



Related and reference documents
<ul style="list-style-type: none"> • Castlereagh BFMC (2004) <i>Weetalibah Scrub Fire management Plan</i>. • NSW National Parks and Wildlife Service (2003) <i>Binnaway and Weetalibah Nature Reserves Plan of Management</i> • NSW National Parks and Wildlife Service (2012) <i>Fire Management Manual</i> • Porteners, M. F. (1998) <i>Vegetation survey of Weetalibah Nature Reserve</i>. Report to NSW NPWS

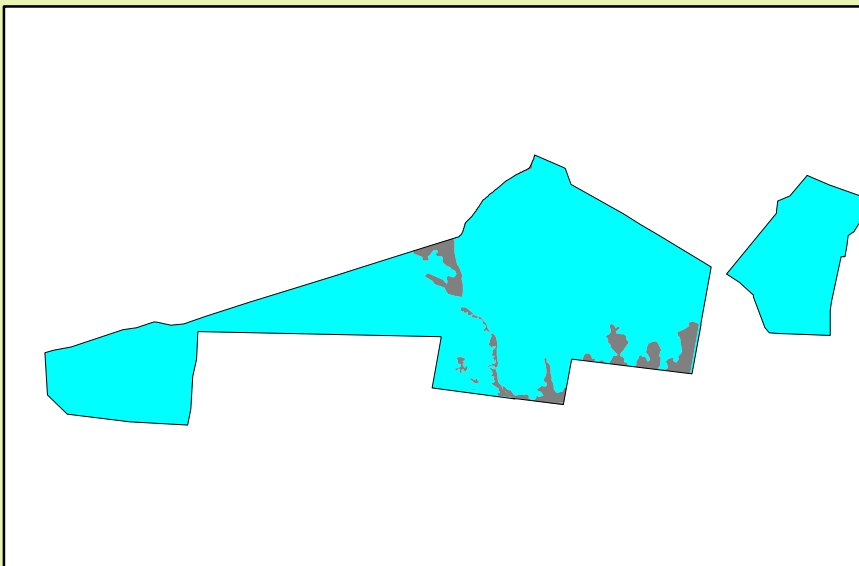
A map of the study area in New South Wales, Australia. The map shows a network of roads in red, including Warrumbungles Way, Gamble Creek Road, Black Stump Way, and Neilrex Road. A green polygon represents the study site, which is located between Gamble Creek Road and Black Stump Way. The map includes a scale bar (1:500,000) and a north arrow. The locations of Binnoway and Coolah are marked with black dots. The map also shows the location of the study site relative to the towns of Binnoway and Coolah, and the roads Warrumbungles Way, Gamble Creek Road, Black Stump Way, and Neilrex Road.

Communications Information		
Service	Channel	Location and Comments
NPWS VHF	31	<ul style="list-style-type: none"> • Needle Mountain (limited coverage)
RFS	P158 P160	<ul style="list-style-type: none"> • Coolah • Tambor Mountain
UHF - CB		<ul style="list-style-type: none"> • Small fires - Channel 10 • Large fires - determined by IMT • Public repeater Channel 6 (back-up use only)
Aviation	126.7	<ul style="list-style-type: none"> • CTAF
Cellphone		<ul style="list-style-type: none"> • Telstra 3G coverage variable
Suitable portable repeater sites		<ul style="list-style-type: none"> • Queensborough Trig (Hill 60) – 581 812

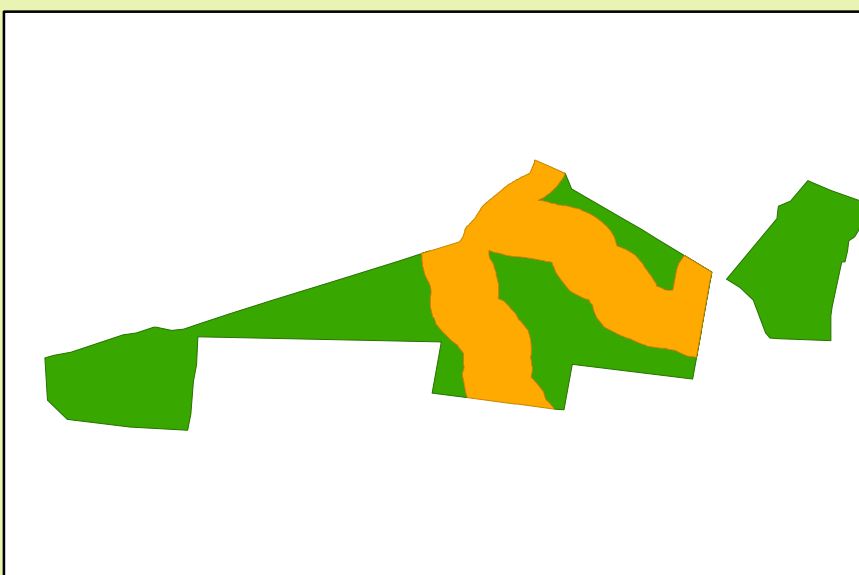
Agency	Position / Location	Phone
National Parks & Wildlife Service	Duty Officer (24 hour)	6842 3041
	Coonabarabran Area Office (bus, hours)	6842 1311
NSW RFS Castlereagh Zone	Zone Manager	0429 305 713
	Duty Officer	6842 2645
RFS Rural Fire Brigades	Gamble Creek - Mark Schiflett	6844 1153
	Queensborough - Tony Williams	6377 1586
	Westallah - Ray Bowen	6844 5237
NSW Fire Brigade	Newcastle	4929 7177
Emergency Services	Police, Fire, Ambulance	000
SES		13 2500
Police	Coolah	6377 1200
Council	Warrumbungle Shire	6849 2000
		1300 795 099
Coolah Aerodrome	Warrumbungle Shire	6849 2000

