

Operational Guidelines		
Refer to Current Fire N	Management Manual (updated annually)	
Brief all personnel involved in	suppression operations on the following issues:	
Resource Guidelines		
Aboriginal Cultural Heritage	Caution : Known sites are mapped, this reserve	
Site Management	may contain unknown sites.	
(NPWS FMM)		
A1	As far as possible protect site from fire. Do not cut down trees. Use of foams, wetting agents & retardant is acceptable.	
A2	As far as possible protect site from fire. Avoid ground disturbance including handtools, dozers. Avoid water bombing which may cause ground disturbance.	
A3	Avoid ground disturbance including handtools, dozers. Avoid water bombing which may cause ground disturbance. Site may be burnt by wildfire, backburn, prescribed burn.	
Historic Heritage Management (NPWS FMM)	*RCHMS: Regional Cultural Heritage Management Strategy. In areas where the asset may be in or close to a water body, wetland or swamp, no foam or retardant is to be used. Earth-moving machinery is to be used around, rather than over/through assets.	
HS1	High RCHMS* priority. Avoid fire, including wildfire, backburning & PB. Avoid all water bombing activities.	

Guidelines (continued)
anagement Manual (updated annually)
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Guidelines
*RCHMS: Regional Cultural Heritage Management
Strategy.
In areas where the asset may be in or close to a water body, wetland or swamp, no foam or retardant is to be
used.
Earth-moving machinery is to be used around, rather
than over/through assets.
High RCHMS* priority.
Avoid fire, including wildfire, backburning & PB.
High or low RCHMS* priority.
Heritage site unlikely to be effected by fire.
Danger to any fire crew activity. Avoid site at
all costs.
Low RCHMS* priority. Avoid fire, including wildfire, backburning &
PB.
Avoid all water bombing activities.
Low RCHMS* priority.
Avoid fire, including wildfire, backburning &
PB.
High or low RCHMS* priority.
Heritage site unlikely to be effected by fire. Avoid use of earth moving machinery.
High or low RCHMS* priority.
Heritage site unlikely to be effected by fire.
Avoid use of earth moving machinery.
Avoid all water bombing activities.
Protect large and hollow bearing trees.
Protect large and hollow bearing trees.
Avoid interfire intervals of < 10 yrs. Avoid high intensity fires that consume tree
canopies and fallen logs.
Avoid interfire intervals of < 10 yrs.
Habitat unlikely to be effected by fire.
Avoid use of earth moving machinery in
wetland habitats.
Avoid use of retardant and foam in wetland
habitats. Habitat unlikely to be effected by fire.
Avoid use of earth moving machinery in dune
habitats.
Avoid fire, including wildfire, backburning &
HR, as far as possible in wetland habitat.
Avoid use of earth moving machinery in wetland habitats.
Avoid use of retardant and foam in wetland
habitats.
Avoid high intensity fires that consume tree
canopies and fallen logs.
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Avoid fire, including wildfire, backburning & HR, as far as possible.
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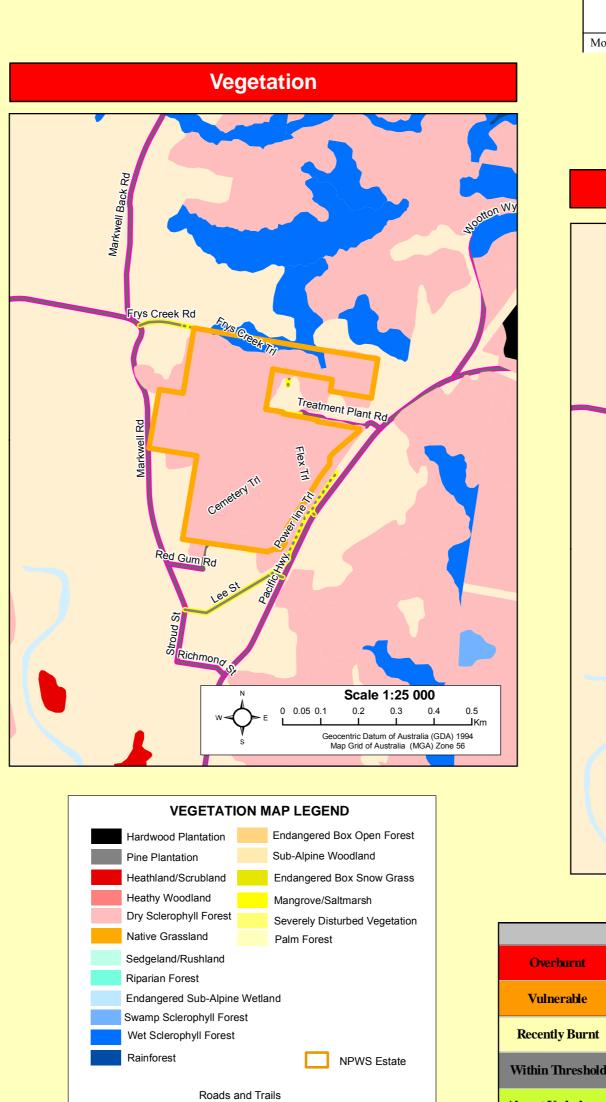
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FL1	Avoid interfire intervals of < 10 yrs.
	Avoid the use of earthmoving machinery.
	Avoid the use of retardant.
FL2	Avoid fire, including wildfire, backburn,
	prescribed burning, as far as possible.
	Avoid the use of earthmoving machinery.
	Avoid the use of retardant.
FL3	Avoid high intensity fire.
	Avoid interfire intervals <10 years, effect
	unknown.
	Avoid the use of earth moving machinery.
FL4	Avoid summer fire.
	Avid high intensity fire.
	Avoid earth moving machinery.
FL5	Avoid low intensity fire.
	Avoid interfire intervals of < 5 yrs.
	Avoid earth moving machinery.
	Avoid the use of retardant.

