

This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the develop ment 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 proces s 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

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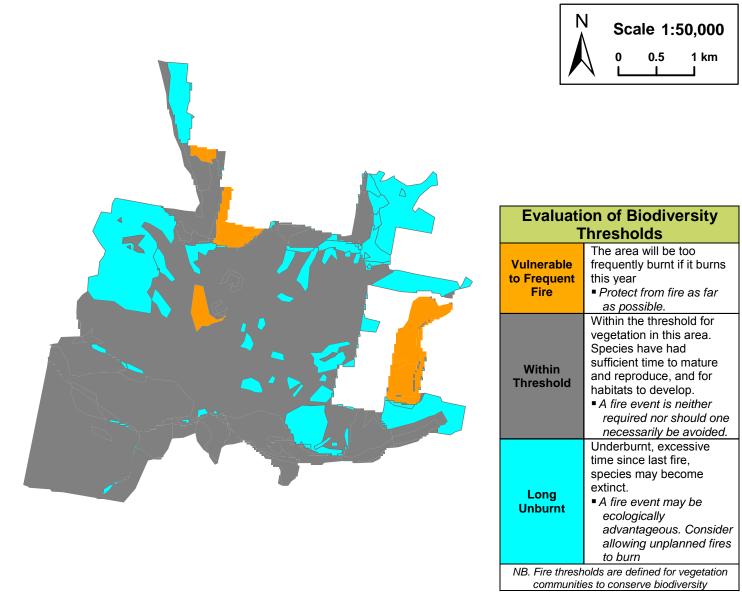
Contact: OEH PWG Regional Office: 200 Y	ambii St, Griffith NSW 2680 P.O. Box 1049 Griffith NSW 2680 ph. (02 6966 8100
ISBN 978 1 74293 987 2 OEH 2013/0033	Date: June 2014	Version: 2
Ma	p Details	Related Documents
Projection: Map Grid of Australia (GDA) 1994 Projection: Map Grid of Australia (MGA) Zone 55 Data: Spot Satellite Imagery: 2005. Scale: Noted scales are true when printed on A1 size paper	1:25k Topographic Map: Orange 8731-3-N 1:50k Topographic Map: Cudal 8631-S 1:100 Topographic Map: Orange 8731, Molong 8631	OEH Fire Management Manual 2013 - 2014.

	Operational Guidelines Brief all personnel involved in suppression operations on the following issues using the SMEACS format:		
General	Guidelines		
Contra	■ The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-ove		
Aerial Water Bombing	 The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances. 		
	 Where practicable foam should be used to increase the effectiveness of the water, Ground crews must be alerted to water bombing operations. 		
Aerial Ignition	 Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the prio consent of NPWS Senior Officer, Section 44 delegate or as prescribed in an operational burn plan, The use of aerial ignition as a fire suppression tool should be specified in the IAP or within the prescribed burn plan. Aerial ignition will only be undertaken by qualified and competent navigators and bombardiers, Utilise aerial ignition to rapidly burn out large areas and or reduce spotting potential by preventing longer uphill fire ru Aerial ignition can be utilised to rapidly progress back-burns down-slope where required. Avoid the use of aerial ignition in rocky outcrop vegetation communities. 		
Back-burning	 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, 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, Use parallel containment lines when applicable, All personnel must be fully briefed before back-burning operations begin. 		
	■ Standard Incident Management Systems are to be applied,		
Command & Control	The first combatant agency on site may assume control of the fire, but then must ensure the relevant land management agency is notified promptly.		
	 On the arrival of other combatant agencies, the Incident Controller will consult with regard to the ongoing command, control and incident management team requirements as per the relevant BFMC Plan of Operations. 		
Containment Lines	 Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact, For new containment lines IMT to liaise with and receive consent from a Senior NPWS officer prior to construction, Containment lines should avoid rocky outcrops – due to threatened lichens that exist in these areas. Use parallel containment lines when applicable, All containment lines not required for other purposes should be closed at the cessation of the incident, All personal involved in containment line construction should be briefed on both natural and cultural heritage sites in the location, Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines 		
Earthmoving Equipment	 contained within the RFMS. 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, 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. 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, Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exitin NPWS estate, Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager. No earthmoving to be used on rocky outcrop areas due to the presence of threatened lichen species. 		
Fire Advantage Recording	 All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database. 		
Fire Suppression Chemicals	 Use of wetting and foaming agents (surfactants) is permitted on the reserve, 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, Exclude the use of surfactants and retardants within 50m of watercourses, dams and swamps, Areas where fire suppression chemicals are used must be mapped and the used product's name recorded, The Threatened Species Operational Guidelines are to be observed. Do not use foams or retardants on rocky outcrops areas – due to presence of threatened lichen species. 		
Rehabilitation	 Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation 		
Smoke Management	 The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations, If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified, Smoke management must be in accordance with relevant RTA traffic management guidelines. 		
Structural Fire Fighting	 OEH personnel are not trained in structural fire fighting and must not enter a structure in order to undertake structural fire fighting, 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. 		
Visitor Management	 The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations Areas of the reserve may be closed for prescribed burning operations. 		
WARNINGS	 Areas of the reserve may be closed for prescribed burning operations. Beware of overhead powerlines, Beware of steep slopes as they may increase fire intensity, during wildfire events. Beware of limited vehicle access to and from the summit area during severe or greater FDI. 		

