Nangar National Park
Fire Management Strategy 2014
Mapsheet 1 of 1

Office of Environment & Heritage W National Parks & Wildlife Service

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Contact: OEH PWG Regional Office: 200 Yambil St, Griffith NSW 2680 P.O. Box 1049 Griffith NSW 2680 ph. 02 6966 8100			
ISBN 978 1 74293 984 1 OEH 2013/0030	Date: June 2014	Version: 2	
Map Details		Related Documents	
Datum: Geocentric Datum of Australia (GDA) 1994 Projection: Map Grid of Australia (MGA) Zone 55	1:50k Topographic Map: Cudal 8631-S, Forbes 8531-S	OEH Fire Management Manual 2013 - 2014.	

Data: ADS40: 2	2007-2008 satelitte imagery.	1:100 Topographic Map: Parkes 8531, Molong 8631 Scale: Noted scales are true when printed		
		on A1 size paper		
	Оре	erational Guidelines		
0	Brief all personnel involved in suppr	ession operations on the following issues using	the SMEACS format:	
General	Guidelines The use of bombing aircraft is designed to support suppression and containment operations and where necessary slow			
Aerial Water	the progress of an advancing fire	until ground crews arrive.		
Bombing	 Aircraft assist in aggressively attacking hotspots and spot-overs and their use without the support of ground based suppression crews generally has limited effectiveness. Where practicable foam should be used to increase the effectiveness of the water. 			
	 Ground crews must be alerted to water bombing operations. Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the second second			
Aerial	consent of NPWS Senior Officer,	Section 44 delegate or as prescribed in an ope	rational burn plan,	
Ignition	 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 runs. Agric ignition can be utilized to rapidly progress back burns down along whore required			
	 Temperature and humidity trends 	must be monitored carefully to determine the sa	ifest 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.			
Back-burning	Where practicable, clear a 1m rad burning, or wort down those trees	ius around dead and hollow bearing trees adjac	ent to containment lines prior to back-	
	 Use parallel containment lines who 	en applicable,		
	 All personnel must be fully briefed Caution: In areas dominated by C 	before back-burning operations begin. allitris sp. back burning may be difficult or ineffe	ctive.	
	 Standard Incident Management S 	ystems are to be applied,		
Command & Control	The first combatant agency on site agency is notified promptly.	e may assume control of the fire, but then must	ensure the relevant land management	
	 On the arrival of other combatant control and incident management 	agencies, the Incident Controller will consult wit	h regard to the ongoing command, Plan of Operations	
	Construction of new containment	ines should be avoided, where practicable, exce	ept when they can be constructed with	
	 minimal environmental impact, New containment lines require the 	prior consent of a senior NPWS officer.		
Containmont	When constructing containment lin	nes, steep and rocky areas and locations adjace	ent to riparian (creeks or streams) or	
Lines	 All personnel involved in containm 	ent line construction should be briefed on the pl	rotection of the reserve's natural and	
	cultural assets. Containment line construction usir	na earthmoving equipment must be conducted in	n accordance with this RFMS, the	
	OEH FMM and sedimentation and erosion control measures must be implemented in accordance with both OEH and			
	 Containment lines not required for 	other purposes should be closed immediately a	at the cessation of the incident.	
	 Earthmoving equipment may only probability of its success is high. 	be used with the prior consent of a senior NPW	S officer, and then only if the	
	 Earthmoving equipment must alway 	ays be guided and supervised by an appropriate	ely experienced person, who can	
	assist with survey (route selection) and the identification and protection of threatened species and/or or historic and Aboriginal sites (known nor unknown) along the proposed containment line.			
Earthmoving Equipment	• To assist with the protection of natural and cultural assets and drainage features earth moving operators need to be briefed and observe the Threatened Sites Guidelines contained in this REMS			
-4	 Earthmoving equipment must always 	ays be accompanied by a support vehicle and w	hen engaged in direct or parallel	
	 Earthmoving equipment must be v 	vashed down (where practicable) prior to it ente	ring NPWS estate and again on	
	exiting NPWS estate. • Where multiple items of earthmov	ing equipment are being used, the IMT should c	onsider the appointment of a Plant	
	Operations Manager.			
Fire Advantage	 All fire advantages used during wind tabase 	ldfire suppression operations must be mapped a	and where relevant added to the	
Recording	The use of foams and dels (surfac	tants) is permitted on the reserve		
Fire	 The use of fire retardants are only 	permitted with the prior consent of the senior N	PWS officer and should be avoided	
 Suppression Exclude the use of surfactants and retardants within 50m of watercourses, dams and swa 			and swamps.	
Chemicais	 Chemicals The aerial application use foam, gels and retardants requires the approval of a NPWS Senior Officer. Areas where fire suppression chemicals are used must be mapped and the used product's name recorded. The Threatened Sites Guidelines contained within this RFMS are to be observed. 			
Rehabilitation	Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression			
	• The potential impacts of smoke ar	nd possible mitigation tactics must be considered	d when planning for wildfire	
Smoke Management	 suppression and prescribed burn If smoke becomes a hazard on loc 	ing operations, cal roads or highways, the police and relevant m	edia must be notified.	
	Smoke management must be in a	ccordance with relevant RTA traffic managemen	nt guidelines.	
Structural	fire fighting,	suuctural life lighting and must not enter a struc	aure 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			
Visitor	The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.			
Management	Areas of the reserve may be close Beware of overhead powerlines	ed tor prescribed burning operations.		
	Creeks in reserve are non-permar	nent water sources.		
vvater	There are several dams on the res	serve, as marked on the Incident Map.		



