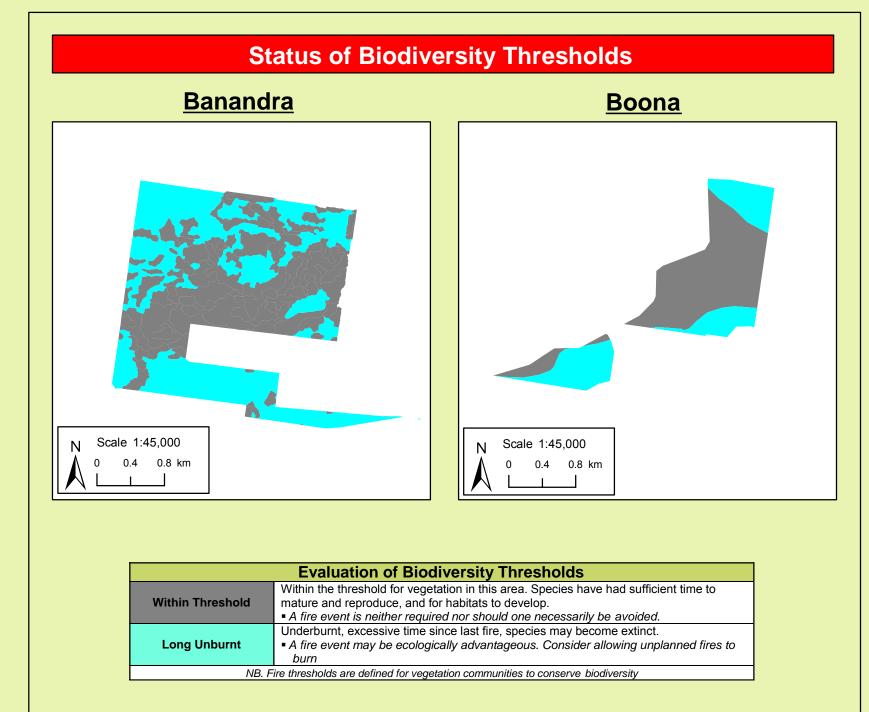
## Murrumbidgee Valley National Park **Banandra & Boona Precincts** Fire Management Strategy 2012 Mapsheet 1 of 1

Office of Environment & Heritage NSW National Parks & Wildlife Service

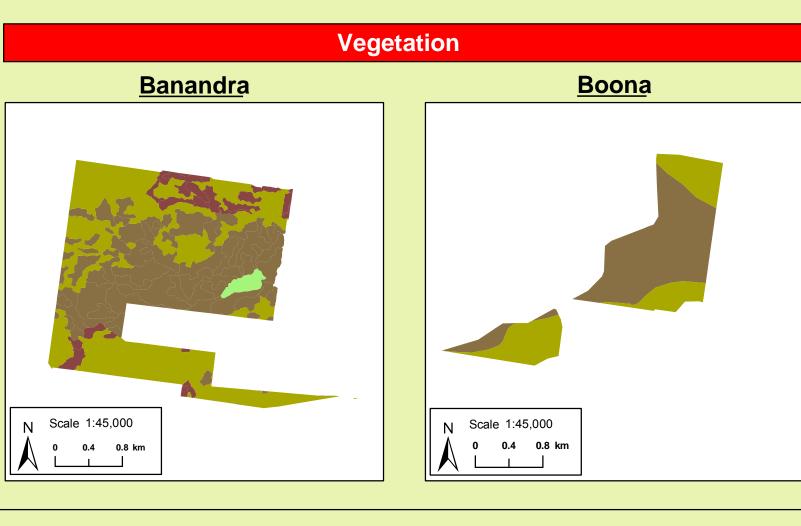
This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans. These data are not guaranteed to be free from error or omission. The NSW National Parks and Wildlife and its employees disclaim liability for any act done on the information in the data and any consequences of such acts or omissions. This document is copyright. Apart from any fair dealing for the purpose of study, research criticism or review, as permitted under the copyright Act, no part may be reproduced by any process without written permission. This strategy is a relevant Plan under Section 38 (4) and Section 44 (3) of Rural Fires Act 1997. The NSW National Parks and Wildlife Service is part of the Office of Environment and Heritage. Published by the Office of Environment and Heritage (NSW), March 2011. Contact: OEH PWG Regional Office: 200 Yambil St. Griffith NSW 2680, P.O. Box 1049 Griffith NSW 2680 ph. 02 6966 8100

