



COMMENT ON FIRE BEHAVIOUR

Map 4 represents the potential (uphill) fire behaviour for an average January bushfire with 2007 fuel accumulation, fire behaviour will differ markedly with different climatic conditions. In contrast to this, management for worst-case conditions focuses on property protection and effective pre-fire measures will focus on maintenance of property Asset Protection Zones along with general property maintenance.

Fire behaviour will be significantly greater than map 4 when drought conditions are experienced, as the McArthur model considers only surface litter and the primary fuel consists of the shrubs, such as Daviesia and Bossiaea species. Effective fire management should focus on these species more than surface litter, as shrub fuels pose more of a threat.

Most assets are below the reserve and not at significant risk. There is risk to the powerlines under very high to extreme fire danger or drought conditions, the greatest protection will be afforded by maintenance of the easement beneath the powerlines.

The main fire risk to the reserve comes from arsonists along the roads or the river.

FIRE SEASON INFORMATION

The critical fire season occurs between December and March, when the potential for large fire events is at its highest. Particular care is required during extended periods of negative Southern Oscillation Indices, leading to periods of reduced rainfall.

The end of the critical fire season is marked by cold humid nights and cooler day temperatures with periods of relatively stable atmospheric conditions.

Snowy Mountains Region Nimmo Nature Reserve Fire Management Strategy 2005

Version: May 2005

This Map should be used in conjunction with air photos and ground reconnaissance during incidents and the development of incident action plans.

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FIRE MANAGEMENT OPERATIONAL GUIDELINES		
Area/Resource	Operational Guidelines	
Command and Control	If a ground crew from a non-responsible agency confirms the fire location, an initial attack may be mounted. Contact must then be made with the National Parks and Wildlife Service as soon as possible.	
	Attack methods must be consistent with the service's usual practices	
	If responsibility is unconfirmed, or is confirmed and contact cannot be made with the Service, then the first responsible agency should mount initial attack until such time as responsibility for control is established.	
	Cost for initial attack will be borne by the responding agency.	
	The transfer of control to the responsible agency from the first attack agency is to be (as much as possible) a smooth process. All information is to be passed on and should include verbal and hardcopy reports. Personnel in the field are to be advised of the transfer of control via a formal briefing.	
	The initial fireground Incident Controller is to remain in control until such time as he/she is relieved by the responsible agency. In some instances the responsible agency will request that the initial fireground Incident Controller remain in charge for the duration of the shift and direct incoming resources as required.	
Suppression strategies - seasons with saturated subsoils	Vehicle and earth-moving equipment may be limited due to the risk of bogging and should be avoided in areas known or identified to be prone to surface soil and subsoil saturation. Includes valley areas.	
Suppression strategies - seasons with moderate conditions	Severe or dry unstable weather conditions forecast Direct or parallel attack with plant and fire units to minimise the fire area and secure the flank as soon as possible. Moist weather forecast Maximise area when in accordance with proposed hazard reduction burns to meet long-term fire and land management objectives.	
Suppression strategies - seasons with severe conditions	Containment Strategy Undertake property protection of identified assets as highest priority Fall back to existing trails, roads and recently burnt areas when fire runs exceed control line construction rates, or are predicted to exceed during weather with very low humidities and shifting winds 0-3 year burn may hold head fire if deep enough and conditions mild enough 3-5 year burns will only reduce fire intensity in areas without grassy understorey Secure and deepen control lines on the next predicted downwind side of the fire Burn out the area between the control line and the fire front ASAP using ground and aerial ignitions Backburning Target backburning operations when the RH rises in late afternoon/early evening Consider restricting backburning operations on downwind control lines when RH<10% Maximise backburning operations with prevailing wind if appropriate Secure fire edge by timing the backburn to minimise the area impacted by a high intensity fire. Consideration should be given to wind speed, direction and RH when planning to implement backburns	
Earth moving machinery	Prior to use of earthmoving equipment on lands under the control of the National Parks and Wildlife Service, the approval of the Service is to be obtained. Plant must be guided at night due to safety concerns with steep terrain Plant guides should be briefed on the location of the proposed line & heritage items Control lines constructed by earth moving machinery should avoid rocky ridges, river corridors (200m buffer) and any areas identified to contain aboriginal sites Control lines running along valley areas should be constructed 20-50m from the gully line where possible to avoid severe erosion	
Restoration	Fire control lines constructed by earth moving equipment should be stabilised and rehabilitated at the completion of fire operations.	
Fire fighting chemicals	The use of foam, wetting agents and retardants is permitted in the reserve away from the water courses Areas treated with aerial applications of foam and retardants should be recorded where possible	

FIRE BEHAVIOUR AND VEGETATION MANAGEMENT GUIDELINES		
Community	Fire Behaviour Characteristics	Vegetation Management Guidelines
Open	* Varying grass types give different behaviours * Cured grasses dry quickly and will be available before surface fuels	* Species decline is predicted if fires occur more often than every 2 years * Grassy understorey and surface fuels established very quickly * Soils prone to erosion and weed invasion with frequent fire
Dry Forest	* Fires possible at most times of the year depending on altitude * Quick rate of spread due to drier fuels	* Species decline predicted if successive fires occur less than 22 years apart or further than 50 years apart
Dry Forest dom./Moist Forest	* Usually contains moderate to high fuel levels at most strata * Will burn intensely at moderate to high FDIs	* Species decline predicted if successive fires occur less than 16 years apart or further than 60 years apart * Frequent burning or opening of the canopy will cause faster drying of fuels and succession by more flammable species
Moist Forest	* Usually contains high fuel levels at all strata * Will burn intensely at high FDIs * Fires are rare but likely to be very hot	* Species decline predicted if successive fires occur less than 25 years apart or further than 60 years apart * Frequent burning or opening of the canopy will cause faster drying of fuels and succession by more flammable species
Moist Forest Tending to Dry	* Usually contains moderate to high fuel levels at most strata * Will burn intensely at moderate to high FDIs	* Species decline predicted if successive fires occur less than 26 years apart or further than 60 years apart * Frequent burning or opening of the canopy will cause faster drying of fuels and succession by more flammable species

CONTACT NUMBERS			
NATIONAL PARKS AND WILDLIFE SERVICE		RURAL FIRE SERVICE	
Jindabyne Office	6450 5555	State Operations	8845 3501 (24Hr)
Operations Room	6450 5573	Berridale Fire Control Centre	6450 5100
Area Manager - Andrew Harrigan	6450 5556		
Ranger - Andrew Miller	6450 5517	EMERGENCY SERVICES	
mobile	0427 884 254	POLICE	
Senior Ranger Fire - Ian Dicker	6450 5576	Jindabyne	6456 2244
mobile	0427 700 168	AMBULANCE	131 233
Technical Officer Fire - Phil Zylstra	6450 5595	STATE EMERGENCY SERVICE	
mobile	0428 462 880	Jindabyne	0417 256 076
After hours Incident Answering Service	1800 629 104		