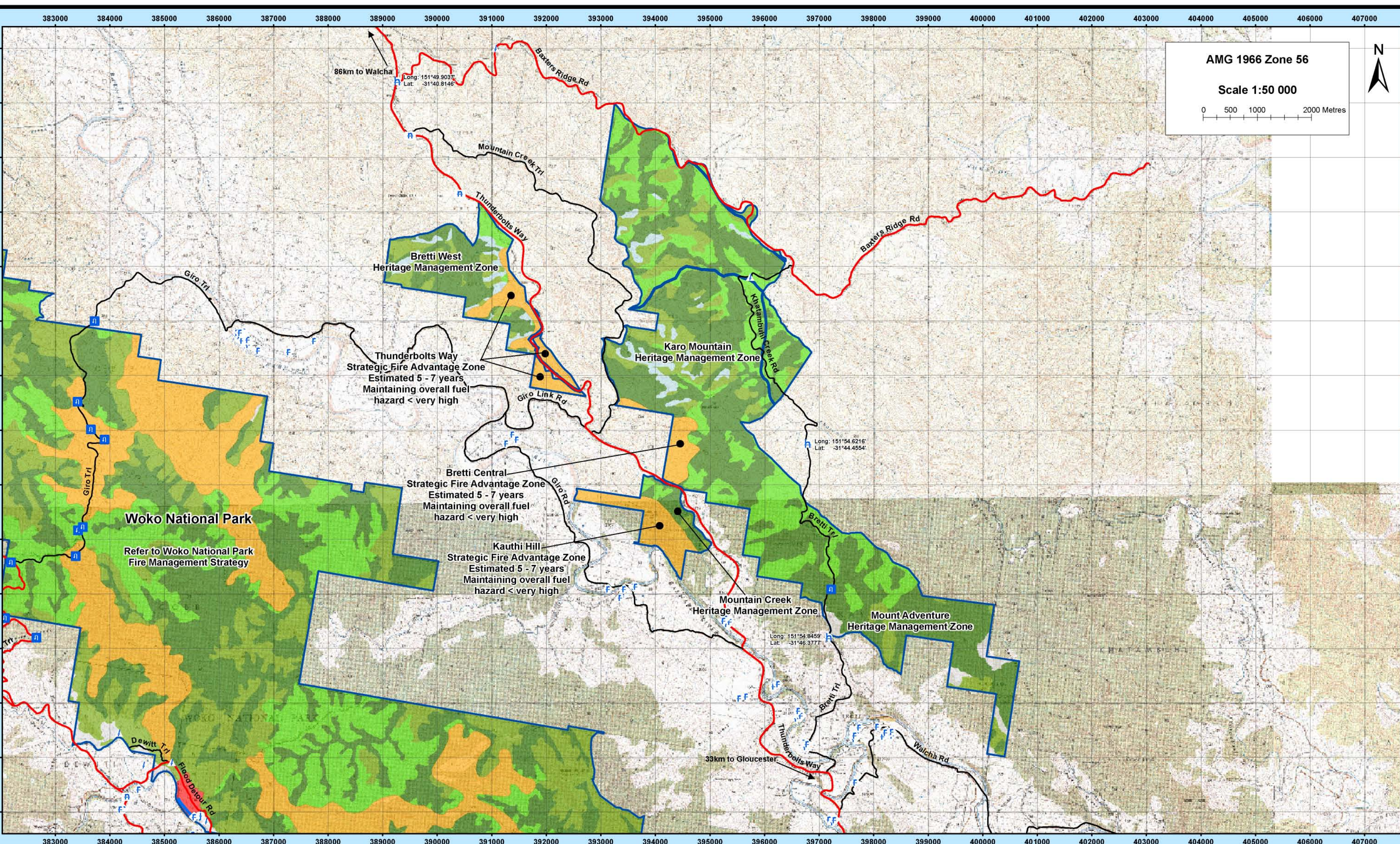
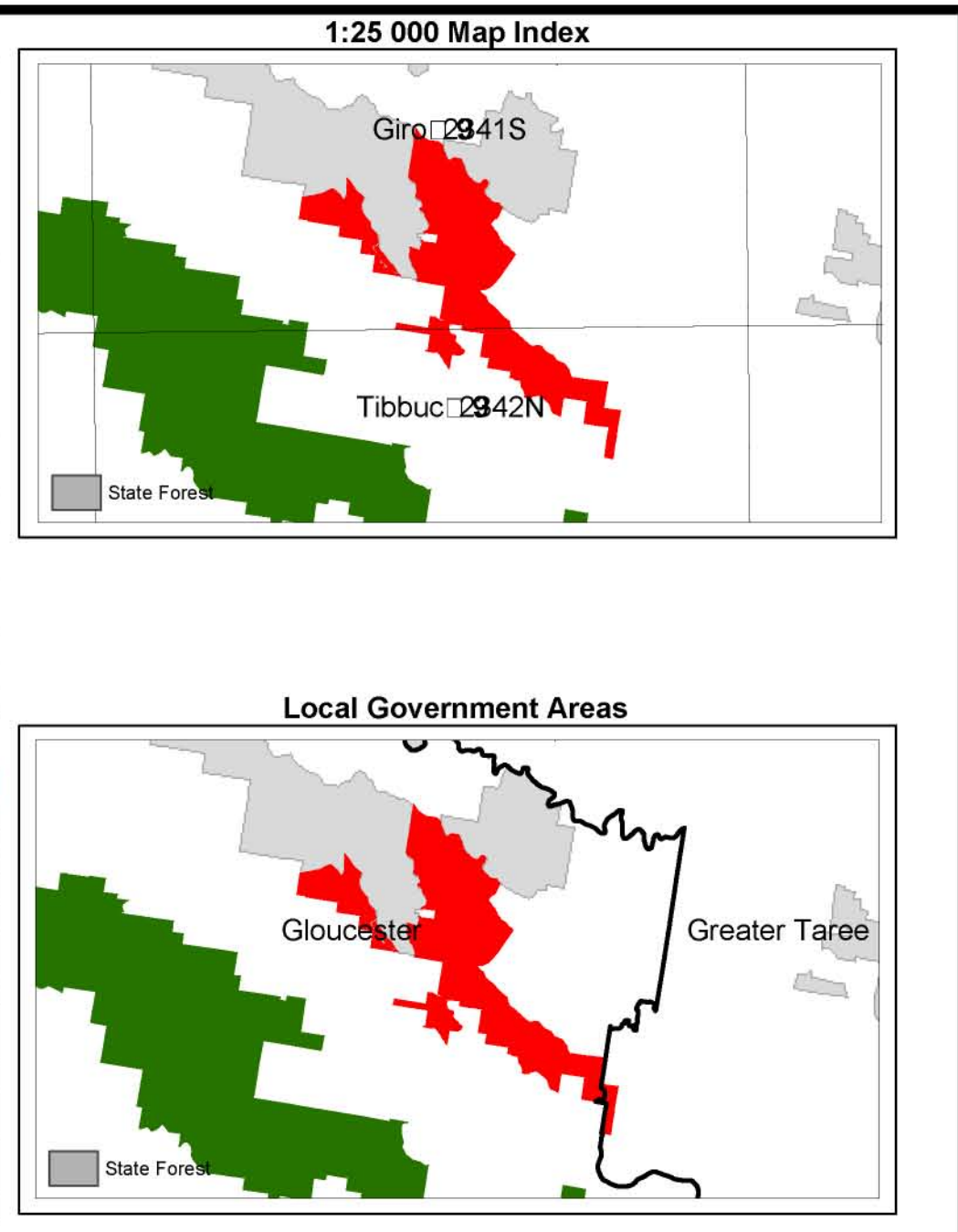


