end -35.357487, 147.4673 | 1 site/s | | |
| 3 from 1 km to 8 km | 9 Feb 18 Carl | | 277 | NSW TEC | threatened | large and/or connected | moderate | 38 | HCV | > |
| **Lockhart Road** | | | | | | start -35.171392, 146.894272 | end -35.090989, 147.118483 | 1 site/s | | |
| 1 from 1 km to 19 km | 18 Dec 17 Nakia/ Bruce | | 76 | NSW TEC | threatened | large and/or connected | moderate | 51 | HCV | > |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Locks Road** | | | | | start -34.933662, 147.297975 | end -34.928322, 147.256347 | 1 site/s | | |
| 2 **from 0 km to 4 km** | 19 Dec 17 Carl | complete | 80 | NSW TEC | threatened | moderate | high | 26 | HCV |
| **Lower Middle Road** | | | | | start -34.834397, 146.993042 | end -34.94373, 146.983138 | 1 site/s | | |
| 2 **from 0 km to 13 km** | 20 Dec 17 Carl | complete | 80 | NSW TEC | threatened | large and/or connected | high | 39 | HCV |
| **Lower Tarcutta Road** | | | | | start -35.244678, 147.762878 | end -35.212247, 147.76242 | 1 site/s | | |
| 2 **from 0 km to 4 km** | 22 Jan 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | high | 50 | HCV |
| **Macks Road** | | | | | start -35.02335, 147.238358 | end -35.055564, 147.232162 | 1 site/s | | |
| 1 **from 3 km to 6 km** | 28 Feb 18 Carl | complete | 80 | NSW TEC | threatened | moderate | moderate | 24 | MCV |
| **Mangain Hall Road** | | | | | start -34.900863, 146.98265 | end -34.905583, 147.018417 | 1 site/s | | |
| 1 **from 0 km to 3 km** | 20 Dec 17 Carl | complete | 80 | NSW TEC | threatened | moderate | moderate | 34 | MCV |

# Council Roadside Reserves

sort records by LGA and road name

sort records by LGA and conservation value

sort records by LGA and PCT

sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Marrar Road** | | | | | | start -34.980275, 147.343675 | end -34.950792, 147.345688 | 1 site/s | |
| 4 **from 0 km to 3 km** | 28 Feb 18 Carl | on | 277 | NSW TEC | threatened | moderate | high | 35 | HCV |
| **Mates Gully Road** | | | | | | start -35.20442, 147.681153 | end -35.281117, 147.721588 | 1 site/s | |
| 3 **from 0 km to 11 km** | 22 Jan 18 Carl | on | 343 | | threatened | large and/or connected | moderate | 43 | HCV |
| **Milbrulong Road** | | | | | | start -35.180928, 146.855942 | end -35.150792, 146.867462 | 1 site/s | |
| 2 **from 1 km to 2 km** | 18 Dec 17 Nakia/ Bruce | on | 75 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV |
| **Millwood Road** | | | | | | start -34.894312, 147.186767 | end -35.0279, 147.143495 | 1 site/s | |
| 2 **from 0 km to 15 km** | 21 Dec 17 Carl | on | 267 | NSW TEC | threatened | large and/or connected | moderate | 36 | HCV |
| **Mundarlo Road** | | | | | | start -35.19345, 147.752563 | end -35.184738, 147.773942 | 1 site/s | |
| 2 **from 0 km to 2.5 km** | 22 Jan 18 Carl | on | 343 | | threatened | large and/or connected | high | 46 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Mundowy Lane** | | | | | start -35.0701, 147.111725 | end -35.027053, 147.1093 | | 1 site/s | |
| 2 from 1 km to 7 km | 21 Dec 17 Carl | complete | 5 | | threatened | moderate | moderate | 25 | MCV |
| **O'briens Creek Road** | | | | | start -35.289033, 147.317628 | end -35.297355, 147.335053 | | 3 site/s | |
| from 1.5 km to 3.5 km | 10 Dec 17 Carl | complete | 266 | NSW TEC | threatened | moderate | moderate | 26 | MCV |
| 2 from 3.5 km to 6 km | 10 Dec 17 Carl | complete | 343 | | threatened | large and/or connected | high | 44 | HCV |
| 2 from 6 km to 12.5 km | 10 Dec 17 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 32 | HCV |
| **O'sheas Road** | | | | | start -35.055789, 147.211013 | end -35.074678, 147.207383 | | 1 site/s | |
| 3 from 1 km to 3 km | 28 Feb 18 Carl | complete | 5 | | threatened | large and/or connected | moderate | 33 | HCV |
| **Oberne-Umbango Road** | | | | | start -35.380163, 147.78868 | end -35.373812, 147.81752 | | 1 site/s | |
| 2 from 2 km to 5 km | 24 Jan 18 Carl | complete | 347 | NSW TEC | threatened | moderate | moderate | 24 | MCV |
| **Old Narrandera Road** | | | | | start -35.030389, 147.144897 | end -34.958533, 147.011183 | | 4 site/s | |
| 2 from 21 km to 49 km | 20 Dec 17 Carl | complete | 80 | NSW TEC | threatened | large and/or connected | high | 47 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | from 28 km to 49 km | | 80 | NSW TEC | threatened | large and/or connected | high | 53 | HCV | > |
| 3 | from 3 km to 6 km | 20 Dec 17 Carl | 267 | NSW TEC | threatened | large and/or connected | moderate | 42 | HCV | > |
| 3 | from 8 km to 19 km | 20 Dec 17 Carl | 276 | NSW TEC | threatened | large and/or connected | moderate | 37 | HCV | > |

## Olympic Highway

start -35.233772, 147.184783 | end -35.257412, 147.149444 | 2 site/s

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | from 1 km to 4 km | 15 Mar 18 Carl | 80 | NSW TEC | threatened | moderate | moderate | 24 | MCV | > |
| 2 | from 27 km to 36 km | 19 Dec 17 Carl | 277 | NSW TEC | threatened | large and/or connected | moderate | 44 | HCV | > |

## Oura Road

start -35.101136, 147.416337 | end -35.105733, 147.523133 | 1 site/s

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | from 1 km to 11 km | 19 Dec 17 Carl | 796 | NSW TEC | threatened | large and/or connected | low | 27 | MCV* | > |

## Pattersons Road

start -35.090417, 147.46495 | end -35.057445, 147.47307 | 1 site/s

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | from 12 km to 15.5 km | 19 Dec 17 Carl | 276 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV | > |

## Peppermint Drive

start -35.220742, 147.625855 | end -35.252637, 147.611663 | 1 site/s

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | from 3 km to 6 km | 22 Jan 18 Carl | 266 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV | > |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Pipers Lane** | | | | | start -34.865875, 146.990387 | end -34.868672, 147.012117 | 1 site/s | | |
| 2 **from 7 km to 9 km** | 21 Dec 17 Carl | on | 80 | NSW TEC | threatened | moderate | high | 16 | HCV |
| **Pipers Road** | | | | | start -34.876592, 147.048203 | end -34.879855, 147.082305 | 1 site/s | | |
| 1 **from 4 km to 7 km** | 20 Dec 17 Carl | on | 75 | NSW TEC | threatened | moderate | moderate | 28 | MCV |
| **Plumpton Road** | | | | | start -35.183578, 147.357283 | end -35.221958, 147.3497 | 1 site/s | | |
| 3 **from 0 km to 5 km** | 15 Mar 18 Carl | on | 277 | NSW TEC | threatened | large and/or connected | moderate | 36 | HCV |
| **Poiles Road** | | | | | start -35.059136, 147.388245 | end -35.001247, 147.395508 | 1 site/s | | |
| 1 **from 2 km to 8 km** | 19 Dec 17 Carl | on | 277 | NSW TEC | threatened | moderate | low | 27 | MCV* |
| **Prices Road** | | | | | start -35.041417, 147.350237 | end -35.027206, 147.338167 | 1 site/s | | |
| 2 **from 1.5 km to 3 km** | 28 Feb 18 Carl | on | 277 | NSW TEC | threatened | moderate | moderate | 26 | MCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Pulletop Road** | | | | | start -35.370712, 147.452683 | end -35.413363, 147.405333 | | | 1 site/s |
| 3 **from 5 km to 12 km** | 9 Feb 18 Carl | complete | 266 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV |
| **Rands Tank Road** | | | | | start -34.963378, 147.030364 | end -34.887088, 147.0448 | | | 0 site/s |
| 2 | 20 Dec 17 CTENVIRONMENTAL | complete | 80 | NSW TEC | threatened | large and/or connected | high | 38 | HCV |
| **River Road** | | | | | start -35.085653, 147.336808 | end -35.069308, 147.285155 | | | 1 site/s |
| 3 **from 8 km to 13 km** | 20 Dec 17 Carl | complete | 5 | | threatened | large and/or connected | moderate | 47 | HCV |
| **Robinsons Road** | | | | | start -35.012425, 147.181412 | end -35.025531, 147.255645 | | | 1 site/s |
| 1 **from 0 km to 4 km** | 28 Feb 18 Carl | complete | 80 | NSW TEC | threatened | moderate | moderate | 21 | MCV |
| **Rohans Road** | | | | | start -35.041572, 146.969588 | end -35.159017, 146.907242 | | | 1 site/s |
| 1 **from 1 km to 11 km** | 19 Dec 17 Nakia/Bruce | complete | 80 | NSW TEC | threatened | large and/or connected | moderate | 47 | HCV |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Roping Pole Road** | | | | | start -34.879263, 147.028244 | end -34.94683, 146.998872 | 1 site/s | | | |
| 1 from 5 km to 13 km | 20 Dec 17 Carl | | 75 | NSW TEC | threatened | moderate | moderate | 33 | MCV | > |
| **Stolls Lane** | | | | | start -35.414025, 147.219208 | end -35.414025, 147.219208 | 1 site/s | | | |
| 1 from 0 km to 5 km | 9 Feb 18 Carl | | 277 | NSW TEC | threatened | large and/or connected | moderate | 42 | HCV | > |
| **Sturt Highway** | | | | | start -35.161439, 147.511305 | end -35.16057, 147.576705 | 7 site/s | | | |
| 1 1 from 12 km to 17 km | 22 Jan 18 Carl | | 266 | NSW TEC | threatened | large and/or connected | low | 27 | MCV* | > |
| 1 from 31 km to 35 km | 22 Jan 18 Carl | | 277 | NSW TEC | threatened | large and/or connected | moderate | 30 | HCV | > |
| from 37 km to 40 km | 22 Jan 18 Carl | | 76 | NSW TEC | threatened | moderate | moderate | 23 | MCV | > |
| 2 from 41 km to 72 km | 18 Dec 17 Carl/Nakia | | 76 | NSW TEC | threatened | large and/or connected | moderate | 50 | HCV | > |
| 2 from 75 km to 89 km | 18 Dec 17 Carl/Nakia | | 267 | NSW TEC | threatened | large and/or connected | moderate | 48 | HCV | > |
| 2 from 89 km to 92 km | 18 Dec 17 Carl/Nakia | | 277 | NSW TEC | threatened | large and/or connected | moderate | 51 | HCV | > |
| 1 from 9.5 km to 11 km | 22 Jan 18 Carl | | 276 | NSW TEC | threatened | large and/or connected | low | 40 | MCV* | > |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **The Gap Road** | | | | | | start -35.066264 147.320328 | end -35.056667 147.323455 | 2 site/s | | |
| 2 from 0 km to 1 km | 20 Dec 17 Carl | complete | 75 | NSW TEC | threatened | large and/or connected | high | 44 | HCV | > |
| 2 from 15 km to 22 km | 28 Feb 18 Carl | complete | 267 | NSW TEC | threatened | large and/or connected | moderate | 35 | HCV | > |
| **The Rock Road** | | | | | | start -35.061397 146.797988 | end -35.165639 146.913772 | 1 site/s | | |
| 2 from 0 km to 15 km | 18 Dec 17 Nakia/ Bruce | complete | 80 | NSW TEC | threatened | large and/or connected | moderate | 42 | HCV | > |
| **The Rock-Collingullie Road** | | | | | | start -35.106903 147.120317 | end -35.106903 147.120317 | 1 site/s | | |
| 2 from 2 km to 11 km | 28 Feb 18 Carl | complete | 80 | NSW TEC | threatened | large and/or connected | moderate | 32 | HCV | > |
| **Tooyal Road** | | | | | | start -34.89277 147.227037 | end -35.056606 147.193542 | 1 site/s | | |
| 2 from 0 km to 16 km | 21 Dec 17 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | high | 39 | HCV | > |
| **Trahairs Road** | | | | | | start -35.043414 147.413345 | end -35.046106 147.428208 | 1 site/s | | |
| 1 from 1.5 km to 2.5 km | 19 Dec 17 Carl | complete | 277 | NSW TEC | threatened | moderate | moderate | 22 | MCV | > |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Trewalla Road** | | | | | start -35.296488, 147.534775 | end -35.30652, 147.567947 | 1 site/s | | | |
| 2 **from .5 km to 3 km** | 26 Jan 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 32 | HCV | › |
| **Tumbarumba Road** | | | | | start -35.456233, 147.610717 | end -35.537605, 147.653855 | 2 site/s | | | |
| 2 **from 0 km to 11 km** | 24 Jan 18 Carl | complete | 268 | NSW TEC | threatened | large and/or connected | moderate | 44 | HCV | › |
| 3 **from 12 km to 35 km** | 26 Jan 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 33 | HCV | › |
| **Twelve Mile Road** | | | | | start -35.10763, 147.172713 | end -35.134006, 147.167647 | 1 site/s | | | |
| 1 **from 2 km to 5 km** | 28 Feb 18 Carl | complete | 80 | NSW TEC | threatened | moderate | moderate | 27 | MCV | › |
| **Uranquinty Cross Road** | | | | | start -35.184422, 147.227342 | end -35.186967, 147.2426 | 1 site/s | | | |
| 1 **from 0 km to 2 km** | 15 Mar 18 Carl | complete | 80 | NSW TEC | threatened | moderate | moderate | 32 | MCV | › |
| **Vonarx Road** | | | | | start -35.020497, 147.416962 | end -35.017955, 147.397567 | 1 site/s | | | |
| 1 **from 0 km to 1.5 km** | 19 Dec 17 Carl | complete | 267 | NSW TEC | threatened | moderate | moderate | 24 | MCV | › |

# Council Roadside Reserves

sort records by LGA and road name | sort records by LGA and conservation value | sort records by LGA and PCT | sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Warren Church Road** | | | | | | start -34.950897, 147.07785 | end -34.969437, 147.209625 | 1 site/s | |
| 2 **from 0 km to 14 km** | 21 Dec 17 Carl | complete | 75 | NSW TEC | threatened | moderate | high | 37 | HCV |
| **Waverley Road** | | | | | | start -35.362688, 147.289337 | end -35.365953, 147.273483 | 1 site/s | |
| **from 1 km to 2.5 km** | 9 Feb 18 Carl | complete | 276 | NSW TEC | threatened | moderate | moderate | 28 | MCV |
| **Westbrook Road** | | | | | | start -35.279987, 147.742387 | end -35.364312, 147.821625 | 1 site/s | |
| 4 **from 25 km to 37.5 km** | 26 Jan 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 34 | HCV |
| **Westby Road** | | | | | | start -35.450887, 147.389908 | end -35.536955, 147.429092 | 1 site/s | |
| 3 **from 2 km to 11 km** | 9 Feb 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 43 | HCV |
| **Wokolena Road** | | | | | | start -35.16, 147.575928 | end -35.143458, 147.55635 | 1 site/s | |
| 2 **from 0 km to 3 km** | 22 Jan 18 Carl | complete | 266 | NSW TEC | threatened | large and/or connected | high | 52 | HCV |

# Council Roadside Reserves

sort records by LGA and road name

sort records by LGA and conservation value

sort records by LGA and PCT

sort records by LGA and assess date

Admin

122 total sites

LOCAL GOVERNMENT NSW

| | assess date | record complete / incomplete | PCT | TEC status | Part A conservation status | Part B landscape context | Part C vegetation condition | site raw score | site conservation value |
|---|---|---|---|---|---|---|---|---|---|
| **Yarragundry Road** | | | | | | start -35.116961, 147.219908 | end -35.130325, 147.21753 | 1 site/s | |
| 2 **from 1 km to 2 km** | 28 Feb 18 Carl | complete | 80 | NSW TEC | threatened | moderate | moderate | 27 | MCV |
| **Yerong Creek-Mangoplah Road** | | | | | | start -35.398125, 147.178422 | end -35.36787, 147.22963 | 1 site/s | |
| 2 **from 1 km to 7 km** | 9 Feb 18 Carl | complete | 277 | NSW TEC | threatened | large and/or connected | moderate | 36 | HCV |

NSW GOVERNMENT | NSW Environmental Trust

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# Wagga Wagga LGA

## Alexanders Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 4 km** | *PCT 75* | threatened | moderate | high | HCV |

weeds observed

African boxthorn, Scotch thistle and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| ongoing | medium | **targeted weed control** | start | | who |
| | ongoing | *[entire reach]* | completed | | $ |
| proposed | | **signage: High Conservation Value reach** | start | | who |
| | | | completed | | $ |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Arajoel Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 7 km to 12 km** | *PCT 53* | threatened | large and/or connected | low | **MCV*** |

*Critically Endangered Ecological Community*

*Artesian Springs Ecological Community in the Great Artesian Basin*

weeds observed

Schinus

weed density

not present

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Atherton Crescent

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 6 km** | *PCT 266* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Bathurst Burr

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage [for … ]** | start | | who | |
| | | | completed | | $ | |
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Bartletts Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 4 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

St John's wort and Silverleaf nightshade

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Big Springs Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 7 km** | *PCT 268* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort, Nodding thistle and African lovegrass

weed density: *minor*

site managed species:

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Boundary Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 9.5 km** | *PCT 80* | threatened | moderate | high | HCV |

weeds observed

African boxthorn, Silverleaf nightshade, Horehound and Privet

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Brooklyn Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 6 km** | *PCT 266* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Brunskills Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 1.5 km** | *PCT 267* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Schinus, Ground asparagus and Olive

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **passive management** | start | | who |
| | | | completed | | $ |
| proposed | | **control firewood removal** | start | | who |
| | | | completed | | $ |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Brushwood Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 18 km** | *PCT 80* | threatened | moderate | high | HCV |

weeds observed

Silverleaf nightshade, African boxthorn and Spiny burrgrass

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **remove rubbish** | start | who | |
| | | | completed | $ | |
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **enhance habitat for Superb Parrot** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

| | | Part A conservation | Part B landscape | Part C vegetation | Conserv'n |
|---|---|---|---|---|---|

LOCAL GOVERNMENT NSW

NSW GOVERNMENT This project has been assisted by the New South Wales Government through its Environmental Trust

# Wagga Wagga LGA

**from 2 km to 5 km** *PCT 80*

threatened | large and/or connected | moderate | HCV

weeds observed

Horehound

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Burkes Creek Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 7 km** | *PCT 277* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Tree Lucerne and Almonds

weed density: significant

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted woody weed control** | start | | who | |
| | | | completed | | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Burrandana Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 16 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Nodding thistle and Horehound

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | medium | **restore/enhance habitat** | start | | who | |
| | | | completed | | $ | |
| proposed | medium | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | medium | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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NSW GOVERNMENT

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# Wagga Wagga LGA

**from 8 km to 10.5 km** | *PCT 277* | threatened | moderate | moderate | **MCV**

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

St Barnaby's Thistle

weed density

*not present*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **regenerate understory** | start | | who | |
| | | | completed | | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Camerons Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 8 km** | *PCT 76* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions*

weeds observed: St John's wort and Horehound

weed density: not present

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

LOCAL GOVERNMENT NSW

NSW GOVERNMENT

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# Wagga Wagga LGA

## Carabost Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 6 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Blackberry, Weeping Willow, Poplar sp., St John's wort and Black locust

weed density: *minor*

site managed species:

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Casleys Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 2 km** | *PCT 277* | threatened | moderate | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

weed density

*not present*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **maintain condition of existing vegetation** | start | who | |
| | | | completed | $ | |
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Central Island Road

**from 12.5 km to 14 km** *PCT 80*

| Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|
| threatened | large and/or connected | moderate | HCV |

weeds observed

weed density not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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**from 4 km to 7 km** *PCT 5*

threatened | large and/or connected | moderate | **HCV**

weeds observed

White Heliotrope and Scotch thistle

weed density: significant

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Compton Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 5 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Blackberry

weed density: significant

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **regenerate understory** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Cookardinia Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 5 km to 7.5 km** | *PCT 277* | threatened | moderate | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Nodding thistle and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **regenerate understory** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage [for … ]** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Coolamon Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 7 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort, Blue heliotrope and Johnson grass

weed density: *minor*

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 13 km to 21 km** | *PCT 80* | threatened | large and/or connected | high | HCV |

weeds observed: Horehound and St John's wort

weed density: *minor*

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |

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| | | | | | |
|---|---|---|---|---|---|
| proposed | **signage: High Conservation Value reach** | start | | who | |
| | | completed | | $ | |

**from 7 km to 13 km** *PCT 277*

threatened | large and/or connected | moderate | HCV

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Nodding thistle, St John's wort, African boxthorn and Silverleaf nightshade

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

# Wagga Wagga LGA

## Coreinbob Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 6 km** | *PCT 266* | threatened | large and/or connected | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Cottee Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 18 km** | *PCT 75* | threatened | large and/or connected | moderate | HCV |

weeds observed

Serrated tussock, St John's wort and Scotch thistle

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Creasys Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 1 km** | *PCT 76* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions*

weeds observed

weed density: significant

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **regenerate understory** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Deepwater Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 5 km** | *PCT 80* | threatened | large and/or connected | moderate | HCV |

weeds observed

African lovegrass, African boxthorn, Scotch thistle and Silverleaf nightshade

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## East Brushwood Road

| Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|
| threatened | moderate | high | HCV |

**from 0 km to 6 km** *PCT 75*

weeds observed

St John's wort and Silverleaf nightshade

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## East Millwood Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 13 km** | *PCT 267* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: African lovegrass, Horehound, Olive, Silverleaf nightshade and St John's wort

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## East Tooyal Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 2.5 km** | *PCT 277* | threatened | moderate | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Horehound

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Emu Plains Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 3.5 km to 9.25 km** | *PCT 277* | threatened | moderate | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **passive management** | start | | who | |
| | | | completed | | $ | |
| proposed | | **enhance habitat for Superb Parrot** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Federation Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from .5 km to 2 km** | *PCT 267* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort and Horehound

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Flanagans Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 3 km** | *PCT 80* | threatened | moderate | low | **MCV*** |

weeds observed

African boxthorn, Horehound and Silverleaf nightshade

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Flowerdale Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 5.5 km** | *PCT 277* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Schinus and Almond

weed density: *significant*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Galore Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 7 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