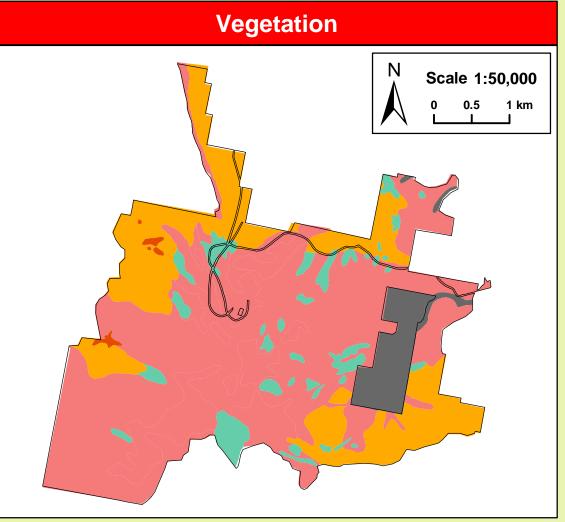
Status of Biodiversity Thresholds

Beware of limited vehicle access to and from the summit area during severe or greater FDI.

■ Use a water cart, brought from Orange (15km NE).



	on of Biodiversity Thresholds
Vulnerable to Frequent Fire	The area will be too frequently burnt if it burn this year • Protect from fire as far as possible.
Within Threshold	Within the threshold for vegetation in this area. Species have had sufficient time to mature and reproduce, and for habitats to develop. • A fire event is neither required nor should on necessarily be avoide
Long Unburnt	Underburnt, excessive time since last fire, species may become extinct. • A fire event may be



ril nir	Winter or e Care shoul area treate Avoid pre northern e	rescribed burning should generally be undertaken during Autumn, Vinter or early Spring are should be taken to ensure a low intensity burn over most of the rea treated. Avoid prescribed burning between November and March at the porthern end of reserve because of potential smoke impacts on currounding vineyards.		
		unications Channel	Information Location and	
	Service	292	Comments ■Mt Canobolas	
	NPWS VHF	290	■WRR Vote Group	

