Lachlan Valley State Conservation Area Hunthawang Precinct Fire Management Strategy 2012 Mapsheet 2 of 2

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4 km



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

Status of Biodiversity Thresholds



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 FD 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 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, 		
Dahahilitatian	The Threatened Species Operational Guidelines are to be observed. Where we stickly contained and should be stabilized and should be stabilized as a set of the wildfine compared size.		
Renabilitation	• where practicable, containment lines should be stabilised and renabilitated as part of the Wildfire suppression operation. • The potential impacts of smoke and possible mitigation factics must be considered when planning for wildfire suppression and proceribed.		
Smoke Management	 If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified, 		
Structural Fire Fighting	 Smoke management must be in accordance with relevant RTA traffic management guidelines. 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 prescribed burning or wildfire suppression operations.		
Warnings	 Beware of overhead powerlines, Beware of any gas bottles on the reserve and any dangerous goods storage areas, Reserve prone to flooding and only some trails will be trafficable after flood events or rainfall. 		

Threatened Sites Guidelines				
Site	Guidelines			
Aboriginal Cultural Heritage Site Management				
AH1	 Do not cut down trees As far as possible protect the site from fire Use of foams, wetting agents & retardant is acceptable. 			
AH2	 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. 			
AH3	 Avoid all ground disturbance including the use of earthmoving machinery, handline construction and driving over sites, Avoid water bombing which may cause ground disturbance, Permission required from Aboriginal Heritage Environment Officer and Aboriginal community. 			
Historic Heritage Site Management				
H1	 As far as possible protect the site from fire Avoid all ground disturbance including the use of earthmoving machinery, handline construction and driving over sites Avoid water bombing which may cause ground disturbance Use of foams, wetting agents & retardant is acceptable. 			
	Threatened Fauna Management			
FA1	 Utilise mosaic burning and avoid disturbance at known sightings, roostings or refuges and avoid frequent fire (<6 years). 			
FA2	 Utilise mosaic burning, avoid disturbance at known sightings, roostings or refuges, avoid frequent fire (<6 years) and exclude chemic use. 			
FA4	 Utilise mosaic burning, protect hollow bearing trees and avoid frequent fire (< 6—10 years). 			
FA5	Utilise mosaic burning.			
Threatened Flora Management				
FL2	 Utilise mosaic burning 			

Unburnt

No Fire

Regime

fires to burn

water bodies.

Areas which do not have thresholds assigned to them, e.g. cleared land, rock,

NB. Fire thresholds are defined for vegetation communities to conserve biodiversity

Bushfire Risk Management Strategies



Vegetation



	Vegetation Map Legend					
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour			
Forested Wetlands	River Red Gum Forests	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.				
Freshwater Wetlands	Lignum Shrubland with isolated Black Box (1) Scattered Lignum with <i>Panicum</i> grassland (2) Scattered Lignum & Nitre Goosefoot (3)	An interval between fire events less than 10 years and greater than 35 years should be avoided. Fire should be avoided where Chenopod species occur.	These vegetation communities will generally not carry fire unless there are high ephemeral fuel loads, which generally occur after flooding events and effective. 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. Red Gum trees commonly form candles. 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.			
Semi-arid Woodlands (Grassy sub- formation)	Black Box - Lignum Woodlands (4) Modified Boree Open Woodland (5) White Cypress Pine Woodland (6)	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 peri od of less than 10 years apart may remove younger Black Box trees.				
Semi-arid Woodlands (Shrubby sub- formation)	Derived Belah Woodland (7) Belah Woodland (8) Bimble Box – Belah - White Cypress Pine Woodland (9)	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.	areas described below.			
Arid Shrublands (Chenopod sub formation)	Grassland Area (contains isolated Chenopod spp.)	Fire should be avoided where Chenopods occur.	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			
Non-native vegetation	Cultivated and Cropping Areas	No fire regime	potentially still fast moving depending on weather conditions at the time.			
Fire History	Wildfires are generally attributed to lightning strikes. 4 small fires occurred in the 2011/2012 fire season, with the largest being 12 Ha. A large landscape fire burnt approximately 680 Ha in the north east of the reserve area in the 1969/1970 fire season.					
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 or experiencing dieback no prescribed burning will be permitted and wildfire areas will be minimised.					

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.			