

Curracabundi NP (north-western portion), Back River NR & Tomalla NR
Northern Inland Branch
Fire Management Strategy (Type 2)
2022 - 2027

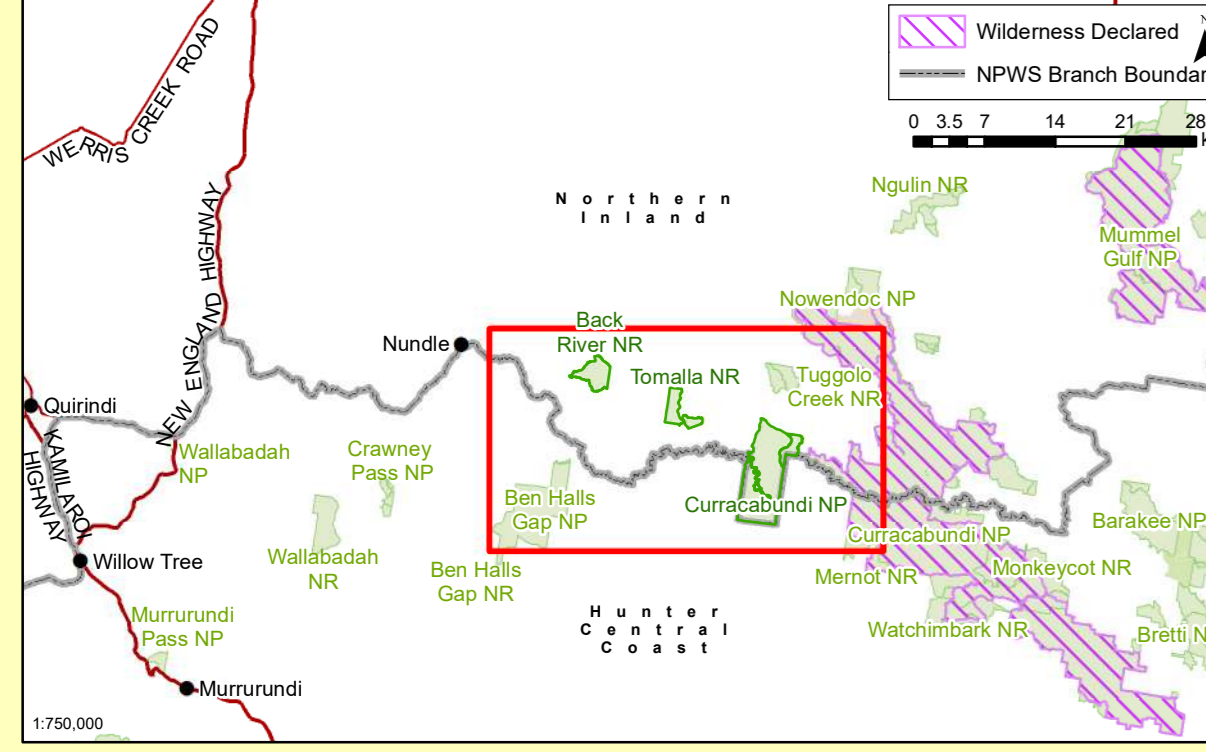


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This strategy is a relevant Plan under Section 38 (4) and Section 44 (3) of the Rural Fires Act 1997.

Locality Map



Map details

Datum: GDA_1984_MGA_Zone_56 Geographic Coordinate System: GCS_GDA_1984 Note: Scale: True when printed on A4 size paper

Local Government Area: Tamworth Regional, Upper Hunter, 914376, Curracabundi 923449

Topographic Map: 1:25,000 Barry 9134N, Newwood 02344M, Glenrock 914376, Curracabundi 923449