African boxthorn, Horehound and Scotch thistle

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **regenerate understory** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Ganmurra Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 9 km** | *PCT 74* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Scotch thistle, St John's wort and Spiny burrgrass

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Gap Hall-Coolamon Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 4 km to 7 km** | *PCT 277* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Horehound and Scotch thistle

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Gelston Park Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 4.5 km to 5 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **avoid spraying sensitive understory** | start | | who | values tba |
| | | | completed | | $ | recurrent |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## German Church Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 2 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Nodding thistle

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Gregadoo East Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 8 km to 11 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: African lovegrass and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |
| proposed | | **signage: High Conservation Value reach** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Hancocks Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 5 km** | *PCT 277* | threatened | moderate | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Henty Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 6 km to 12 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Holbrook Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 14.5 km to 23.5 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Coolatai grass and St John's wort

weed density: significant

site managed species:

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 29 km to 35 km** | *PCT 266* | threatened | large and/or connected | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Tree Lucerne and St John's wort

weed density: minor

site managed species:

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |

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| | | | | | |
|---|---|---|---|---|---|
| proposed | **control firewood removal** | start | | who | |
| | | completed | | $ | |
| proposed | **passive management of vegetated areas** | start | | who | |
| | | completed | | $ | |
| proposed | **signage: High Conservation Value reach** | start | | who | |
| | | completed | | $ | |

# Wagga Wagga LGA

## Humula Eight Mile Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 12 km** | *PCT 352* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Aloe sp., Blackberry and St John's wort

weed density: significant

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Humula Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 6 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |
| | *Endangered Ecological Community* | weeds observed | | weed density | |
| | *White Box Yellow Box Blakely's Red Gum Woodland* | St John's wort | | | |
| | | site managed species | | | |

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | | | | |
|---|---|---|---|---|---|
| **from 18.5 km to 20 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |
| | *Endangered Ecological Community* | weeds observed | | weed density | |
| | *White Box Yellow Box Blakely's Red Gum Woodland* | St John's wort and Blackberry | | | *minor* |
| | | site managed species | | | |

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

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# Wagga Wagga LGA

**from 8 km to 12 km**

| threatened | moderate | moderate | MCV |
|---|---|---|---|

weeds observed

Blackberry and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |
| proposed | | **control firewood removal** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Keajura Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 17.5 km to 19.5 km** | *PCT 277* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: *minor*

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 16 km** | *PCT 277* | threatened | large and/or connected | high | **HCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Privet, Scotch thistle and Black locust

weed density: *minor*

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start / completed | who / $ |
| proposed | | **avoid spraying sensitive understory** | start / completed | who / $ |

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# Wagga Wagga LGA

proposed **signage: High Conservation Value reach**

start | who

completed | $

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# Wagga Wagga LGA

## Kendals Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 4 km to 5 km** | *PCT 80* | threatened | moderate | high | HCV |

weeds observed

weed density not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **restrict grazing** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **regenerate understory** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Kings Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 5 km to 13 km** | *PCT 80* | threatened | large and/or connected | moderate | HCV |

weeds observed

Schinus

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Livingstone Gully Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 8 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Blackberry, Nodding thistle and Canary Palm

weed density: not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **restrict grazing** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage [for … ]** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Lockhart Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 19 km** | *PCT 76* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions*

weeds observed: Horehound and St John's wort

weed density: not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Locks Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 4 km** | *PCT 80* | threatened | moderate | high | HCV |

weeds observed

St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Lower Middle Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 13 km** | *PCT 80* | threatened | large and/or connected | high | **HCV** |

weeds observed

African boxthorn

weed density: not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | medium | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | medium | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Lower Tarcutta Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 4 km** | *PCT 277* | threatened | large and/or connected | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: minor

site managed species:

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **signage [for … ]** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Macks Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 3 km to 6 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

Bathurst burr, Schinus, St Barnaby's thistle and St John's wort

weed density: significant

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Mangain Hall Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 3 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

African boxthorn and Silverleaf nightshade

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | **targeted weed control** | start | | who | |
| | | completed | | $ | |

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# Wagga Wagga LGA

## Marrar Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 3 km** | *PCT 277* | threatened | moderate | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Horehound

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Mates Gully Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 11 km** | *PCT 343* | threatened | large and/or connected | moderate | HCV |

weeds observed

Black locust and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Milbrulong Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 2 km** | *PCT 75* | threatened | large and/or connected | moderate | HCV |

weeds observed

Sweet briar, St John's wort and African boxthorn

weed density: not present

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Millwood Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 15 km** | *PCT 267* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

African lovegrass, St John's wort, Scotch thistle and Horehound

weed density: significant

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Mundarlo Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 2.5 km** | *PCT 343* | threatened | large and/or connected | high | HCV |

weeds observed

St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **signage [for … ]** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Mundowy Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 7 km** | *PCT 5* | threatened | moderate | moderate | **MCV** |

weeds observed

St John's wort and Lippia

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **revegetate** | start | who | |
| | | | completed | $ | |
| proposed | | **improve patch connectivity** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## O'briens Creek Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 3.5 km to 6 km** | *PCT 343* | threatened | large and/or connected | high | HCV |

weeds observed

Scotch thistle

weed density: not present

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **passive management** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 6 km to 12.5 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Weeping Willow, St John's wort and Scotch thistle

weed density: significant

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **regenerate understory** | start / completed | who / $ |

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# Wagga Wagga LGA

proposed **signage: High Conservation Value reach**

start | who

completed | $

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# Wagga Wagga LGA

## O'sheas Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 3 km** | *PCT 5* | threatened | large and/or connected | moderate | HCV |

weeds observed

Phoenix Palm

weed density: significant

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Oberne-Umbango Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 5 km** | *PCT 347* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: significant

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Old Narrandera Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 21 km to 49 km** | *PCT 80* | threatened | large and/or connected | high | **HCV** |

weeds observed: African boxthorn, African lovegrass, Scotch thistle, Silverleaf nightshade and Spiny burrgrass

weed density: *minor*

site managed species:

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 28 km to 49 km** | *PCT 80* | threatened | large and/or connected | high | **HCV** |

weeds observed: African boxthorn, Silverleaf nightshade and St John's wort

weed density: *minor*

site managed species:

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |

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| | | | | | |
|---|---|---|---|---|---|
| proposed | **signage: High Conservation Value reach** | start | | who | |
| | | completed | | $ | |

**from 3 km to 6 km** *PCT 267*

threatened | large and/or connected | moderate | HCV

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort and Silverleaf nightshade

weed density: *minor*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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**from 8 km to 19 km** | *PCT 276* | threatened | large and/or connected | moderate | HCV

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort, Horehound and African lovegrass

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Olympic Highway

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 4 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

weed density: not present

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **control firewood removal** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 27 km to 36 km** | *PCT 277* | threatened | large and/or connected | moderate | **HCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort, Horehound and African boxthorn

weed density: minor

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

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| from 1 km to 11 km | PCT 796 | threatened | large and/or connected | low | MCV* |
|---|---|---|---|---|---|

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

African boxthorn, Serrated tussock, Spiny burrgrass, Horehound and St John's wort

weed density: *significant*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Pattersons Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 12 km to 15.5 km** | *PCT 276* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Spiny burrgrass and St John's wort

weed density: *minor*

site managed species:

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Peppermint Drive

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 3 km to 6 km** | *PCT 266* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Pipers Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 7 km to 9 km** | *PCT 80* | threatened | moderate | high | HCV |

weeds observed

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Pipers Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 4 km to 7 km** | *PCT 75* | threatened | moderate | moderate | **MCV** |

weeds observed

African boxthorn, Silverleaf nightshade, St John's wort and Sweet briar

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Plumpton Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 5 km** | *PCT 277* | threatened | large and/or connected | moderate | **HCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Tree Lucerne and Schinus sp.

weed density: *not present*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **passive management** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Poiles Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 8 km** | *PCT 277* | threatened | moderate | low | **MCV*** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Horehound and St John's wort

weed density: *significant*

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Prices Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1.5 km to 3 km** | *PCT 277* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Olive and Schinus

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Pulletop Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 5 km to 12 km** | *PCT 266* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Blackberry and Nodding thistle

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Rands Tank Road

| | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|
| *PCT 80* | threatened | large and/or connected | high | HCV |

weeds observed

African boxthorn, St John's wort and Scotch thistle

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## River Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 8 km to 13 km** | *PCT 5* | threatened | large and/or connected | moderate | HCV |

weeds observed

Horehound, St John's wort and St Barnaby's thistle

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **restrict grazing** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Robinsons Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 4 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

African lovegrass and Horehound

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Rohans Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 11 km** | *PCT 80* | threatened | large and/or connected | moderate | **HCV** |

weeds observed

Sweet briar, Horehound and St John's wort

weed density: not present

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **signage: High Conservation Value reach** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Roping Pole Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 5 km to 13 km** | *PCT 75* | threatened | moderate | moderate | **MCV** |

weeds observed

African boxthorn and Silverleaf nightshade

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | **targeted weed control** | start | | who | |
| | | completed | | $ | |

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# Wagga Wagga LGA

## Stolls Lane

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 5 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Horehound

weed density

not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## Sturt Highway

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 12 km to 17 km** | *PCT 266* | threatened | large and/or connected | low | **MCV*** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: African lovegrass

weed density: *minor*

site managed species:

| action status | action priority | | |
|---|---|---|---|
| proposed | | **avoid spraying sensitive understory** | start: who: completed: $: |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 31 km to 35 km** | *PCT 277* | threatened | large and/or connected | moderate | **HCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort, Black locust, Scotch thistle and African lovegrass

weed density: *significant*

site managed species:

| action status | action priority | | |
|---|---|---|---|
| proposed | | **signage: High Conservation Value reach** | start: who: completed: $: |

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# Wagga Wagga LGA

**from 41 km to 72 km** | *PCT 76* | threatened | large and/or connected | moderate | HCV

*Endangered Ecological Community*

*Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions*

weeds observed: African lovegrass, Horehound, St John's wort and Scotch thistle

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

**from 75 km to 89 km** | *PCT 267* | threatened | large and/or connected | moderate | HCV

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Horehound and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

**from 89 km to 92 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: African lovegrass, St John's wort, Horehound and Cotoneaster

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

**from 9.5 km to 11 km** | *PCT 276* | threatened | large and/or connected | low | MCV*

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Black locust, Privet, Blackberry and St John's wort

weed density: *significant*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## The Gap Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 1 km** | *PCT 75* | threatened | large and/or connected | high | HCV |

weeds observed: St John's wort and Horehound

weed density: minor

site managed species:

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 15 km to 22 km** | *PCT 267* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Horehound, African lovegrass and Almond

weed density: significant

site managed species:

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |

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# Wagga Wagga LGA

proposed **signage: High Conservation Value reach**

start | who

completed | $

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# Wagga Wagga LGA

## The Rock Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 15 km** | *PCT 80* | threatened | large and/or connected | moderate | **HCV** |

weeds observed

Horehound and African boxthorn

weed density: not present

site managed species

| action status | action priority | | | | | |
|---|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who | |
| | | | completed | | $ | |
| proposed | | **signage: High Conservation Value reach** | start | | who | |
| | | | completed | | $ | |

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# Wagga Wagga LGA

## The Rock-Collingullie Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 11 km** | *PCT 80* | threatened | large and/or connected | moderate | HCV |

weeds observed

Schinus, Olive and Pinus

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Thirteen Mile Road

| Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|
| common | moderate | moderate | LCV |

weeds observed

weed density

site managed species

action status: proposed

action priority

start

who

completed

$

capital

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# Wagga Wagga LGA

## Tooyal Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 16 km** | *PCT 277* | threatened | large and/or connected | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Horehound, Silverleaf nightshade, St John's wort and African lovegrass

weed density: *minor*

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **revegetate** | start / who | |
| | | *[between km 9 and km 12]* | completed / $ | |
| proposed | | **signage: High Conservation Value reach** | start / who | |
| | | | completed / $ | |

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# Wagga Wagga LGA

## Trahairs Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1.5 km to 2.5 km** | *PCT 277* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Black locust, St John's wort, Silverleaf nightshade and Horehound

weed density: *significant*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Trewalla Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from .5 km to 3 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed

Horehound

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Tumbarumba Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 11 km** | *PCT 268* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: African lovegrass, Blackberry, St John's wort and Scotch thistle

weed density: significant

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |
| proposed | | **signage: High Conservation Value reach** | start / completed | who / $ |

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 12 km to 35 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort, Poplar sp. and Scotch thistle

weed density: minor

site managed species

| action status | action priority | | | |
|---|---|---|---|---|
| proposed | | **targeted weed control** | start / completed | who / $ |

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| | | | | | |
|---|---|---|---|---|---|
| proposed | **signage [for … ]** | start | | who | |
| | | completed | | $ | |
| proposed | **signage: High Conservation Value reach** | start | | who | |
| | | completed | | $ | |


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# Wagga Wagga LGA

## Twelve Mile Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 5 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

White Heliotrope

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Uranquinty Cross Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 2 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

Schinus sp.

weed density: significant

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **regenerate understory** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Vonarx Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 1.5 km** | *PCT 267* | threatened | moderate | moderate | **MCV** |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Horehound

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | | who |
| | | | completed | | $ |

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# Wagga Wagga LGA

## Warren Church Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 14 km** | *PCT 75* | threatened | moderate | high | HCV |

weeds observed

African boxthorn, Scotch thistle, Horehound and African lovegrass

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Westbrook Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 25 km to 37.5 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Blackberry, St John's wort and Black willow

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **revegetate** | start | who | |
| | | | completed | $ | |
| proposed | | **improve patch connectivity** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Westby Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 2 km to 11 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: Blackberry, Black locust and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **remove rubbish** | start | who | |
| | | | completed | $ | |
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Wokolena Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 0 km to 3 km** | *PCT 266* | threatened | large and/or connected | high | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: African lovegrass, Horehound and St John's wort

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Yarragundry Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 2 km** | *PCT 80* | threatened | moderate | moderate | **MCV** |

weeds observed

Schinus, Tree Lucerne, St John's wort and Olive

weed density: *minor*

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control [of … ]** | start | who | |
| | | | completed | $ | |
| proposed | | **control firewood removal** | start | who | |
| | | | completed | $ | |

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# Wagga Wagga LGA

## Yerong Creek-Mangoplah Road

| | | Part A conservation status | Part B landscape context | Part C vegetation condition | Conserv'n Value |
|---|---|---|---|---|---|
| **from 1 km to 7 km** | *PCT 277* | threatened | large and/or connected | moderate | HCV |

*Endangered Ecological Community*

*White Box Yellow Box Blakely's Red Gum Woodland*

weeds observed: St John's wort and Sweet briar

weed density: minor

site managed species

| action status | action priority | | | | |
|---|---|---|---|---|---|
| proposed | | **targeted weed control** | start | who | |
| | | | completed | $ | |
| proposed | | **signage: High Conservation Value reach** | start | who | |
| | | | completed | $ | |

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CTENVIRONMENTAL
ECOSYSTEM MANAGEMENT AND MONITORING

23 Marns Road
Wagga Wagga NSW 2650

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# Wagga Wagga LGA - Alexanders Road Reach 0-4

HCV




-34.942567
147.079103




-34.937470
147.036086

CTENVIRONMENTAL

Carl

21 Dec 2017

1:25 pm

significant disturbance

score 29 t m h HCV

connectivity

fire access

field notes

*Good patch. Few weeds*

# Wagga Wagga LGA - Alexanders Road Reach 0-4

HCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Alexanders Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Scotch thistle and St John's wort

## landscape context

**moderate** **12**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Alexanders Road) and less than 1 hectare on the offside of the zone (north of Alexanders Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Alexanders Road Reach 0-4

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Desmodium*** | ***spp.*** | Tick-trefoil | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |







CTENVIRONMENTAL

Carl

28 Feb 2018

2:03 pm

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **36** t l l * **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 5 kilometres along Arajoel Road and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 53 Shallow freshwater wetland sedgeland in depressions on floodplains on inland alluvial plains and floodplains. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10065). The RAM conservation status is 'threatened'.

## weeds present

Schinus

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Arajoel Road) and more than 5 hectares on the offside of the zone (east of Arajoel Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**low** **5**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is patches only. The RAM vegetation condition is 'low' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | abundant |
| rocky outcrops | not present |
| waterway bank habitat | abundant |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Pasture grass dominates many areas

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***pendula*** | Weeping Myall, Boree | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Muehlenbeckia*** | ***cunninghamii*** | Lignum | middle |
| ***Austrostipa*** | ***aristiglumis*** | Plains Grass | lower |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.057103
146.997637




-35.057103
146.997637

CTENVIRONMENTAL

David

2 Oct 2018

12:35 pm

significant disturbance

score 19 t m m MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Arajoel Road (southern 7km) and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 53 Shallow freshwater wetland sedgeland in depressions on floodplains on inland alluvial plains and floodplains. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10065). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**moderate** **10**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Arajoel Road (southern 7km)) and less than 1 hectare on the offside of the zone (east of Arajoel Road (southern 7km)) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are absent. Groundcover weediness is common in parts and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Acacia*** | ***pendula*** | Weeping Myall, Boree | |
| ***Acacia*** | ***sp*** | | |
| ***Callitris*** | ***albens*** | | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |




-34.717237
150.059053

add notes for this photo (optional)




-34.718975
150.075592

add notes for this photo (optiional)

CTENVIRONMENTAL

CTENVIRONMENTAL

6 Feb 2018

6:51 pm

| significant disturbance | *see 'other disturbance'* |
|---|---|

score **28** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*Disturbance event evident due to thick canopy regen.*

# Wagga Wagga LGA - Atherton Crescent Reach 1-6

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5 kilometres along Atherton Crescent and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Murray Channels and Floodplains Mitchell landscape, which is 56% cleared in NSW. The PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Bathurst Burr

## landscape context

**moderate** **18**

The assessment zone traverses the Murray Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Atherton Crescent) and 2 hectares on the offside of the zone (north of Atherton Crescent) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Dumping
Car bodies

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |







CTENVIRONMENTAL

CTENVIRONMENTAL

20 Dec 2017

1:15 pm

significant disturbance

score 32 t m m MCV

connectivity

fire access

field notes

*Recent storms have resulted in numerous large trees falling and limbs dropping*

# Wagga Wagga LGA - Bartletts Road Reach 1-4

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Bartletts Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Silverleaf nightshade

## landscape context

**moderate** **20**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Bartletts Road) and less than 1 hectare on the offside of the zone (north of Bartletts Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | common |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Senna*** | ***nemophila*** | | middle |
| ***Alternanthera*** | ***angustifolia*** | | lower |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.300350
147.441283




-35.247397
147.456847

CTENVIRONMENTAL

Carl

9 Feb 2018

9:16 am

significant disturbance **yes**

score **32** t m m **MCV**

connectivity

fire access

field notes

# Wagga Wagga LGA - Big Springs Road Reach 0-7

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 7 kilometres along Big Springs Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 268 White Box - Blakely's Red Gum - Long-leaved Box - Nortons Box - Red Stringybark grass-shrub woodland on shallow soils on hills in the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Nodding thistle and African lovegrass

## landscape context

**moderate** **17**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Big Springs Road) and 1 hectare on the offside of the zone (east of Big Springs Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | significant |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***goniocalyx*** | Bundy | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***rossii*** | Inland Scribbly Gum | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Aira*** | ***spp.*** | Hairgrass | lower |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |







CTENVIRONMENTAL

CTENVIRONMENTAL

21 Dec 2017

10:33 am

| | |
|---|---|
| significant disturbance | *yes* |

score **27** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

# Wagga Wagga LGA - Boundary Road Reach 0-9.5

HCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 9.5 kilometres along Boundary Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Silverleaf nightshade, Horehound and Privet

## landscape context

**moderate** **10**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Boundary Road) and more than 5 hectares on the offside of the zone (north of Boundary Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Boundary Road Reach 0-9.5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Bursaria*** | ***spinosa*** | Native Blackthorn | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Dodonaea*** | ***cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Mentha*** | ***satureioides*** | Native Pennyroyal | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |




-35.333880
147.539903




-35.362850
147.517533

CTENVIRONMENTAL

Carl

26 Jan 2018

11:15 am

significant disturbance **yes**

score **26** t m m **MCV**

connectivity

fire access

field notes

# Wagga Wagga LGA - Brooklyn Lane Reach 2-6

MCV

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 4 kilometres along Brooklyn Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**moderate** **15**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Brooklyn Lane) and 4 hectares on the offside of the zone (west of Brooklyn Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | common |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Shoulder recently graded

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |




-35.045342
147.366883




-35.043367
147.350708

CTENVIRONMENTAL

Carl

28 Feb 2018

7:56 am

| significant disturbance | yes |
|---|---|

score **23** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*Understory revegetation apparent*

# Wagga Wagga LGA - Brunskills Road Reach 0-1.5

MCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1.5 kilometres along Brunskills Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Schinus, Ground asparagus and Olive

## landscape context

**moderate** **10**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Brunskills Road) and less than 1 hectare on the offside of the zone (east of Brunskills Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Brunskills Road Reach 0-1.5

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Grading into vegetated zone
Dumping

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Bursaria*** | ***spinosa*** | Native Blackthorn | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |




-34.856412
147.087464




-35.009900
147.066330

CTENVIRONMENTAL

CTENVIRONMENTAL

20 Dec 2017

4:26 pm

significant disturbance **yes**

score **36** t m h **HCV**

connectivity

fire access

field notes

*Olives and palm trees present. Over 30 Superb Parrots counted. Assessment traversed two over-cleared Mitchell*

# Wagga Wagga LGA - Brushwood Road Reach 1-18

HCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 17 kilometres along Brushwood Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Silverleaf nightshade, African boxthorn and Spiny burrgrass

## landscape context

**moderate** **20**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Brushwood Road) and 5 hectares on the offside of the zone (east of Brushwood Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | common |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Grading in shoulder. Fencing materials dumped

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Cassinia*** | ***aculeata*** | Dolly Bush | middle |
| ***Dodonaea*** | ***cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |




-35.057267
147.023497




-35.091197
147.040803

CTENVIRONMENTAL

Carl

28 Feb 2018

3:42 pm

significant disturbance **yes**

score **35** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Bunyons Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Bunyons Road) and more than 5 hectares on the offside of the zone (west of Bunyons Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Atriplex*** | ***semibaccata*** | Creeping Saltbush | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Maireana*** | ***microphylla*** | Small-leaf Bluebush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

Carl

15 Mar 2018

11:59 am

significant disturbance **yes**

score **29** t m m MCV

connectivity

fire access

field notes

# Wagga Wagga LGA - Burkes Creek Road Reach 0-7

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 7 kilometres along Burkes Creek Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Tree Lucerne and Almonds

## landscape context

**moderate** **20**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Burkes Creek Road) and 3 hectares on the offside of the zone (east of Burkes Creek Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Burkes Creek Road Reach 0-7

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Glycine*** | ***tabacina*** | Variable Glycine | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***Corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