Wildfires	<ul style="list-style-type: none"> • The critical wildfire season generally occurs during November and December. • During periods of strong negative Southern Oscillation Index (El Niño events), this period may commence late September and extend into the first half of January. • The end of the critical fire season is often marked by wet storm activity.
Prescribed Burning	<ul style="list-style-type: none"> • Effective prescribed burning may need to be conducted once the "critical fire season" and thunderstorm season is over. This is due to the LOW - MODERATE Overall Fuel Hazard for most vegetation types. Prescribed burning attempts after autumn rain are unlikely to be effective.

Too frequently burnt	Consecutive fire intervals are shorter than the recommended minimum interval.
Vulnerable to frequent fire	The current fire interval is shorter than the recommended minimum interval.
Within threshold	The time-since-fire is greater than the recommended minimum, and less than the recommended maximum.
Long unburnt	The current fire interval is longer than the suggested interval.

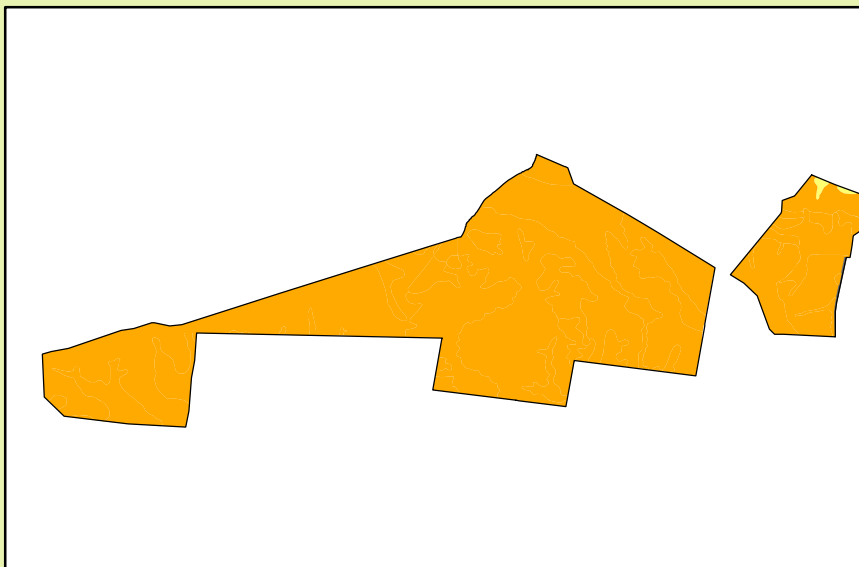


Strategic Fire Advantage Zones	The objective of this zone is to reduce fire intensity in locations to assist containment of wildfires, by maintaining the Overall Fuel Hazard less than HIGH
Land Management Zones	The objective of this zone is to conserve biodiversity and protect cultural heritage by applying ecological thresholds



Available for prescribed burning	This area is available for prescribed burning, subject to fuel levels and ecological thresholds
Available only during VERY HIGH FDI	This area is generally has LOW or MODERATE OFH, prescribed burning effective only under VERY HIGH FDI
Available – regeneration management	This area is available for prescribed burning, subject to requirements specified within a revegetation plan

Availability for burning must be referenced with the **Status of Biodiversity Thresholds.**