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<b>ISBN</b> 978 1 74293 725 0 <b>OEH</b> 2012/0566	Date: August 2012	Version: 1
Map De	Related Documents	
<b>Datum:</b> Geocentric Datum of Australia (GDA) 1994 <b>Projection:</b> Map Grid of Australia (MGA) Zone 55	<b>1:50k Topographic Map:</b> Coleambally 8028-S, <b>1:25k,</b> Tubbo 81284-S (AGD-1966) <b>Scale:</b> Noted scales are true when printed on	OEH Fire Management Manual 2011 - 2012.
Data: Spot Satellite Imagery: 2005.	A1 size paper	

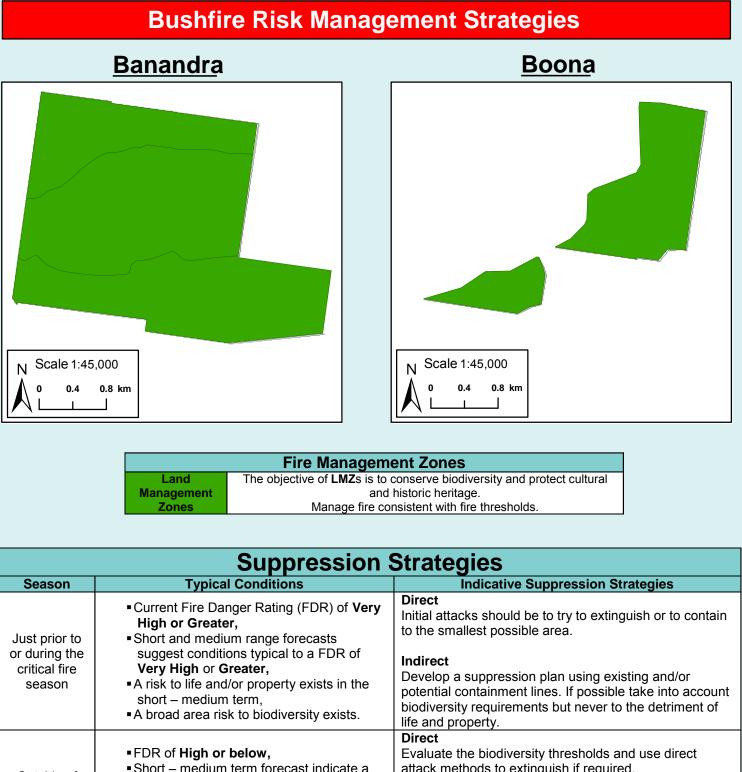
Operational Guidelines			
	Brief all personnel involved in suppression operations on the following issues using the SMEACS format:		
General	Guidelines		
Aerial Water Bombing • The use of bombing aircraft should support containment operations by aggressively at tacking hotspots and spot-overs, • The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circu • Where practicable foam should be used to increase the effectiveness of the water, • Ground crews must be alerted to water bombing operations.			
Aerial Ignition	<ul> <li>Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the prior consent of NPWS Regional Manager, OEH Section 44 delegate or as prescribed in an operational burn plan,</li> <li>Aerial ignition will only be undertaken by accredited navigators &amp; bombardiers,</li> <li>The pattern for aerial ignition will be specified in the IAP during fire suppression,</li> <li>Utilise incendiaries to rapidly burn out large areas where required.</li> </ul>		
Back-burning	<ul> <li>Temperature and humidity trends must be monitored carefully to determine the safest times to implement back -burns. Generally, when the FDI is Very High or greater, back-burning should commence when the humidity begins to rise in the late afternoon or early evening, with a lower FDI back-burning may be safely undertaken during the day,</li> <li>Where practicable, clear a 1m radius around dead and hollow bearing trees adjacent to containment lines prior to back -burning, or wet down these trees as part of the back-burn ignition,</li> <li>Use parallel containment lines when applicable,</li> <li>All personnel must be fully briefed before back-burning operations begin.</li> </ul>		
<ul> <li>Command &amp; On the arrival of other combatant agencies, the initial incident controller will consult with regard to the ongoing comincident management team requirements as per the relevant BFMC Plan of Operations,</li> <li>Where OEH is not the first responding fire authority to arrive at a fire on OEH-managed lands, a competent officer authority will direct fire management activities until a competent OEH officer assumes control (unless prior agreen made).</li> </ul>			
Containment Lines	<ul> <li>Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact,</li> <li>For new containment lines IMT to liaise with and receive consent from a Senior NPWS officer prior to construction,</li> <li>Use parallel containment lines when applicable,</li> <li>All containment lines not required for other purposes should be closed at the cessation of the incident,</li> <li>All personal involved in containment line construction should be briefed on both natural and cultural h eritage sites in the location,</li> <li>Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines contained within the RFMS.</li> </ul>		
Earthmoving Equipment	<ul> <li>Earthmoving equipment may only be used with the prior consent of a senior NPWS officer, and then only if the probability of its success is high,</li> <li>Earthmoving equipment must always be guided and supervised by an appropriately experienced person, and accompanied by a support vehicle. When engaged in direct or parallel attack this vehicle must be a fire fighting vehicle,</li> <li>Containment lines constructed by earthmoving equipment should consider the protection of drainage features, observe the Threatened Species and Cultural Heritage Operational Guidelines, and be surveyed, where possible, to identify unknown cultural heritage sites,</li> <li>Earthmoving equipment must not leave tracks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS,</li> <li>Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate,</li> <li>Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager.</li> </ul>		
Fire Advantage Recording	• All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.		
Fire Suppression Chemicals	<ul> <li>Use of wetting and foaming agents (surfactants) is permitted on the reserve,</li> <li>The use of fire retardants are only permitted with the prior consent of the senior NPWS officer and should be avoided where reasonable alternatives are available,</li> <li>Exclude the use of surfactants and retardants within 50m of watercourses, dams and swamps,</li> <li>Areas where fire suppression chemicals are used must be mapped and the used product's name recorded,</li> <li>The Threatened Species Operational Guidelines are to be observed.</li> </ul>		
Rehabilitation	Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.		
<ul> <li>The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression a prescribed burning operations,</li> <li>If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified,</li> <li>Smoke management must be in accordance with relevant RTA traffic management guidelines.</li> </ul>			
Structural Fire Fighting	<ul> <li>OEH personnel are not trained in structural fire fighting and must not enter a structure in order to undertake structural fire fighting,</li> <li>Fire suppression activities may be undertaken from outside a structure in accordance with the policies in the NPWS FMM, in order to protect a built asset.</li> </ul>		
Visitor Management	<ul> <li>The reserve may be closed to the public during periods of extreme fire danger Prescribed burning or during wildfire suppression operations.</li> </ul>		
WARNINGS	Beware of overhead powerlines.		