Carl

9 Feb 2018

1:16 pm

significant disturbance **yes**

score **42** t l m **HCV**

connectivity

fire access

field notes

*Long stretches of pasture grass dominated communities interspersed between native vegetation*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 14 kilometres along Burrandana Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Nodding thistle and Horehound

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Burrandana Road) and more than 5 hectares on the offside of the zone (north of Burrandana Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |







CTENVIRONMENTAL

Carl

11 Dec 2017

1:43 pm

| significant disturbance | yes |
|---|---|

score **25** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*PCT 79 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2.5 kilometres along Burrandana Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St Barnaby's Thistle

## landscape context

**moderate** **12**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north-east of Burrandana Road) and less than 1 hectare on the offside of the zone (south-west of Burrandana Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | common |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Prunus spp. present

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

Nakia/ Bruce

18 Dec 2017

3:31 pm

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **43** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*PCT 45 also present.*
*Disused railway*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 8 kilometres along Camerons Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 76 Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Horehound

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Camerons Road) and more than 5 hectares on the offside of the zone (east of Camerons Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | sparse |
| logs and fallen timber | common |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Schinus spp. on verge. Large Aloe type succulent (see image)

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Bursaria*** | ***spinosa*** | Native Blackthorn | middle |
| ***Callitris*** | ***spp.*** | | middle |
| ***Austrostipa*** | ***spp.*** | Speargrass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Eragrostis*** | ***brownii*** | Brown's Lovegrass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |




-35.491250
147.750672




-35.538158
147.737412

CTENVIRONMENTAL

Carl

24 Jan 2018

1:01 pm

| significant disturbance | yes |
|---|---|

score 38 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

*Firewood removal*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Carabost Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Blackberry, Weeping Willow, Poplar sp., St John's wort and Black locust

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Carabost Road) and more than 5 hectares on the offside of the zone (west of Carabost Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

other

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***bridgesiana*** | Apple Box | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Goodenia*** | ***hederacea*** | Ivy Goodenia | lower |
| ***Styphelia*** | ***triflora*** | Pink Five-Corners | lower |
| ***Themeda*** | ***australis*** | | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |

# Wagga Wagga LGA - Casleys Lane Reach 0-2

HCV




-34.930758
147.273712




-34.952117
147.269608

CTENVIRONMENTAL

Carl

19 Dec 2017

3:25 pm

significant disturbance

score 27 t m h HCV

connectivity

fire access

field notes

# Wagga Wagga LGA - Casleys Lane Reach 0-2

**HCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2 kilometres along Casleys Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**moderate** **10**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Casleys Lane) and less than 1 hectare on the offside of the zone (west of Casleys Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Casleys Lane Reach 0-2

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |







CTENVIRONMENTAL

CTENVIRONMENTAL

28 Feb 2018

1:19 pm

significant disturbance **yes**

score **37** t l m HCV

connectivity

fire access

field notes

*Firewood removal*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1.5 kilometres along Central Island Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Murrumbidgee - Tarcutta Source-bordering Dunes Mitchell landscape, which is 97% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Source-bordering Dunes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Central Island Road) and more than 5 hectares on the offside of the zone (north of Central Island Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | common |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Desmodium*** | ***varians*** | Slender Tick-trefoil | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

Carl

28 Feb 2018

12:56 pm

| significant disturbance | yes |
|---|---|

score 46 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **4**

The roadside assessment zone extends approx 3 kilometres along Central Island Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 5 River Red Gum herbaceous-grassy very tall open forest wetland on inner floodplains in the lower slopes sub-region of the NSW South Western Slopes Bioregion and the eastern Riverina Bioregion.. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

White Heliotrope and Scotch thistle

## landscape context

**large and/or connected** **30**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is > 100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Central Island Road) and more than 5 hectares on the offside of the zone (south of Central Island Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | abundant |
| rocky outcrops | not present |
| waterway bank habitat | abundant |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

SEPP 14

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.372963
147.458755




-35.473458
147.486480

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

David

10 Sep 2018

11:58 am

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **23** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Drought conditions.*

# Wagga Wagga LGA - Cheviot Hills Reach 0-12

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx 12 kilometres along Cheviot Hills and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 290 Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

## landscape context

moderate 12

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Cheviot Hills) and less than 1 hectare on the offside of the zone (west of Cheviot Hills) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 9

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | minor |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | minor |

Not evident.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Acacia*** | ***sp.*** | | |
| ***Eucalyptus*** | ***dwyeri*** | Dwyer's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |




-35.326387
147.431887




-35.355655
147.451583

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl

10 Dec 2017

3:07 pm

significant disturbance **yes**

score **40** t l m **HCV**

connectivity

fire access

field notes

*Large reserves on southern side of road contain good canopy vegetation. No understory throughout*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Compton Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee Channels and Floodplains Mitchell landscape, which is 55% cleared in NSW. The PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Blackberry

## landscape context

**large and/or connected** **27**

The assessment zone traverses the Murrumbidgee Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north-west of Compton Road) and more than 5 hectares on the offside of the zone (south of Compton Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Compton Road Reach 1-5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | significant |
| invasive weeds | significant |
| flood or fire damage | not present |

Bank erosion may threatened road in future

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***bridgesiana*** | Apple Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Microlaena*** | ***stipoides*** | Weeping Grass | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |







CTENVIRONMENTAL

Carl

11 Dec 2017

12:59 pm

| | |
|---|---|
| significant disturbance | yes |

score **31** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*PCT 267 and 426 also present Groundcover dominated by annual pasture grass*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2.5 kilometres along Cookardinia Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Nodding thistle and St John's wort

## landscape context

**moderate** **15**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Cookardinia Road) and less than 1 hectare on the offside of the zone (south of Cookardinia Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***rossii*** | Inland Scribbly Gum | upper |
| ***Acacia*** | ***lanigera*** | Woolly Wattle | middle |
| ***Acacia*** | ***vestita*** | Weeping Boree | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Chrysocephalum*** | ***apiculatum*** | Common Everlasting | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |







CTENVIRONMENTAL

Carl

19 Dec 2017

1:24 pm

significant disturbance **yes**

score **47** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Coolamon Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Blue heliotrope and Johnson grass

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Coolamon Road) and more than 5 hectares on the offside of the zone (north of Coolamon Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Coolamon Road Reach 1-7

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Bromus*** | ***spp.*** | Brome | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

Carl

19 Dec 2017

2:24 pm

significant disturbance **yes**

score **44** t l h **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 8 kilometres along Coolamon Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Horehound and St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south-west of Coolamon Road) and more than 5 hectares on the offside of the zone (north-east of Coolamon Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |







CTENVIRONMENTAL

Carl

19 Dec 2017

1:56 pm

significant disturbance **yes**

score **49** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Coolamon Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Nodding thistle, St John's wort, African boxthorn and Silverleaf nightshade

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Coolamon Road) and more than 5 hectares on the offside of the zone (north of Coolamon Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Dumping

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Pseudognaphalium*** | ***luteoalbum*** | Jersey Cudweed | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |
| ***Xerochrysum*** | ***viscosum*** | Sticky Everlasting | lower |




-35.207542
147.631683




-35.223197
147.668533

CTENVIRONMENTAL

Carl

22 Jan 2018

3:15 pm

| | |
|---|---|
| significant disturbance | *yes* |

score **44** (t / l / h) **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Coreinbob Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Coreinbob Road) and 5 hectares on the offside of the zone (east of Coreinbob Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is intact/natural, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | common |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Large number of fruit trees

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |

# Wagga Wagga LGA - Cottee Road Reach 0-18

HCV




-35.019756
147.101364




-34.892128
147.168687

CTENVIRONMENTAL

CTENVIRONMENTAL

21 Dec 2017

11:58 am

significant disturbance **yes**

score **37** t l m **HCV**

connectivity

fire access

field notes

*Solanum spp. abundant.*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 18 kilometres along Cottee Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

Serrated tussock, St John's wort and Scotch thistle

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Cottee Road) and more than 5 hectares on the offside of the zone (east of Cottee Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Cottee Road Reach 0-18

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Cacti

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Alternanthera*** | ***spp.*** | Joyweed | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |




-34.993783
147.369445




-34.952838
147.377320

CTENVIRONMENTAL

David

24 Sep 2018

2:26 pm

significant disturbance

score 19 t m m MCV

connectivity

fire access

field notes

*Drought conditions*

# Wagga Wagga LGA - Coursing Park Road Site

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx kilometres along Coursing Park Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Fruit trees, peppercorn, tree lucerne

## landscape context

moderate 10

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Coursing Park Road) and less than 1 hectare on the offside of the zone (east of Coursing Park Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 7

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Coursing Park Road Site

**MCV**

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | common |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | minor |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | |
| ***Eucalyptus*** | ***brachybotrya*** | | |
| ***Eucalyptus*** | ***glaucophylla*** | | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | middle |

# Wagga Wagga LGA - Creasys Road Reach 0-1

HCV




-35.387930
147.256880




-35.389462
147.270417

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl

11 Dec 2017

10:29 am

| significant disturbance | yes |
|---|---|

score **42** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*Understory absent. Ground cover dominated by annual pasture grasses.*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1 kilometres along Creasys Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 76 Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Creasys Road) and more than 5 hectares on the offside of the zone (south of Creasys Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Creasys Road Reach 0-1

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Austrostipa*** | ***densiflora*** | Foxtail Speargrass | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |







CTENVIRONMENTAL

Carl

20 Dec 2017

12:58 pm

significant disturbance

score 45 t l m HCV

connectivity

fire access

field notes

*Eastern side assessed. Western side cleared.*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Deepwater Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, African boxthorn, Scotch thistle and Silverleaf nightshade

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Deepwater Road) and less than 1 hectare on the offside of the zone (west of Deepwater Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Deepwater Road Reach 1-5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | abundant |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Cassia*** | ***spp.*** | | middle |
| ***Aristida*** | ***behriana*** | Bunch Wiregrass | lower |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

David

25 Sep 2018

10:59 am

significant disturbance

score 28 t m m MCV

connectivity

fire access

field notes

*Peppercorn trees present*

# Wagga Wagga LGA - Dennis Crossing Road Site

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx kilometres along Dennis Crossing Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Peppercorn trees

## landscape context

moderate 17

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Dennis Crossing Road) and less than 1 hectare on the offside of the zone (north of Dennis Crossing Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 9

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Acacia*** | | | |
| ***Brachychiton*** | ***populneus*** | Kurrajong | |
| ***Dianella*** | ***revoluta*** | Blueberry Lily | |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |




-34.965563
147.345520




-34.969322
147.374283

CTENVIRONMENTAL

David

25 Sep 2018

10:23 am

significant disturbance

score 21 t m m MCV

connectivity

fire access

field notes

*Fruit trees present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Donohoes Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

**moderate** **12**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Donohoes Road) and less than 1 hectare on the offside of the zone (north of Donohoes Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | common |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Brachychiton*** | ***populneus*** | Kurrajong | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***sp*** | | middle |
| ***Dianella*** | ***revoluta*** | Blueberry Lily | lower |




-35.002228
147.420563




-34.991287
147.347655

CTENVIRONMENTAL

David

24 Sep 2018

1:52 pm

significant disturbance

score 19 t m m MCV

connectivity

fire access

field notes

*Drought conditions*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Downside to Shepherds Siding Road and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

None

## landscape context

**moderate** **10**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Downside to Shepherds Siding Road) and less than 1 hectare on the offside of the zone (north of Downside to Shepherds Siding Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| | | | |
| | | | |
| | | | |

# Wagga Wagga LGA - Dunnings Road Site

MCV




-34.971478
147.439637




-35.016108
147.417555

CTENVIRONMENTAL

David

24 Sep 2018

1:01 pm

| | |
|---|---|
| significant disturbance | *yes* |

score **19** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Two standing dead tree provide habitat for native animals.*

# Wagga Wagga LGA - Dunnings Road Site

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Dunnings Road and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Pepper trees and tree lucerne

## landscape context

**moderate** **10**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Dunnings Road) and less than 1 hectare on the offside of the zone (west of Dunnings Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | significant |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Nil

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Brachychiton*** | ***populneus*** | Kurrajong | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |




-34.880867
147.089889




-34.942470
147.079253

CTENVIRONMENTAL

CTENVIRONMENTAL

21 Dec 2017

1:17 pm

significant disturbance

score 28 t m h HCV

connectivity

fire access

field notes

*Almond trees prolific on hill top*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along East Brushwood Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Silverleaf nightshade

## landscape context

**moderate** **12**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of East Brushwood Road) and less than 1 hectare on the offside of the zone (east of East Brushwood Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Calotis*** | ***cuneifolia*** | Purple Burr-Daisy | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |




-34.921413
147.175903




-35.041742
147.158492

*Includes Colonels Road*

CTENVIRONMENTAL

Carl

28 Feb 2018

9:51 am

significant disturbance **yes**

score **34** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 13 kilometres along East Millwood Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, Horehound, Olive, Silverleaf nightshade and St John's wort

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of East Millwood Road) and more than 5 hectares on the offside of the zone (east of East Millwood Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Calotis*** | ***cuneifolia*** | Purple Burr-Daisy | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |







CTENVIRONMENTAL

CTENVIRONMENTAL

19 Dec 2017

4:21 pm

significant disturbance: *see 'other disturbance'*

score 28 t m h HCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2.5 kilometres along East Tooyal Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

**moderate** **10**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of East Tooyal Road) and less than 1 hectare on the offside of the zone (east of East Tooyal Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **16**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | abundant |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

Recent storm damage

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Bromus*** | ***spp.*** | Brome | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |




-35.163647
147.453675




-35.238880
147.445342

CTENVIRONMENTAL

David

25 Sep 2018

1:40 pm

significant disturbance

score 19 t m m MCV

connectivity

fire access

field notes

# Wagga Wagga LGA - Elizabeth Avenue Site

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Elizabeth Avenue and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 0 . The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Broad leaf weeds

## landscape context

**moderate** **10**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Elizabeth Avenue) and less than 1 hectare on the offside of the zone (east of Elizabeth Avenue) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Acacia*** | ***sp.*** | | |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | |




-35.498683
147.313033




-35.451050
147.339722

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl

11 Dec 2017

12:09 pm

significant disturbance **yes**

score **38** t m h HCV

connectivity

fire access

field notes

*PCT 426 and 266 also present Approximately 20 Superb Parrots observed*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5.75 kilometres along Emu Plains Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**moderate** **20**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north-west of Emu Plains Road) and more than 5 hectares on the offside of the zone (north-east of Emu Plains Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **16**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is diverse throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Emu Plains Road Reach 3.5-9.25

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***rossii*** | Inland Scribbly Gum | upper |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***lanigera*** | Woolly Wattle | middle |
| ***Acacia*** | ***lineata*** | Streaked Wattle | middle |
| ***Bursaria*** | ***spinosa*** | Native Blackthorn | middle |
| ***Melichrus*** | ***urceolatus*** | Urn Heath | middle |
| ***Xanthorrhoea*** | ***spp.*** | | middle |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |




-35.008306
147.387650




-35.007228
147.356020

CTENVIRONMENTAL

Carl

19 Dec 2017

11:57 am

significant disturbance **yes**

score **21** t m m **MCV**

connectivity

fire access

field notes

*PCT 75 also present*

# Wagga Wagga LGA - Federation Road Reach .5-2

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1.5 kilometres along Federation Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Horehound

## landscape context

**moderate** **12**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Federation Road) and less than 1 hectare on the offside of the zone (north of Federation Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Federation Road Reach .5-2

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Slashing

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***spp.*** | | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |




-34.960822
147.321320




-34.954853
147.274187

CTENVIRONMENTAL

Carl

28 Feb 2018

9:17 am

| | |
|---|---|
| significant disturbance | *yes* |

score **23** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

# Wagga Wagga LGA - Flowerdale Road Reach 0-5.5

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx 5.5 kilometres along Flowerdale Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Schinus and Almond

## landscape context

moderate 12

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Flowerdale Road) and less than 1 hectare on the offside of the zone (east of Flowerdale Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 9

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Flowerdale Road Reach 0-5.5

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Cynodon*** | ***dactylon*** | Common Couch | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-34.997842
146.809708




-35.061355
146.798003

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl/Nakia

18 Dec 2017

11:17 am

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **26** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Schinus sp on road verge PCT 250,26 understory abundant in PCT 26*

# Wagga Wagga LGA - Galore Road Reach 0-7

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 7 kilometres along Galore Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Horehound and Scotch thistle

## landscape context

**moderate** **12**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Galore Road) and less than 1 hectare on the offside of the zone (west of Galore Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | common |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Illegal dumping

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | upper |
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Acacia*** | ***pendula*** | Weeping Myall, Boree | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Austrostipa*** | ***aristiglumis*** | Plains Grass | lower |
| ***Austrostipa*** | ***aristiglumis*** | Plains Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Sida*** | ***fibulifera*** | Pin Sida | lower |




-35.008586
147.049514




-34.963980
147.002503

CTENVIRONMENTAL

Carl

21 Dec 2017

9:04 am

significant disturbance

score 32 t m m MCV

connectivity

fire access

field notes

*Understory dominated by exotics*

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 8 kilometres along Ganmurra Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 74 Yellow Box - River Red Gum tall grassy riverine woodland of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Scotch thistle, St John's wort and Spiny burrgrass

## landscape context

**moderate** **18**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Ganmurra Road) and more than 5 hectares on the offside of the zone (north of Ganmurra Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | common |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Paspalidium*** | ***constrictum*** | Knottybutt Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |




-34.945270
147.252808




-34.918720
147.253647

CTENVIRONMENTAL

Carl

19 Dec 2017

3:47 pm

significant disturbance

score 24 t m m MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Gap Hall-Coolamon Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound and Scotch thistle

## landscape context

**moderate** **10**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Gap Hall-Coolamon Road) and less than 1 hectare on the offside of the zone (west of Gap Hall-Coolamon Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Glycine*** | ***clandestina*** | Twining glycine | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |

start

km 5

end

km 4.5

CTENVIRONMENTAL

Carl

10 Dec 2017

9:29 am

significant disturbance: *see 'other disturbance'*

score 51 t l m HCV

connectivity

fire access

field notes

*PCT 309 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx .5 kilometres along Gelston Park Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Gelston Park Road) and 5 hectares on the offside of the zone (north of Gelston Park Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are absent and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is diverse throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | sparse |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | not present |
| mistletoe | abundant |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

Dumping occurs. Recently cleaned

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | |
| ***Eucalyptus*** | ***dealbata*** | Tumbledown Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***nortonii*** | Large-flowered Bundy | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Hibbertia*** | ***obtusifolia*** | Hoary Guinea Flower | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Austrostipa*** | ***densiflora*** | Foxtail Speargrass | lower |
| ***Cheilanthes*** | ***sieberi*** | Rock Fern | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

Carl

9 Feb 2018

3:16 pm

| significant disturbance | yes |
|---|---|

score 36 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2 kilometres along German Church Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Nodding thistle

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of German Church Road) and 1 hectare on the offside of the zone (north of German Church Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |




-35.276803
147.521180




-35.250112
147.466522

CTENVIRONMENTAL

Carl

26 Jan 2018

12:22 pm

| | |
|---|---|
| significant disturbance | *yes* |

score **33** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Gregadoo East Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Black willow and African lovegrass

## landscape context

**moderate** **20**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Gregadoo East Road) and more than 5 hectares on the offside of the zone (north of Gregadoo East Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***goniocalyx*** | Bundy | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Casuarina*** | ***cunninghamiana*** | River Oak | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.244838
147.451675




-35.226847
147.420730

CTENVIRONMENTAL

Carl

9 Feb 2018

9:57 am

significant disturbance **yes**

score **42** t l m **HCV**

connectivity

fire access

field notes

*Significant active erosion on both sides of road*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Gregadoo East Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass and St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Gregadoo East Road) and more than 5 hectares on the offside of the zone (north of Gregadoo East Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are sparse and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | abundant |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | significant |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***dwyeri*** | Dwyer's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Austrostipa*** | ***densiflora*** | Foxtail Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-34.993778
147.369417




-34.969170
147.374313

CTENVIRONMENTAL

David

25 Sep 2018

11:44 am

significant disturbance

score 19 t m m MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Hamiltons Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Peppercorn

## landscape context

**moderate** **10**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Hamiltons Road) and less than 1 hectare on the offside of the zone (east of Hamiltons Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | |
| ***Eucalyptus*** | ***albens*** | White Box | |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |







CTENVIRONMENTAL

Carl

22 Jan 2018

9:47 am

significant disturbance **yes**

score **37** t l l * MCV

connectivity

fire access

field notes

# Wagga Wagga LGA - Hammond Avenue Reach 2.5-3

**MCV***

## conservation status

**threatened** **3**

The roadside assessment zone extends approx .5 kilometres along Hammond Avenue and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 5 River Red Gum herbaceous-grassy very tall open forest wetland on inner floodplains in the lower slopes sub-region of the NSW South Western Slopes Bioregion and the eastern Riverina Bioregion.. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Sweet briar and Privet

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Hammond Avenue) and more than 5 hectares on the offside of the zone (north of Hammond Avenue) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**low** **2**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'low' (for this broad vegetation type).