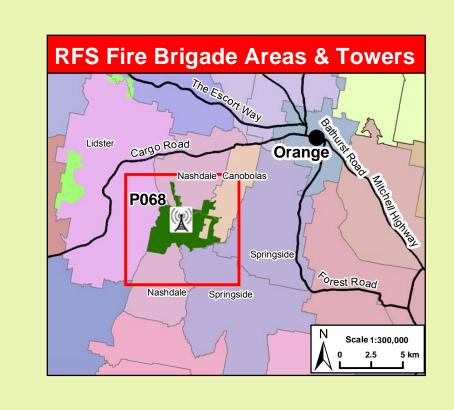
Vegetation Map Legend			
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour
Heathlands and Rocky Outcrops	Outcrop Heath and Shrublands Outcrop Low Open Woodlands	An interval between fire events less than 10 years and above 30 years should be avoided.	Long flame height in heath shrubs expected. Heightened fire activity likely to be short-lived in heath as they are generally small areas.
Dry Sclerophyll Forest (Shrub formation)	Shrubby Open forest & Woodlands	An interval between fire events less than 10 years and above 30 years should be avoided.	In long unburnt areas, very high to extreme potential for spotting due to bark fuels. Isolated areas with heavy ground fuel may have the potential for very high fire behaviour.
Dry Sclerophyll Forest (Shrub & Grass formation)	Waterfall Low Open Woodlands	An interval between fire events less than 10 years and above 30 years should be avoided.	In long unburnt areas, very high to extreme potential for spotting due to bark fuels. Isolated areas with heavy ground fuel may have the potential for very high fire behaviour.
Grassy Woodlands	Grassy Woodlands & Tall Open Forest Grasslands & Grassy Open Woodlands	An interval between fire events less than 8 years and greater than 40 years should be avoided. Area where Snow Gum (<i>Eucalyptus pauciflora</i>) trees are present fire the interval is 35 to 50 years.	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 be erratic and fast moving. In ephemeral years fire 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. Potential spotting from trees
Other	Disturbed Creek Lines & Unclassified	No fire regime.	
Fire History	adjacent to the reserve. The have been undertaken cover the region surrounding the	his fire burnt approximately 80% of the referring approximately 30% of the reserve	ble fire in 1982, which started in the pine plantation reserve area. In the last 10 years 13 prescribed burns e. events and a large proportion of fires are historically
Drought Conditions	During drought conditions and when vegetation communities are visibly stressed or experiencing dieback no prescribed burning will be permitted and wildfire areas will be minimised. There is a greater risk of wildfire during drought conditions.		

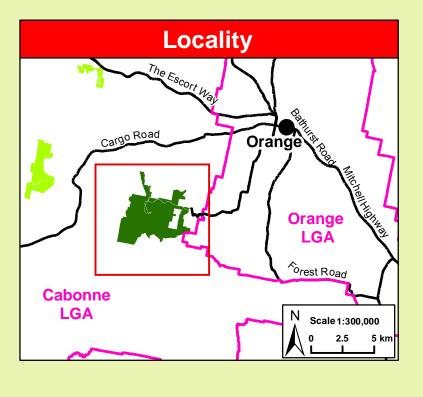
Fire Season Information ■The critical wildfire season generally occurs from October/November to March/April. •Dry lightning storms frequently occur and typical fire weather conditions are winds from the west to the north, high day time temperatures and low humidity Particular care is required following periods of Winter rain and after periods of negative Southern Oscillation Indices. Prescri Burni

Communications Information			
Service	Channel	Location and Comments	
NPWS VHF	292 290	■Mt Canobolas ■WRR Vote Group	
RFS Brigades UHF	13 22 26	■Nashdale & Lidster ■Canobolas ■Springside	
RFS PMR	P068	■Mt Canobolas	
Forestry Corporation VHF Repeater	3 or 144	■Mt Canobolas	

