

SFNSW

RFS - GRN

CB - UHF

Aircraft - VHF

Satellite Phone

Mobile Phone - CDMA

RFS – PMR - UHF

34, 6

1 - 99

44, 81 - 128 • Mt Wondurrigah

RFS.

RFS.

fire_ground

Available in most RFS vehicles.

Choose channel on fire-ground with

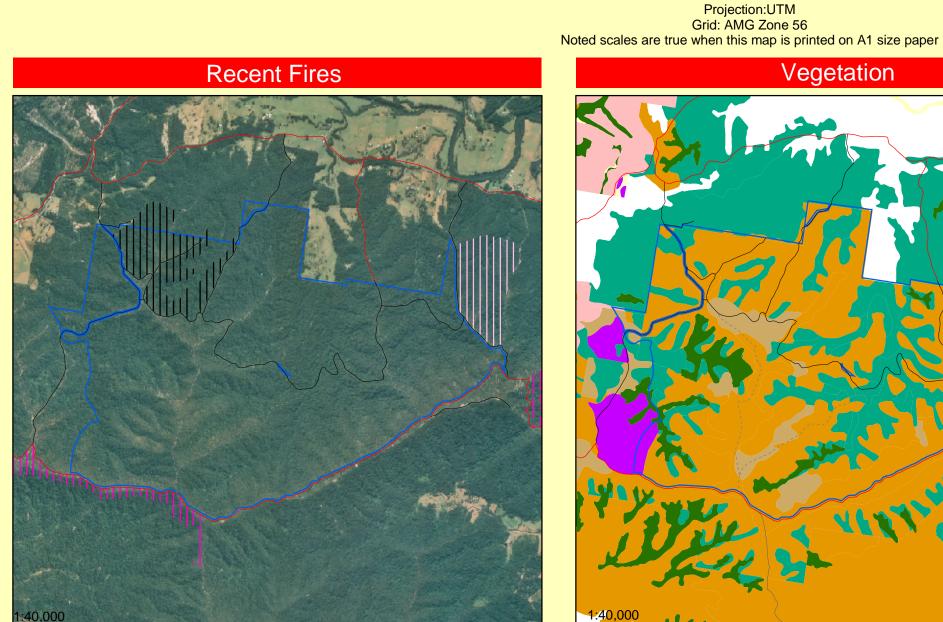
Choose channel on fire-ground with

Stored at Coffs Coast Area Office.

Requires clear view of the sky.

Patchy in gullies, determine number on

	F	ire Management Zones			
Asset Protection Zones	The objective of APZ s is the protection of human life and property. This will have precedence over guidelines for the management of biodiversity. Maintain Overall Fuel Hazard at Moderate or below.				
Strategic Fire	Zone Action Responsibility				
Advantage Zones	Block 1 SFAZ Block 2 SFAZ Block 3 SFAZ North East SFAZ	Prescribed burn when overall fuel hazard exceeds High to the four identified zones in conjunction with RFS and neighbours.	NPWS NPWS NPWS NPWS		
Heritage Management Zones	5	MZ s is to conserve biodiversity and protect cultural l tent with fire thresholds.	neritage.		



Jaaningga Nature Reserve ||||||| 2004-05 Fire Season 2003-04 Fire Season 2001-03 Fire Season

Contour Interval 10 metres				
Roads	\mathbf{M}	Gate - non NPWS	WV	Water Point Vehicle
····· Closed	\bowtie	Gate - NPWS	WH	Water Point Helicopt
Unclassified	$oldsymbol{O}$	Helipad	\Diamond	Threatened Property
Primary (Cat 1)	SA	Staging Area	(HSS)	European cultural site
Secondary (Cat 9)	ĥŗ	Vantage Point	<p></p>	Threatened flora
NPWS Estate	FA	Threatened fauna		
SFNSW Estate	•	Plantation	Assı	ume all gates are locke