Contact Information			
Agency	Position / Location	Phone	
— — —	Duty Officer	02 6332 6350	
National Parks	Forbes Office – 1 Camp St Forbes	02 6851 4429	
& WIIGHTE SERVICE	Regional Office – 200 Yambil St Griffith	02 6966 8100	
NSW Rural Fire Service	Fire Control Centre	02 6363 6666	
Canobolas Zone	Duty Officer	02 6361 8288	
Fire and Rescue NSW	Forbes Fire Station	02 6851 1843	
Forestry Corporation	Steve Campbell - District Manager	0428 696 678	
Emergency Services		000	
SES		13 2500	
Police - Local Area Command	Parkes	02 6862 9905	
lleenitel	Forbes	02 6850 2000	
Hospital	Orange	02 6393 3000	
Council	Cabonne Shire Council	02 6392 3200	
Local Aboriginal Land Council	Cowra 02 6342 3259		







- medium term, • A broad area risk to biodiversity exists.
- •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.

Vegetation Map Legend			
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour
Dry Sclerophyll Forest (Shrub/grass formation)	Tumbledown Red Gum - Black Cypress Pine - Red Box low woodland on hills White Box - White Cypress Pine woodland Stringybark - Box - Gum Woodland	An interval between fire events less than 10 years and above 30 years should be avoided.	Generally low-intensity fires, intensity increasing with amount of ephemeral fuels.
Dry Sclerophyll Forest (Shrub formation)	Scribbly Gum woodland Mugga Ironbark - Box - White Cypress Pine woodland Dry open-forest on ranges of the lower slopes (Hervey Ranges)	An interval between fire events less than 10 years and above 30 years should be avoided.	Generally low-intensity fires, intensity increasing with amount of ephemeral fuels. 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	Red Stringybark - Blakely's Red Gum - Yellow Box woodland White Box - Kurrajong woodland	An interval between fire events less than 8 years and greater than 40 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 be
Grassland	Grasslands (various communities)	An interval between fire events less than 3 years and greater than 10 years should be avoided. 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).	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.
Heathland	Nangar Mountain Heathland	An interval between fire events less than 10 years and above 30 years should be avoided.	Unless recently burnt expect very high to extreme fire potential in these areas due to the elevated fuel hazard.
Fire History	Since 2005 13% of the park has seen prescribed burn activity with 3 burns being conducted, 232 Ha (2 separate HR's) in 2010 and 1684 Ha (Approx 1000Ha of this on park) in 2005. 4 wildfires have been recorded for this reserve, 1987 - 431 Ha, 1984 – 42Ha and 2 smaller fires in 2009 totalling < 10Ha. The region surrounding this reserve is prone to summer lightning events and a large proportion of fires are historically related to dry lightning events with no associated rainfall.		
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 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	Apply fire in a pattern across the reserve that allows gaps in both time and space, small verses large areas, scattered and variable times between fires in any location. If possible leave som areas of each vegetation community unburnt, as an end stage and reference site.		

Threatened Sites Guidelines

Threatened Fauna Management

Although not indicated on the Incident Map, several bird species listed as Vulnerable have been recorded within this reserve. Undertake appropriate environmental assessment activities prior to scheduled HR burns.

Utilise mosaic burning, protect hollow bearing trees, avoid disturbance at known sightings, roostings or refuges, avoid frequent fire (< 6-10 years) and exclude chemical use.

Wildfires

Communications Information			
Service	Channel	Location and Comments	
NPWS VHF	292 290	CanobolasWRR Vote Group	
RFS Brigades UHF	11	 All brigades on fireground 	
RFS PMR	P010	Mount Coonambro	
Forestry Corporation VHF Repeater	3 or 144	 Mt Canobolas 	



containment lines. If possible take into account biodiversity requirements but never to the detriment of life and property. 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.



Fire Season Information

The critical wildfire season generally occurs from October/November to March/April.

Particular care is required following periods of Winter rain and after periods of negative Southern Oscillation Indices.

- Dry lightning storms frequently occur and typical fire weather conditions are winds from the west to the Prescribed north, high day time temperatures and low humidity. Burning
- Prescribed burning should generally be undertaken during Autumn, Winter or early Spring.
- Care should be taken to ensure a low intensity burn over most of the area treated.

Incident Map