Contact Information

Agency	Position / Location	Phone
National Parks & Wildlife Service	Area Manager - Adam Simmon	0738 9115
	Duty Officer (24 hour)	0737 1742
NSW Rural Fire Service	New England Area Office (bus. hours)	0283 9709
	District Manager - Bron Waters	0428 614 105
Forest Corporation of NSW	Tamworth Office	0752 7641
	Tamworth After Hours	0752 0780
Fire & Rescue NSW	Watch	077 4100
	State Duty Officer	9665 4375
Emergency Services	Newcastle Comms. Centre	4003 7177
	Police, Fire, Ambulance	000
SES	Watch or Statewide	0777 2285 or 132 500
Police	Tamworth	0768 2069
	Murrumbidgee	0703 3444
Council	Tamworth Regional	0767 5555
	Nungahook	0740 2356
Local Aboriginal Land Council	Nungahook	0552 4330

Communications

Service	Channel	Location and Comments
NPWS Repeaters	340	• Parkers Camp • Veld Group East
Forest Corporation of NSW	155 (NP 86) (800m radius)	• Handheld 800m radius stored at New England Area
RFS	N009	• Digital Volting
UHF - CB	134.70	• Small fires channel 10, large fires determined by IMT
Aviation - CTAF	134.70	• NB frequency unless another frequency is allocated on an incident
Mobile Phone	0143 142 600	• No service available
Satellite Phone	0147 166 687	• Stored at Watcha Office

Fire Season Information

Wildfires	Prescribed Burning
The critical wildfire season occurs during October to December where large and numerous fires caused by multiple lightning strikes can occur. This period may extend into January if the normally reliable summer rainfall does not eventuate. Wildfires have been known to start as early as August. Particular care is required during periods of negative Southern Oscillation Index. The end of the critical fire season is often marked by wet storm activity.	The preferred prescribed burning period is autumn to late winter when there is a higher probability of fire self-extinguishing overnight and less impact on critical life stages of biodiversity. Hazard reduction burning is possible with great care in early spring, however the potential for fire to continue burning overnight increases in this period, and containment actions such as creek lines may be unreliable. Consideration should be given to multi-phase operations with vulnerable sections under very mild winter conditions when a prepared burn has containment lines that have weaknesses such as zones of high fuel loads or rely on natural containment lines.