CONTACT DETAILS

Agency	Position	Number
NPWS	Hunter Region Duty Officer (24 hr)	018 301181 / 0429 144880
	Barrington Tops Area Manager	0538 5303 / 0429 144873
	Fire Management Officer	4884 8206 / 0429 144870
	Operations Coordinator	4884 8212 / 0429 144872
RFS - Manning Team	Barrington Tops Area Office	0538 5300 / (fax) 0558 2476
	Hunter Regional Office	4884 8200 / (fax) 4881 5913
NSW Fire Brigade	Gloucester District Fire Control Centre	0558 9222 / (fax) 0558 1723
	24hr Duty Officer	0500 589222
Police	Taree District Fire Control Centre	0592 6960 / (fax) 0592 6970
	24hr Duty Officer	0502 8999
Ambulance	State Operations	0741 5400 / (fax) 0741 5300
	Newcastle Communications (24 hr)	49267 1717 / (fax) 4927 2560
Hospital	Gloucester Station	0558 1788 / (fax) 0558 1638
	Emergency	0558 1204
DPIER	Bookings	131233
	Emergency	000
Council	Gloucester	0558 1307
	Newcastle	0923 4268
Mobile Phone	Newcastle	0558 1601 / (fax) 0558 2343
	Pool coverage	



Bushfire Risk Management Strategies

This map illustrates the strategies NPWS plans to implement between 2004 - 2009 in the reserve.