	Vegetation Map Legend		
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour
Freshwater Wetlands	Shallow Swamp	An interval between fire events less than 10 years and greater than 35 years should be avoided.	In periods of high ephemeral fuel loads the wetlands pose a risk of
Semi-arid Woodlands (Grassy sub- formation)	Black Box Grassy Open Woodland Wetland	An interval between fire events less than 9 years should be avoided. There is no maximum interval between fire events specified for this vegetation type as there was insufficient data to give definite intervals. Fire should be avoided where Chenopod species occur. Two fires in the same area in a period of less than 10 years apart may remove younger Black Box trees.	extreme fire intensities, hot – fast moving fires and rapid change in direction associated with wind. These vegetation communities will generally not carry fire unless there are high ephemeral fuel loads, which generally occur after flooding events. In years of high ephemeral fuels, landscape fires are possible as fire potential will be very high to extreme, characterised by spotting from Black Box and River Red Gum communities and fast moving fires in other communities.
Semi-arid Woodlands (Shrubby sub- formation)	Yellow Box/White Cypress Pine Grassy and Open Woodlands	An interval between fire events less than 15 years should be avoided. There is no maximum interval between fire events specified for this vegetation type as there was insufficient data to give definite intervals.	The Cypress Pine Woodlands generally occur on source-bordering dunes and the potential rate of spread would be low due to low overall fuel hazard. Fire runs are likely to slow down when entering this vegetation. Grassy areas will behave as below.
Grassland	Native Grassland Complex)	An interval between fire events less than 3 years and greater than 10 years should be avoided.	High intensity fast moving fire once grasses have cured. Fire behaviour is dominated by winds, both speed and direction. Even in very low fuel, grass fires can erratic and fast moving. In ephemeral years intensity will be higher and in drought years minimal growth will result in moderate fire behaviour but potentially still fast moving depending on weather conditions at the time.
Fire History	story Wildfires are generally attributed to humans, either from escaped campfires, discarded cigarettes or matches or deliberate ignitions. A lowe number of fires can be attributed to lightning strikes. The fire history data for this area is inc omplete.		
Ephemeral Conditions			
Drought Conditions			