# Wagga Wagga LGA - Hammond Avenue Reach 2.5-3

MCV*

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | not present |
| wetlands, springs, gilgais | common |
| rocky outcrops | not present |
| waterway bank habitat | common |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Roadside reserve mowed

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Juncus*** | ***spp.*** | Rush | lower |

# Wagga Wagga LGA - Hancocks Lane Reach 0-5

HCV




-34.928245
147.198088




-34.935447
147.254638

CTENVIRONMENTAL

Carl

21 Dec 2017

2:33 pm

significant disturbance

score 37 t m h HCV

connectivity

fire access

field notes

*Assessment includes Tooyal School Road*

# Wagga Wagga LGA - Hancocks Lane Reach 0-5

**HCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5 kilometres along Hancocks Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**moderate** **20**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Hancocks Lane) and more than 5 hectares on the offside of the zone (south of Hancocks Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Hancocks Lane Reach 0-5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | minor |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |

# Wagga Wagga LGA - Henty Road Reach 6-12

HCV




-35.365953
147.273483




-35.448392
147.184617

CTENVIRONMENTAL

Carl

9 Feb 2018

2:51 pm

significant disturbance: yes

score 35 t l m HCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Henty Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Henty Road) and 3 hectares on the offside of the zone (north of Henty Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***densiflora*** | Foxtail Speargrass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Lissanthe*** | ***strigosa*** | Peach Heath | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |




-35.455758
147.268708




-35.488888
147.261703

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl

11 Dec 2017

11:18 am

| significant disturbance | yes |
|---|---|

score **32** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*PCT 426 and 268*
*Heavy infestation of E. curvula*

# Wagga Wagga LGA - Holbrook Road 9

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx 9 kilometres along Holbrook Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass and St John's wort

## landscape context

moderate 18

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Holbrook Road) and less than 1 hectare on the offside of the zone (west of Holbrook Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 12

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | minor |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Acacia*** | ***lanigera*** | Woolly Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.304030
147.301575




-35.338580
147.296050

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl

11 Dec 2017

9:30 am

| significant disturbance | yes |
|---|---|

score **43** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*PCT 276 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 9 kilometres along Holbrook Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Coolatai grass and St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Holbrook Road) and 5 hectares on the offside of the zone (south of Holbrook Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | significant |
| invasive weeds | significant |
| flood or fire damage | not present |

Road upgrade disturbing shoulder
Soil stockpiles

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Phragmites*** | ***australis*** | Common Reed | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |







CTENVIRONMENTAL

Carl

15 Mar 2018

10:43 am

| | |
|---|---|
| significant disturbance | *yes* |

score **50** t l h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Holbrook Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Tree Lucerne and St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Holbrook Road) and more than 5 hectares on the offside of the zone (west of Holbrook Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **16**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Holbrook Road Reach 29-35

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***dealbata*** | Tumbledown Red Gum | upper |
| ***Eucalyptus*** | ***dwyeri*** | Dwyer's Red Gum | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***lanigera*** | Woolly Wattle | middle |
| ***brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Pultenaea*** | ***procumbens*** | | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |




-35.412587
147.269775




-35.455770
147.268722

CTENVIRONMENTAL

Carl

11 Dec 2017

10:52 am

| | |
|---|---|
| significant disturbance | *yes* |

score **35** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Schinus spp. present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5 kilometres along Holbrook Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Holbrook Road) and more than 5 hectares on the offside of the zone (south of Holbrook Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |

# Wagga Wagga LGA - Humula Eight Mile Road Reach 0-12

HCV







CTENVIRONMENTAL

Carl

24 Jan 2018

11:46 am

| significant disturbance | yes |
|---|---|

score 40 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 12 kilometres along Humula Eight Mile Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 352 Red Stringybark - Blakely's Red Gum hillslope open forest on meta-sediments in the Yass - Boorowa - Crookwell region of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Aloe sp., Blackberry and St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Humula Eight Mile Road) and less than 1 hectare on the offside of the zone (north of Humula Eight Mile Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Recent shoulder grading and spraying of native regrowth

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

other

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***rossii*** | Inland Scribbly Gum | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Cassinia*** | ***arcuata*** | Sifton Bush | middle |
| ***Exocarpos*** | ***cupressiformis*** | Cherry Ballart | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Poa*** | ***labillardieri*** | Tussock | lower |







CTENVIRONMENTAL

Carl

24 Jan 2018

3:21 pm

significant disturbance **yes**

score **41** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5 kilometres along Humula Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Humula Road) and more than 5 hectares on the offside of the zone (north of Humula Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***buxifolia*** | Box-leaved Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |

# Wagga Wagga LGA - Humula Road Reach 18.5-20

HCV




-35.445028
147.768722




-35.432597
147.770095

CTENVIRONMENTAL

Carl

24 Jan 2018

1:50 pm

| significant disturbance | yes |
|---|---|

score **33** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1.5 kilometres along Humula Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Blackberry

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Humula Road) and less than 1 hectare on the offside of the zone (east of Humula Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | common |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |







CTENVIRONMENTAL

Carl

24 Jan 2018

2:49 pm

significant disturbance **yes**

score **28** t m m **MCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Humula Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%). The Plant Community Type (PCT) is unconfirmed/unidentified. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Blackberry and St John's wort

## landscape context

**moderate** **17**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Humula Road) and 3 hectares on the offside of the zone (east of Humula Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | common |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Typha*** | ***orientalis*** | Broad-leaved Cumbungi | lower |




-35.194930
147.525878




-35.208905
147.537383

CTENVIRONMENTAL

Carl

24 Jan 2018

8:29 am

significant disturbance **yes**

score **21** t m m **MCV**

connectivity

fire access

field notes

*Vegetatation not mapped. Assessed as PCT277*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2 kilometres along Keajura Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**moderate** **12**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Keajura Road) and less than 1 hectare on the offside of the zone (north of Keajura Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Tree lucerne (Chamaecytisus palmensis) prevalent

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Gonocarpus*** | ***elatus*** | Raspwort | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

Carl

24 Jan 2018

9:38 am

| significant disturbance | yes |
|---|---|

score 45 t l h HCV

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 14 kilometres along Keajura Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Privet, Scotch thistle and Black locust

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Keajura Road) and 2 hectares on the offside of the zone (east of Keajura Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

English oak in roadside

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***rossii*** | Inland Scribbly Gum | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***lanigera*** | Woolly Wattle | middle |
| ***Daviesia*** | ***leptophylla*** | | middle |
| ***Dillwynia*** | ***phylicoides*** | Parrot-pea | middle |
| ***Grevillea*** | ***lanigera*** | Woolly Grevillea | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Gonocarpus*** | ***elatus*** | Raspwort | lower |
| ***Hardenbergia*** | ***violacea*** | False Sarsaparilla | lower |




-35.221747
147.177917




-35.214272
147.187562

*Includes hanging rock road 7*

CTENVIRONMENTAL

Carl

15 Mar 2018

2:33 pm

significant disturbance **yes**

score **24** t m h **HCV**

connectivity

fire access

field notes

# Wagga Wagga LGA - Kendals Lane Reach 4-5

HCV

## conservation status

threatened 2

The roadside assessment zone extends approx 1 kilometres along Kendals Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

moderate 8

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Kendals Lane) and less than 1 hectare on the offside of the zone (east of Kendals Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

high 14

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Kendals Lane Reach 4-5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | significant |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Austrostipa*** | ***spp.*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |

# Wagga Wagga LGA - Kings Road Reach 5-13

HCV




-35.091136
146.830842




-35.010833
146.847503

CTENVIRONMENTAL

Carl

28 Feb 2018

2:35 pm

| significant disturbance | yes |
|---|---|

score **36** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 8 kilometres along Kings Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Schinus

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Kings Road) and more than 5 hectares on the offside of the zone (east of Kings Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Ground cover in wet areas dominated by exotics.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Eremophila*** | ***longifolia*** | Emubush | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Desmodium*** | ***varians*** | Slender Tick-trefoil | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Eremophila*** | ***debilis*** | Amulla | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |




-35.254197
147.472488




-35.224670
147.510513

CTENVIRONMENTAL

David

25 Sep 2018

2:27 pm

significant disturbance

score 20 t m m MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Ladysmith - Gregadoo Road and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 0 . The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**moderate** **10**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south-east) of Ladysmith - Gregadoo Road) and less than 1 hectare on the offside of the zone (north-west of Ladysmith - Gregadoo Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are absent. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Acacia*** | ***sp.*** | | |
| ***Eucalyptus*** | ***bridgesiana*** | Apple Box | |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | |
| ***Eucalyptus*** | ***sieberi*** | Silvertop Ash | |




-35.296233
147.469697




-35.357487
147.467300

CTENVIRONMENTAL

Carl

9 Feb 2018

10:48 am

| | |
|---|---|
| significant disturbance | *yes* |

score **38** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Majority of ground over removed by grazing, stock movement and grading*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 7 kilometres along Livingstone Gully Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Blackberry, Nodding thistle and Canary Palm

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Livingstone Gully Road) and more than 5 hectares on the offside of the zone (east of Livingstone Gully Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is sparse or absent, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | significant |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Graded to fence line

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

other

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***goniocalyx*** | Bundy | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Cynodon*** | ***dactylon*** | Common Couch | lower |
| ***Paspalidium*** | ***distans*** | | lower |




-35.258397
147.480270




-35.295672
147.471130

CTENVIRONMENTAL

David

25 Sep 2018

3:01 pm

significant disturbance

score 22 t m m MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Livingstone Gully Road (north part) and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**moderate** **12**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Livingstone Gully Road (north part)) and less than 1 hectare on the offside of the zone (east of Livingstone Gully Road (north part)) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are absent. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | |
| ***Eucalyptus*** | ***bridgesiana*** | Apple Box | |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | |

# Wagga Wagga LGA - Lockhart Road Reach 1-19

HCV




-35.171392
146.894272




-35.090989
147.118483

CTENVIRONMENTAL

Nakia/ Bruce

18 Dec 2017

2:52 pm

| | |
|---|---|
| significant disturbance | *yes* |

score **51** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*PCT 80,45,250*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 18 kilometres along Lockhart Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 76 Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072). The RAM conservation status is 'threatened'.

## weeds present

Horehound and St John's wort

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Lockhart Road) and 5 hectares on the offside of the zone (east of Lockhart Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Lockhart Road Reach 1-19

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | common |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | common |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Stockpile
Prickly Pear and Schinus spp.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Callitris*** | ***spp.*** | | middle |
| ***Dodonaea*** | ***viscosa*** | Sticky Hop-bush | middle |
| ***Eremophila*** | ***longifolia*** | Emubush | middle |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | middle |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |

# Wagga Wagga LGA - Locks Road Reach 0-4

HCV




-34.933662
147.297975




-34.928322
147.256347

CTENVIRONMENTAL

Carl

19 Dec 2017

2:59 pm

| | |
|---|---|
| significant disturbance | *yes* |

score **26** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*PCT 277 mapped but unlikely present*

# Wagga Wagga LGA - Locks Road Reach 0-4

HCV

## conservation status

threatened 2

The roadside assessment zone extends approx 4 kilometres along Locks Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

moderate 10

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Locks Road) and less than 1 hectare on the offside of the zone (north of Locks Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

high 14

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Locks Road Reach 0-4

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Calotis*** | ***glandulosa*** | Mauve Burr-daisy | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***spp.*** | | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |







CTENVIRONMENTAL

Carl

20 Dec 2017

1:42 pm

significant disturbance

score 39 t l h HCV

connectivity

fire access

field notes

*Excluded state forest from patch size assessment due to majority of road lacking adjoining vegetation patches*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 13 kilometres along Lower Middle Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Lower Middle Road) and less than 1 hectare on the offside of the zone (east of Lower Middle Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | abundant |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | upper |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Dodonaea*** | ***cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Chrysocephalum*** | ***apiculatum*** | Common Everlasting | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

Carl

22 Jan 2018

1:06 pm

| significant disturbance | yes |
|---|---|

score 50 t l h HCV

| connectivity | |
|---|---|
| fire access | |

field notes

*Western side of road historically cleared with patchy regrowing. Not assessed*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Lower Tarcutta Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Lower Tarcutta Road) and more than 5 hectares on the offside of the zone (east of Lower Tarcutta Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **16**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is intact/natural, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***Blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |







CTENVIRONMENTAL

Carl

28 Feb 2018

11:46 am

| | |
|---|---|
| significant disturbance | *yes* |

score **24** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Macks Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Bathurst burr, Schinus, St Barnaby's thistle and St John's wort

## landscape context

**moderate** **12**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Macks Road) and less than 1 hectare on the offside of the zone (east of Macks Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |




-34.900863
146.982650




-34.905583
147.018417

CTENVIRONMENTAL

Carl

20 Dec 2017

2:58 pm

significant disturbance

score 34 t m m MCV

connectivity

fire access

field notes

# Wagga Wagga LGA - Mangain Hall Road Reach 0-3

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx 3 kilometres along Mangain Hall Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn and Silverleaf nightshade

## landscape context

moderate 20

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Mangain Hall Road) and more than 5 hectares on the offside of the zone (north of Mangain Hall Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 12

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Mangain Hall Road Reach 0-3

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | not present |
| logs and fallen timber | abundant |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Dodonaea*** | ***cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Santalum*** | ***acuminatum*** | Sweet Quandong | middle |
| ***Austrostipa*** | ***tuckeri*** | Tucker's Spear-grass | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Paspalidium*** | ***constrictum*** | Knottybutt Grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |







CTENVIRONMENTAL

Carl

28 Feb 2018

8:49 am

| | |
|---|---|
| significant disturbance | *yes* |

score **35** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Diverse ground cover throughout. Good example of box woodland community*

# Wagga Wagga LGA - Marrar Road Reach 0-3

HCV

## conservation status

threatened 2

The roadside assessment zone extends approx 3 kilometres along Marrar Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

moderate 18

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Marrar Road) and less than 1 hectare on the offside of the zone (east of Marrar Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

high 15

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is diverse throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Marrar Road Reach 0-3

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Pasture grass co-dominant with native groundcovers

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Aristida*** | ***behriana*** | Bunch Wiregrass | lower |
| ***Aristida*** | ***spp.*** | Wiregrass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Maireana*** | ***microphylla*** | Small-leaf Bluebush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |




-34.950120
147.345672




-34.944417
147.345917

CTENVIRONMENTAL

David

24 Sep 2018

10:45 am

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **19** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Drought conditions.*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Marrar Road (northern Section) and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

**moderate** **10**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Marrar Road (northern Section)) and less than 1 hectare on the offside of the zone (east of Marrar Road (northern Section)) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | abundant |
| waterway bank habitat | not present |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | minor |

Not evident.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Dianella*** | ***revoluta*** | Blueberry Lily | lower |

# Wagga Wagga LGA - Mates Gully Road Reach 0-11

HCV




-35.204420
147.681153




-35.281117
147.721588

CTENVIRONMENTAL

Carl

22 Jan 2018

12:00 pm

significant disturbance: yes

score 43 t l m HCV

connectivity

fire access

field notes

*Very sparse weed cover*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 11 kilometres along Mates Gully Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 343 Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamophic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Black locust and St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Mates Gully Road) and more than 5 hectares on the offside of the zone (east of Mates Gully Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Mates Gully Road Reach 0-11

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | common |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | significant |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Grading of road reserve has removed groundcover and mid-story

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***rossii*** | Inland Scribbly Gum | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Cassinia*** | ***arcuata*** | Sifton Bush | middle |
| ***Cassinia*** | ***longifolia*** | | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Lomandra*** | ***spp.*** | Mat-rush | lower |

# Wagga Wagga LGA - Milbrulong Road Reach 1-2

HCV




-35.180928
146.855942




-35.150792
146.867462

CTENVIRONMENTAL

Nakia/ Bruce

18 Dec 2017

2:07 pm

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **43** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1 kilometres along Milbrulong Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Lockhart Hills and Footslopes Mitchell landscape, which is 95% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

Sweet briar, St John's wort and African boxthorn

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Lockhart Hills and Footslopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Milbrulong Road) and more than 5 hectares on the offside of the zone (east of Milbrulong Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Schinus and Pine spp. on verge

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***baileyana*** | Cootamundra Wattle | middle |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***spp.*** | | middle |
| ***Aristida*** | ***behriana*** | Bunch Wiregrass | lower |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |







CTENVIRONMENTAL

Carl

21 Dec 2017

11:07 am

| significant disturbance | yes |
|---|---|

score 36 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

*Fruit, olive, almond, Schinus sp. and Verbeana sp. abundant*

*Assessment stretch*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 15 kilometres along Millwood Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, St John's wort, Scotch thistle and Horehound

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Millwood Road) and more than 5 hectares on the offside of the zone (east of Millwood Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Millwood Road Reach 0-15

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Chrysocephalum*** | ***apiculatum*** | Common Everlasting | lower |
| ***Chrysocephalum*** | ***semipapposum*** | Clustered Everlasting | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Glycine*** | ***clandestina*** | Twining glycine | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |

# Wagga Wagga LGA - Mundarlo Road Reach 0-2.5

HCV




-35.193450
147.752563




-35.184738
147.773942

CTENVIRONMENTAL

Carl

22 Jan 2018

1:38 pm

significant disturbance **yes**

score **46** t l h HCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2.5 kilometres along Mundarlo Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 343 Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamophic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion. The site traverses the Carabost Hills and Ranges Mitchell landscape, which is 71% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Carabost Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Mundarlo Road) and 4 hectares on the offside of the zone (north of Mundarlo Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **16**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is intact/natural, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Mundarlo Road Reach 0-2.5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | abundant |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | common |
| mistletoe | abundant |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | minor |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | significant |
| invasive weeds | minor |
| flood or fire damage | not present |

Staging area for roadworks

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***deanei*** | Green Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Austrostipa*** | ***densiflora*** | Foxtail Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Stypandra*** | ***glauca*** | Nodding Blue Lily | lower |







CTENVIRONMENTAL

Carl

21 Dec 2017

8:25 am

| | |
|---|---|
| significant disturbance | *yes* |

score **25** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*River Red Gums in patches separated by patches of pasture grass*

# Wagga Wagga LGA - Mundowy Lane Reach 1-7

MCV

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 6 kilometres along Mundowy Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 5 River Red Gum herbaceous-grassy very tall open forest wetland on inner floodplains in the lower slopes sub-region of the NSW South Western Slopes Bioregion and the eastern Riverina Bioregion.. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Lippia

## landscape context

**moderate** **12**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Mundowy Lane) and more than 5 hectares on the offside of the zone (east of Mundowy Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | common |
| wetlands, springs, gilgais | common |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Pasture grass dominates ground cover

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Maireana*** | ***microphylla*** | Small-leaf Bluebush | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |




-35.289033
147.317628




-35.297355
147.335053

CTENVIRONMENTAL

Carl

10 Dec 2017

11:09 am

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **26** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*PCT 277 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2 kilometres along O'briens Creek Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound, St John's wort, Tree of heaven and Scotch thistle

## landscape context

**moderate** **12**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of O'briens Creek Road) and less than 1 hectare on the offside of the zone (south of O'briens Creek Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

dumping

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***dealbata*** | Tumbledown Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***baileyana*** | Cootamundra Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***spp.*** | | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Lomandra*** | ***spp.*** | Mat-rush | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |




-35.297378
147.335097




-35.313045
147.354263

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl

10 Dec 2017

12:24 pm

significant disturbance

score 44 t l h HCV

connectivity

fire access

field notes

*PCT 268 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2.5 kilometres along O'briens Creek Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 343 Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamophic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Scotch thistle

## landscape context

**large and/or connected** **23**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of O'briens Creek Road) and less than 1 hectare on the offside of the zone (south of O'briens Creek Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **19**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is intact/natural, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is diverse throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | minor |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Eucalyptus*** | ***spp.*** | | upper |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Epacris*** | ***spp.*** | | lower |
| ***Goodenia*** | ***hederacea*** | Ivy Goodenia | lower |
| ***Hardenbergia*** | ***violacea*** | False Sarsaparilla | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Xerochrysum*** | ***viscosum*** | Sticky Everlasting | lower |




-35.313183
147.354233




-35.322578
147.419555

CTENVIRONMENTAL

Carl

10 Dec 2017

1:42 pm

| significant disturbance | yes |
|---|---|

score **32** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*Eastern section of assessment stretch dominated by oats and pasture grasses*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6.5 kilometres along O'briens Creek Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee Channels and Floodplains Mitchell landscape, which is 55% cleared in NSW. The PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Weeping Willow, St John's wort and Scotch thistle

## landscape context

**large and/or connected** **23**

The assessment zone traverses the Murrumbidgee Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of O'briens Creek Road) and more than 5 hectares on the offside of the zone (south of O'briens Creek Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Slashing
Shoulder grading

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |

# Wagga Wagga LGA - O'sheas Road Reach 1-3

HCV




-35.055789
147.211013




-35.074678
147.207383

*Includes Fletchers Lane*

CTENVIRONMENTAL

Carl

28 Feb 2018

12:04 pm

| significant disturbance | yes |
|---|---|

score **33** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **4**

The roadside assessment zone extends approx 2 kilometres along O'sheas Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 5 River Red Gum herbaceous-grassy very tall open forest wetland on inner floodplains in the lower slopes sub-region of the NSW South Western Slopes Bioregion and the eastern Riverina Bioregion.. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Phoenix Palm

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of O'sheas Road) and more than 5 hectares on the offside of the zone (north of O'sheas Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **7**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - O'sheas Road Reach 1-3

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | abundant |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Invasive dominated ground cover with patches of Bothriochloa and Panicum

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

SEPP 14

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.380163
147.788680




-35.373812
147.817520

CTENVIRONMENTAL

Carl

24 Jan 2018

2:16 pm

significant disturbance **yes**

score **24** t m m **MCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Oberne-Umbango Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 347 White Box - Blakely's Red Gum shrub/grass woodland on metamorphic hillslopes in the mid-southern part of the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**moderate** **12**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Oberne-Umbango Road) and less than 1 hectare on the offside of the zone (north of Oberne-Umbango Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | abundant |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Cassinia*** | ***arcuata*** | Sifton Bush | middle |
| ***Hibbertia*** | ***obtusifolia*** | Hoary Guinea Flower | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |




-35.030389
147.144897




-34.958533
147.011183

CTENVIRONMENTAL

Carl

20 Dec 2017

10:23 am

significant disturbance **yes**

score **47** t l h **HCV**

connectivity

fire access

field notes

*Assessment stretch excludes Currawarna township*

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 28 kilometres along Old Narrandera Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, African lovegrass, Scotch thistle, Silverleaf nightshade and Spiny burrgrass

## landscape context

**large and/or connected** **30**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is > 100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Old Narrandera Road) and more than 5 hectares on the offside of the zone (north of Old Narrandera Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | minor |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***buxifolia*** | Box-leaved Wattle | middle |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Calotis*** | ***cuneifolia*** | Purple Burr-Daisy | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **53** t l h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 21 kilometres along Old Narrandera Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Silverleaf nightshade and St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Old Narrandera Road) and 2 hectares on the offside of the zone (south of Old Narrandera Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **18**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is intact/natural, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Recent storm damage. Timber removal evident however recent storms have felled a large number of trees and limbs.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***buxifolia*** | Box-leaved Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Cassia*** | ***spp.*** | | middle |
| ***Aristida*** | ***behriana*** | Bunch Wiregrass | lower |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Eremophila*** | ***debilis*** | Amulla | lower |
| ***Maireana*** | ***excavata*** | | lower |
| ***Maireana*** | ***microphylla*** | Small-leaf Bluebush | lower |




-35.063305
147.292708




-35.068394
147.327042

CTENVIRONMENTAL

Carl

20 Dec 2017

8:56 am

significant disturbance **yes**

score **42** t l m HCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Old Narrandera Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Silverleaf nightshade

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Old Narrandera Road) and less than 1 hectare on the offside of the zone (south of Old Narrandera Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |







CTENVIRONMENTAL

Carl

20 Dec 2017

9:29 am

significant disturbance **yes**

score **37** t l m **HCV**

connectivity

fire access

field notes

*Assessed stretch crosses multiple Mitchell Landscapes*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 11 kilometres along Old Narrandera Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 276 Yellow Box grassy tall woodland on alluvium or parna loams and clays on flats in NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Horehound and African lovegrass

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Old Narrandera Road) and more than 5 hectares on the offside of the zone (north of Old Narrandera Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | common |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Dodonaea*** | ***cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***spp.*** | | lower |




-35.233772
147.184783




-35.257412
147.149444

CTENVIRONMENTAL

Carl

15 Mar 2018

12:19 pm

significant disturbance **yes**

score **24** t m m **MCV**

connectivity

fire access

field notes

*Assessment undertaken from moving car due to safety issues of the highway*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Olympic Highway and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

