Lachlan Valley National Park Office of Environment & Heritage

NSW National Parks & Wildlife Service **Wilbertroy Precinct**

Fire Management Strategy 2012 Mapsheet 1 of 1

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), August 2012.

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	ISBN 978 1 74293 757 1 OEH 2012/0623 Date published: August 2012		Version: 1.0		
	Map Details				Related Documents
, , , , , , , , , , , , , , , , , , , ,		Topographic Maps 1:50k – Jemalong 8431S (AGD 1966)	OEH Fire Management Manual 2011 - 2012.	

Scale: Noted scales are true when printed on A1 size paper.

FA3 • Utilise mosaic burning and protect hollow bearing trees.

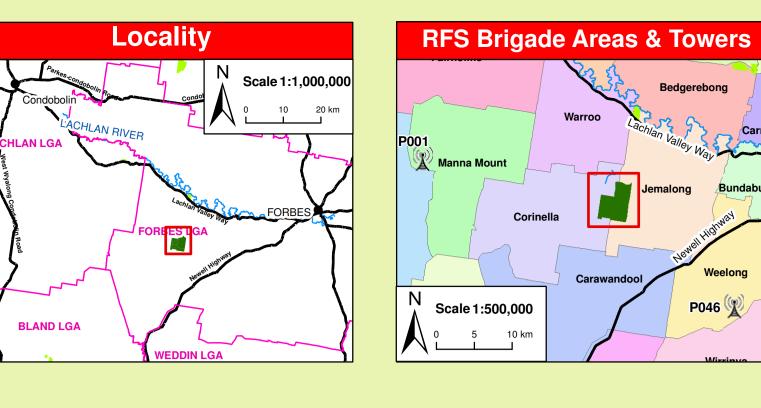
Data: Spot Satellite Imagery: 2005.

NPWS Estate

Fire Trails BFCC Policy No. 2/2007 Cat 7, Essential

→ Powerlines

Site	Guidelines			
Aboriginal Cultural Heritage Site Management				
No known sites currently identified, before commencing works contact Senior NPWS or Cultural Heritage officer.				
Threatened Flora Management				
No know species located in park.				
Threatened Fauna Management				



Service	Channel	Location and Comments		
NPWS Forbes	25	 VHF Mt W arraderry 		
RFS Forbes	P001	■ PMR Manna Mount		
RFS Forbes	P046	PMR Mt Tallabung		
Corinella Brigade	3	UHF Simplex		
Jemalong Brigade	17	UHF Simplex		
Forests NSW	26	VHF Mana Mountain		

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wobiie phone	coverage likel	ly to be unreliable	

Fire Season Information					
Wildfires Dry lightning storms frequer temperatures and low humid	enerally occurs from November through to February. Ily occur and typical fire weather conditions are winds from the west to the north, high day time ity. Ilowing periods of winter rain and after periods of negative Southern Oscillation Indices.				
	enerally be undertaken during Autumn, Winter or early Spring ure sufficient fuel is available to allow a low to moderate intensity burn over most of the area				

Contact Information Position / Location Phone Duty Officer (8am-10pm) **02** 6332 6350 National Parks Forbes Area Office & Wildlife Service **02** 6851 4429 1 Camp St NSW Rural Fire Service | Fire Control Centre **02** 6851 1541 Mid Lachlan Valley Team | 26 Union St Forbes Forests NSW **02** 6850 2927 Forbes Office Emergency Fire and Rescue NSW Forbes Fire Station **02** 6851 1843 Police - Local Area Forbes **02** 6853 9999 Command 13 2500 **02** 6863 8100 **02** 6850 2000 **02** 6850 2300 Hospital Forbes District Forbes Shire Council Council 1300 978 633

Vegetation Scale 1:45,000 Freshwater Wetlands

	 Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines contained within the RFMS. 			
Earthmoving Equipment	 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 not leave tracks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS, Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate, Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager. 			
Fire Advantage Recording	 All fire advantages used or created during wildfire suppression operations must be mapped and where relevant added to the database. 			
Fire Suppression Chemicals Use of gels and foaming agents (surfactants) is permitted on the reserve, The use of fire retardants are only permitted with the prior consent of the OEH delegate or NPWS Area Manager or Regional Manager and should be avoided reasonable alternatives are available, Exclude the use of surfactants and retardants within 50m of watercourses, dam Areas where fire suppression chemicals are used must be mapped and the use name recorded, The Threatened Species Operational Guidelines are to be observed. Refer to in locations.				
Rehabilitation and Stabilisation	 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 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 			
Visitor	 The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations. 			
Management	 Areas of a reserve may be closed for prescribed burning operations. 			