BUSHFIRE RISK MANAGEMENT STRATEGIES MAP LEGEND

	Brett Nature Reserve		Roads and Trails		Threatened Property
	Strategic Fire Advantage Zone		Primary (Cat 1)		Other Fire Control Advantages
	Heritage Management Zones		Secondary (Cat 9)		Existing Staging Area
	Dry Sclerophyll Forest (5 - 50 years)		Proposed (Cat 9)		Existing Vehicle Point
	Wet Sclerophyll Forest (25 - 60 years)				Existing Helipad
	Rainforest (Avoid all fire)				Existing Turning Point
	Cleared				

LEGEND DESCRIPTION

Fire Management Zones

- Note that some fire management zones extend beyond the boundaries of the reserve onto adjacent land. While the strategies proposed for adjacent land are not binding on the neighbouring property owner/occupier, NPWS will pursue these strategies with neighbours because if they are not implemented it may result in assets remaining at high risk. Where possible, NPWS will assist neighbours to undertake the proposed strategies.
- Strategic Fire Management Zones: The objective of strategic fire management zones is to help reduce detrimental fire behaviour. The proposed burning frequency for strategic fire management zones is indicated on the adjacent map.
- Heritage Management Zones: The objective of heritage management zones is to conserve biodiversity and protect cultural heritage. The proposed burning frequency for heritage management zones is that which is required to conserve biodiversity in the vegetation communities occurring within the zone (see Bushfire Risk Management Strategies Map Legend above).

Other Fire Control Advantages

- Other fire control advantages are features that may be used to support bushfire suppression operations and include water points (both helicopter and vehicle accessible), helipads, landing grounds, staging areas and refuge areas. Other fire control advantages that will be maintained or constructed in and around the reserves are illustrated in the adjacent map.

Roads & Trails

- The adjacent map illustrates existing trails that are considered important for fire management and are proposed to be maintained. In general, it is proposed that NPWS maintains trails within the reserve and the owner/occupier maintains trails on their properties. However, NPWS may enter into agreements with neighbouring property owners about maintenance of trails on their property.
- The adjacent map also illustrates new trails that are considered important for fire management and proposed to be constructed. Unless noted otherwise it is proposed that these trails are to be constructed by NPWS.
- Note the illustration of roads and trails on this map does not necessarily indicate a right of way and unless there is an existing access agreement permission should always be sought from the relevant land holders before using trails on their property.
- Primary Category 1 Trails are existing trails that will be maintained to a standard sufficient to allow the passage of Category 1 fire tankers (4wd Heavy Tanker 3001 to 4000 litre capacity).
- Secondary Category 9 Trails are existing trails that will be maintained to a standard sufficient to allow the passage of Category 9 fire tankers (4wd ute up to 450 litre capacity).

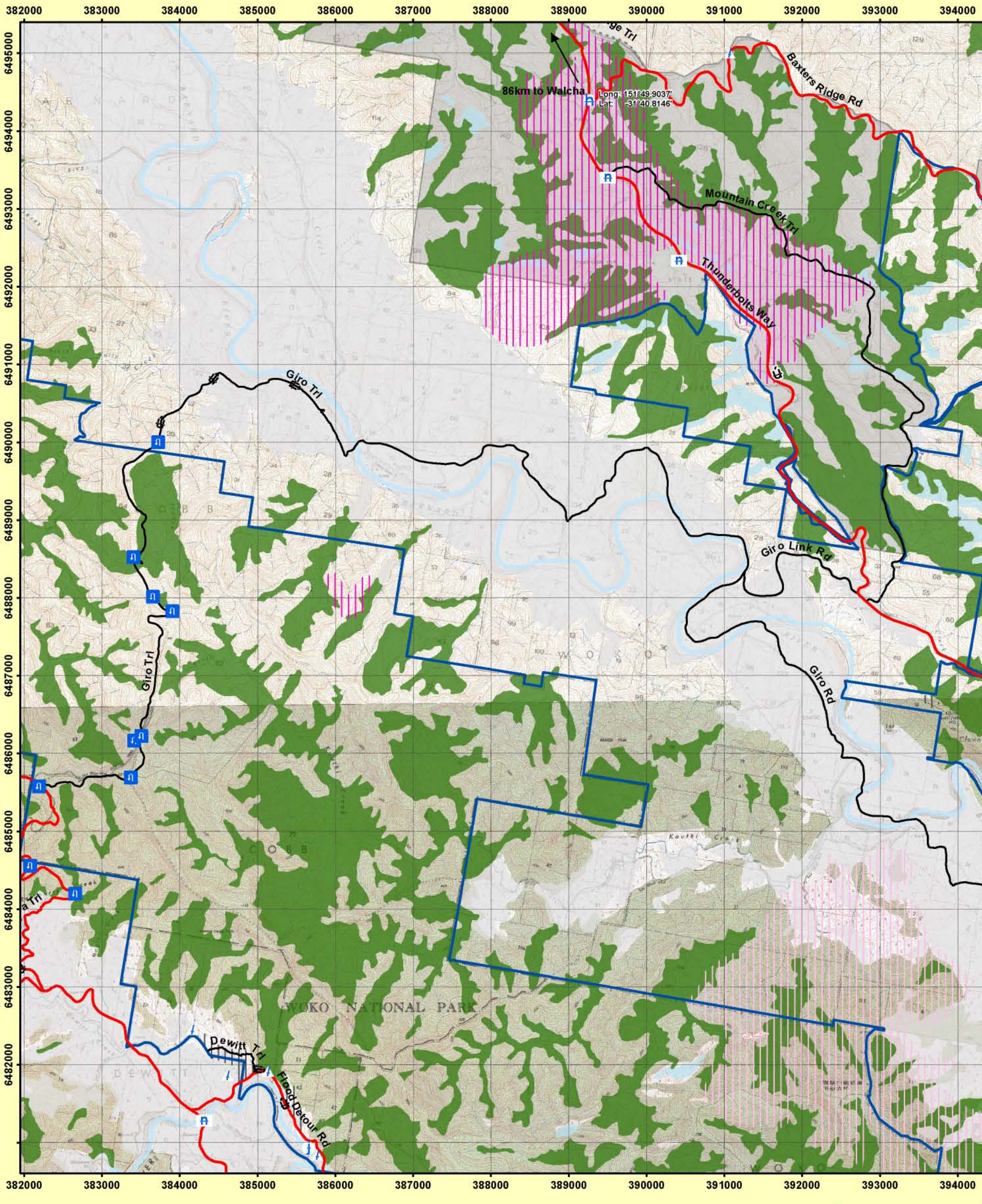
Bushfire Suppression Information 2004/05