Helipad Information Easting Northing Lat_DMS Long_DMS Newry Helipad492202662362930d31m10S152d55m07EKalang Helipad491477662405030d30m57S152d54m40E

Jaaningga Nature Reserve

Wet sclerophyll forest

Native Regrowth

Cleared/weeds

Swamp sclerophyll forest

Semi-mesic grassy forest

Shrubby dry sclerophyll forest

Agriculture/timber plantation

Rainforest



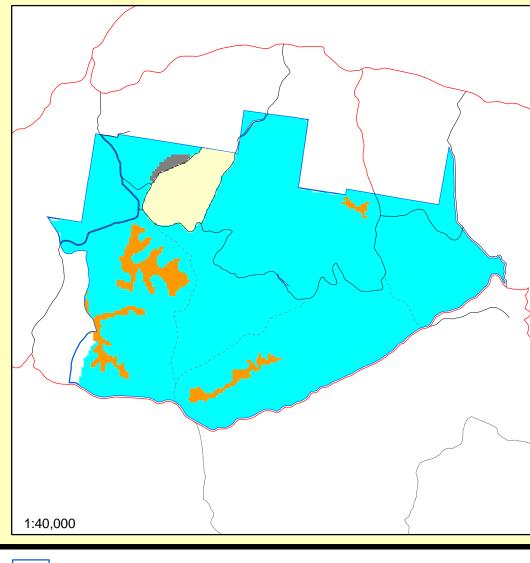


November. This period may extend into January in more severe years. Prescribed Burning General season is Autumn to late Winter. Burning is possible in (NPWS Fire Management Manual 4.7) early Spring but not desirable on a regular basis from an ecological or tourism point of view. **Suppression Strategies** Current FDR Forecast FDR Low – Mod Low – Mod Undertake direct, parallel or indirect attack along existing containment lines. Where practicable consider maximising the fire area in accordance with the requirements of any proposed prescribed burns. In order to minimise the fire area and secure the flanks as soon as possible, undertake direct, parallel or indirect attack along the Low – Mod =>High closest containment lines. Pay particular attention to the flank on the next predicted down wind side. Undertake indirect attack along existing or newly constructed High All containment lines. Secure and deepen containment lines along the next predicted downwind side of the fire. If applicable consider broader than normal containment strategies to avoid wasted effort and high risk of failure. All All Ensure there is sufficient time to secure containment lines prior to the fire impacting upon them; otherwise fall back to the next

Vegetation

Status of Fire Thresholds

potential line.



Jaaningga Nature Reserve Overburnt Vulnerable **Recently Burnt** Underburnt Almost Underburnt Within Threshold Unknown No regime assigned