Operational Guidelines

Brief all personnel involved in suppression operations on the following issues:

they can be constructed with minimal environmental impact,

cultural heritage sites in the location refer to incident map,

Manager or Regional Manager,

Use parallel containment lines when applicable,

General

Aerial Water

Bombing

Aerial

Ignition

Back-burning

Command &

Containment

Lines

Control

Guidelines

Construction of new containment lines should be avoided, where practicable, except where

activities until a competent OEH officer assumes control (unless prior agreements have

New containment lines require the prior consent of a OEH Section 44 delegate or NPWS Area

All containment lines not required for other purposes should be closed at the cessation of the

All personal involved in containment line construction should be briefed on both natural and

Cat 7, Essential Cat 7, Important Cat 9, Essential			
Cat 9, Important Dormant			
Threatened Fauna	(A) (法) / (A)	Now	
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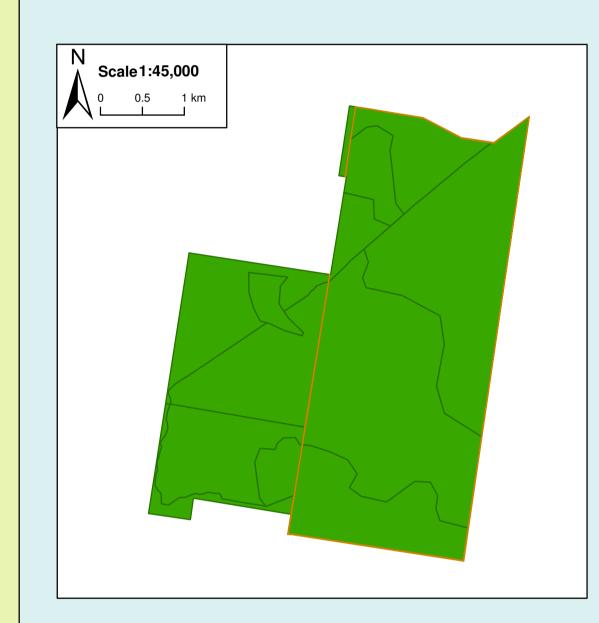
Incident Map

Vegetation Map Legend							
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour				
Forested Wetlands	River Red Gum tall woodlands on floodplains and alluvial plains	River Red Gum tall woodlands on floodplains and alluvial plains. An interval between fire events less than 10 years and greater than 35 years should be avoided. River Red Gums will only tolerate lower intensity fires. Individual trees may survive canopy scorch if they are not under stress and are in older age classes. Younger trees will not survive moderate to high intensity fires. Two fires occurring in the same area in a period of less than 20 years apart may reduce the extent of River Red Gum Forests.	This vegetation community will generally not carry fire under Prescribed burning conditions unless there are high ephemeral fuel loads, which generally occur after flooding events. In favourable years the River Red Gum forests can be scattered with 2m high reed beds, which can result in areas of very high to extreme fire behaviour. The community is characterised by spotting from River Red Gums, which commonly form candles.				
Freshwater Wetlands	Mid-high to tall closed Tussock Grassland on swamps, lakes and wetter areas.	Minimum interval of 10 years and a maximum of 35 years. As flooding events in this location can be infrequent; fire should be limited, and applied in a mosaic pattern across this vegetation community. In cases where a flood event is expected it may be worth considering patch burning prior to the flood event, to stimulate regeneration by obligate seeders after flooding.	In periods of high fuel loads the wetlands pose a risk of extreme fire intensities, hot – fast moving fires and rapid change in direction driven by wind. Do not enter in these conditions. Use indirect fire control methods.				
Semi-arid Woodlands (Grassy sub-formation)	Belah tall woodlands on floodplains and alluvial plains	An interval between fire events less than 15 years should be avoided. No maximum interval set at this time for this vegetation type, as there was insufficient data.	In long unburnt areas, very high to extreme potential for spotting due to bark fuels. Open areas fire behaviour likely to be wind driven.				
Grassy Woodlands	Grey Box (+/- White Cypress Pine) tall woodlands on level alluvial plains Mixed Eucalypt tall woodlands on alluvial plains, plains and low rises Poplar Box tall woodlands on alluvial plains & floodplains Yellow Box (+/- River Red Gum) tall woodlands ranging from alluvial plains to small sandhills	An interval between fire events less than 8 years and greater than 40 years should be avoided.	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 intensity will be higher while in				
Grassland	Mid-high to tall closed Tussock Grassland on alluvial plains & floodplains Mid-high to tall closed Tussock Grassland on alluvial plains & floodplains previously cropped.	An interval between fire events less than 3 years and greater than 10 years should be avoided. Caution should be used in extended periods of drought, as this will mimic the type of disturbance provide by fires.	years affected by drought minimal growth will result in moderate fire behaviour but potentially still fast moving depending on weather conditions at the time. In wooded areas higher potential for spotting.				
Other Cleared Lands	Non-native Vegetation	No fire Regime , where there is a high percentage of native grasses, the area should be managed for the likely previous formation, for example Grassy Woodlands (8-40 years).					
Fire History	No recorded fire history exists for this location.						
Ephemeral Conditions Occur after consecutive years of effective rainfall events. This in turn leads to the growth and build up of fine surface fuels such as grasses and herb continuous fuel loads in communities that would not usually have much ground fuel. As a result expect higher fire intensity.							
Drought Conditions	During drought conditions and when vegetation communities are visibly stressed it will be very difficult to undertake prescribed burning across many communities as the surface fuels will be very low. Wildfires are likely to be difficult to control due to extreme conditions during the day and areas of low fuel that are difficult to back-burn in under night conditions.						
Mosaic Burning As this reserve has not experienced fire over an extended timeframe, a mosaic approach with post fire recovery and response assessments should be taken. Apply fire in pattern across the reserve that allows gaps in time and space, small areas, scattered, variable times between fires in any location. If possible leave some areas of each vegetation community unburnt, as an end stage and reference site.							

