Murrumbidgee Valley National Park Billenbah, Euroley & MIA 2 Precincts

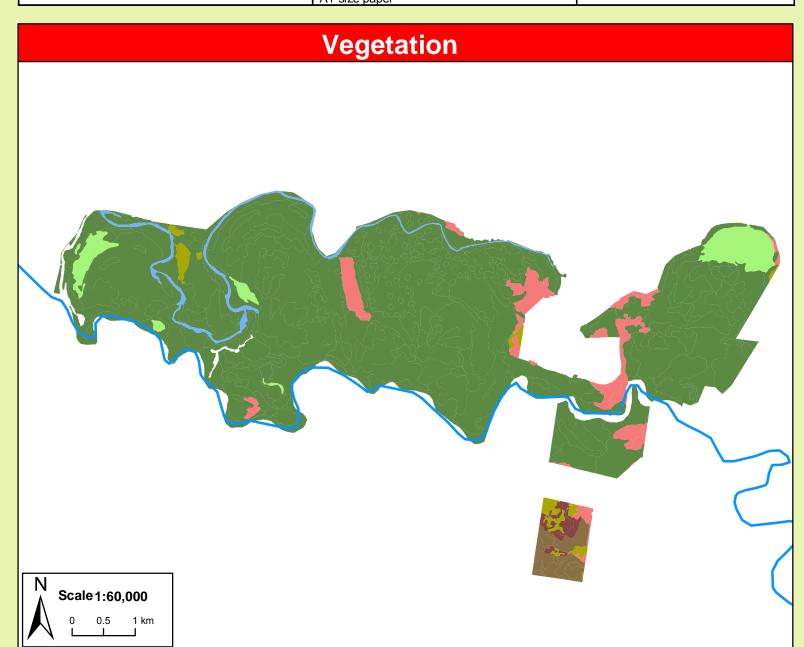
Office of Environment & Heritage
NSW National Parks & Wildlife Service

Fire Management Strategy 2012

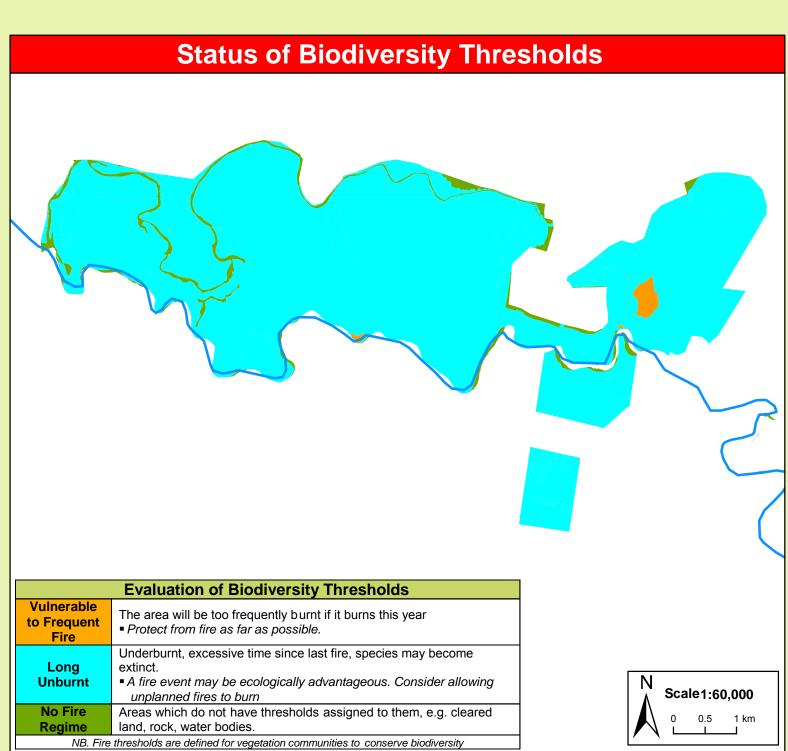
This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans. These data are not guaranteed to be free from error or omission. The NSW National Parks and Wildlife and its employees disclaim liability for any 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 R ural 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.