**moderate** **12**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Olympic Highway) and less than 1 hectare on the offside of the zone (east of Olympic Highway) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |

start




-34.968045
147.442537

end




-35.040822
147.414092

CTENVIRONMENTAL

Carl

19 Dec 2017

9:39 am

significant disturbance **yes**

score **44** t l m HCV

connectivity

fire access

field notes

*276 presenr*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 9 kilometres along Olympic Highway and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Horehound and African boxthorn

## landscape context

**large and/or connected** **30**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is > 100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Olympic Highway) and more than 5 hectares on the offside of the zone (east of Olympic Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Olympic Highway Reach 27-36

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Bromus*** | ***spp.*** | Brome | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |
| ***Xerochrysum*** | ***viscosum*** | Sticky Everlasting | lower |







CTENVIRONMENTAL

Carl

19 Dec 2017

7:43 am

significant disturbance **yes**

score **27** t l l * MCV

connectivity

fire access

field notes

*PCT 5 present PCT 276 also present. PCT 796 dominated by oats and phalaris. Maybe incorrectly mapped and*

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 10 kilometres along Oura Road and contains grassland/ wetland of Specht class grassland (no trees or shrubs) including Plant Community Type (PCT) 796 Derived grassland of the NSW South Western Slopes. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Serrated tussock, Spiny burrgrass, Horehound and St John's wort

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Oura Road) and more than 5 hectares on the offside of the zone (south of Oura Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**low** **2**

The assessment zone includes grassland/wetland of Specht class grassland (no trees or shrubs). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are common/ abundant. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'low' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | sparse |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | minor |

Burning and poisoning of Red Gum saplings under power lines

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Aristida*** | ***spp.*** | Wiregrass | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Juncus*** | ***spp.*** | Rush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

Carl

19 Dec 2017

8:28 am

| significant disturbance | yes |
|---|---|

score 43 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

*PCT 76, 266 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3.5 kilometres along Pattersons Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 276 Yellow Box grassy tall woodland on alluvium or parna loams and clays on flats in NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Spiny burrgrass and St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Pattersons Road) and more than 5 hectares on the offside of the zone (west of Pattersons Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |

# Wagga Wagga LGA - Peppermint Drive Reach 3-6

HCV

start



km 3

-35.220742
147.625855

end



km 6

-35.252637
147.611663

CTENVIRONMENTAL

Carl

22 Jan 2018

3:47 pm

significant disturbance: yes

score 43 t l m HCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Peppermint Drive and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Peppermint Drive) and more than 5 hectares on the offside of the zone (east of Peppermint Drive) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Peppermint Drive Reach 3-6

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***densiflora*** | Foxtail Speargrass | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Microlaena*** | ***stipoides*** | Weeping Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

Carl

21 Dec 2017

9:55 am

| | |
|---|---|
| significant disturbance | *yes* |

score **16** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

# Wagga Wagga LGA - Pipers Lane Reach 7-9

HCV

## conservation status

threatened 2

The roadside assessment zone extends approx 2 kilometres along Pipers Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

moderate 0

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Pipers Lane) and less than 1 hectare on the offside of the zone (north of Pipers Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

high 14

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Pipers Lane Reach 7-9

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |







CTENVIRONMENTAL

Carl

20 Dec 2017

4:22 pm

significant disturbance

score 28 t m m MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Pipers Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Silverleaf nightshade, St John's wort and Sweet briar

## landscape context

**moderate** **15**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Pipers Road) and 2 hectares on the offside of the zone (south of Pipers Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Atriplex*** | ***nummularia*** | Old Man Saltbush | middle |
| ***Bursaria*** | ***spinosa*** | Native Blackthorn | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Juncus*** | ***spp.*** | Rush | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |

# Wagga Wagga LGA - Plumpton Road Reach 0-5

HCV




-35.183578
147.357283




-35.221958
147.349700

CTENVIRONMENTAL

Carl

15 Mar 2018

9:26 am

| significant disturbance | yes |
|---|---|

score **36** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

*Condition improves toward southerly end*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5 kilometres along Plumpton Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Tree Lucerne and Schinus sp.

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Plumpton Road) and more than 5 hectares on the offside of the zone (west of Plumpton Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common in parts and groundcover nativeness is diverse in patches. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Plumpton Road Reach 0-5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | minor |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Slashing of roadside

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***dwyeri*** | Dwyer's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***lanigera*** | Woolly Wattle | middle |
| ***brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Casuarina*** | ***cunninghamiana*** | River Oak | middle |
| ***Lissanthe*** | ***strigosa*** | Peach Heath | middle |
| ***Pultenaea*** | ***procumbens*** | | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | lower |
| ***Cheilanthes*** | ***sieberi*** | Rock Fern | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |




-35.059136
147.388245




-35.001247
147.395508

CTENVIRONMENTAL

Carl

19 Dec 2017

11:06 am

significant disturbance **yes**

score **27** t m l * MCV

connectivity

fire access

field notes

*PCT 267, 282 also present*

# Wagga Wagga LGA - Poiles Road Reach 2-8

**MCV***

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 6 kilometres along Poiles Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound and St John's wort

## landscape context

**moderate** **20**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Poiles Road) and more than 5 hectares on the offside of the zone (east of Poiles Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**low** **5**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is patches only. The RAM vegetation condition is 'low' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |

# Wagga Wagga LGA - Prices Road Reach 1.5-3

MCV




-35.041417
147.350237

*Includes Pine Gully Road 1*




-35.027206
147.338167

CTENVIRONMENTAL

Carl

28 Feb 2018

8:23 am

| significant disturbance | yes |
|---|---|

score **26** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

# Wagga Wagga LGA - Prices Road Reach 1.5-3

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx 1.5 kilometres along Prices Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Olive and Schinus

## landscape context

moderate 12

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Prices Road) and less than 1 hectare on the offside of the zone (north of Prices Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 12

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Prices Road Reach 1.5-3

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

deliberate removal of understory

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Dianella*** | ***longifolia*** | Blueberry Lily | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Themeda*** | ***australis*** | | lower |

# Wagga Wagga LGA - Pulletop Road Reach 5-12

HCV




-35.370712
147.452683




-35.413363
147.405333

CTENVIRONMENTAL

Carl

9 Feb 2018

11:36 am

significant disturbance: *yes*

score 43 t l m HCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 7 kilometres along Pulletop Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Blackberry and Nodding thistle

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Pulletop Road) and more than 5 hectares on the offside of the zone (east of Pulletop Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Pulletop Road Reach 5-12

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | abundant |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Juncus*** | ***usitatus*** | | lower |
| ***Paspalidium*** | ***distans*** | | lower |
| ***Tricoryne*** | ***elatior*** | Yellow Autumn-lily | lower |







CTENVIRONMENTAL

CTENVIRONMENTAL

20 Dec 2017

11:32 am

| | |
|---|---|
| significant disturbance | *yes* |

score **38** t l h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Assessment includes small portions of Bakers Lane, Chapman Lane and Palmers Lane*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Rands Tank Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, St John's wort and Scotch thistle

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Rands Tank Road) and less than 1 hectare on the offside of the zone (east of Rands Tank Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Rands Tank Road Site

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***buxifolia*** | Box-leaved Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Digitaria*** | ***divaricatissima*** | Umbrella Grass | lower |
| ***Paspalidium*** | ***constrictum*** | Knottybutt Grass | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |
| ***Wahlenbergia*** | ***luteola*** | Bluebell | lower |




-34.887497
147.044692




-34.843338
147.063203

CTENVIRONMENTAL

David

17 Sep 2018

11:45 am

significant disturbance

score 23 t m l * MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx kilometres along Rands Tank Road (northern section) and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

Horse hound, Peppercorn, fruit trees

## landscape context

**moderate** **16**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Rands Tank Road (northern section)) and less than 1 hectare on the offside of the zone (east of Rands Tank Road (northern section)) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**low** **5**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'low' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | not present |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | |







CTENVIRONMENTAL

Carl

20 Dec 2017

8:02 am

significant disturbance **yes**

score **47** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 5 kilometres along River Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 5 River Red Gum herbaceous-grassy very tall open forest wetland on inner floodplains in the lower slopes sub-region of the NSW South Western Slopes Bioregion and the eastern Riverina Bioregion.. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community. The RAM conservation status is 'threatened'.

## weeds present

Horehound, St John's wort and St Barnaby's thistle

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of River Road) and less than 1 hectare on the offside of the zone (north of River Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | common |
| wetlands, springs, gilgais | common |
| rocky outcrops | not present |
| waterway bank habitat | common |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | significant |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Grading road shoulder (see site photo)

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Austrostipa*** | ***aristiglumis*** | Plains Grass | lower |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Juncus*** | ***spp.*** | Rush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |

# Wagga Wagga LGA - Robinsons Road Reach 0-4

MCV




-35.012425
147.181412




-35.025531
147.255645

*Includes Cobdens Road 3*

CTENVIRONMENTAL

Carl

28 Feb 2018

11:21 am

| significant disturbance | *yes* |
|---|---|

score **21** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

# Wagga Wagga LGA - Robinsons Road Reach 0-4

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Robinsons Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass and Horehound

## landscape context

**moderate** **10**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Robinsons Road) and less than 1 hectare on the offside of the zone (north of Robinsons Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Robinsons Road Reach 0-4

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Calotis*** | ***cuneifolia*** | Purple Burr-Daisy | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |







CTENVIRONMENTAL

Nakia/Bruce

19 Dec 2017

7:13 am

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **47** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 10 kilometres along Rohans Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Sweet briar, Horehound and St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Rohans Road) and more than 5 hectares on the offside of the zone (east of Rohans Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | common |
| trees with hollows | common |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | common |
| mistletoe | sparse |
| cryptogams | sparse |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | minor |
| invasive weeds | not present |
| flood or fire damage | not present |

Schinus and Gazania spp. on verge

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***hakeoides*** | Hakea Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Acacia*** | ***pycnantha*** | Golden Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Dodonaea*** | ***viscosa subsp. cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Austrostipa*** | ***aristiglumis*** | Plains Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Rytidosperma*** | ***caespitosum*** | Ringed Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |




-34.879263
147.028244




-34.946830
146.998872

CTENVIRONMENTAL

Carl

20 Dec 2017

3:05 pm

significant disturbance

score 33 t m m MCV

connectivity

fire access

field notes

*Schinus spp. present*

# Wagga Wagga LGA - Roping Pole Road Reach 5-13

MCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 8 kilometres along Roping Pole Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn and Silverleaf nightshade

## landscape context

**moderate** **20**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Roping Pole Road) and 2 hectares on the offside of the zone (east of Roping Pole Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Roping Pole Road Reach 5-13

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |

# Wagga Wagga LGA - Stolls Lane Reach 0-5

HCV







CTENVIRONMENTAL

Carl

9 Feb 2018

2:08 pm

| significant disturbance | yes |
|---|---|

score **42** t l m **HCV**

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 5 kilometres along Stolls Lane and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Stolls Lane) and more than 5 hectares on the offside of the zone (east of Stolls Lane) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Stolls Lane Reach 0-5

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Road upgrade works have resulted in disturbance to vegetation community in isolated areas.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Fabacea*** | ***spp.*** | | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |







CTENVIRONMENTAL

Carl

22 Jan 2018

10:43 am

significant disturbance **yes**

score **27** t l l * MCV

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 5 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Sturt Highway) and more than 5 hectares on the offside of the zone (north of Sturt Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**low** **3**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'low' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Pasture grass dominates roadside reserve ground cover

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Swainsona*** | ***spp.*** | | middle |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |

start




-35.189822
147.746017

end




-35.163914
147.718017

CTENVIRONMENTAL

Carl

22 Jan 2018

2:34 pm

significant disturbance **yes**

score **30** t l m **HCV**

connectivity

fire access

field notes

*Assessment undertaken while driving due to lack of safe pull over area on highway*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 4 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Black locust, Scotch thistle and African lovegrass

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north-east of Sturt Highway) and 2 hectares on the offside of the zone (north-west of Sturt Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **6**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |







CTENVIRONMENTAL

Carl

22 Jan 2018

1:24 pm

| | |
|---|---|
| significant disturbance | yes |

score **23** t m m **MCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Car based Assessment due to lack of safe pull over areas on highway*

# Wagga Wagga LGA - Sturt Highway Reach 37-40

MCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 76 Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions. The site traverses the Carabost Hills and Ranges Mitchell landscape, which is 71% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Scotch thistle and African lovegrass

## landscape context

**moderate** **12**

The assessment zone traverses the Carabost Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Sturt Highway) and less than 1 hectare on the offside of the zone (east of Sturt Highway) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

other

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***genistifolia*** | Early Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Enteropogon*** | ***spp.*** | Windmill Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.079297
147.111389




-34.996250
146.807647

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl/Nakia

18 Dec 2017

10:15 am

significant disturbance **yes**

score **50** t l m HCV

connectivity

fire access

field notes

*PCT 5, 74, 80, 237, 250 also present Schinus spp. present Abundant River Red Gum regen. Sparse regen in Box*

# Wagga Wagga LGA - Sturt Highway Reach 41-72

HCV

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 31 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 76 Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, Horehound, St John's wort and Scotch thistle

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are 3 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Sturt Highway) and more than 5 hectares on the offside of the zone (north of Sturt Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | common |
| rocky outcrops | not present |
| waterway bank habitat | common |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Firewood collection

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***columellaris*** | | middle |
| ***Atriplex*** | ***elachophylla*** | | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |




-35.112189
147.289597




-35.092403
147.144317

*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl/Nakia

18 Dec 2017

9:18 am

| significant disturbance | yes |
|---|---|

score 48 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

*PCT 5, 277, 276, 110, 346 also present*

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 14 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound and St John's wort

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Sturt Highway) and more than 5 hectares on the offside of the zone (north of Sturt Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | sparse |
| mistletoe | common |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Pinus spp. present and Schinus spp.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***spp.*** | | middle |
| ***Callitris*** | ***columellaris*** | | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***pallidum*** | Redanther Wallaby Grass; Silvertop | lower |







*additional photo points taken for this site/zone*

CTENVIRONMENTAL

Carl/Nakia

18 Dec 2017

8:36 am

significant disturbance **yes**

score **51** t l m **HCV**

connectivity

fire access

field notes

*Pinus spp. present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, St John's wort, Horehound and Cotoneaster

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Sturt Highway) and 5 hectares on the offside of the zone (south of Sturt Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Sturt Highway Reach 89-92

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | common |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

Stockpile

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Acacia*** | ***baileyana*** | Cootamundra Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Allocasuarina*** | ***verticillata*** | Drooping Sheoak | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Cheilanthes*** | ***sieberi*** | Rock Fern | lower |
| ***Digitaria*** | ***spp.*** | Finger Grass | lower |
| ***Glycine*** | ***tabacina*** | Variable Glycine | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Xerochrysum*** | ***viscosum*** | Sticky Everlasting | lower |







CTENVIRONMENTAL

Carl

22 Jan 2018

10:15 am

significant disturbance **yes**

score **40** t l l * **MCV**

connectivity

fire access

field notes

*Includes River Road 7. Ground cover dominated by pasture grass.*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1.5 kilometres along Sturt Highway and contains naturally treed vegetation of Specht class open woodland (canopy < 10%) including Plant Community Type (PCT) 276 Yellow Box grassy tall woodland on alluvium or parna loams and clays on flats in NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Black locust, Privet, Blackberry and St John's wort

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Sturt Highway) and more than 5 hectares on the offside of the zone (north of Sturt Highway) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**low** **2**

The assessment zone includes naturally treed vegetation of Specht class open woodland (canopy < 10%). Within the assessment zone, vegetation structure is sparse or absent, large trees are sparse and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'low' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Fruit trees and Schinus sp present

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |







CTENVIRONMENTAL

Carl

20 Dec 2017

9:05 am

significant disturbance **yes**

score **44** t l h **HCV**

connectivity

fire access

field notes

*Olive and Schinus spp. present*

# Wagga Wagga LGA - The Gap Road  Reach 0-1

HCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1 kilometres along The Gap Road  and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Horehound

## landscape context

**large and/or connected** **27**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of The Gap Road ) and 2 hectares on the offside of the zone (west of The Gap Road ) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - The Gap Road Reach 0-1

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | abundant |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | sparse |
| cryptogams | abundant |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Austrostipa*** | ***spp.*** | Speargrass | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Rytidosperma*** | ***erianthum*** | Wallaby Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |




-34.984908
147.151992




-34.995247
147.227188

CTENVIRONMENTAL

Carl

28 Feb 2018

10:29 am

significant disturbance **yes**

score **35** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 7 kilometres along The Gap Road  and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound, African lovegrass and Almond

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of The Gap Road ) and more than 5 hectares on the offside of the zone (south of The Gap Road ) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - The Gap Road  Reach 15-22

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |

# Wagga Wagga LGA - The Rock Road  Reach 0-15

HCV




-35.061397
146.797988




-35.165639
146.913772

CTENVIRONMENTAL

Nakia/ Bruce

18 Dec 2017

12:57 pm

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **42** t l m **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*PCT 76 also present*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 15 kilometres along The Rock Road  and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Lockhart Hills and Footslopes Mitchell landscape, which is 95% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Horehound and African boxthorn

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Lockhart Hills and Footslopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of The Rock Road ) and 1 hectare on the offside of the zone (south of The Rock Road ) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - The Rock Road Reach 0-15

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Schinus spp. on verge

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Allocasuarina*** | ***luehmannii*** | Bulloak | upper |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Dodonaea*** | ***viscosa subsp. cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Rhagodia*** | ***spinescens*** | Thorny Saltbush | middle |
| ***Senna*** | ***artemisioides*** | | middle |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Eremophila*** | ***debilis*** | Amulla | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Solanum*** | ***esuriale*** | Quena | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |







CTENVIRONMENTAL

Carl

28 Feb 2018

4:04 pm

significant disturbance **yes**

score **32** t l m **HCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 9 kilometres along The Rock-Collingullie Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Schinus, Olive and Pinus

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of The Rock-Collingullie Road ) and more than 5 hectares on the offside of the zone (east of The Rock-Collingullie Road ) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

DNG and Plains Grass communities dominated by Paspalidium sp.Unlikely to be mapped communities.

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Carex*** | ***inversa*** | Knob Sedge | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Enteropogon*** | ***acicularis*** | Curly Windmill Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |




-34.892770
147.227037




-35.056606
147.193542

CTENVIRONMENTAL

Carl

21 Dec 2017

3:15 pm

| significant disturbance | yes |
|---|---|

score 39 t l h HCV

| connectivity | |
|---|---|
| fire access | |

field notes

*Assessment stretch crosses three Mitchell Landscapes*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 16 kilometres along Tooyal Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound, Silverleaf nightshade, St John's wort and African lovegrass

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Tooyal Road) and more than 5 hectares on the offside of the zone (east of Tooyal Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Tooyal Road Reach 0-16

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Almond trees, Schinus spp., olive

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Dodonaea*** | ***cuneata*** | Wedge-leaf Hop-bush | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |







CTENVIRONMENTAL

Carl

19 Dec 2017

10:19 am

significant disturbance: yes

score 22 t m m MCV

connectivity

fire access

field notes

# Wagga Wagga LGA - Trahairs Road Reach 1.5-2.5

**MCV**

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1 kilometres along Trahairs Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Black locust, St John's wort, Silverleaf nightshade and Horehound

## landscape context

**moderate** **12**

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Trahairs Road) and less than 1 hectare on the offside of the zone (north of Trahairs Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Trahairs Road Reach 1.5-2.5

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Chrysocephalum*** | ***apiculatum*** | Common Everlasting | lower |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |
| ***Vittadinia*** | ***cuneata*** | Fuzzweed | lower |




-35.296488
147.534775




-35.306520
147.567947

CTENVIRONMENTAL

Carl

26 Jan 2018

11:50 am

significant disturbance **yes**

score **32** t l m **HCV**

connectivity

fire access

field notes

*Understory absent Groundcover dominated by pasture grasses*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2.5 kilometres along Trewalla Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 2 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Trewalla Road) and more than 5 hectares on the offside of the zone (north of Trewalla Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **8**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is abundant and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Trewalla Road Reach .5-3

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***goniocalyx*** | Bundy | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.456233
147.610717




-35.537605
147.653855

CTENVIRONMENTAL

Carl

24 Jan 2018

10:29 am

significant disturbance **yes**

score **44** t l m **HCV**

connectivity

fire access

field notes

*Disturbance from recent fires and forestry has resulted in dense canopy and understory regeneration*

# Wagga Wagga LGA - Tumbarumba Road Reach 0-11

HCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 11 kilometres along Tumbarumba Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 268 White Box - Blakely's Red Gum - Long-leaved Box - Nortons Box - Red Stringybark grass-shrub woodland on shallow soils on hills in the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, Blackberry, St John's wort and Scotch thistle

## landscape context

**large and/or connected** **32**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Tumbarumba Road) and more than 5 hectares on the offside of the zone (south of Tumbarumba Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is abundant and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Tumbarumba Road Reach 0-11

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | abundant |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | abundant |
| trees with hollows | abundant |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Forestry beyond road reserve has resulted in pines growing in reserve

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***bridgesiana*** | Apple Box | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Dillwynia*** | ***phylicoides*** | Parrot-pea | middle |
| ***Styphelia*** | ***triflora*** | Pink Five-Corners | middle |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Cheilanthes*** | ***sieberi*** | Rock Fern | lower |
| ***Hardenbergia*** | ***violacea*** | False Sarsaparilla | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |







CTENVIRONMENTAL

Carl

26 Jan 2018

10:48 am

| | |
|---|---|
| significant disturbance | yes |

score 33 t l m HCV

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Moderate value patches connected by pasture grass dominated ground cover*

# Wagga Wagga LGA - Tumbarumba Road Reach 12-35 HCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 23 kilometres along Tumbarumba Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort, Poplar sp. and Scotch thistle

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Murrumbidgee - Tarcutta Channels and Floodplains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south-east) of Tumbarumba Road) and more than 5 hectares on the offside of the zone (south-west of Tumbarumba Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **9**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is sparse/absent. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Tumbarumba Road Reach 12-35

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | common |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***goniocalyx*** | Bundy | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Grevillea*** | ***spp.*** | | middle |
| ***Carex*** | ***appressa*** | Tall Sedge | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |




-35.107630
147.172713




-35.134006
147.167647

CTENVIRONMENTAL

Carl

28 Feb 2018

4:37 pm

significant disturbance **yes**

score **27** t m m **MCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Twelve Mile Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

White Heliotrope

## landscape context

**moderate** **15**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Twelve Mile Road) and 3 hectares on the offside of the zone (east of Twelve Mile Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Callitris*** | ***endlicheri*** | Black Cypress Pine | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Calotis*** | ***cuneifolia*** | Purple Burr-Daisy | lower |
| ***Cynodon*** | ***dactylon*** | Common Couch | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |




-35.184422
147.227342




-35.186967
147.242600

CTENVIRONMENTAL

Carl

15 Mar 2018

2:54 pm

significant disturbance **yes**

score **32** t m m **MCV**

connectivity

fire access

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 2 kilometres along Uranquinty Cross Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Schinus sp.

