



Fire Thresholds	
Overburnt	Fire thresholds have been exceeded.
Vulnerable	The area will be overburnt if it burns this year.
Recently Burnt	Time since fire is less than the optimum interval, but before that it was within threshold.
Within Threshold	Fire frequency is near the threshold for vegetation in this area.
Almost Underburnt	A prescribed burn may be advantageous. Consider allowing unplanned fires to burn.
Underburnt	Fire frequency is below fire thresholds in the area.
Unknown	Inufficient data to determine fire threshold.
NB. Fire thresholds are defined for vegetation communities to conserve biodiversity	

Contact Information Lake Innes NR	
Agency	Position / Location
NPWS	Regional Duty Officer Area Manager Hastings Fire Management Officer Regional Operations Coordinator Regional Office
Rural Fire Service	Operations Officer Hastings Hastings Fire Control Centre 24 hour Number
NSW Fire Brigade	Emergency Port Macquarie PMQ Zone Office
SES	Emergency Port Macquarie Unit
Police	Emergency Port Macquarie
Ambulance	Emergency All Bookings
Hospital	Port Macquarie Base Hospital
Dept. of Lands	Tares
State Forests	Queens Lake Waughope
Council	Hastings Council After Hours Number
Aboriginal Land Council	Binyaah Aboriginal Land Council Regional Aboriginal Land Council

Communication Information		
Service		
NPWS - VHF	9	Channel 1 as alternate
NPWS - VHF (Foreground Comms)	41	Channel 33 as alternate
NPWS - VHF (Portable Repeater)	13	Held at Hastings Depot in Port Macquarie.
RFS - PMR - UHF	89	Channel 89 (Jolly Nose), not linked
RFS - GRN	Not Available	
SF - VHF	32	NPWS Equivalent Channel 91
CB - UHF	12	Alternate 23
Aircraft - VHF	No	N/A
Mobile Phone - CDMA	Yes	
Mobile Phone - GSM	Yes	

