## Cathedral Rock National Park Fire Management Strategy (Type 2) 2022 - 2027 N.S.W This strategy should be used in conjunction with aerial photography and field reconnaissance . 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. The NSW National Parks and Wildlife Service is part of the Department of Planning, Industry and Environment. Published by the Department of Planning, Industry and Environment (NSW). Contact: NSW National Parks and Wildlife Service, Northern Inland Branch ISBN: 978-1-922558-56-5 DPIE Number: EES2021/0161 Last Updated: 23/12/2021 This strategy is a relevant Plan under Section 38 (4) and Section 44 (3) of the Rural Fires Act 1997. Locality Map ----- NPWS Branch Boundary Wilderness Declared



Topographic Map 1:25,000 Maiden Creek 9337-3S, Ebor 9337-2S

Local Government Area: Armidale Regional (S).

Contact Information			
Agency	Position / Location	Phone	
	Area Manager - Darren Pitt	0427 212 255	
National Parks	Duty Officer (24 hour)	8275 1742	
	Northern Tablelands Area Office (bus. hours)	6739 0700	
	NE Zone Manager – Paul Metcalf	0437 678 116	
NSW Rural Fire Service	NE Duty Officer	6739 6911	
	NE Zone Office	6771 2400	
Forest Corporation of NSW	Coffs Harbour Grafton State Duty Officer	6652 0111 6640 2222 9965 4375	
Fire & Rescue NSW 000		000	
Emergency Services	Police, Fire, Ambulance	000	
SES		132 500	
Police	Armidale	6771 0699	
Council	Council Armidale Regional 1300 136 833		
Local Aboriginal Land Council Armidale LALC Dorrigo LALC		6772 2447 6757 2606	
Local Land Services	Glen Innes Armidale	6732 8800 6770 2000	
Air Services Australia (Communications Facility)	Jesse Van Miltenburg 02 9556 6845		
UNE Research	Guy Ballard 0427 201 415		

Service	Channel	Location and Comments	
NPWS Repeaters to Northern Inland Branch	341 340 Ch + 300 Ch + 600	<ul> <li>Point Lookout.</li> <li>South Vote Group.</li> <li>Fireground.</li> <li>Tower Isolation.</li> </ul>	
FC NSW	194 (NP77) 80mhz radios)	<ul> <li>Frog Hollow</li> <li>NPWS holds 80MHz hand helds at Tenterfield and vehicle mounted at Armidale.</li> </ul>	
RFS	N009	New England Digital Voting.	
UHF - CB		Small fires channel 10, large fires determined by IMT.	
Aviation - CTAF	134.70	NIB frequency unless another frequency is allocated on an incident.	
Mobile		Good reception at the intersection of Round Mountain Road and The Waterfall Way. Patchy elsewhere.	
Satellite Phone	0147 165 975 0147 154 198	Stored at Glen Innes.	

Wildfires	The critical wildfire season occurs during October to December, but wildfires can occur as early as August The fire season may extend into the first half of January in dryer than normal years. Particular care is required during periods of negative Southern Oscillation Indices. Summer rainfall is normally reliable. The end of the critical fire season is often marked by wet storm activity.
Prescribed Burning	Effective prescribed burning normally occurs in late winter and early spring when surface and near surface fuels have high levels of curing, but daytime temperatures are still cool and night time temperatures are cold. By late spring hazard reduction burns may burn too hot. Autumn burns can be considered if conditions are suitable. Prescribed burning attempted after autumn rain is unlikely to be effective.