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Risk Management Information
Fire Management Zones Asset Protection The objective of APZs is the protection of human life and property. This will have precedence over
Zones guidelines for the management of biodiversity. Maintain Overall Fuel Hazard at Moderate or below. Strategic Fire The objective of SFAZs is to reduce fire intensity across larger areas. Maintain Overall Fuel Hazard at
Advantage Zones High or below, however adherence to guidelines for biodiversity will take precedence where practical. Zone Responsibility
Bulahdelah Prescribed burn using ground based methods targeting 75% or greater of the total area DECC
Land Management Zones The objective of HMZs is to conserve biodiversity and protect cultural heritage. Manage fire consistent with fire thresholds.
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Cat 7, Essential Cat 7, Important
Cat 9, Essential Cat 9, Important
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Richmond St Resultain

Operation	al Guidelines (continued)	
Refer to Current Fire N	Management Manual (updated annually)	1
Brief all personnel involved in	suppression operations on the following issues:	W
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 / NSW Fire Agencies Aviation SOPs O2 / NPWS Guidelines for Effective Aircraft Management)	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	P
	operations.	
Aerial Ignition (NPWS FMM / NSW Fire Agencies Aviation SOPs O2-4 / NPWS Guidelines for Effective Aircraft Management)	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. Utilise incendiaries to rapidly progress back-burns down slope where required.	
	Beware of high voltage powerlines running from north to south through park.	
Backburning (NPWS FMM)	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.	
	likely. Brief all involved personnel on the location of cultural sites and threatened species prior to backburning, and adhere to the above guidelines.	

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	Beware of high voltage powerlines running from north to south through park.
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Command & Control (NPWS FMM)	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 inciden management team requirements as per the relevan
	BFMC Plan of Operations.
Containment Lines (NPWS FMM)	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 and rehabilitated 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.
Smoke Management (NPWS FMM)	The potential impacts of smoke and possible mitigation tactics must be considered wher planning for wildfire suppression and prescribed burning operations.
	If smoke becomes a hazard on local roads of
	highways, the police and relevant media must be notified.