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ISBN 978 1 74293 719 9 OEH 2012 <i>l</i> 0560	Date: August 2012	Version: 1	
Map Det	tails	Related Documents	
Datum: Geocentric Datum of Australia (GDA) 1994 Projection: Map Grid of Australia (MGA) Zone 55 Data: Spot Satellite Imagery: 2005.	1:25k Topographic Map: Euroley 81281-S, Leeton 81281-N (AGD-1966) Scale: Noted scales are true when printed on A1 size paper	OEH Fire Management Manual 2011 2012.	



Co	Contact Information		
Agency	Position / Location	Phone	
National Parks	Duty Officer (8am-10pm)	02 6332 6350	
& Wildlife Service	Regional Office – 200 Yambil St Griffith	02 6966 8100	
NSW Rural Fire	Fire Control Centre 46 Jensen Rd Griffith	02 6964 1144	
Service (MIA)	Duty Officer(AH)	02 6964 5400	
NOW E're Britania	Griffith Fire Station	02 6964 4152	
NSW Fire Brigades	Leeton Fire Station	02 6953 6786	
State Forests	Forbes – Duty Mobile	0428 696 678	
Emergency Services		000	
SES		13 2500	
Police Station (not	Leeton	02 6953 1399	
open 24 hrs)	Darlington Point	02 6968 4144	
Police - Local Area Command	Griffith	02 6969 4310	
Haanital	Griffith Base	02 6969 5555	
Hospital	Leeton	02 6953 1111	
	Griffith City Council	02 6962 8100	
Council	Leeton Shire Council	02 6953 0911	
	Murrumbidgee Shire Council	02 6960 5500	



	Vegetation Map Legend			
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour	
Forested Wetlands	River Red Gum Forests & Black Box Woodland	An interval between fire events less than 10 years and greater than 35 years should be avoided. River Red Gums will only tolerate low 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.	These vegetation communities will generally not carry fire 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 isolated areas of very high to extreme fire behaviour. In years of high ephemeral fuels,	
Freshwater Wetlands	Shallow Swamp & Wetlands	An interval between fire events less than 10 years and greater than 35 years should be avoided.	landscape fires are possible as fire potential will be very high to extreme, characterised by spotting	
Semi-arid Woodlands (Grassy sub- formation)	Black Box Open Grassy Woodland	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. Two fires in the same area in a period of less than 10 years apart may remove younger Black Box trees.	from Black Box and River Red Gum communities and fast moving fires in other communities. Red Gum trees commonly form candles. In periods of high ephemeral fuel loads the wetlands pose a risk of extreme fire intensities, hot – fast moving fires and rapid change in	
Semi-arid Woodlands (Shrubby sub- formation)	Yellow Box- White Cypress Pine Woodland	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.	direction associated with wind. 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 Woodlands	Western Grey Box & White Cypress Pine Woodland Yellow Box – River Red Gum Tall Grassy Woodlands	An interval between fire events less than 8 years and greater than 40 years should be avoided.	For more grassy areas fire behaviour as described below. 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	
Grassland	Native Grasslands	An interval between fire events less than 3 years and greater than 10 years should be avoided.	potentially still fast moving depending on weather conditions at the time. Potential spotting from trees.	
Other (Water)	N/A	N/A		
Fire History	3 fires have been recorded for these precincts ranging in size from 0.4Ha to 2.4 and 17 Ha. The smallest of the fires (0.4Ha) was due to lightning with the other 2 having an unknown ignition source. Fires are however generally attributed to humans from either escaped campfires, discarded cigarettes and matches or deliberate ignitions. A lesser number can be attributed to lightning strikes.			
Ephemeral Conditions	Ephemeral fuel conditions occur after consecutive years of effective rainfall and significant flooding events. This in turn leads to the growth and build up of fine surface fuels such as grasses and herbs, which can create a continuous fuel load across all of the above vegetation communities. As a result expect higher fire intensity.			
Drought 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.				