Operational Guidelines		
Aerial Operations	<ul> <li>Aerial operations will be managed by trained and competent personnel. This includes directing aerial bombing and aerial ignition operations</li> <li>The use of bombing aircraft without the support of ground-based suppression crews should be limited to very specific circumstances.</li> <li>All aerial ignition operations require the consent of a senior NPWS officer or the Section 44 Appointee.</li> </ul>	
Backburning	<ul> <li>All personnel must be fully briefed before back burning operations begin.</li> <li>Backburning in areas of Low – Moderate OFH will require the use of wind, or low humidity to maximise effectiveness.</li> <li>Where possible clear around dead and fibrous barked trees adjacent to control lines prior to backburning.</li> </ul>	
Command & Control	<ul> <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>The initial Incident Controller will liaise with the RFS to ensure that the agency in command is determined and an Incident Controller is appointed.</li> </ul>	
Containment Lines	<ul> <li>New containment lines require the prior consent of a senior NPWS officer.</li> <li>Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact.</li> <li>All personal involved in containment line construction should be briefed on, and must consider both natural and cultural heritage sites in the location.</li> <li>All containment lines not required for other purposes should be closed immediately at the cessation of the incident.</li> <li>Due to rock and terrain, Cathedral Rock NP has limited internal fire trails. Perimeter trails meander through both Reserve and private property. Neighbours should be consulted prior to any maintenance works occurring.</li> </ul>	
Earthmoving Equipment	<ul> <li>Plant may only be used with the prior consent of a senior NPWS Officer.</li> <li>Plant must always be guided and supervised by an experienced officer and accompanied by a support vehicle (NPWS). When engaged in direct or parallel attack, this vehicle must be a fire fighting vehicle.</li> <li>Plant must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate.</li> </ul>	
Hazard Reduction Burning	<ul> <li>Landscape scale fires have occurred across this reserve. Hazard reduction activities in Land Management Zones should be limited to hazard reduction burning which aims to create a mosaic of age classes since the last major fire event.</li> <li>Limited fire trails in Cathedral Rock National Park means many hazard reduction burns are only possible as cooperative burns with private property neighbours. NPWS will engage with neighbours when hazard reduction burns are proposed.</li> <li>Neighbours who propose burning on private property, where due to terrain and trails the burn is likely to enter NPWS estate will be engaged cooperatively. Private property burns are controlled by the Rural Fire Service who should coordinate such requests in consultation with NPWS.</li> </ul>	
Wild Dog Fence	• The wild dog fence was extensively damaged in the 2019/20 wildfires. Many sections have been rebuilt and the fence is an asset of some significance. Fire management operations should consider protection of this asset.	
Fire Suppression Chemicals	<ul> <li>The use of foam, wetting agents and retardants will NOT be permitted within 50 metres of dams and watercourses holding water.</li> <li>The aerial use of gels and retardants should be approved by a senior NPWS officer.</li> <li>The use of retardants requires the approval of a senior NPWS officer.</li> </ul>	
Rehabilitation	Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.	
Water Points	• Water points are extremely limited and not always reliable. Consider deployment of a bulk water carrier to support fire operations.	
Smoke Management	<ul> <li>Potential smoke impacts and mitigation tactics will be assessed during the planning of fire operations.</li> <li>The Waterfall Way and The Guyra Ebor Road both carry significant traffic which should be considered in fire operations.</li> </ul>	
Visitor Management	<ul> <li>In Extreme + Fire Danger at the Branch Directors discretion, reserves or sections of the reserve may be closed or evacuated.</li> <li>Ensure the closure is advertised on the NPWS visitor website.</li> </ul>	
(WARNINGS	<ul> <li>High voltage powerlines cross the Nature Reserve in the north in the vicinity of Ebor. They cross the gorges at an elevation which may pose risks to aerial fire fighting.</li> <li>Fires can move very rapidly in Cathedral Rock National Park and trail access is limited. Entrapment of fire fighters is an issue that be considered in deployments.</li> </ul>	