Contact Information		
Agency	Position / Location	Phone
NPWS	Hunter Region Duty Officer (24hr)	016 301161 / 0429 144880
	Great Lakes Area Manager	65910301 / 0429144874
	Fire Management Officer	4984 8206 / 0429 144870
	Regional Operations Coordinator	4984 8212 / 0429 144872
	Great Lakes Area Office	6591 0300 / (fax) 6554048
	Hunter Regional Office	4984 8200 / (fax) 4981 59
RFS	Great Lakes	6555 5782 / (fax) 6555 88
		6555 8888 (After hours)
NSW Fire Brigade	Emergency	000
	Newcastle Communications (24hr)	49297 177 / (fax) 4927 25
SES	Emergency	000
	Forster	6554 0716 / (fax) 6554 07
Police	Emergency	000
	Scone	4997 4204 / (fax) 4997 43
Ambulance	Emergency	000
	Bookings	131 233
Hospital	Bulahdelah	4997 4477
DPI - Forests	Hunter Region Office Maitland	4931 6519 / (fax) 4933 07
		0429 491 868
Council	Great Lakes	6591 7222 / (fax) 6591 72
		0408 652662 (Ah)
Local Aboriginal Land Council	Forster	6555 5411
Treatment Works	Mid Coast Water	0417439440
		49974975



Cat 1, Essential Cat 9, Essential Cat 1, Important Cat 9, Important

Cat 7, Essential Dormant, Dormant Cat 7, Important — Unknown, Unknown

		tegy Information
	Fire	Season Information
Wildfires		Caution: Within the Scone shire numerous high yielding agricultural industries (i.e house studs) exists. Suppression activities (i.e aerial) and bushfire smoke may impact these industries.
		Reserves of the Hunter Region are located in a zone between subtropical, summer maximum rainfall patterns to the north and temperate, winter maximum patterns to the south.
		Most extreme fire weather conditions occur during spring and early summer resulting in moderate temperatures, low relative humidity and strong winds.
		Subtropical rainfall in January usually ends the fire season in most years, however, if rain events do not occur the fire season may last from August to March.
Prescribed Burning		General season is Autumn to late Winter due to low fire risk
		Burning is possible in early Spring under suitable weather conditions
		opression Strategies
Current FDR	Forecast FDR	
Low - Mod	Low - Mod	Undertake direct, parallel or indirect attack along existing containment lines taking advantage of natural fire control advantages. Where practicable consider maximising the fire area in accordance with the requirements of any proposed prescribed burns. Identify and survey backup control lines.
		In order to minimise the fire area and secure the flanks as soon as possible, undertake direct, parallel or indirect attack along the closest containment lines.
Low - Mod	=> High	Pay particular attention to the flank on the next predicted down wind side. Identify and survey backup control lines. Construct new control lines if necessary to minimise the time to contain the fire.
		Undertake indirect attack along existing or newly constructed containment lines.
High	All	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 potential line.

Earthmoving Equipment	Earthmoving equipment may only be used with
(NPWS FMM)	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)	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)	Stabilised and rehabilitated where practicable as part of the wildfire suppression operation.
Visitor Management (NPWS FMM)	The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.

Operational Guidelines (continued) Refer to Current Fire Management Manual (updated annually) Brief all personnel involved in suppression operations on the following issues:

Communications Information		
Service	Channel	Location and Comments
NPWS - VHF	26	Cabbage Tree
NPWS - VHF (Portable	15	Can be located anywhere
Repeater)		Kept at Regional Office
RFS - PMR	32	Cabbage Tree
SF - VHF	79 (NPWS)	Use 79 on NPWS - VHF radios
	15 (SF)	Use 15 on SF – VHF Radios
CB - UHF	1-99	Available in most RFS vehicles
		Choose channel on fire-ground with RFS
Mobile Phone – Next G	Good signal in the par	k



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

Fire thresholds have been exceeded.