Operational Guidelines

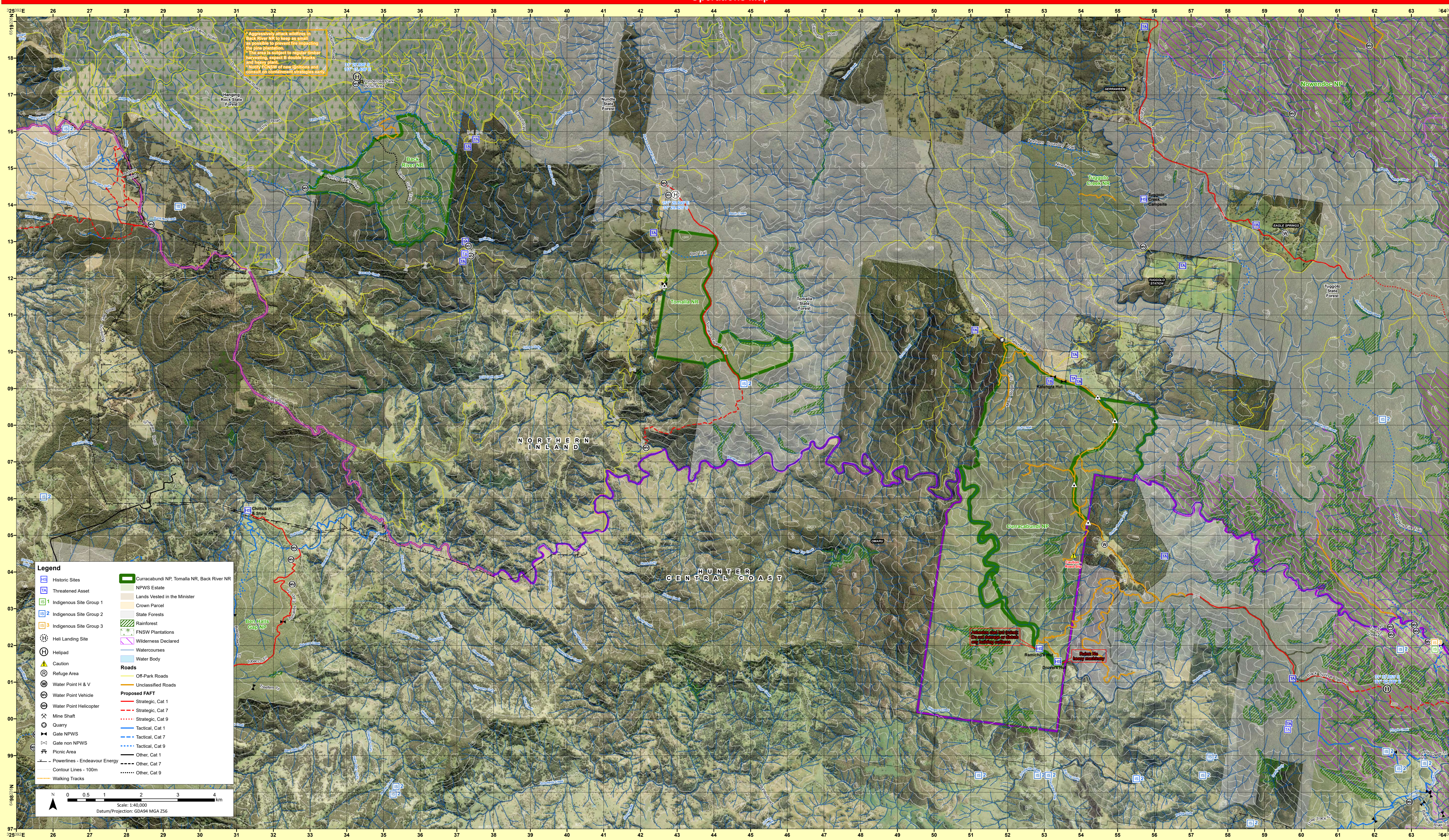
Hazard Reduction Burning	Aerial Operations	Backburning	Command & Control	Containment Lines	Earthmoving Equipment	Fire Suppression Chemicals	Rehabilitation	Water Points	Smoke Management	Water Management	WARNINGS
Landscaping scale wildfires have occurred in surrounding reserves. Hazard Reduction activities in Land Management Zones should be limited to hazard reduction burning which aims to normalise extensive areas of single fire age classes since the last extensive wildfire event. Fire thresholds will be exceeded and considered too frequently burnt if another landscape scale wildfire event occurs within the next 25 years.	• Aerial operations will be managed by trained and competent personnel. This includes directing aerial bombing and aerial ignition operations. • The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances. • All aerial operations require the consent of a senior NPWS officer or the Section 44 Approver. • Threatened species are associated with rocky outcrops. Aerial ignition should be avoided within 50 metres of rocky outcrops and ignition patterns should be used to minimise the impacts of fire and radiant heat on these outcrops i.e. ignition on the uphill side of rocky outcrops to create a low intensity burning fire wherever possible.	• All personnel must be fully briefed before back-burning operations begin. • The first combant agency on site may assume control of the fire, but then must ensure the relevant land manager is notified. • The initial Incident Controller will liaise with the RFS to ensure that the agency in command is determined and an Incident Controller is appointed.	• New containment lines require the prior consent of a senior NPWS officer. • Construction of new containment lines should be avoided, where practicable, except where they can be combined with regional environmental impact. • All personnel involved in containment line construction should be briefed on and must consider both cultural and cultural heritage sites in the location. • All containment lines not required for other purposes should be closed immediately at the cessation of the incident. • Plant may only be used with the prior consent of a senior NPWS Officer. • 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, the vehicle must be a fire fighting vehicle. • Plant must be washed down, where practicable, prior to entering NPWS estate and again on exiting NPWS estate.	• The use of foam, wetting agents and retardants will NOT be permitted within 50 metres of dams and watercourses holding water. • The use of gels and retardants should be approved by a senior NPWS officer. • The use of retardants requires the approval of a senior NPWS officer.	• Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation. • Consider deployment of a bulk water carrier to support fire operations. • Potential smoke impacts and mitigation tactics will be assessed during the planning of fire operations.	• In Extreme + Fire Danger at the Branch Director's discretion, reserves or sections of the reserve may be closed or evacuated. • Ensure the closure is advertised on the NPWS visitor website.	• Curracabundi NP is geographically interlinked with Newwood NP adjacent scale fires eventuate. In this circumstance fire planning needs to carefully consider adjacent threats and the advantages in reserves. • Fire runs should be anticipated with winds from any direction. • Rambling reserves are in an extensive fire hot. Do not damage or disturb any building surfaces. • Aggressively attack wildfires in Back River NR to keep as small as possible, to prevent fire impacting the plantation. • The pine plantation adjoining Back River NR is subject to regular timber harvesting. Expect it double tracks and heavy loads in the bush. • Notify FCNWS of new ignitions in Back River NR and consult on containment strategies early.	• The minimum interval between low intensity fires is more than 5 years. • The maximum interval between fire should be less than 50 years. • The minimum interval between high intensity fires should be evaluated on forest condition. • Many sites with this vegetation class have been exposed to frequent fires for extended periods. • Use of foams and retardant is acceptable. • Ruins: No heavy machinery permitted on site.	• The minimum interval between low intensity fires is more than 5 years. • The maximum interval between fire should be less than 50 years. • The minimum interval between high intensity fires should be evaluated on forest condition. • Many sites with this vegetation class have been exposed to frequent fires for extended periods. • Use of foams and retardant is acceptable. • Ruins: No heavy machinery permitted on site.	• The minimum interval between low intensity fires is more than 5 years. • The maximum interval between fire should be less than 50 years. • The minimum interval between high intensity fires should be evaluated on forest condition. • Many sites with this vegetation class have been exposed to frequent fires for extended periods. • Use of foams and retardant is acceptable. • Ruins: No heavy machinery permitted on site.	• Curracabundi NP is geographically interlinked with Newwood NP adjacent scale fires eventuate. 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Heritage Guidelines