	Th
Site	
Note	An aboriginal sites survey i consideration in engaging is required.
FA1	<ul> <li>Utilise mosaic burning an</li> </ul>
FA4	<ul> <li>Utilise mosaic burning, pr</li> </ul>
FA7	Exclude fire from habitat



Short – medium Outside of continuing FDR the critical No risk to life or fire season short-medium f Only small area

## hreatened Sites Guidelines

Guidelines

Aboriginal Cultural Heritage Site Management is yet to be conducted for this reserve (as of August 2012). Therefore aboriginal sites may be present and a Senior NPWS Officer or Aboriginal Sites Officer prior to hazard reduction and wildfire suppression activities

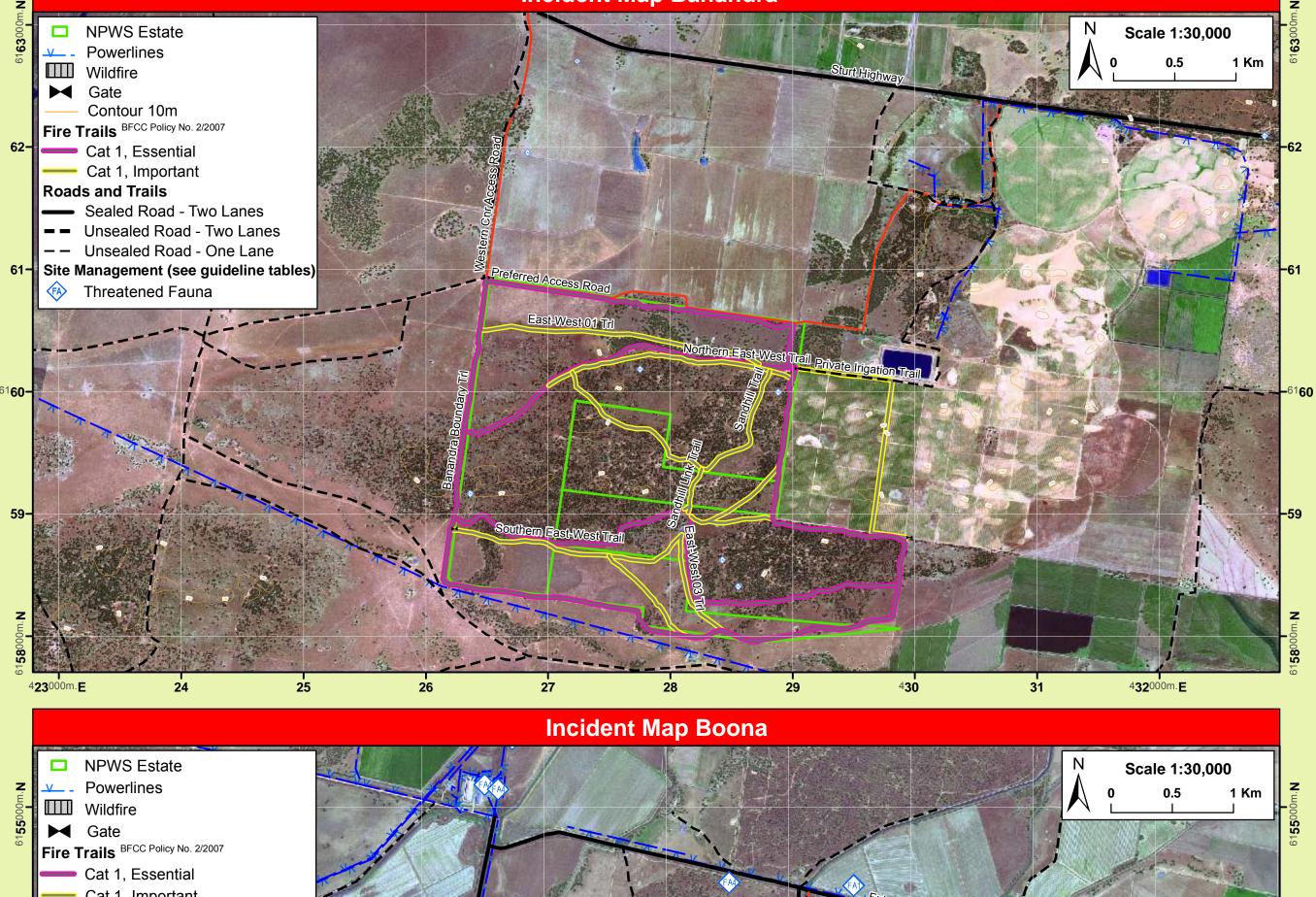
Threatened Fauna Management nd avoid disturbance at known sightings, roostings or refuges and avoid frequent fire (<6 years). protect hollow bearing trees and avoid frequent fire (< 6 —10 years ).