General	Guidelines
Aerial operations	<ul style="list-style-type: none"> 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 ignition operations require the consent of the NPWS Regional Manager or the Section 44 Approver.
Backburning	<ul style="list-style-type: none"> All personnel must be fully briefed before back burning operations begin. Backburning in areas of Low - Moderate OFH will require the use of wind, slope or low humidity to maximise effectiveness. The first containment 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.
Command & Control	<ul style="list-style-type: none"> 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 constructed with minimal environmental impact.
Containment Lines	<ul style="list-style-type: none"> All personnel involved in containment line construction should be briefed on, and must consider both natural 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. When engaged in direct or parallel attack, this vehicle must be a fire fighting vehicle. Containment lines running along valley areas should be constructed at 20 – 50 metres from the gullyline to avoid severe erosion. Machinery exclusion areas will apply in steep areas. Plant must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate.
Earthmoving Equipment	
Fire Suppression Chemicals	<ul style="list-style-type: none"> The use of foam, gels and retardants will NOT be permitted within 50 metres of dams and watercourses holding water. The aerial application use foam, gels and retardants requires the approval of the Regional Manager or delegate Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.
Rehabilitation	
Watering points	<ul style="list-style-type: none"> Consider deployment of a bulk water carrier to support fire operations.
Smoke Management	<ul style="list-style-type: none"> Potential smoke impacts and mitigation tactics will be assessed during the planning of fire operations.
Visitor Management	<ul style="list-style-type: none"> This reserve will be closed to visitors during fire danger periods rated Severe or higher Bogging Hazards – Fire trails have sections susceptible to sub-soil saturation, leading to vehicles breaking through the surface into quick sand.
WARNINGS	<p>Markers for these areas are: Red Gum, Bullock, Mugga Ironbark & Teatree.</p> <p>Steep pinches – Southern Firebreak has steep pinches. Traffic should be minimised. The pinch at J. Johnsons Road should have an on-way traffic diversion only.</p>

Resource	Guidelines
Aboriginal and Historic Cultural Heritage Site Management	No sites have been identified within the reserve
Threatened Flora and Fauna Management	<p><i>Potential Regent Honey-eater habitat – Mugga Ironbark stands – Gamble Creek area</i></p> <ul style="list-style-type: none"> • Avoid prescribed burning operations during periods of Mugga Ironbark flowering

Community	Management guidelines	Fire Behaviour
Valley Woodlands		
Bakeleys Red Gum / Rough-barked Apple / Mugga Ironbark	<ul style="list-style-type: none"> • An interval between fire events less than 10 years should be avoided • A high intensity fire may be permitted after a fire free period 30 – 50 years 	<ul style="list-style-type: none"> • Rates of spread will vary according to elevated fuel. • LOW / MOD elevated fuel will have moderate spreading rates • HIGH / VH elevated fuel will have high rate of spread • Potential for intense short distance spotting for areas of low unburnt Apple.
Ironbark & Sandstone Woodlands		
Sandstone shrubland woodlands	<ul style="list-style-type: none"> • An interval between fire events less than 15 years should be avoided • A high intensity fire may be permitted after a fire free period 25 years 	<ul style="list-style-type: none"> • Potential rates of spread is high due to HIGH – VERY HIGH OFH, particularly in areas of Bloodwood and Scrubby Gum • Areas of dense dark Pine have a LOW OFH, and have a low potential rate of spread for conditions less than Severe.
Shrublands		
Allocasuarina heathlands	<ul style="list-style-type: none"> • An interval between fire events less than 15 years, and greater than 25 years, should be avoided 	<ul style="list-style-type: none"> • Potential rates of spread is high due to VERY HIGH elevated fuel
OFH – Overall fire hazard – A rating system that includes leaf litter, grasses, shrubs, bark type and bark condition. Consists of ratings for surface		

Conditions & forecast		Guidelines
All vegetation types		<ul style="list-style-type: none"> Consider a broad containment strategy using existing trails and roads, recently burnt areas, creeklines or vegetation with LOW OFH. <p>NOTES: This is necessary due to the high risk of vehicles and machines bogging. Both access routes have sections susceptible to water-logging. Access may be restricted to quads.</p> <ul style="list-style-type: none"> Consider a broad containment strategy using existing trails, allowing long-term management requirements for biodiversity (requires consultation with RFS and neighbours) Direct and parallel attack may be applied with earthmoving machinery and fire units.
Years with saturated soils, and sub-soils	Fire danger rating LOW - HIGH	<ul style="list-style-type: none"> Fallback to existing trails and roads and recently burnt areas when fire runs exceed control line construction rates Consider falling-back to cleared country
	Fire danger rating VERY HIGH +	<ul style="list-style-type: none"> Secure and deepen control lines on the next predicted downwind side of the fire Target backburning operations when the humidity rises in late afternoon and early evening. Backburning effectiveness will drop significantly with rising humidity. <p>Fire runs under extreme conditions may travel at 4 – 6 kms/hr. Burn areas with LOW OFH may hold fire head, if deep enough Burn areas with MODERATE OFH will reduce intensity. Containment may require inclusion of uncleared private land.</p>
		Broad containment strategies will require consultation with RFS and neighbours

Legend

- Structures
- Dams
- Powerlines
- Watercourses
- Contours - 10 metres
- Cadastral boundaries
- Weetalibah NR
- Machinery exclusion areas

Roads & trails

- Road / trail with firebreak
- Maintained trails
- Trails
- Closed trails

Weetalibah NR fire trails

- Essential - Cat 1
- Important - Cat 7
- Dormant

Scale 1:30,000

0 1 2 Kilometers

COOLAH AERODROME