Aboriginal Cultural Heritage	Historic Sites	Threatened Fauna & Flora
IS 1 - As far as possible protect site from fire. Do not cut down trees. IS 2 - As far as possible protect the site from fire. Avoid all ground disturbance and driving over sites. Avoid water bombing which may cause ground disturbance and driving over sites. IS 3 - Avoid all ground disturbance. Avoid water bombing. Site may be burnt by fire without damage.	Modified trees • As far as possible, protect the site from fire, and do not cut trees • Use of foams & retardant is acceptable. Ramsbotham's Hut (Curracabundi NP) • Warning: asbestos dust. Do not damage or disturb any building surfaces. • Flammable elements exist at this site. Protect from fire if possible. • Use of foams and retardant is acceptable. Drivers Hut (Curracabundi NP) • Ruins: No heavy machinery permitted on site.	• The protective actions for threatened flora and fauna have been incorporated into the Operational Guidelines.

Suppression Strategies

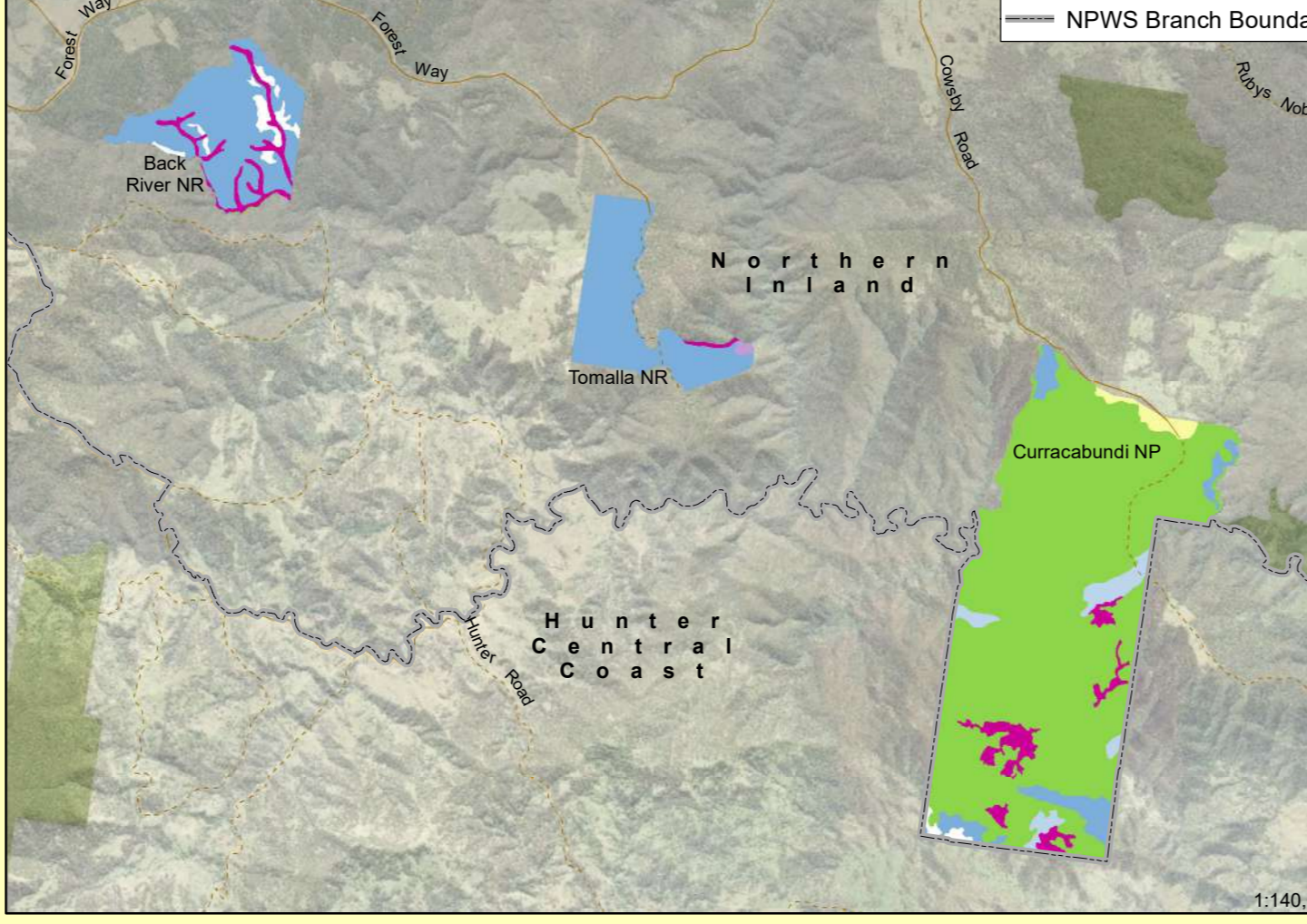
Conditions	Guidelines
All vegetation types	• Consider a broad containment strategy using existing roads, allowing long-term management requirements for biodiversity • Direct and parallel attack may be applied with earthmoving machinery and fire units. • Close parallel or direct attack may be an option at night depending on weather conditions. • Distance between the bank and machinery and fire units should be kept to a minimum. • Secure and deepen containment lines on the next prescribed downward side of the fire. • May require aerial support to manage spot covers and monitor fire spread. • Firefighter safety is the paramount consideration in deployment. • Considerate broad containment strategies using main fire trails and cleared country. • 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 weather conditions. • Warning: Fire runs should be anticipated with winds from any direction. Enticement risk is very high.