Comma (NPWS FI

Earthm



Operational Guidelines					
	gy for Fire Management 2003 and Fire Management Manual 2004. rsonnel involved in suppression operations on the following issues:				
Resource	Guidelines				
Aboriginal Cultural Heritage Management (NPWS FMM 4.11)	• No known sites in Reserve. If new sites are located consult with a senior NPWS officer.				
Historic Heritage Management (NPWS FMM 4.10)	• Sites within the reserve are natural features, which would not be detrimentally affected by fire.				
	 Other sites within reserve are in areas with a low fire risk. If new sites are located consult with a senior NPWS officer. 				
Threatened Fauna Management (NPWS FMM 4.12 & 5.2)	• Where practicable, protect habitat areas and trees from the fire if the effects of the resulting fire frequency, season &/or intensity will have a significant or unknown				
(INP WS FIVINI 4.12 & 5.2)	 Where practicable, protect large and hollow-bearing trees. FA3 - Exclude fire from habitat (wetlands or rainforest). Avoid use of earthmoving 				
	 machinery, chemicals. FA4 - Mosaic burns to diversify understorey. Protect casuarina stands. FA8 - Avoid frequent fire (<10 yrs). 				
Threatened Flora Management (NPWS FMM 4.12)	 FL1 - Avoid the use of earth moving machinery in locations where these species are known to occur. Avoid the use of retardant in locations where these species are known to occur. 				
	• FL2 - As far as possible, exclude all fire from locations where these species are known to occur. Avoid the use of earth moving machinery in locations where these species are known to occur. Avoid the use of retardant in locations where these species are known to occur.				
Threatened Property	• Where possible property owners with assets at risk from a wildfire event should be kept informed regarding the progress of the fire and asked for an assessment of their current level of asset protection preparedness.				
General	Guidelines				
Aerial Water Bombing (NPWS FMM 4.4 / NSW Fire Agencies	• The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-overs.				
Aviation SOPs O2 / NPWS Guidelines for Effective Aircraft Management)	 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 (NPWS FMM 4.2.20, 4.4 / NSW Fire	• Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the prior consent of a senior NPWS officer.				
Agencies Aviation SOPs O2-4 / NPWS Guidelines for Effective Aircraft Management)	• Utilise incendiaries to rapidly progress back-burns down slope where required.				
Backburning (NPWS FMM 4.8)	• 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, backburning should commence when the humidity begins to rise in the late afternoon or early evening. With a lower FDI backburning may be safely undertaken during the day.				
	• Where practicable, clear a 1m radius around dead and fibrous barked trees adjacent to containment lines prior to backburning, or wet down these trees as part of the				
	backburn ignition.				
	• Avoid ignition of backburns at the bottom of slopes where a long and intense up slope burn is likely.				
Command & Control (NPWS FMM 4.2)	• The first combatant agency on site may assume control of the fire, but then must ensure the relevant land management agency is notified promptly.				
	 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. 				
Containment Lines (NPWS FMM 2.2, 3.9)	 Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact. New containment lines require the prior consent of a senior NPWS officer. 				
	 Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation. 				
	• All containment lines not required for other purposes should be closed at the cessation of the incident.				
	• All personnel involved in containment line construction should be briefed on both natural and cultural heritage sites in the location.				
Earthmoving Equipment (NPWS FMM 4.2.20, 4.3)	• 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 be always guided and supervised by an experienced officer, and accompanied by a support vehicle. When engaged in direct or parallel attack this vehicle must be a firefighting 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 should be washed down, where practicable, prior to it entering NPWS estate. 				
Fire Advantage Recording	• All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.				
Fire Suppression Chemicals (NPWS FMM 4.2.20, 4.9)	• Wetting and foaming agents (surfactants) are permitted for use in wildfire suppression.				
	 The use of fire retardant is 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 rainforest, watercourses, 				
	dams and swamps.Areas where fire suppression chemicals are used must be mapped and the used				
	products name recorded.The Threatened Species Operational Guidelines are to be observed.				
Rehabilitation (NPWS FMM 5.1)	• 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				
(NPWS FMM 3.4)	when planning for wildfire suppression and 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				
Visitor Management	 guidelines. The reserve may be closed to the public during periods of extreme fire danger or 				
(NPWS FMM 3.6, 4.13)	during wildfire suppression operations.				

	Fire Thresholds			
werhurnt	Fire thresholds have been exceeded.			
	• Protect from fire as far as possible.			
ulnerable	The area will be Overburnt if it burns this year.			
	· Protect from fire as far as possible.			
cently Burnt	Time since fire is less than the optimum interval, but before that it was within threshold.			
	· Avoid fires if possible.			
in Threshold	Fire history is within the threshold for vegetation in this area.			
	\cdot A burn is neither required nor should one necessarily be avoided.			
st Underburnt	The area is close to its threshold and may become underburnt with the absence of fire.			
	\cdot A prescribed burn may be advantageous. Consider allowing unplanned fires to burn.			
nderburnt	Fire frequency is below fire thresholds in the area.			
	\cdot A prescribed burn may be advantageous. Consider allowing unplanned fires to burn.			
Unknown	Insufficient data to determine fire threshold.			
NB. Fire	thresholds are defined for vegetation communities to conserve biodiversity			