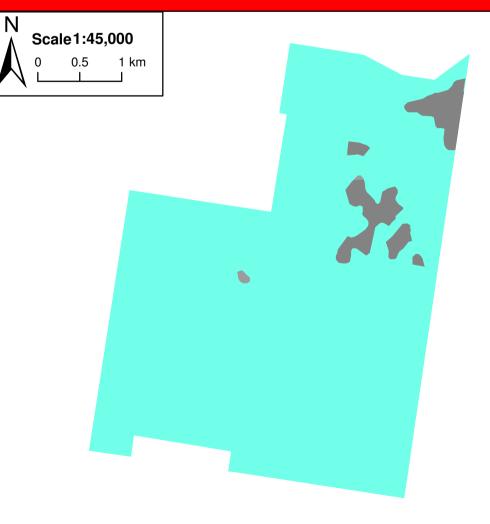
Bushfire Risk Management Strategies

Very effective first attack where fire is still small and crews are some distance away.		Suppression Strategies			
 Should support containment operations by aggressively attacking hotspots and spot-overs, Without the support of ground based suppression crews should be limited to very specific 		Season	Typical Conditions	Indicative Suppression Strategies	
Where practicable foams or gels should be considered to increase the effectiveness of water, Ground crews must be alerted to water bombing operations. Aerial ignition may be used where practicable, with the prior consent of NPWS Regional Manager, OEH Section 44 delegate or as prescribed in an operational burn plan, Aerial ignition will only be undertaken by accredited bombardiers, The pattern for aerial ignition will be specified in the IAP during fire suppression, Utilise incendiaries to rapidly burn out large areas where required. Temperature and humidity trends must be monitored carefully to determine the safest times to mplement 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		Just prior to or during the critical fire season	 Current Fire Danger Rating (FDR) of Very High or Greater, Short and medium range forecasts suggest conditions typical to a FDR of Very High or Greater, A risk to life and/or property exists in the short – medium term, A broad area risk to biodiversity exists. 	Direct Initial attacks should be to try to extinguish or to contain to the smallest possible area. Indirect Develop a suppression plan using existing and/or potential containment lines. If possible take into account biodiversity requirements but never to the detriment of life and property.	
 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, CAUTION: in areas dominated by <i>Cypress</i> back-burning may be very difficult or ineffective under normal back-burning conditions. Standard Incident Management Systems are to be applied, On the arrival of other combatant agencies, the initial incident controller will consult with regard to the ongoing command, control and incident management team requirements as per the relevant BFMC Plan of Operations, Where OEH is not the first responding fire authority to arrive at a fire on OEH-managed 		Outside of the critical fire season	 FDR of High or below, Short – medium term forecast indicate a continuing FDR of High or below No risk to life or property exists in the short-medium term, Only small area risk to biodiversity exists. 	Direct Evaluate the biodiversity thresholds and use direct attack methods to extinguish if required. Indirect Develop a fire suppression plan to the maximum allowable perimeter based on Biodiversity thresholds.	
lands, a competent officer of the first arriving fire authority will direct fire management					

Fire Management Zones				
Strategic Fire Advantage Zones	The objective of SFAZ s is to reduce fire intensity across larger areas. Maintain Overall Fuel Hazard at High or below, however adherence to guidelines for biodiversity will take precedence where practical.			
Land Management Zones	The objective of LMZ s is to conserve biodiversity and protect cultural and historic heritage. Manage fire consistent with fire thresholds.			



Status of Biodiversity Thresholds



Evaluation of Biodiversity Thresholds				
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 one necessarily be avoided.			
Long Unburnt	Underburnt, excessive time since last fire, species may become extinct. • A fire event may be ecologically advantageous. Consider allowing unplanned fires to burn			
NB. Fire thresholds are defined for vegetation communities to conserve biodiversity				