## landscape context

**moderate** **18**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Uranquinty Cross Road) and more than 5 hectares on the offside of the zone (north of Uranquinty Cross Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **12**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | significant |
| flood or fire damage | not present |

Roadside slashing

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***camaldulensis*** | River Red Gum | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Austrostipa*** | ***bigeniculata*** | Yanganbil | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Panicum*** | ***effusum*** | Hairy Panic | lower |

# Wagga Wagga LGA - Vonarx Road Reach 0-1.5

MCV




-35.020497
147.416962




-35.017955
147.397567

CTENVIRONMENTAL

Carl

19 Dec 2017

10:41 am

significant disturbance: yes

score 24 t m m MCV

connectivity

fire access

field notes

*PCT 277 also present*

# Wagga Wagga LGA - Vonarx Road Reach 0-1.5

MCV

## conservation status

threatened 2

The roadside assessment zone extends approx 1.5 kilometres along Vonarx Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 267 White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion. The site traverses the Junee Hills and Slopes Mitchell landscape, which is 98% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Horehound

## landscape context

moderate 12

The assessment zone traverses the Junee Hills and Slopes Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Vonarx Road) and less than 1 hectare on the offside of the zone (north of Vonarx Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

moderate 10

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is patches only. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Vonarx Road Reach 0-1.5

**MCV**

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Pipe laying in progress

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***baileyana*** | Cootamundra Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Aristida*** | ***spp.*** | Wiregrass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

Carl

21 Dec 2017

2:08 pm

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **37** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 14 kilometres along Warren Church Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 75 Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the eastern Riverina Bioregion and western NSW South Western Slopes Bioregion. The site traverses the Ardlethan Hills Mitchell landscape, which is 90% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837,20083). The RAM conservation status is 'threatened'.

## weeds present

African boxthorn, Scotch thistle, Horehound and African lovegrass

## landscape context

**moderate** **20**

The assessment zone traverses the Ardlethan Hills Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Warren Church Road) and more than 5 hectares on the offside of the zone (north of Warren Church Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**high** **15**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is sparse and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Warren Church Road Reach 0-14

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | abundant |
| mid-storey regeneration | abundant |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | sparse |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | minor |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Recent fencing has cleared vegetation from roadside reserve

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***difformis*** | Drooping Wattle | middle |
| ***Acacia*** | ***montana*** | Mallee Wattle | middle |
| ***Bursaria*** | ***spinosa*** | Native Blackthorn | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Convolvulus*** | ***angustissimus*** | | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Sida*** | ***spp.*** | | lower |
| ***Wahlenbergia*** | ***communis*** | Tufted Bluebell | lower |

# Wagga Wagga LGA - Waverley Road Reach 1-2.5

MCV




-35.362688
147.289337




-35.365953
147.273483

CTENVIRONMENTAL

Carl

9 Feb 2018

1:38 pm

| significant disturbance | yes |
|---|---|

score **28** t m m **MCV**

| connectivity | |
|---|---|
| fire access | |

field notes

# Wagga Wagga LGA - Waverley Road Reach 1-2.5

MCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1.5 kilometres along Waverley Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 276 Yellow Box grassy tall woodland on alluvium or parna loams and clays on flats in NSW South Western Slopes Bioregion. The site traverses the Brokong Plains Mitchell landscape, which is 93% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Black locust

## landscape context

**moderate** **15**

The assessment zone traverses the Brokong Plains Mitchell landscape. Vegetation within the roadside reserve boundary is < 5 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Waverley Road) and 3 hectares on the offside of the zone (south of Waverley Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Waverley Road Reach 1-2.5

MCV

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | not present |
| mid-storey regeneration | not present |
| logs and fallen timber | not present |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Microlaena*** | ***stipoides*** | Weeping Grass | lower |







CTENVIRONMENTAL

Carl

26 Jan 2018

9:10 am

significant disturbance **yes**

score **34** t l m **HCV**

connectivity

fire access

field notes

*High value vegetation patches linked by cleared areas with dense themeda patches*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 12.5 kilometres along Westbrook Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Carabost Hills and Ranges Mitchell landscape, which is 71% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Blackberry, St John's wort and Black willow

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Carabost Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are more than 5 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (south of Westbrook Road) and more than 5 hectares on the offside of the zone (north of Westbrook Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **10**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are sparse and non-indigenous woody weeds are sparse. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | sparse |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | sparse |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | minor |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

other

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Cassinia*** | ***arcuata*** | Sifton Bush | middle |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Phragmites*** | ***australis*** | Common Reed | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Typha*** | ***orientalis*** | Broad-leaved Cumbungi | lower |







CTENVIRONMENTAL

Carl

9 Feb 2018

12:31 pm

significant disturbance **yes**

score **43** t l m HCV

connectivity

fire access

field notes

*Patches of unmapped PCT 796 - DNG (derived native grassland) present in roadside reserve*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 9 kilometres along Westby Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

Blackberry, Black locust and St John's wort

## landscape context

**large and/or connected** **28**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends 20-100 metres metres wide in total. There are 3 hectares of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Westby Road) and more than 5 hectares on the offside of the zone (east of Westby Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

# Wagga Wagga LGA - Westby Road Reach 2-11

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | common |
| mid-storey regeneration | common |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

Dumping

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***macrorhyncha*** | Red Stringybark | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***polyanthemos*** | Red Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Acacia*** | ***paradoxa*** | Kangaroo Thorn | middle |
| ***Daviesia*** | ***leptophylla*** | | middle |
| ***Pultenaea*** | ***procumbens*** | | middle |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Hardenbergia*** | ***violacea*** | False Sarsaparilla | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Themeda*** | ***triandra*** | Kangaroo grass | lower |
| ***Xanthorrhoea*** | ***spp.*** | | lower |

# Wagga Wagga LGA - Wokolena Road Reach 0-3

HCV




-35.160000
147.575928




-35.143458
147.556350

CTENVIRONMENTAL

Carl

22 Jan 2018

11:19 am

significant disturbance **yes**

score **52** t l h **HCV**

connectivity

fire access

field notes

*Includes Wokolena Rd 5 to Sturt Highway junction*

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 3 kilometres along Wokolena Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 266 White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion. The site traverses the Adrah Hills and Ranges Mitchell landscape, which is 77% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

African lovegrass, Horehound and St John's wort

## landscape context

**large and/or connected** **36**

The assessment zone traverses the Adrah Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 20-100 metres wide. Continuous vegetation extends > 100 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Wokolena Road) and more than 5 hectares on the offside of the zone (west of Wokolena Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**high** **14**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are absent. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'high' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | common |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | common |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | significant |
| invasive weeds | minor |
| flood or fire damage | not present |

Dumping

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Aristida*** | ***ramosa*** | Purple Wiregrass | lower |
| ***Austrostipa*** | ***scabra*** | Speargrass | lower |
| ***Elymus*** | ***scaber*** | Wheatgrass, Common Wheatgrass | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Xerochrysum*** | ***viscosum*** | Sticky Everlasting | lower |







CTENVIRONMENTAL

David

10 Sep 2018

2:00 pm

| | |
|---|---|
| significant disturbance | *see 'other disturbance'* |

score **21** t m h **HCV**

| | |
|---|---|
| connectivity | |
| fire access | |

field notes

*Identification of ground cover species was not possible due to drought conditions and dead ground cover*

# Wagga Wagga LGA - Woolshed Lane Reach 1-2

HCV

## conservation status

threatened 2

The roadside assessment zone extends approx 1 kilometres along Woolshed Lane and contains grassland/wetland of Specht class grassland (no trees or shrubs) including Plant Community Type (PCT) 796 Derived grassland of the NSW South Western Slopes. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

## landscape context

moderate 12

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (east of Woolshed Lane) and less than 1 hectare on the offside of the zone (west of Woolshed Lane) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

high 7

The assessment zone includes grassland/wetland of Specht class grassland (no trees or shrubs). Within the assessment zone, vegetation structure is sparse or absent, large trees are absent and non-indigenous woody weeds are absent. Groundcover weediness is common in parts and groundcover nativeness is patches only. The RAM vegetation condition is 'high' (for this broad vegetation type).

# Wagga Wagga LGA - Woolshed Lane Reach 1-2

HCV

## habitat features

| | |
|---|---|
| canopy regeneration | not present |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | not present |
| trees with hollows | sparse |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | minor |
| road or track/s | minor |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | minor |
| timber removal | not present |
| active erosion | not present |
| invasive weeds | not present |
| flood or fire damage | not present |

Grazing

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***sideroxylon*** | Mugga Ironbark | upper |
| | | | lower |
| | | | |




-35.116961
147.219908




-35.130325
147.217530

CTENVIRONMENTAL

Carl

28 Feb 2018

4:49 pm

significant disturbance **yes**

score **27** t m m **MCV**

connectivity

fire access

field notes

# Wagga Wagga LGA - Yarragundry Road Reach 1-2

MCV

## conservation status

**threatened** **2**

The roadside assessment zone extends approx 1 kilometres along Yarragundry Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 80 Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion. The site traverses the Coffin Rock Granite Hills Mitchell landscape, which is 91% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 20072,20149). The RAM conservation status is 'threatened'.

## weeds present

Schinus, Tree Lucerne, St John's wort and Olive

## landscape context

**moderate** **12**

The assessment zone traverses the Coffin Rock Granite Hills Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (west of Yarragundry Road) and less than 1 hectare on the offside of the zone (east of Yarragundry Road) as assessed. The RAM landscape context is 'moderate'.

## vegetation condition

**moderate** **13**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is mostly intact, large trees are common and non-indigenous woody weeds are common/abundant. Groundcover weediness is common in parts and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | not present |
| rocky outcrops | not present |
| waterway bank habitat | not present |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | minor |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

none

## native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***dealbata*** | Silver Wattle | middle |
| ***Acacia*** | ***deanei subsp. paucijuga*** | Green Wattle | middle |
| ***Acacia*** | ***decora*** | Western Silver Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Cynodon*** | ***dactylon*** | Common Couch | lower |
| ***Einadia*** | ***nutans*** | Climbing Saltbush | lower |
| ***Lomandra*** | ***multiflora*** | Many-flowered Mat-rush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |
| ***Sida*** | ***corrugata*** | Corrugated Sida | lower |







CTENVIRONMENTAL

Carl

9 Feb 2018

3:40 pm

| significant disturbance | yes |
|---|---|

score 36 t l m HCV

| connectivity | |
|---|---|
| fire access | |

field notes

## conservation status

**threatened** **3**

The roadside assessment zone extends approx 6 kilometres along Yerong Creek-Mangoplah Road and contains naturally treed vegetation of Specht class woodland (canopy 10-30%) including Plant Community Type (PCT) 277 Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion. The site traverses the Wonga Hills and Ranges Mitchell landscape, which is 85% cleared in NSW. The landscape is an over-cleared community and the PCT is associated with a Threatened Ecological Community (TEC ID 10837). The RAM conservation status is 'threatened'.

## weeds present

St John's wort and Sweet briar

## landscape context

**large and/or connected** **22**

The assessment zone traverses the Wonga Hills and Ranges Mitchell landscape. Vegetation within the roadside reserve boundary is 5-20 metres wide. Continuous vegetation extends < 20 metres metres wide in total. There are less than 1 hectare of native vegetation or vegetation patches within 100 metres on the nearside of the zone (north of Yerong Creek-Mangoplah Road) and more than 5 hectares on the offside of the zone (south of Yerong Creek-Mangoplah Road) as assessed. The RAM landscape context is 'large and/or connected'.

## vegetation condition

**moderate** **11**

The assessment zone includes naturally treed vegetation of Specht class woodland (canopy 10-30%). Within the assessment zone, vegetation structure is partially intact, large trees are common and non-indigenous woody weeds are sparse. Groundcover weediness is common throughout and groundcover nativeness is few species common throughout. The RAM vegetation condition is 'moderate' (for this broad vegetation type).

## habitat features

| | |
|---|---|
| canopy regeneration | sparse |
| mid-storey cover | sparse |
| mid-storey regeneration | sparse |
| logs and fallen timber | sparse |
| trees with hollows | common |
| wetlands, springs, gilgais | sparse |
| rocky outcrops | not present |
| waterway bank habitat | sparse |
| mistletoe | not present |
| cryptogams | not present |
| rare plants | not present |

## threats and disturbance

| | |
|---|---|
| grazing | not present |
| firebreak | not present |
| road or track/s | not present |
| drainage or diversion | not present |
| cropping | not present |
| feral animals | not evident |
| timber removal | significant |
| active erosion | not present |
| invasive weeds | minor |
| flood or fire damage | not present |

other disturbance

## site-managed species

BioNet Atlas record of site-managed species with 250 metres of road reserve for this reach

absent

Save Our Species site listed for Wagga Wagga LGA

## wetlands

Ramsar, DIWA, SEPP 14 or other wetland

> 2 hectares

# native species

| scientific name | | common name | stratum |
|---|---|---|---|
| ***Eucalyptus*** | ***albens*** | White Box | upper |
| ***Eucalyptus*** | ***blakelyi*** | Blakely's Red Gum | upper |
| ***Eucalyptus*** | ***melliodora*** | Yellow Box | upper |
| ***Eucalyptus*** | ***microcarpa*** | Western Grey Box | upper |
| ***Acacia*** | ***implexa*** | Hickory Wattle | middle |
| ***Brachychiton*** | ***populneus*** | Kurrajong | middle |
| ***Callitris*** | ***glaucophylla*** | White Cypress Pine | middle |
| ***Melia*** | ***azedarach*** | White Cedar | middle |
| ***Bothriochloa*** | ***macra*** | Red Grass | lower |
| ***Chloris*** | ***truncata*** | Windmill Grass | lower |
| ***Dianella*** | ***revoluta*** | Spreading Flax Lily | lower |
| ***Lomandra*** | ***filiformis*** | Wattle Matt-rush | lower |
| ***Rytidosperma*** | ***spp.*** | Wallaby Grass | lower |

City of
Wagga Wagga

# Appendix C

## Wagga Wagga Roadside Vegetation Management Plan— Plant Community Types and threats



Prepared for the City of Wagga Wagga
by CTENVIRONMENTAL

NSW EEC—Artesian Springs Ecological Community in the Great Artesian Basin



NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



NSW EEC—Sandhill Pine Woodland in the Riverina, Murray-Darling Depression and NSW South Western Slopes Bioregions; White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT53: Shallow freshwater wetland sedgeland in depressions on floodplains on inland alluvial plains and floodplains

Low to mid-high sedgeland/grassland dominated by spike rushes including *Eleocharis pallens, Eleocharis acuta, Eleocharis plana* and *Cyperus spp*, along with ferns Nardoo (*Marsilea drummondii*) and *Marsilea costulifera*. Occurs on grey and brown clays including gilgais on low lying flats or depressions on floodplains or on sandplains that regularly flood or fill from local runoff after rain. Distributed throughout the floodplains of the inland plains, particularly in the Darling Riverine Plains Bioregion with small areas

## PCT74: Yellow Box - River Red Gum tall grassy riverine woodland of NSW South Western Slopes … Bioregion

Tall woodland usually about 20 m high dominated by Yellow Box (Eucalyptus melliodora) usually with River Red Gum (Eucalyptus camaldulensis) and sometimes with Buloke (Allocasuarina luehmannii). Occurs on sandy-loam rises on terrace flats on the edge of floodplains of major river systems in south western NSW and in Victoria. Widely distributed but restricted in extent. Located from the western edge of the NSW South-western Slopes Bioregion to the eastern section of the Riverina Bioregion.

## PCT75: Yellow Box - White Cypress Pine grassy woodland on deep sandy-loam alluvial soils of the … western NSW South Western Slopes …

Mid-high to tall woodland dominated by Yellow Box (Eucalyptus melliodora) and White Cypress Pine (Callitris glaucophylla) sometimes with Kurrajong (Brachychiton populneus). This community occurs on well drained, deep, medium and light textured, sandy-loam soils, often on sandy rises, or sandhills on floodplains or on rolling downs. This community has largely been eliminated by clearing and cropping and is endangered and very poorly represented in protected areas.

**NSW EEC—Inland Grey Box Woodland in the Riverina, NSW South Western Slopes Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions; EPBC Act CEEC—Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions**



## PCT76: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes …

Tall woodland to 25 m high dominated by Western Grey Box (Eucalyptus microcarpa) often as the only tree species often occupying 90% of the canopy cover but may include Yellow Box (Eucalyptus melliodora), White Cypress Pine (Callitris glaucophylla) and minor Buloke. Occurs on texture contrast red or brown earths or grey clay soils (that may be gilgaied) on undulating alluvial plains in the predominantly winter rainfall belt of south-central western NSW with an average annual rainfall between 550 and 450 mm. Mainly restricted to the eastern section of the Riverina Bioregion and the western section of the NSW South-western Slopes Bioregion.

**NSW EEC—Inland Grey Box Woodland in the Riverina, NSW South Western Slopes Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions; Mallee and Mallee-Broombush dominated woodland and shrubland, lacking Triodia, in the NSW South Western Slopes Bioregion; EPBC Act CEEC—Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions**



## PCT80: Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes …

Tall woodland up to 25 m high but averaging about 20m co-dominated by Western Grey Box (Eucalyptus microcarpa) and White Cypress Pine (Callitris glaucophylla) with the pine tending to be shorter than the eucalypts. Other trees may include Yellow Box (Eucalyptus melliodora), Buloke (Allocasuarina luehmannii), Pittosporum angustifolium and Kurrajong (Brachychiton populneus). Occurs on sandy-loam to clay-loam soils on alluvial or stagnant alluvial plains in the predominantly winter rainfall belt of southern-central NSW with an average annual rainfall of between 400 to 550 mm. Mainly restricted to the eastern section of the Riverina Bioregion and the western section of the NSW South-western Slopes Bioregion.

**NSW EEC—Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions**



## PCT110: Western Grey Box - Cypress Pine shrubby woodland on stony footslopes in the NSW South Western Slopes …

Mid-high woodland dominated by Western Grey Box (Eucalyptus microcarpa) with Black Cypress Pine (Callitris endlicheri) and sometimes White Cypress Pine (Callitris glaucophylla). Occurs on stony clay or loam colluvial soils on footslopes of low hills or hills on sloping terrain sometimes with rock outcropping. These soils are often derived from sandstones. Distributed mainly on the NSW South-western Slopes Bioregion with some areas in the Cobar Peneplain Bioregion (Cocoparra National Park). Ecotonal between hill communities upslope and box woodland on the plains.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT250: Derived tussock grassland of the central western plains and lower slopes of NSW

Mid-high to tall grasslands derived from clearing of woodland vegetation in central west NSW. Scattered trees such as Western Rosewood (Alectryon oleifolius subsp. canescens), Kurrajong (Brachychiton populneus subsp. trilobus) and White Cypress Pine (Callitris glaucophylla) may occur. Occurs on loam and clay soils derived from metamorphic or seidmentary rocks and colluvium on slopes and crests of cleared rises and low hills in central NSW mainly in the Cobar and NSW South-western Slopes Bioregions. A derived grassland community with a range of floristic variation.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT266: White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion

Tall woodland with trees to 25 m high dominated by White Box (Eucalyptus albens) often as the only tree species. Kurrajong (Brachychiton populneus subsp. populneus) is often present, particuarly on limestone or rocky ground. Occurs between 300 - 600 m altitude in the 500 - 700 mm rainfall zone, most of which falls in winter. The soils are mainly red-brown earths, red or yellow podsols with some brown and black earths. Mainly occurs on hillslopes in low hill or hill landform patterns in the NSW South-western Slopes Bioregion overlapping into the South Eastern Highlands Bioregion.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT267: White Box - White Cypress Pine - Western Grey Box shrub/grass/forb woodland in the NSW South Western Slopes Bioregion

Tall or mid-high woodland or open woodland with trees to about 15 m high dominated by White Box (Eucalyptus albens), White Cypress Pine (Callitris glaucophylla) and often Western Grey Box (Eucalyptus microcarpa) and rarely Black Cypress Pine (Callitris endlicheri). Occurs on red-brown loamy soils or loamy sandy soils derived from sedimentary or volcanic rocks on hillslopes and hillcrests or parna soils on low rises in undulating low hills landscapes in the mid-western part of the NSW South-western Slopes Bioregion.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT268: White Box - Blakely's Red Gum - Long-leaved Box - Nortons Box - Red Stringybark grass-shrub woodland on shallow soils on hills in the NSW South Western Slopes Bioregion

Tall to mid-high woodland or open forest dominated by White Box (Eucalyptus albens), Blakely's Red Gum (Eucalyptus blakelyi), Long-leaved Box (Eucalyptus goniocalyx) and Red Stringybark (Eucalyptus macrorhyncha) and often with Red Box (Eucalyptus polyanthemos). Some areas may contain occasional Mugga Ironbark (Eucalyptus sideroxylon). Occurs on shallow clay or loamy clay soils derived from fine grained sedimentary, metamorphic or igneous substrates on hillcrests hillslopes in low hill and hill landform patterns in the upper slopes sub-region of the NSW South-western Slopes Bioregion.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT276: Yellow Box grassy tall woodland on alluvium or parna loams and clays on flats in NSW South Western Slopes Bioregion

Tall grassy woodland dominated by Yellow Box (Eucalyptus melliodora) generally without other tree species or if present they are in low numbers. Occurs on alluvial or aelian (parna) red-brown loam or clay soils on flats on floodplains or plains in the NSW South-western Slopes Bioregion generally west of the Hume Highway around Wagga Wagga to Temora and north to Wellington.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT277: Blakely's Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion

Tall woodland to about 20 m high dominated by Blakely's Red Gum (Eucalyptus blakelyi) and Yellow Box (Eucalyptus melliodora). Blakely's Red Gum or Yellow Box vfary in their dominance and either can be absent in some places grading into areas with more Apple Box (Eucalyptus bridgesiana), Long-leaved Box (Eucalyptus goniocalyx) and rarely Eucalyptus microcarpa. Shrubs are sparse or absent and may include Acacia dealbata. Occurs on flats, footslopes and hillslopes mainly in the upper slopes sub-region of the NSW South-western Slopes Bioregion mainly east of Wagga Wagga.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT347: White Box - Blakely's Red Gum shrub/grass woodland on metamorphic hillslopes in the mid-southern part of the upper slopes sub-region of the NSW South Western Slopes Bioregion

Mid-high to tall woodland or open forest dominated White Box (Eucalyptus albens), Blakely's Red Gum (Eucalyptus blakelyi) with Red Stringybark (Eucalyptus macrorhyncha) and occasionally Mugga Ironbark (Eucalyptus sideroxylon). Occurs on shallow, often stony clay loam soils mainly derived from fine-grained metamorphic rocks on hillslopes and gullies in hill landscape patterns in the central part of the upper slopes sub-region of the NSW South-western Slopes Bioregion, generally north of the Murray CMA area. Mostly cleared and therefore a threatened community.