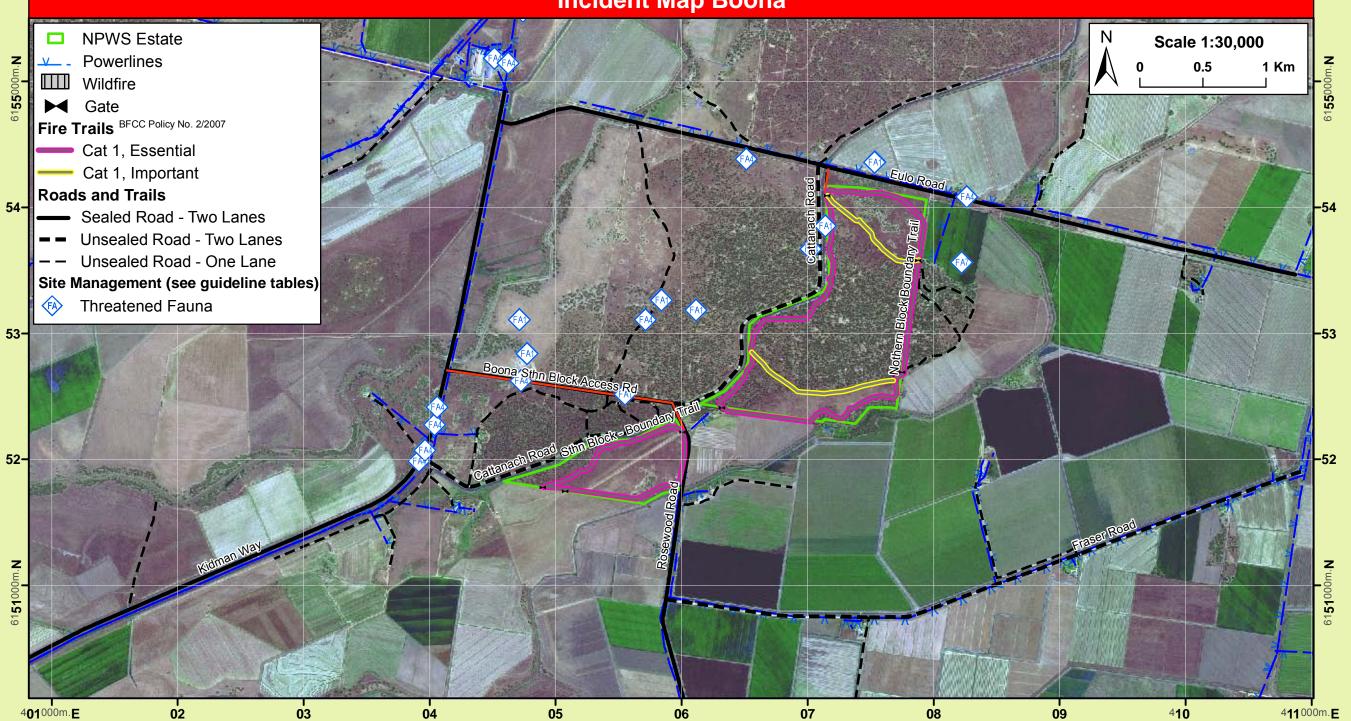
and avoid the use of machinery and chemicals.