Vegetation

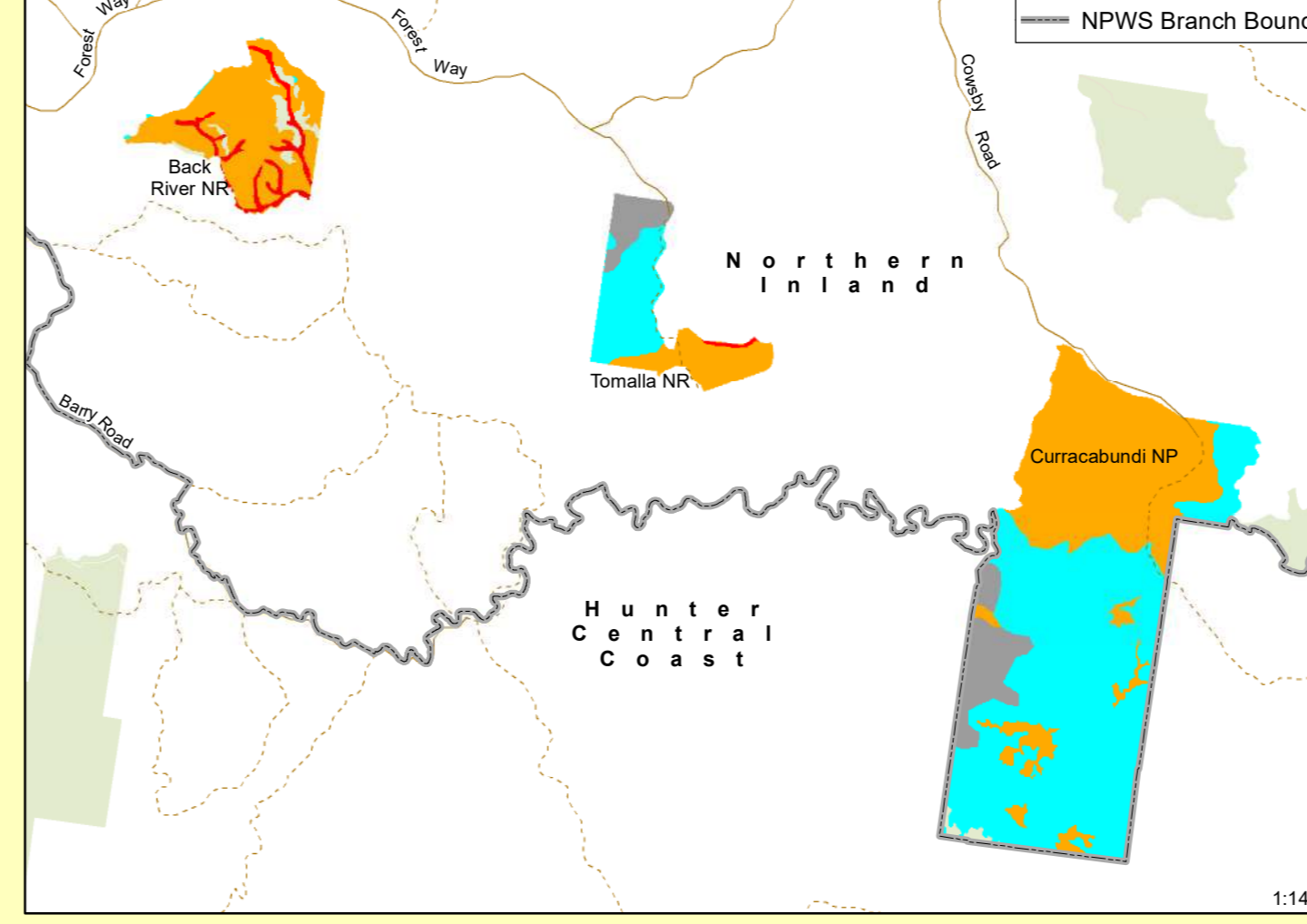
Vegetation Formation (Keith)	Vegetation Management Guidelines	Fire Behaviour
Cleared Land	<ul style="list-style-type: none"> First creating events have generated this class of vegetation that can include native grasses and shrubs, introduced weeds and regenerating native overstorey species. No fire intervals are prescribed for cleared areas and fire management should be based on the revegetation intent. 	<ul style="list-style-type: none"> Potential rates of spread are variable from Low to High given the variation that exists within this disturbed class of vegetation. Fire behaviour should be assessed on its merits and the vegetation present.
Dry Sclerophyll Forests (Shrub/grass sub-formation)	<ul style="list-style-type: none"> The minimum interval between low intensity fires is more than 5 years. The maximum interval between fire should be less than 50 years. The minimum interval between high intensity fires should be evaluated on forest condition. Many sites with this vegetation class have been exposed to frequent fires for extended periods. Use of foams and retardant is acceptable. Ruins: No heavy machinery permitted on site. 	<ul style="list-style-type: none"> This class of vegetation is often associated with hilly and steep terrain which cause variable fire behavior with due to terrain driven factors. The potential rates of spread during extended dry season can be very high due to terrain factors. The very steep terrain, skeletal soils and droughty nature of these escarpment sites mean OFH is normally in the range of Moderate to Very High. Spotting associated with uphill fire runs can be severe.
Forested Wetlands	<ul style="list-style-type: none"> Avoid fire intervals of less than 7 years and more than 35 years. Avoid high intensity fires Minimum fire interval of 7 years (12 years if Callitris is present). A maximum fire interval of 40 years. 	<ul style="list-style-type: none"> Potential rates of spread are dependent on seasonal conditions. Low OFH and hence low rates of spread occur in dry years. A Low - Moderate OFH may develop after successive wet seasons producing continuous ground cover. In these conditions potential rates of spread may be Moderate.
Grassy woodlands	<ul style="list-style-type: none"> The minimum fire interval in healthy stands of these grassy woodlands is five years. Where the health of the woodlands is compromised through dieback the minimum fire interval should be increased to 10 years. The maximum fire interval is 40 years. 	<ul style="list-style-type: none"> Potential rates of spread during extended dry season can be High due to Moderate to Very High OFH. Potential rates of spread may be High due to the grassy nature of the flammable elements in generally Moderate OFH. Fires are often of high intensity.