NSW EEC—White Box Yellow Box Blakely's Red Gum Woodland; EPBC Act CEEC—White Box Yellow Box Blakely's Red Gum Woodland



## PCT352: Red Stringybark - Blakely's Red Gum hillslope open forest on meta-sediments in the Yass - Boorowa - Crookwell region of the NSW South Western Slopes Bioregion …

Mid-high open forest or woodland dominated by Red Stringybark (Eucalyptus macrorhyncha) and Blakely's Red Gum (Eucalyptus blakelyi) often with Yellow Box (Eucalyptus melliodora) or Long-leaved Box (Eucalyptus goniocalyx). Occurs on shallow, red clay soils derived mainly from metamorphic substrates on hillslopes in a hill landform pattern in the upper slopes sub-region of the NSW South-western Slopes Bioregion … Mainly cleared and over-grazed, therefore consider to be a threatened community. Grades into Blakely's Red Gum - Yellow Box grassy woodland (PCT277) on better soils on flatter country and into other Red Stringybark dominated communities on poorer soils and ridges.

# Comprehensive list of threats to Wagga Wagga EECs

adapted from BioNet Vegetation Information System (NSW OEH 2018)

| | |
|---|---|
| Climate change | Alteration of habitat structure, composition, resource availability; |
| | Uncertainty as to appropriate provenance required in a changing climate, and lack of appropriate seed and planting stock to assist in rehabilitation. |
| Disease | Eucalypt dieback; Tree death from over abundant leaf eating insects and other factors. |
| Disturbance | Disturbance from recreational users; Human disturbance by off road vehicles, camping, other recreational activities and dumping. |
| | Disturbance from infrastructure installation and maintenance |
| | Agricultural chemical application (fertiliser/pesticides); Increased nutrient status due to application of fertilisers to native groundcover. |
| Fire | Inappropriate fire regime; Altered fire regimes. |
| Habitat loss | Firewood collection; Harvesting of firewood (either living or standing dead, including material on the ground) and collection of on-ground woody debris. |
| | Habitat fragmentation; Removal of native ground layer in box-gum woodland remnants where trees have been partially or fully removed. |
| | Rural/residential/industrial development; Habitat loss, degradation and fragmentation from agricultural, forestry, mining, infrastructure and residential development. |
| Lack of knowledge | Lack of knowledge of threats; Lack of community knowledge and appreciation of White Box Yellow Box Blakely's Red Gum Woodland and their component threatened species. |
| Overgrazing | Feral herbivores; Degradation by over grazing and trampling by introduced and native herbivores resulting in losses of plant species and structural diversity (simplification of the understorey and groundlayer and suppression of overstorey regeneration), erosion and other soil changes (e.g. loss of cryptogams, increased nutrient status). |
| Pest animals | Feral honeybees; Occupation of tree hollows by feral honeybees. |
| | Feral cats; Invasion of remnants by feral cats/foxes results in loss or modification of habitat |
| | Mixed feral browsers; Degradation of remnants by feral pest animals resulting in the loss or modification of habitat and predation of native fauna that are part of the White Box Yellow Box Blakely's Red Gum Woodland TEC. |
| Weeds | Mixed weeds; Degradation of remnants by non-native plant species, including priority weeds, exotic pasture species and environmental weeds, including garden escapes, olives and pines. |

## Box Gum Woodland

Threatened Community Profile ID: 10837

TEC Name: White Box Yellow Box Blakely's Red Gum Woodland

# Comprehensive list of threats to Wagga Wagga EECs

| | |
|---|---|
| Demographic threats | Restricted distribution; Poor representation in isolated conservation reserves. |
| Disturbance | Agricultural chemical application (fertiliser/pesticides); Death to vegetation caused by herbicide drift |
| Fire | Inappropriate fire regimes; stubble burning |
| Habitat loss | Firewood collection; Illegal firewood collection |
| | Habitat fragmentation; Degradation of the landscape in which remnants occur including soil acidification, salinisation, extensive erosion scalding and loss of connectivity. |
| | Rural/residential/industrial development; Clearing for mining, infrastructure, and agricultural development and degradation activities such as grazing |
| | Vegetation clearing for agricultural purposes; Small scale clearing for cropping, pasture improvement or other developments. |
| | Vegetation clearing for agricultural purposes; Small scale clearing for cropping, pasture improvement or other developments. |
| Lack of knowledge | Lack of distributional information; Lack of distributional knowledge |
| Native species | Noisy miners; Aggressive exclusion of small woodland birds from overabundant Noisy Miners |
| Overgrazing | Domestic stock; Grazing by domestic stock |
| Pest animals | Feral cats; Invasion of remnants by feral cats/foxes results in loss or modification of habitat |
| | Mixed feral browsers; Overabundant native herbivores e.g. macropods, and introduced herbivores eg feral goats and rabbits, leading to loss of floristic structure and ecological function |
| | Rabbits; Grazing by introduced European Rabbits |
| Weeds | Invasive grasses; Competition of native understorey with invasive grasses and other weeds |
| | Mixed weeds; Invasion and establishment of weed species changing community structure and floristic composition |

adapted from BioNet Vegetation Information System (NSW OEH 2018)

## Inland Grey Box Woodland

Threatened Community Profile ID: 20072

TEC Name: Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions

# Comprehensive list of threats to Wagga Wagga EECs

| | |
|---|---|
| Demographic threats | Geographic decline of the community as a consequence of small-scale clearing continues. |
| | Low genetic diversity/inbreeding; Lack of seed store. |
| | Poor recruitment; Lack of regeneration partly due to isolation and predation by grazers. Seed production is intermittent and sometimes it is mostly male trees in the remnants and hence not getting seed production. Successful recruitment is dependent on good seasonal conditions (e.g. above average rainfall) otherwise seedlings may not very long lived. |
| Disturbance | Forestry activity; Selective thinning in forest areas leading to less diversity and stands of even aged trees. |
| | Soil compaction by machinery and domestic stock; Trampling by domestic stock causing the breaking up of the biological soil crust leading to erosion. |
| Fire | Fire destroying key habitat; Altered fire regime which leads to impacts from burning as this TEC does not require burning. |
| Habitat loss | Fragmentation |
| Land management | Uncertainty of future land management practices; Change in land use practices resulting in habitat loss and/or alteration. |
| Native species | Competition with native species; Grazing in areas where there is regeneration by native herbivores. |
| Overgrazing | Domestic stock; Grazing in areas where there is regeneration |
| | Feral herbivores; Grazing in areas where there is regeneration and increased nutrients from rabbits and hares. |
| | Overgrazing by domestic livestock and feral herbivores |
| Pest animals | Feral goats; Browsing impacts from feral goats. |
| Weeds | African boxthorn (Lycium ferocissimum); Competition from African Boxthorn (Lycium ferocissimum) causing death of older trees. |
| | Mixed weeds; Competition from invasive grasses |

adapted from BioNet Vegetation Information Svstem (NSW OEH 2018)

## Sandhill Pine Woodland

Threatened Community Profile ID: 20083

TEC Name: Sandhill Pine Woodland in the Riverina, Murray-Darling Depression and NSW South Western Slopes bioregions



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# Appendix D

## Wagga Wagga Roadside Vegetation Management Plan— Rapid Conservation Assessment Method



Prepared for the City of Wagga Wagga
by CTENVIRONMENTAL

Guidelines for undertaking the Roadside Assessment Method prepared for NSW Local Land Services and Local Government NSW by Ecosure:



# Local Land Services

## Rapid conservation assessment method

Training package and guidelines

NSW GOVERNMENT

This project has been funded by NSW Environmental Trust

REGENERATION SOLUTIONS P/L

Rapid Conservation Assessment Method Training Package and Guidelines
Prepared for NSW Local Land Services

Document and project information:
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# Table of contents

**Introduction** 1
What is the rapid conservation assessment method? 1
Why have the RAM? 1
How will the RAM be applied? 1
Who will implement RAM? 1
Intent of the RAM? 1

**Completing the RAM** 2
TSR / reserve general information 2

**Part A: Conservation status scoring and guide** 4
Vegetation 4
Wetlands 4
Site managed species 5

**Part B: Landscape context** 6
Mitchell landscape 6
Reserve/assessment zone native vegetation 7

**Part C: Vegetation condition** 9
Undertaking the RAM vegetation condition assessment 11
Scoring the RAM vegetation condition assessment 17
The conservation value assessment matrix 17
Additional RAM information to be recorded 18

**Appendix 1: User guides** 20

**TSR data capture collector for ArcGIS on iOS** 21
1. The mobile application 21
2. iOS workflow 21
2.1 Getting started 21
2.2 Going offline 22
2.3 Remove offline map 23
2.4 Editing an assessment point 25
2.5 Creating a monitoring point 28
2.6 Sync data 30

**TSR data capture collector for ArcGIS on Android** 31
1 The mobile application 31
2. Android workflow 31
2.1 Getting started 31
2.2 Going offline 32
2.3 Remove offline map 34
2.4 Editing an assessment point 35
2.5 Creating a monitoring point 37
2.6 Sync data 39

**Appendix 2: Establishing RAM photo monitoring points** 40

**Appendix 3: Conservation value assessment matrix** 43

**Appendix 4: RAM assessment sheets** 45

# Completing the RAM

The RAM is completed using the ESRI Collector for ArcGIS application (app) downloaded on a smart phone or tablet. The app is available free of charge and Appendix 1 has the instructions for download and user guides for either IOS or Android devices. This app will enable the RAM to be completed in the field using a smart device with associated geographic positioning system and where possible, pre-populated landscape information related to TSR or reserves. The app has the capability to operate off line for areas outside mobile range.

An ArcGIS online account is necessary to access the maps and associated data which will enable the RAM to be completed electronically. Applying for ArcGIS online access is done through the Department of Industry BTS unit.

## TSR / reserve general information

This section covers the general information required to be completed at the beginning of the RAM.

Scoring the RAM is based on three broad vegetation structures, i.e. forest/woodland, shrubland and grassland. Identification of the correct vegetation structure from Table 1 below enables the site to be categorised into either naturally treed, shrubland/heathland or grassland which prompts the correct vegetation condition (Part C) scoring to use.

Once the major vegetation structure is determined, this will be used to select either naturally treed, shrubland/ heathland or grassland vegetation structure .

Refer to attached link for further information www.anbg.gov.au/aust-veg/veg-map.html.

***Table 1. Major Vegetation structure modified from Specht***

| | Percentage canopy cover | | | |
|---|---|---|---|---|
| **Life form and height of tallest stratum** | **> 70 %** | **> 30 %- 70 %** | **(10-30 %)** | **(< 10 %)** |
| **Trees > 8 m** | Closed forest | Open forest | Woodland | Open-woodland |
| **No trees, shrubs < 8 m** | | Shrubland/ heathland | Open shrubland/heathland | |
| **Grassy with sparse or no shrubs or trees** | | | | Grassland |

- Assessor name - name of field assessor
- Date – date of field assessment
- Reserve name – record if known
- Crown reserve number – record
- Roadside name – record
- Road number –record if known
- Side of road – If the reserve is divided by a road, is the assessment zone on both sides of road? If not, select the direction to the assessment zone (e.g. zone lies to the NE of road).
  Both or N NE E SE S SW W NW.
- Vegetation formation – verify the vegetation formation as per vegetation spatial data, if known, for that region in the reserve/assessment zone. Table 2 below categorises the 16 NSW vegetation formations into broad vegetation structures consistent with RAM scoring.



***Table 2. NSW Vegetation Formations in basic structure categories***

| NSW Vegetation Formation | Structure | | | |
|---|---|---|---|---|
| | **Treed** | **Shrubland** | **Grassland** | **Other** |
| Alpine complex | | | | ✓ |
| Arid shrubland (acacia) | | ✓ | | |
| Arid shrubland (chenopod) | | ✓ | | |
| Dry sclerophyll (shrub/grass) | ✓ | | | |
| Dry sclerophyll (shrubby) | ✓ | | | |
| Forested wetlands | ✓ | | | |
| Freshwater wetlands | | | | ✓ |
| Grasslands | | | ✓ | |
| Grassy woodlands | ✓ | | | |
| Heathlands | | ✓ | | |
| Rainforest | ✓ | | | |
| Saline wetlands | | | | ✓ |
| Semi-arid woodlands (grassy) | ✓ | | | |
| Semi-arid woodlands (shrubby) | ✓ | | | |
| Wet sclerophyll (grassy) | ✓ | | | |
| Wet sclerophyll (shrubby) | ✓ | | | |

- Vegetation class - verify the vegetation class as per vegetation spatial data, if known, for that region in the reserve/assessment zone.
- Plant community/No. if known – verify as per vegetation spatial data, if known, for that region.
- Reserve/assessment zone identification (GPS coordinates) – location automatically recorded when picture taken at the PMP. Refer to the RAM PMP establishment document for more information.

# Part A: Conservation status scoring and guide

Part A of the RAM relates to environmental legislation at state and federal level that prioritise the protection of flora, fauna and ecological communities.

Extra protection is generally directed towards species and communities of high conservation status, such as those that are threatened or have exceptional ecological values.

The score from Part A provides the information to complete the first column of the conservation value assessment matrix (refer to the RAM scoring and conservation matrix Table 5).

## Vegetation

This section establishes the rarity of the vegetation community present and hence its priority for protection.

| Status | Score |
|---|---|
| Threatened ecological community/over-cleared veg community | 2 |
| Not present | 0 |
| Name if known | |

Is the vegetation in the reserve a threatened ecological community (TEC), or an over-cleared vegetation community, i.e. over 70 % of pre-European extent has been cleared? Score 2

Record the name of the TEC from the desktop geographic information system (GIS) data from inferred mapping. Photo examples of these vegetation communities should be gathered at a regional scale to use in the field to assist in verifying the spatial vegetation data. The TEC will be validated following field assessment and be noted in the field as present as mapped or present not mapped..

For more information visit: www.environment.nsw.gov.au/projects/biometric-dataset.htm.

## Wetlands

Wetlands have high essential biodiversity values and their protection is a high conservation priority.

Wetland definition - wetlands are low points/depressions in the landscape that hold water during wet periods. During dry periods when wetlands may be dry they can be identified by their sunken landform and/or the presence of hardy perennial wetland plants like sedges, rushes and reeds.

| Status | Score |
|---|---|
| RAMSAR/DIWA/SEPP 14 etc | 2 |
| Other wetland > 2 ha | 1 |
| Not present (< 2ha) | 0 |

Is there a wetland present? If so, is the site mapped as a RAMSAR wetland, a Directory of Important Wetlands of Australia (DIWA) or a SEPP 14 coastal wetland? Score 2

Otherwise, if a wetland(s) present is it > 2ha in area? Score 1

A wetland size of 2 ha was chosen for the RAM assessment scoring threshold because it is relatively easy to identify remotely and in the field.

For more information visit: www.environment.nsw.gov.au/wetlands/WhereAreWetlands.htm

## Site managed species

Definition of a site-managed species are threatened plants and animals that can be secured by conservation projects at specific sites.

| Status | Score |
|---|---|
| Present | 2 |
| Absent | 0 |

Has a site-managed species been recorded in or within 250 m of the reserve?

The presence of site managed species (which are mostly threatened plant species) is based on data provided by OEH.

**Conservation status score = Threatened = 2+, Depleted =1, Common = 0**

# Part B:
# Landscape context

Landscape context (Part B) considers the significance of the reserve in relation to the surrounding landscape attributes which include:

- Proportion of Mitchell landscape remaining
- The vegetation patch such as the size and shape of a patch
- Connectivity to other patches
- The proportion of native vegetation in the neighbouring area.

The score from Part B provides the information to complete the second column of the conservation value assessment matrix Table 5.

**Note: Sites that consist of only non-native vegetation score = 0**

## Mitchell landscape

Mitchell landscapes are used in NSW as a method of determining current extent of native vegetation and are based on areas of land with similar geomorphology, soil and broad vegetation type.

The Mitchell Landscapes were mapped in 2002 and are used for a variety of purposes including the determination of over-cleared landscapes (OCL).

For more information visit: www.environment.nsw.gov.au/resources/conservation/EcosystemsMethodology.pdf

| Status | Score |
|---|---|
| > 70 % cleared | 10 |
| 30-70 % cleared | 5 |
| < 30 % cleared | 0 |

Use spatial information in the app or desktop mapping to determine the percentage of native vegetation cleared in the mapped Mitchell landscape.

**Reserve/assessment zone vegetation width** (width within assessment zone)

| Vegetation width | Score |
|---|---|
| > 100 m | 10 |
| 21-100 m | 6 |
| 5-20 m | 2 |
| < 5 m | 0 |

Determine the average width of native vegetation in the reserve/assessment zone only, from imagery in the app or via desktop mapping. See Figure 1.

**Reserve/assessment zone total native vegetation width** (within and adjoining the reserve/assessment zone)

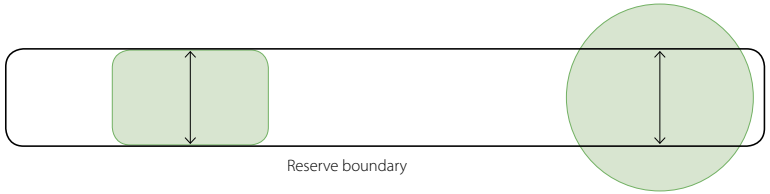
| Native vegetation width | Score |
|---|---|
| > 100 m | 10 |
| 20-100 m | 6 |
| < 20 m | 0 |

Determine the average width of the total native vegetation patch (reserve/assessment zone plus native vegetation connected to zone) from imagery in the app or via desktop mapping. See Figure 1.

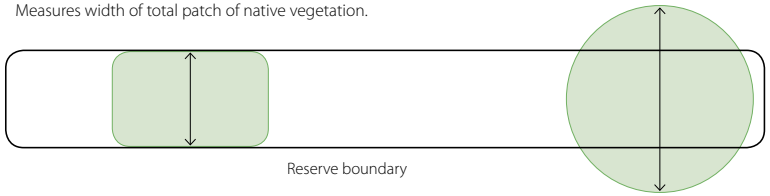


***Figure 1: Assessment of landscape context attributes – width measures***

a. Assessment zone native vegetation width:
Measures width of native vegetation in reserve only.




b. Total native vegetation width:
Measures width of total patch of native vegetation.







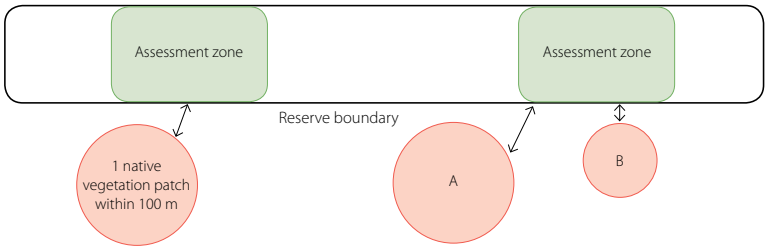
## Reserve/assessment zone native vegetation within 100 m

| Native vegetation within 100 m | Score |
|---|---|
| > 5 ha within 100m | 10 |
| 1-5 ha | 5 |
| < 1 ha | 0 |

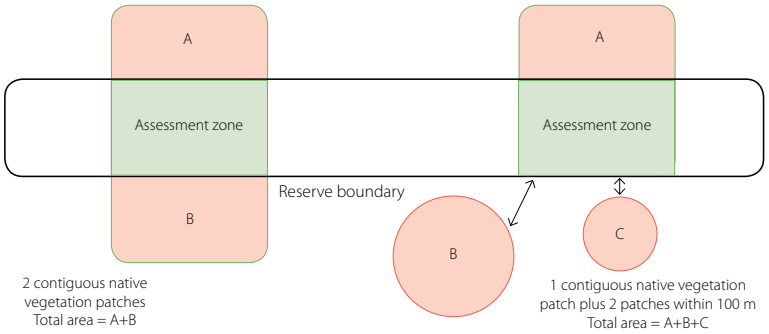
Determine the total area of native vegetation patches that are within 100 m of the reserve/assessment zone from imagery in the app or via desktop mapping. Include patches that are connected and those within 100 m of the reserve/assessment zone. Exclude patches that are smaller than 1 ha in size. See Figure 2.

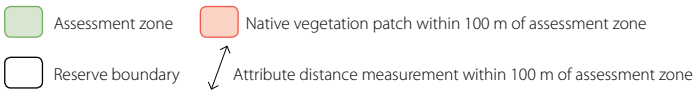
***Figure 2: Assessment of landscape context attributes – area of native vegetation patches within 100 m of assessment zone***

a. Examples where assessment zone is not connected to nearest native vegetation patch (i.e. not contiguous). Measure total area of all native vegetation patches that are within 100 m of assessment zone. Exclude patches < 1 ha.




b. Examples where assessment zone is connected to nearest native vegetation patch (i.e. contiguous). Measure total area of contiguous native vegetation patches plus other patches that are within 100 m of the assessment zone. Exclude patches < 1 ha.




Figures 1 and 2 from Ecosure Report Version 5 February 2017

Landscape context score = Large and or connected = 22+, Moderate = 10-21, Small or disconnected = 0-9



# Part C: Vegetation condition

Note: Part C of the RAM assessment is based on the presumed natural type of the vegetation that occurred on a site (e.g. pre-European). For example, many areas have had their overstorey vegetation (mostly) removed resulting in only remnant scattered trees or shrubs over a more or less modified derived native grassland. These modified sites are to be assessed in Part C as being either naturally treed or shrubland for scoring purposes, with only natural grasslands using the grassland scoring.

Advice and references for natural grasslands will be provided at a regional scale through supplementary materials and fact sheets.

The vegetation condition assessment (Part C) is the field assessment component of the RAM and involves the application of a standard method to score a range of vegetation elements characteristic of the site. The RAM vegetation condition assessment is:

- A practical method that was developed to enable, with adequate training, all relevant field staff and others involved in native vegetation and land management, the ability to undertake assessment.
- Broadly similar to previous rapid assessments undertaken on TSRs and some roadside reserves and seeks to capture important growth stage characteristics e.g. tree and shrub regeneration that are difficult to identify remotely.

The basic competencies required will be the ability to use existing GIS spatial data systems and in the field the application of basic vegetation identification skills (e.g. main tree species and whether the ground layer is mostly native perennial grass or weedy).

Initially, the assessor is required to go through a simple decision pathway to determine which method of vegetation condition scoring is used, being:

1. Decide which of the 16 NSW vegetation formations in NSW does the site fall into. Refer to www.environment.nsw.gov.au/research/Visclassification.htm for more information.
2. Apply the correct vegetation structure assessment (Table 1) into either naturally treed, shrubland/heathland or grassland.

The same form is used for all assessments and scoring occurs automatically based on the chosen vegetation structure category selected. Sites are scored for either naturally treed, for shrubland/heathland with the large tree component excluded and for grasslands **with the** vegetation structure and large tree components excluded.