Operational Guidelines	
Refer to Strategy for Fire Management 2003 and Fire Management Manual 2004. Brief all personnel involved in suppression operations on the following issues:	
Resource	Guidelines
Aboriginal Cultural Heritage Management (NPWS FMM 4.1.1)	<ul style="list-style-type: none"> <li>AH1 - As far as possible protect site from fire. Do not cut down trees.</li> <li>AH2 - As far as possible protect site from fire. Avoid all ground disturbance including control lines, burning, bulldozing and driving over sites. Avoid water bombing which may cause ground disturbance.</li> <li>AH3 - Avoid all ground disturbance. Avoid water bombing. Site may be burnt by bushfire, back-burn or prescribed burn without damage.</li> <li>HII - At all times protect site from fire. Avoid all ground disturbance including the use of earthmoving machinery, bulldozing and driving over sites. Avoid water bombing, which may damage site.</li> <li>HII - As far as possible protect site from fire. Avoid all ground disturbance including the use of earthmoving machinery, bulldozing and driving over sites. Avoid water bombing.</li> </ul>
Historic Heritage Management (NPWS FMM 4.10)	<ul style="list-style-type: none"> <li>Clear 1m radius around stumps, habitat and feed trees as well as on-ground hollows adjacent to control lines, before commencement of HR or backburn.</li> <li>Avoid high intensity fire, where possible do not allow flame height to exceed one third of tree height.</li> <li>Post fire fox baiting program suggested.</li> <li>Wildlife rescue programs to be implemented when IC declares it safe to undertake ground rescue operations.</li> </ul>
Threatened Fauna Management (NPWS FMM 4.12 & 5.2)	<ul style="list-style-type: none"> <li>Avoid high intensity fire, where possible do not allow flame height to exceed one third of tree height.</li> <li>Wetting agents, foams and retardants are not to be used within 50 metres of water way or water bodies.</li> <li>Where possible property owners with assets at risk from a wildfire event should be kept informed of the progress of the fire, and asked for an assessment of their current level of asset protection preparedness.</li> </ul>
Threatened Flora Management (NPWS FMM 4.12)	<ul style="list-style-type: none"> <li>The use of bombing aircraft should support containment operations by aggressively applying bombing retardants and retarders.</li> <li>The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances.</li> <li>Where practicable foam should be used to increase the effectiveness of the water.</li> <li>Ground crews must be alerted to water bombing operations.</li> </ul>
Threatened Property	<ul style="list-style-type: none"> <li>Aerial ignition must be used during back burning or fuel reduction operations where practicable, but only with the prior consent of a senior NPWS officer.</li> <li>The use of incendiaries will require the prior consent of a senior NPWS officer.</li> </ul>
General	<ul style="list-style-type: none"> <li>The use of bombing aircraft should support containment operations by aggressively applying bombing retardants and retarders.</li> <li>The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances.</li> <li>Where practicable foam should be used to increase the effectiveness of the water.</li> <li>Ground crews must be alerted to water bombing operations.</li> </ul>
Aerial Water Bombing (NPWS FMM 4.2.20 & 4.4. NPWS Practices Aviation SOP-02 / NPWS Guidelines for Effective Aircraft Management)	<ul style="list-style-type: none"> <li>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.</li> <li>The first combatant agency on site may assume control of the fire, but then must ensure the relevant land management agency is notified promptly.</li> <li>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 BFM/Plan of Operations.</li> </ul>
Backburning (NPWS FMM 4.8)	<ul style="list-style-type: none"> <li>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.</li> <li>Where practical, clear 1m radius around dead and fibrous bark trees adjacent to containment lines prior to backburning, or wet down these trees as part of the backburn operation.</li> <li>Avoid ignition of backburns at the bottom of slopes where a long and intense up slope wind is blowing.</li> <li>The first combatant agency on site may assume control of the fire, but then must ensure the relevant land management agency is notified promptly.</li> <li>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 BFM/Plan of Operations.</li> </ul>
Command & Control (NPWS FMM 4.2)	<ul style="list-style-type: none"> <li>Containment lines must be constructed within the reserve.</li> <li>Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.</li> <li>All containment lines not required for other purposes should be closed at the earliest opportunity.</li> <li>All personnel involved in containment line clearance should be briefed on both natural and cultural heritage sites in the location.</li> </ul>
Containment Lines (NPWS FMM 2.2 & 3.9)	<ul style="list-style-type: none"> <li>Earthmoving equipment may only be used with the prior consent of a senior NPWS officer, and then only if the probability of success is high.</li> <li>Earthmoving equipment must be always guided and supervised by an experienced operator, and discontinued when engaged in direct or parallel attack this vehicle must be a firefighting vehicle.</li> <li>Containment lines cleared by earthmoving equipment should consider the protection of heritage features, observe the Threatened Species and Cultural Heritage Operating Guidelines, and where possible identify unknown cultural heritage sites, particularly in the Lake Innes Peninsula HS.</li> <li>Earthmoving equipment should be washed down, where practicable, prior to it entering NPWS estate.</li> </ul>
Earthmoving Equipment (NPWS FMM 4.2.20 & 4.3)	<ul style="list-style-type: none"> <li>All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.</li> <li>Wetting agent foaming agents (surfactants) are permitted for use in wildfire suppression.</li> <li>The use of fire retardant is not permitted without the prior consent of a senior NPWS officer.</li> <li>Include the use of surfactants and retardants within 50m of rainforest, watercourses, dams and swamps.</li> <li>Areas where fire suppression chemicals are used must be mapped and the used products name recorded.</li> <li>The Threatened Species Operational Guidelines are to be observed.</li> </ul>
Fire Advantage Recording	<ul style="list-style-type: none"> <li>Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.</li> <li>The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations.</li> <li>If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified.</li> <li>Smoke management must be in accordance with relevant RTA traffic management guidelines.</li> </ul>
Fire Suppression Chemicals (NPWS FMM 4.2.20 & 4.9)	<ul style="list-style-type: none"> <li>The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.</li> </ul>
Rehabilitation (NPWS FMM 5.1)	<ul style="list-style-type: none"> <li>Earthmoving equipment must be always guided and supervised by an experienced operator, and discontinued when engaged in direct or parallel attack this vehicle must be a firefighting vehicle.</li> <li>Containment lines cleared by earthmoving equipment should consider the protection of heritage features, observe the Threatened Species and Cultural Heritage Operating Guidelines, and where possible identify unknown cultural heritage sites, particularly in the Lake Innes Peninsula HS.</li> <li>Earthmoving equipment should be washed down, where practicable, prior to it entering NPWS estate.</li> </ul>
Smoke Management (NPWS FMM 5.4)	<ul style="list-style-type: none"> <li>The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations.</li> <li>If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified.</li> <li>Smoke management must be in accordance with relevant RTA traffic management guidelines.</li> </ul>
Visitor Management (NPWS FMM 3.6 & 4.13)	<ul style="list-style-type: none"> <li>The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.</li> </ul>



Strategy Information						
Fire Season Information						
Wildfires		<ul style="list-style-type: none"> <li>Have been known to start as early as late August, but usually the period for a late fire event is greatest between October and November. The fire season may extend into January in more severe years.</li> </ul>				
Prescribed Burning (NPWS Fire Management Manual 4.7)		<ul style="list-style-type: none"> <li>General season is Autumn to late Winter. Burning is possible in early Spring but not desirable on a regular basis from an ecological point of view.</li> </ul>				
Suppression Strategies		<ul style="list-style-type: none"> <li>Undertake direct, parallel or indirect attack along existing containment lines.</li> <li>Where appropriate consider maximising the fire area in accordance with the requirements of any proposed prescribed burning operation.</li> </ul>				
Current FDR	Forecast FDR	<table border="1"> <thead> <tr> <th>Low - Mod</th> <th>Low - Mod</th> </tr> </thead> <tbody> <tr> <td>=&gt; High</td> <td></td> </tr> </tbody> </table>	Low - Mod	Low - Mod	=> High	
Low - Mod	Low - Mod					
=> High						
Low - Mod		<ul style="list-style-type: none"> <li>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.</li> <li>Pay particular attention to the rank on the next predicted down wind side.</li> </ul>				
High		<ul style="list-style-type: none"> <li>Undertake indirect attack along existing or newly constructed containment lines.</li> <li>Secure the flanks of the fire area along the next predicted downwind side of the fire.</li> <li>If applicable consider broader normal containment strategies to avoid wasted effort and high risk of failure.</li> </ul>				
All		<ul style="list-style-type: none"> <li>Ensure there is sufficient time to secure containment lines prior to the fire impacting upon them; otherwise fall back to the next potential line.</li> </ul>				