Vegetation Fire Thresholds



Vegetation Formation (Keith)	Vegetation Management Guidelines	Fire Behaviour
Rainforest	<ul style="list-style-type: none"> No prescribed burning should be conducted. Avoid high intensity fires close to rainforest boundaries. 	<ul style="list-style-type: none"> Potential rates of spread are usually very low to zero rate of spread.
Wet Sclerophyll Forests (Shrubby sub-formation)	<ul style="list-style-type: none"> The minimum interval between moderate intensity fires is 25 years. The minimum interval between high intensity fires should be more than 25 years. A diversity of fire intervals across the local landscape should be maximised. 	<ul style="list-style-type: none"> The potential rates of spread during extended dry season can be High due to moderate OFH. Potential rates of spread may be High due to Moderate to Very High OFH. Potential rates of spread may be High due to the grassy nature of the flammable elements in generally Moderate OFH. Fires are often of high intensity.
Wet Sclerophyll Forests (Grassy sub-formation)	<ul style="list-style-type: none"> The minimum interval between low intensity fires is less than 10 years. The minimum interval between high intensity fires should be more than 10 years. A diversity of fire intervals across the local landscape should be maximised. 	<ul style="list-style-type: none"> Potential rates of spread during extended dry season can be High due to Moderate to Very High OFH. Potential rates of spread may be High due to Moderate to Very High OFH. Potential rates of spread may be High due to the grassy nature of the flammable elements in generally Moderate OFH. Fires are often of high intensity.