Suppression Strategies			
al Conditions	Indicative Suppression Strategies		
anger Rating (FDR) of <b>Very</b>	<b>Direct</b>		
ter,	Initial attacks should be to try to extinguish or to contain		
lium range forecasts	to the smallest possible area.		
tions typical to a FDR of	Indirect		
<b>Greater,</b>	Develop a suppression plan using existing and/or		
Id/or property exists in the	potential containment lines. If possible take into account		
m term,	biodiversity requirements but never to the detriment of		
isk to biodiversity exists.	life and property.		
r below,	<b>Direct</b>		
m term forecast indicate a	Evaluate the biodiversity thresholds and use direct		
R of <b>High or below</b>	attack methods to extinguish if required.		
or property exists in the	Indirect		
term,	Develop a fire suppression plan to the maximum		
a risk to biodiversity exists.	allowable perimeter based on Biodiversity thresholds.		

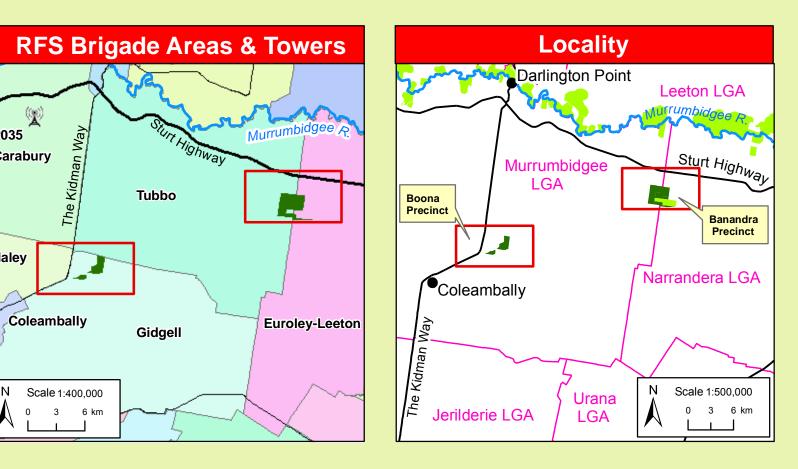
C	ontact Information	
Agency	Position / Location	Phone
National Parks	Duty Officer (8am-10pm)	<b>02</b> 6332 6350
& Wildlife Service	Regional Office – 200 Yambil St Griffith	<b>02</b> 6966 8100
NSW Rural Fire	Fire Control Centre 46 Jensen Rd Griffith	<b>02</b> 6964 1144
Service (MIA)	Duty Officer	<b>02</b> 6964 5400 (AH)
	Griffith Fire Station	<b>02</b> 6964 4152
NSW Fire Brigades	Leeton Fire Station	<b>02</b> 6953 6786
State Forests	Forbes – Duty Mobile	0428 696 678
Emergency Services		000
SES		13 2500
Police Station (not	Leeton	<b>02</b> 6953 1399
open 24 hrs)	Darlington Point	<b>02</b> 6968 4144
Police - Local Area Command	Griffith	<b>02</b> 6969 4310
Heapital	Griffith Base	<b>02</b> 6969 5555
Hospital	Leeton	<b>02</b> 6953 1111
	Narrandera Shire Council	<b>02</b> 6959 5510
Council	Leeton Shire Council	<b>02</b> 6953 0911
	Murrumbidgee Shire Council	<b>02</b> 6960 5500

Communications Information			
Service	Channel	Location and Comments	
NPWS	10	■UHF	
	09	■Tubbo	
RFS Brigades UHF	17	Euroley-Leeton	
Ū	29	■Gidgell	
RFS Griffith	P029	<ul> <li>Scenic Hill</li> </ul>	
RFS	P035	Koonwarra, Darlington	
Murrumbidgee	P035	Point	
RFS Leeton	P045	<ul> <li>Square Knob</li> </ul>	
State Forests VHF	202	- Squara Kaab	
(Repeater)	292	Square Knob	
Mobile phone coverage is likely to be reliable			





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	Fire Season Information
Wildfires	<ul> <li>The critical wildfire season generally occurs from October/November to March/April.</li> <li>Dry lightning storms frequently occur and typical fire weather conditions are winds from the west to the north, high day time temperatures and low humidity</li> <li>Particular care is required following periods of Winter rain and after periods of negative Southern Oscillation Indices.</li> </ul>
Prescribed Burning	<ul> <li>Prescribed burning should generally be undertaken during winter or early Spring</li> <li>Care should be taken to ensure a low intensity burn over most of the area treated.</li> </ul>
Burning	