The field assessment score provides a vegetation condition rating at a point in time which can be, along with photo points, monitored over time to determine vegetation condition change. The condition assessment informs a modified Vegetation Assessment State and Transition (VAST) rating shown in Table 3.

The modified VAST model is used because it summarises the degree of change that has occurred to native vegetation relative to its estimated undisturbed condition. It is a useful model for land managers because it also incorporates an estimate of the regenerative capacity of modified native vegetation.

*For further reading see:*

*Thackway R and Lesslie R (2006). Reporting vegetation condition using the Vegetation Assets, States, and Transitions (VAST) framework. Ecological Management and Restoration 7(Supp. l) 1 53-62.*

*Table 3. Modified VAST indicative table for woodland habitat*

| VAST | | | | | |
|---|---|---|---|---|---|
| **Condition rating** | **Vegetation cover** | **Regeneration potential** | **Trees and shrubs** | **Ground layer** | **Attributes** |
| **High quality** | **RESIDUAL** Native vegetation community near natural | Excellent potential for natural regeneration | All vegetation layers (stratum) present | Ground layer has high species diversity | Very rare, only small fragments remain |
| | **MODIFIED A** Native vegetation community intact | Good potential for natural regeneration | Most vegetation layers present | Ground layer has mostly high species diversity | Best examples of local native vegetation<br>Few weeds are present |
| | **MODIFIED B** Native vegetation community mostly intact | Reasonable potential for natural regeneration | Overstorey vegetation present | Ground layer has low species diversity | Good examples of local native vegetation<br>Weeds < 50 % and mostly annual pasture grasses and herbaceous weeds |
| **Moderate quality** | **TRANSFORMED A** Native vegetation community significantly altered | Some potential for natural regeneration | Overstorey vegetation mostly present | Ground layer has low species diversity | Moderate examples of local native vegetation<br>Weeds > 50 % of groundlayer |
| | **TRANSFORMED B** Native vegetation community significantly altered | Little potential for natural regeneration | Dominant overstorey patchy | Ground layer has few native species<br>Most groundlayer species are absent | Poor examples of local native vegetation<br>Groundlayer dominated by weeds |
| **Low quality** | **REPLACED** Native vegetation replaced | No potential for natural regeneration | Natural vegetation layers absent | Native species absent-sparse | Native species absent-sparse<br>Groundlayer dominated by weeds |



## Undertaking the RAM vegetation condition assessment

Note: Prior to undertaking the RAM vegetation condition assessment, regional training provided by a suitably qualified consultant or Local Land Services staff member is recommended.

The practical measures required to undertake a successful RAM assessment include:

**Site overview and familiarisation**

Where possible traverse the reserve/assessment zone in a vehicle using tracks, and stopping occasionally to look more closely at finer detail (e.g. general level of groundlayer weediness the main overstorey species etc).

**Identifying the vegetation**

Consider the TEC (if present) assigned by the GIS data and note if the information is not correct. If further clarification of the TEC occurrence is required then seek advice from someone with appropriate knowledge of local vegetation communities.

**Characterising the vegetation**

Identify a suitable location to complete and score the vegetation condition assessment and where there is a distinct feature that you want to monitor e.g. tree or shrub regeneration. Refer to Appendix 2 for more information.

**Select assessment/monitoring point(s)**

At least one photo should be taken at each site, preferably with a view of a distinct feature. Its location will automatically be recorded and may become a permanent photo monitoring point. If the site is a TSR, refer to the LLS TSR Monitoring and Audit Strategy for guidance on monitoring requirements for that site.

### Completing the assessment

**Is the TEC spatial layer correct? If not, state correct type(s).**

The TEC spatial layer in Part A of the RAM is derived from inferred mapping and this field assessment provides verification or correction. If further clarification is required then refer to local a list of TECs and their key diagnostic features or seek advice from someone with knowledge of local vegetation communities.

**Vegetation structure**

Vegetation structure can differ across the state and the most appropriate settings should be compiled at a regional level with examples of local Vegetation Formations provided to assist assessors to best answer vegetation structure.

For example, in general, vegetation structure conditions for:

- Treed habitats consist ideally of several components, including trees of several age classes e.g. mature trees – young saplings, more or less scattered shrubs including regrowth and mostly tussocky native grass understorey with native forbs (herbaceous flowering plants).
- Shrubland habitats have an overstorey of more or less tall and dense shrubs with regrowth and an understorey that can vary from tussocky native grass with native forbs through to mostly sub-shrubs and bare ground.
- Natural grassland habitats mostly lack woody plants and consist of tussocky native grass with native forbs.

Four vegetation structure ratings are provided being; intact/natural, mostly intact, partially intact and sparse or absent.

## Assign the most accurate of the four vegetation structure ratings:

| Rating | Vegetation type |
|---|---|
| Intact/natural =6 | All vegetation layers e.g. Mature trees and shrubs, some younger trees and shrubs and regeneration |
| Mostly intact =4 | Most vegetation layers present but missing elements e.g. few mature trees or no shrubs |
| Partially intact =2 | Missing two or more structural layers e.g. large trees, shrubs and regeneration |
| Sparse or absent =0 | Only occasional or no trees or shrubs |

Further information on vegetation structure and assessment is available at www.nrm.gov.au/publications/vegetation-assessment-guide.

These different vegetation structure condition ratings are depicted below in Figures 3-6 using examples from the NSW Riverina and are only indicative in this landscape.

***Figure 3. Intact/natural – all vegetation layers present***



***Figure 4. Mostly intact – Most vegetation layers present***



***Figure 5. Partially intact – Missing 2 or more structural layers***



*Figure 6. Sparse or absent – Only occasional or no trees or shrubs*



## Large trees (mature hollow bearing trees)

Large old trees are irreplaceable habitat elements, especially those with hollows that often take centuries to develop and provide vital habitat resources for many wildlife including parrots, owls, possums and bats. TSRs and roadside reserves are often the best areas for these old trees because they were not actively removed for agriculture.

| Heading | Heading |
|---|---|
| Common | Common =3 |
| Sparse | Scattered or occasional patches = 1 |
| Absent | Absent = 0 |

## Non-indigenous woody weeds and vines

Woody weeds and vines are often invasive and if left uncontrolled can spread throughout natural habitats changing the structure of the vegetation. Early detection and intervention is ideal allowing relatively inexpensive eradication or control.

| Heading | Heading |
|---|---|
| Absent | Absent = 3 |
| Sparse | Scattered or occasional patches = 2 |
| Common/abundant | Common = 0 |



## Groundcover

The quality of the ground cover is very important because its condition often influences the resilience of a site, i.e. its capacity to self-regenerate. Groundcover is made up of two elements weediness and nativeness (native species diversity) as below.

**Weediness # (exotic grass and herbaceous plants)**

The overall cover of grass and herbaceous weeds in the groundlayer has a major influence on the capacity for a site to self-regenerate. The weeds compete for space with preferred native plants and limit opportunities for germination.

| Weediness | Groundcover |
|---|---|
| Sparse | Weeds sparse or patchy throughout = 4 |
| Common in parts | Weeds only common in parts and generally sparse elsewhere = 3 |
| Common throughout | Weeds found commonly throughout =2 |
| Abundant | Weeds dominate groundlayer and native grasses sparse at best =0 |

**Nativeness # (general abundance and species diversity of native understorey)**

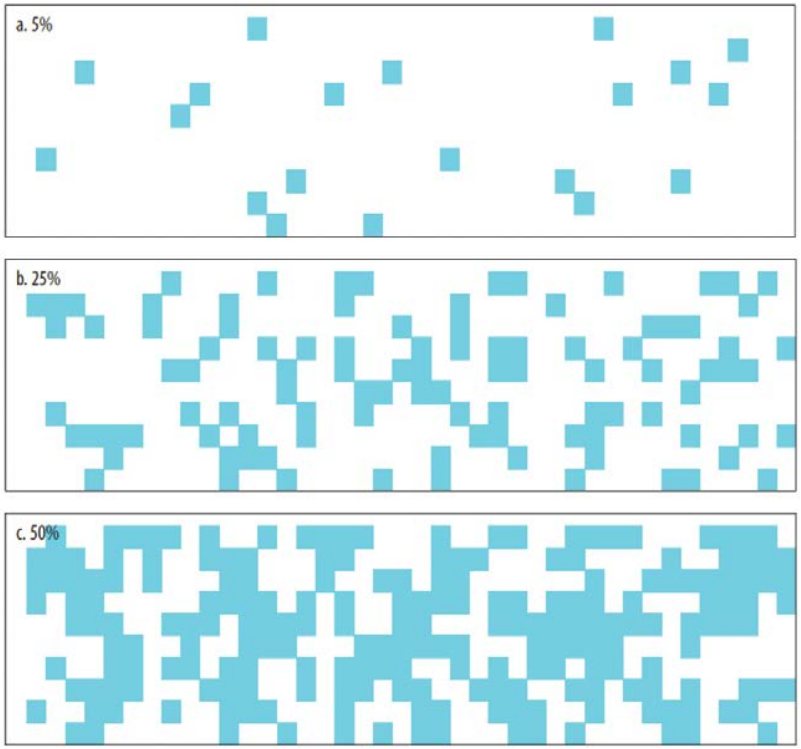
Sites where native species dominate the groundlayer have lower management requirements because it limits weed spread, provides ideal seed bed for native plant germination, provides higher quality feed year-round and compared with exotic pasture grasses has lower fire fuel hazard.

| Nativeness | Groundcover |
|---|---|
| Diverse throughout | Mostly native species with many native grass and forb types (herbaceous flowering plant) = 4 |
| Diverse in patches | Areas with many native grass and native forb types and mostly surrounded by areas of native grass with few species = 3 |
| Few species common throughout | Mostly native grass with few species = 2 |
| Patches only | Patches of native grass amongst otherwise exotic pasture grasses = 1 |
| Absent/sparse | Only scattered or no native grass throughout = 0 |

*Notes:*

1. *For the purposes of rapid assessment field measurements are generally best avoided following wet cool season rains (e.g. winter and early spring) when exotic annual grasses can be prolific and mask the underlying native perennial grass base; and best undertaken in summer or autumn when the annuals have "hayed-off" or as advised by local experts.*
2. *For non-rapid assessment surveys, e.g. general flora and targeted threatened species surveying, spring is the best time to coincide with flowering native forbs.*
3. *Note the abundance ratings applied in the habitat and vegetation values for large trees, non-indigenous woody weeds and vines, groundcover weediness and nativeness of sparse, common, abundant are illustrated in Figure 7.*

*Figure 7. Indicative visual guide of plant density a = sparse, b = common and c = abundant*




Adapted from diagram on page 31 http://weeds.ala.org.au/WoNS/serratedtussock/docs/stbpmm.pdf

## Scoring the RAM vegetation condition assessment

Scoring vegetation condition is divided into three categories determined from the vegetation structure category and vegetation formation assessment into either naturally treed, shrubland/heathland or grassland.

The same format is used for scoring assessments across all categories of vegetation formation. In the case of naturally treed formations all components are included, while for shrubland/heathland the large tree component is excluded and vegetation structure and large tree components are excluded for grasslands.

The total score for the RAM vegetation condition assessment (Table 4) is the sum of all relative component scores above and provides the overall RAM vegetation condition rating of high, moderate or low quality.

Further, the condition assessment score informs a modified Vegetation Assessment State and Transition (VAST) rating shown previously in Table 3.

*Table 4. RAM vegetation condition assessment*

| **Naturally treed vegetation** | |
|---|---|
| HIGH QUALITY: | 17+ = Residual or Modified A; 14-16 = Modified B |
| MODERATE QUALITY: | 9-13 = Transformed A; 6-8 = Transformed B |
| LOW QUALITY: | 0-5 = Replaced |
| Shrublands / heathlands | |
| HIGH QUALITY: | 14+ = Residual or Modified A; 11-13 = Modified B |
| MODERATE QUALITY: | 8-10 = Transformed A; 6-7 = Transformed B |
| LOW QUALITY: | 0-5 = Replaced |
| Grasslands | |
| HIGH QUALITY: | 7+ = Residual or Modified A; 5-6 = Modified B |
| MODERATE QUALITY: | 4 = Transformed A; 3 = Transformed B |
| LOW QUALITY: | 0-2 = Replaced |

## The conservation value assessment matrix

The scores from the three components Part A, B and C of the RAM are integrated into a conservation value assessment matrix calculated automatically in the app, to provide an overall conservation value.

Table 8 in Appendix 3 illustrates the conservation value assessment matrix.

# Additional RAM information to be recorded

Other important information (non-scored) relevant to land management e.g. vegetation and habitat features and threats and disturbances that cannot be determined remotely are also recorded in the field. In many cases the advice to be collected will be informed by local fact sheets which will be provided as part of the training.

Other information recorded as part of RAM field component includes:

## Major weed species present

List the main local weed species for each category e.g. woody weeds and vines, exotic grasses and herbaceous weeds.

## Native species

List using free text:

- Main tree 1-5 species
- Main shrub 1-5 species (if known)
- Main understorey 1-5 genus (if known)

## Other habitat features

Table 6 below, allows the collection of abundance measures of a range of important habitat features that are best recorded in the field.

Tick correct abundance rating e.g. abundant, common, sparse and if absent leave blank.

***Table 6. Habitat features abundance***

| Habitat features | Sparse | Common | Abundant |
|---|---|---|---|
| Tree regeneration – regeneration is defined as a tree with a trunk diameter of less than 10 cm or a canopy height less than 50 % of adult trees. | | | |
| Shrub cover – woody plants, non-eucalypt and usually < 5 m e.g. wattles, saltbush. | | | |
| Shrub regeneration – shrub regeneration is defined as a shrub with a canopy height less than 50 % of adult shrubs. | | | |
| Logs and fallen timber – logs and fallen timber is defined as timber with a diameter greater than 10 cm lying on or adjacent to the ground. | | | |
| Wetlands/springs/gilgais – landforms that hold water during wet periods and are known to be important habitat features. | | | |
| Rocky outcrops – landforms with exposed rock and are known to be important habitat features. | | | |
| River/creek banks – drainage channels. | | | |
| Mistletoe – habitat features important to many wildlife. | | | |
| Cryptogams – non-flowering plants that are known as important indicators of soil crust health e.g. mosses, algae, ferns, lichens, and fungi. | | | |
| Rare plants – rare plants from the local list that are incidentally recorded. Note species in free text. | | | |



## Threats / disturbances

Note with a tick, obvious land management threats and disturbances to assist in local action planning.

***Table 7. Site threats and disturbances***

| Threat/disturbance | Action priority | |
|---|---|---|
| | Minor | Significant |
| Illegal grazing e.g. free feeding | | |
| Illegal firebreak e.g. ploughed fire break | | |
| Illegal track(s) e.g. new earth works | | |
| Illegal drainage e.g. drainage earthworks | | |
| Cropping e.g. ploughed area | | |
| Feral animals e.g. goat browsing | | |
| Timber removal e.g. recently felled trees | | |
| Active erosion e.g. active gullies forming | | |
| Invasive weed e.g. identification and removal of minor infestation | | |
| Flood/fire damage e.g. damaged fences | | |
| Other (list) | | |

## Cultural heritage

Use free text to record any potential cultural heritage observed on the site

## Current management regime

Use free text, if known, to describe comments on grazing, fire and other management practices

# Appendix 2:

## Establishing RAM photo monitoring points



# Establishing RAM photo monitoring points

## What is a photo monitoring? point (PMP)?

PMPs are permanently located using GPS points for photographing the same view over time. PMP photos provide a permanent visual record of a site(s) and are an important tool to evaluate management objectives.

***Figure 8. LLS officer taking regular PMP***



## Why have PMPs?

Establishing a PMP that is well located and is regularly monitored (annually or as determined by the Monitoring and Audit Strategy for your region) coupled with RAM vegetation condition assessments (Part C) over many years on a site is a simple and efficient way to illustrate a distinct feature that you want to monitor such as:

- Tree or shrub regeneration
- Revegetation such as direct seeding or where tree planting has occurred
- Active weed control
- Rabbit harbour destruction
- Areas of erosion.

This enables the land manager to review existing management periodically and adjust management where required to meet the site objectives. See comparison PMP sites illustrated in Figures 9 and 10.

## Where to locate PMPs?

Good PMPs provide:

- Easily recognisable locations with minimal access issues (Proximity to a road or track will aid efficiency for future monitoring).
- Photo views to illustrate a distinct feature that you want to monitor, e.g. a boundary between grazed and un-grazed vegetation, an area subject to weed control, or the growth of revegetation or plants regenerating.
- A permanent distinguishable feature in the photo view to assist in photo comparison.

Try and avoid east-west PMPs because at certain times of year the rising or setting sun can obscure your photo views.

## How to establish PMPs?

Steps to establish PMPs:

1. Determine desired view to illustrate the distinct feature selected e.g. location and direction.
2. Record GPS location via data collection tool and view direction (often automatic depending on the photo software).
3. Establish permanent physical point for easy identification in future (e.g. steel dropper(s)).

***Figure 9. Cox's TSR 2013***



***Figure 10. Cox's TSR 2016***



# Appendix 3:

## Conservation value assessment matrix



# Conservation value assessment matrix

The conservation value assessment matrix below integrates the three components Part A, B and C of the RAM to provide an overall conservation value applicable state wide.

Note this occurs automatically once Part C is completed and all data is uploaded.

***Table 8. Conservation value assessment matrix***

| **Conservation status** | **Landscape context** | **Condition and habitat** | | |
|---|---|---|---|---|
| | | High quality | Moderate quality | Low quality |
| Threatened | Large and/or connected | High HCV | High HCV | Medium MCV* |
| | Moderate | High HCV | Medium MCV | Medium MCV* |
| | Small and disconnected | High HCV | Medium MCV | Medium MCV* |
| Depleted | Large and/or connected | High HCV | Medium MCV | Low LCV |
| | Moderate | High HCV | Medium MCV | Low LCV |
| | Small and disconnected | High HCV | Medium MCV | Low LCV |
| Common | Large and/or connected | High HCV | Medium MCV | Low LCV |
| | Moderate | Medium MCV | Low LCV | Low LCV |
| | Small and disconnected | Medium MCV | Low LCV | Low LCV |

*** Reserves that fall into these three categories will form part of the RAM matrix audit and may be revised in subsequent versions of this guide.**

# Appendix 4:

## RAM assessment sheets

The following RAM assessment sheets illustrate the layout of the digital Collector App used in the RAM.



Linear and Discreet Reserves **Major Vegetation Type** (Grasslands,Shrublands/Heathlands, Treed)

Assessor name | Date

Reserve Name | Crown Reserve Number

Roadside Name | Road Number

Side of Road Both or N NE E SE S SW W NW

Vegetation Formation **FREE TEXT** | Vegetation Class **FREE TEXT** | Plant Community/No. if known **FREE TEXT**

Assessment Zone Identification | GPS Coordinates

Start of Zone | End of Zone

Part A Conservation Status

| **Vegetation** | | **Wetlands** | | **Site Managed Species** | |
|---|---|---|---|---|---|
| TEC/Over cleared veg community | 2 | Ramsar/DIWA/SEPP 14 | 2 | Present | 2 |
| Not Present | 0 | Wetlands (>2ha) | 1 | Absent | 0 |
| Name if known | | None (<2ha) | 0 | | |

TOTAL SCORE =

Threatened = 2+, Depleted =1, Common = 0

Part B Landscape Context (*Note any site with non-native vegetation scores 0*)

| **Mitchell Landscape** | | **Zone Vegetation Width** *(width within assessment zone)* | | **Total Native Vegetation width** *(within and adjoining assessment zone)* | |
|---|---|---|---|---|---|
| >70% cleared | 10 | > 100m | 10 | >100m | 10 |
| 30-70% cleared | 5 | 21-100m | 6 | 20-100m | 6 |
| <30% cleared | 0 | 5-20m | 2 | <20m | 0 |
| | | <5m | 0 | | |

**Native Vegetation within 100m**

| | |
|---|---|
| >5 ha within 100m | 10 |
| 1-5 ha | 5 |
| <1 ha | 0 |

TOTAL SCORE =

Large and or connected = 22+, Moderate = 10-21,
Small or disconnected = 0-9

Part C Condition

| **Vegetation structure** | | **Large trees** | | **Non- indigenous woody/vine weeds** | |
|---|---|---|---|---|---|
| Intact/natural | 6 | Common | 3 | Absent | 3 |
| Mostly intact | 4 | Sparse | 1 | Sparse | 2 |
| Partially intact | 2 | absent | 0 | Common/abundant | 1 |
| Sparse or absent | 0 | | | | |

**Ground Cover**

| **Weediness** | | **Nativeness** | |
|---|---|---|---|
| sparse | 4 | diverse throughout | 4 |
| common in parts | 3 | diverse in patches | 3 |
| common throughout | 2 | few species common throughout | 2 |
| abundant | 0 | patches only | 1 |
| | | absent/sparse | 0 |

TOTAL SCORE =

**Naturally treed vegetation:**
HIGH QUALITY: 17+ = Residual or Modified A;
14-16 = Modified B;
MODERATE QUALITY: 9-13 = Transformed A; 6-8 = Transformed B;
LOW QUALITY:0-5 = Replaced

**Shrublands / Heathlands:**
HIGH QUALITY: 14+ = Residual or Modified A;
11-13 = Modified B;
MODERATE QUALITY: 8-10 = Transformed A;
6-7 = Transformed B;
LOW QUALITY: 0-5 = Replaced

**Grasslands:**
HIGH QUALITY: 7+ = Residual or Modified A; 5-6 = Modified B;
MODERATE QUALITY:
4 = Transformed A; 3 = Transformed B;
LOW QUALITY:
0-2 = Replaced

## Major weed species present

- 1-5 species

## Main tree

- 1-5 species

## Main shrub

- 1-5 species (if known)

## Main understorey

- 1-5 species (if known)

## Other indicators

- Tick if present

| Habitat features | Sparse | Common | Abundant |
|---|---|---|---|
| Tree regeneration | | | |
| Shrub cover | | | |
| Shrub regeneration | | | |
| logs & fallen timber | | | |
| Wetlands/springs/gilgais | | | |
| Rocky outcrops | | | |
| River/creek banks | | | |
| Mistletoe | | | |
| Cryptogams | | | |
| Rare plants | | | |

## Threats/disturbances

| Threats / Disturbances | Impact | |
|---|---|---|
| | Minor | Significant |
| Illegal grazing | | |
| Illegal firebreak | | |
| Illegal track(s) | | |
| Illegal drainage | | |
| Cropping | | |
| Feral animals | | |
| Timber removal | | |
| Active erosion | | |
| Invasive weed | | |
| Flood/fire damage | | |
| Other (list) | | |

## Cultural heritage sites

- Note any significant cultural heritage sites located within the reserve.

## Current management regime

- This can include comments on grazing, fire and other management practices. Note the current and any past management regime, if known.



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