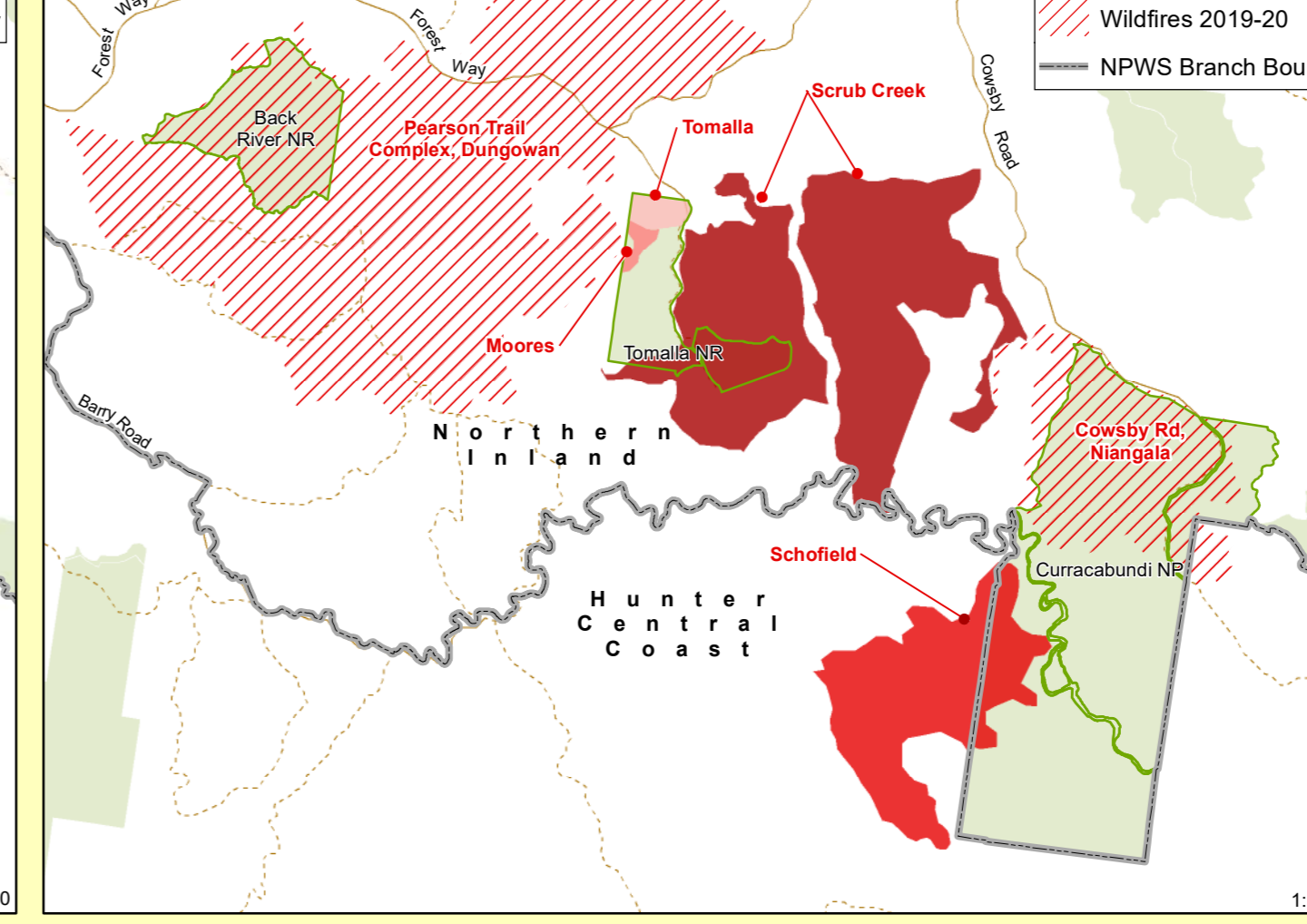
Fire History



Vegetation Threshold	Treatment
Too Frequently Burnt	Fire thresholds have been exceeded. Protect from fire as far as possible.
Vulnerable to Frequent Fire	The area will be Too Frequently Burnt if it burns this year. Protect from fire as far as possible.
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 fires to burn.
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

Risk Management Information



Fire Type	Fire Details
Prescribed Burn	No prescribed burn history
Wildfires	2019-20: Cowley Rd, Niangala - a 1.478 ha wildfire caused by lightning
	2019-20: Pearson Trail Complex, Dugunawa - a high intensity wildfire started by lightning that burnt 23,054 ha.
	2017-18: Scrub Creek - ignited by lightning and burning 2,846 ha.
	2012-13: Schofield - originated from lightning and burnt 1,226 ha.
	2004-05: Moores - a 36 ha wildfire that originated from legal burning off.
	2002-03: Tomalla - a 72 ha wildfire.

Fire Management Zones

Fire Management Zone	Treatment
Asset Protection Zones	The objective of APZs 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 Advantage Zones	The objective of SFAZs is to reduce fire intensity in locations to assist containment of wildfires, by maintaining the Overall Fuel Hazard at High or below.
Land Management Zones	The objective of LMZs is to conserve biodiversity and protect cultural heritage. Manage fire consistent with fire thresholds.