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

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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

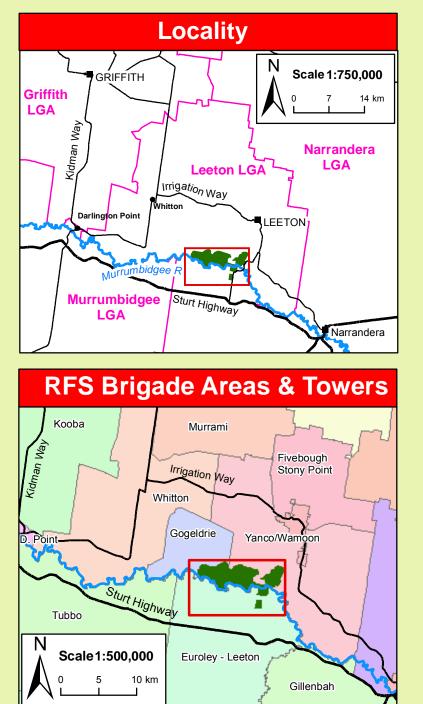
Particular care is required following periods of Winter rain and after periods of negative

Southern Oscillation Indices.

Prescribed burning should generally be undertaken during winter or early Spring

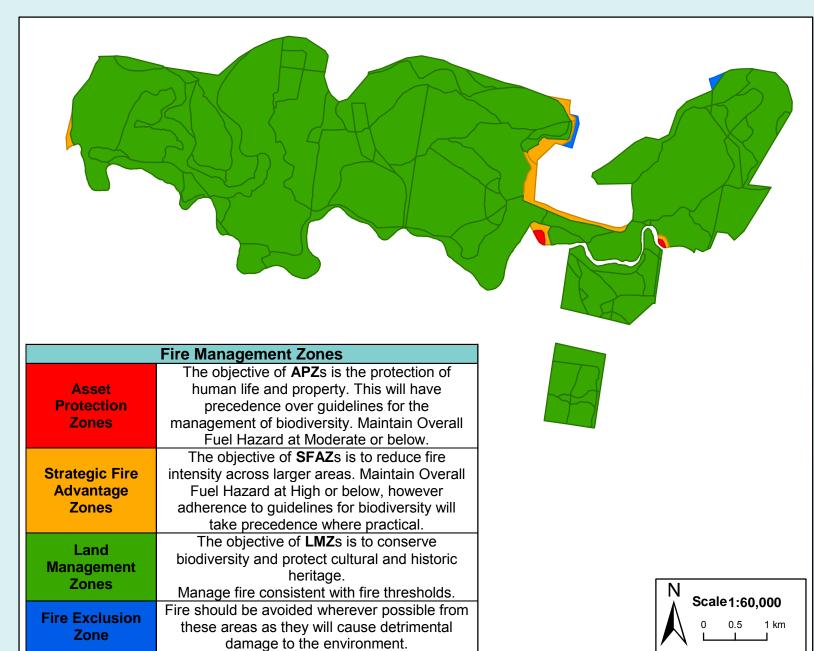
Care should be taken to ensure a low intensity burn over most of the area treated.

built over most of the area treated.				
Communications Information				
Service	Channel	Location and Comments		
NPWS	10	■UHF		
DEC Prigodos	04	■Gogeldrie		
RFS Brigades UHF	06	■Yanco-Wamoon		
OHE	17	■Euroley-Leeton		
RFS Griffith	P029	■Scenic Hill		
RFS	P035	■Koonwarra, Darlington		
Murrumbidgee	P035	Point		
RFS Leeton	P045	■Square Knob		
State Forests VHF (Repeater)	294	■Square Knob		



	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 attacking hotspots and spot-overs, 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 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 navigators & 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. 		
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. 		
Command & Control	 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 lands, a competent officer of the first arriving fire authority will direct fire management activities until a competent OEH officer assumes control (unless prior agreements have been made). 		
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, 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 contained within the RFMS. 		
Earthmoving Equipment	 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 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 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 a 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.			
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 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. 		
/isitor Management	■ The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.		
WARNINGS	 Beware of overhead powerlines, Reserve prone to flooding and only some trails will be trafficable after flood events or rainfall. 		

Bushfire Risk Management Strategies



Suppression Strategies			
Season	Typical Conditions	Indicative Suppression Strategies	
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.	
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.	