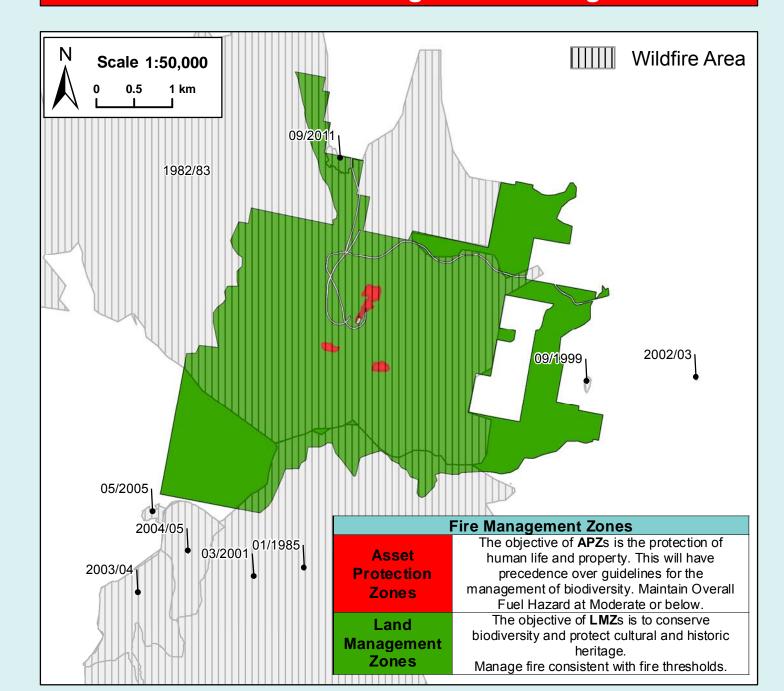
Contact Information		
Agency	Position / Location	Phone
	Duty Officer	02 6332 6350
National Parks & Wildlife Service	Level 2 202-209 Russel St Bathurst 2795	02 6332 7640
	Regional Office – 200 Yambil St Griffith	02 6966 8100
NSW Rural Fire Service	Fire Control Centre (Orange)	02 6363 6666
Canobolas Zone	Duty Officer	02 6361 8288
Fire and Rescue NSW	Orange Fire Station	02 6361 2205
Forestry Corporation	Bathurst – Fireline Macquarie Regional Office	02 6332 4812 02 6331 2044
Emergency Services		000
SES		13 2500
Police - Local Area Command	Orange	02 6363 6399
Hospital	Orange	02 6369 3000
Council	Cabonne Shire Council	02 6392 3200
Council	Orange Shire Council	02 6393 8000
LALC	Orange	02 6361 4742

	Threatened Sites	Guide	elines
Site	Guidelines		
	Aboriginal Cultural Heritage S	Site Managem	nent
Note	More aboriginal sites may be present other than those shown on the Avoid fire and grading control lines within 100 m of a water course		·
IS1	 Do not cut down trees As far as possible protect the site from fire Use of foams, wetting agents & retardant is acceptable. 	IS2	 Avoid all ground disturbance including the use of earthmoving machinery, handline construction and driving over sites Sites may be burnt by bushfire, backburn or prescribed burn without damage.
	Threatened Fauna Management		
FA1	 Utilise mosaic burning and avoid disturbance at known sightings, roostings or refuges and avoid frequent fire (<6 years). 	FA5	Utilise mosaic burning.
FA4	 Utilise mosaic burning, protect hollow bearing trees and avoid frequent fire (< 6—10 years). 		
	Threatened Flora Ma	nagement	
FL3	Avoid the use of machinery and chemicals.		
Lichens	Threatened Lichens occur on Rocky outcrops within the reserve. Avoid disturbance by vehicles and earthmoving machinery. Do not use foams or retardants.	Tablelands Snow Gum Grassy Woodland EEC	Occurs throughout the Grassy Woodland areas of the reserve. Utilise mosaic burning.
Eucalyptus canobolensis	Predominately found at altitudes between 1200 and 1300 m in Mt Canobolas SCA. Utilise mosaic burning.		





Bushfire Risk Management Strategies



Suppression Strategies		
Typical Conditions	Indicative Suppression Strategies	
Current Fire Danger Rating (FDR) of Very High	Direct	
or Greater,	Initial attacks should be to try to extinguish or to contain to the	
 Short and medium range forecasts suggest conditions typical to a FDR of Very High or 	smallest possible area.	
Greater,	Indirect	
 A risk to life and/or property exists in the short – medium term, 	Develop a suppression plan using existing and/or potential containment lines. If possible take into account biodiversity	
A broad area risk to biodiversity exists.	requirements but not to the detriment of life and property.	
<u> </u>	Direct	
■FDR of High or below,	Evaluate the biodiversity thresholds and use direct attack	
■ Short – medium term forecast indicate a continuing FDR of High or below	methods to extinguish if required.	
No risk to life or property exists in the short-	Indirect	
medium term,	Develop a fire suppression plan to the maximum allowable	
Only small area risk to biodiversity exists.	perimeter based on Biodiversity thresholds.	