	Heritage Guidelines
Aboriginal Cultural Heritage	<ul> <li>Modified trees</li> <li>As far as possible, protect the site from fire, and do not cut trees</li> <li>Use of foams &amp; retardant is acceptable.</li> <li>Habitation sites</li> <li>Exclude control line construction from sites. Consider a buffer zone of about 50 metres from the sites</li> <li>AIIMS databases must be checked as part of planning for fire operations</li> </ul>
Historic Sites	<ul> <li>Dog fence on private property and reserve near the western boundary</li> <li>As far as possible, protect both old and new sections of dog fence from fire.</li> <li>Use of foams &amp; retardant is acceptable.</li> <li>The historic sites displayed on the map are those considered vulnerable to fire or suppression activities.</li> <li>They include the Yooroonah Tank Barrier, a cutting and tunnel and native dog camping area.</li> </ul>
Threatened Fauna & Flora	<ul> <li>The protective actions for threatened fauna have been incorporated into the Operational Guidelines</li> <li>A significant Gondwana rainforest remnant of less than 40 individual Antarctic Beech trees exist within Cathedral Rock NP. They are potentially the highest examples of this species in the world and are up to 300 years old. Hazard reduction burning and wildfire suppression should aim to limit the intensity of fire in the vicinity of these trees.</li> </ul>
Soil Erosion Management	Terrain and rock mean there are few options for internal fire line construction in this reserve. Any trails used for fire suppression should be drained as soon as possible after use.
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	Suppression Strategies
Conditions	Guidelines
Intent: Due to the	remoteness and scale of the reserve and minimal internal fire trails, access is difficult. Early RAFT
response has pro	ven effective in suppressing fires to small areas. Aerial reconnaissance and RAFT deployment may be
considered as effe	ective options to new ignitions and lightning strikes.
All vegetation typ	es
Fire danger rating LOW - HIGH	<ul> <li>Direct attack to minimise fire size.</li> <li>Consider a broad containment strategy using existing roads, allowing long-term management requirements for biodiversity</li> </ul>
	Close parallel or direct attack may be an option at night depending on weather conditions.

LOW - HIGH	requirements for biodiversity	
Fire danger rating VERY HIGH	<ul> <li>Close parallel or direct attack may be an option at night depending on weather conditions.</li> <li>Distance between the flank and machinery and fire units should be kept to a minimum</li> <li>Secure and deepen containment lines on the next predicted downwind side of the fire.</li> </ul>	
	<ul> <li>May require aerial support to manage spot overs and monitor fire spread.</li> </ul>	
	<ul> <li>Firefighter safety is the paramount consideration in deployment.</li> </ul>	Ī
	Undertake broad containment strategies using main fire trails and cleared country.	
The second secon	<ul> <li>Lactics will include property protection where sate and pecessary</li> </ul>	

 

 Fire danger rating SEVERE • Tactics will include property protection where safe and necessary.

 • Close parallel or direct attack and / or mop up of fire edge may be an option at night depending on

 EXTREME + weather conditions. Warning: Fire runs should be anticipated with winds from any direction. Entrapment risk is very, hiah.



dictated by their surrounding vegetation types



Vegetation Threshold	Treatment	
Too Frequently Burnt	Fire thresholds have been exceeded. Protect from fire as far as possible.	
Vulnerable to Frequent Fire	The current interval since last fire is shorter than the recommended minimum interval.	
Within Threshold	Fire history is within the threshold for vegetation in this area. A burn is neither required nor should one necessarily be avoided	
Long Unburnt	Fire frequency is below fire thresholds in the area. A prescribed burn may be advantageous. Consider allowing unplanned fire	
Unknown	Insufficient data to determine fire threshold.	
No Regime Assigned	Areas which do not have recommended fire intervals assigned to them eg. cleared land, rock.	
NB. Fire thresholds are defined for vegetation communities to conserve biodiversity		



Fire Type	Fire Details
Prescribed Burn	Last recorded prescribed burn was in 1999-2000
- Wildfire	2019-20: Guyra Road, Ebor. A hot wildfire that burnt in intense drought. 2018-19: Wongwibinda Road, Wollomombi – a lightning strike spot fire that was extinguished by RART.
	2016-17: Snowy Creek 2016-17: Bullock Creek
	2015-16: Round Mountain – a hot wildfire started by lightning.