The information in this section will be updated annually based on fire history and completed fire management works.

Issue/Area	Operational Guidelines
Aerial Ignition	<ul style="list-style-type: none"> May be used where considered appropriate. As far as possible, backburning should take account of threatened species and cultural heritage guidelines. On days when the fire danger > High, as far as possible delay backburning until early evening. Backburning may be safely undertaken during the day when the fire danger < High. Take particular care backburning when there are fibrous/paper bark trees close to control lines.
Backburning	<ul style="list-style-type: none"> ICS system will be implemented during all fire suppression operations. Can be used to slow the spread of a fire but will not extinguish a fire without support from ground crews. Ground crews must be warned of water bomber operations. As far as possible, foam should be used to increase the effectiveness of the water. Foamwater should not be used for building control lines because it is ineffective.
Command and Control	<ul style="list-style-type: none"> Close roads if smoke or fire fighting operations are likely to cause a traffic hazard. Check and evacuate walking tracks and known remote camping areas within and adjacent to the fire area. All new fire breaks will be restored as part of the fire suppression operation. Can only be used with consent of NPWS and only if the probability of success is considered high. As far as possible, restrict use to dormant trails and other previously disturbed areas.
Water Bombing	<ul style="list-style-type: none"> Subject to operational constraints, minimise the length of break constructed. As far as possible, take account of threatened species and cultural heritage management guidelines. The route to be taken by earth moving machinery must be scouted to identify possible cultural heritage sites. Use permitted where considered appropriate. As far as possible, minimise use in rainforest communities.
Visitor Safety	<ul style="list-style-type: none"> All fire advantages used during wildfire suppression operations are to be mapped so they can be added to the database. Retardant is ineffective and should not be used in communities with a dense canopy cover. Retardant is ineffective and should not be used against high intensity fires producing large numbers of spot fires. Retardant is most applicable to building short lengths of control line to link existing control lines. Areas where retardant has been used shall be mapped.
Restoration	<ul style="list-style-type: none"> Many trails in the reserve are narrow and have limited passing bays. Develop a traffic plan that minimises the need for fire fighting vehicles to pass each other. Note the illustration of roads and trails on this map does not necessarily indicate a right of way and unless there is an existing access agreement permission should always be sought from the relevant land holders before using trails on their property.
Earth Moving Machinery	<ul style="list-style-type: none"> Remove area fire fighting will not be undertaken unless there is a safe area (at least 5 x time height wide and not flammable at the time of the fire) immediately adjacent to where crews will be working. Remove area operations shall cease when: <ul style="list-style-type: none"> there is a high risk of storms, severe weather conditions are predicted.
Retardant	<ul style="list-style-type: none"> Brett NR and surrounds contain a large number of potential natural fire control advantages including cleared land, wet sclerophyll forest, rainforest and cliffs. Forests has shown that wildfires may effectively be contained by linking these natural fire control advantages with well lines, hand tool lines etc. Potential natural fire control advantages should be checked prior to being relied upon to contain a wildfire because their strength varies according to prevailing environmental conditions.
Roads and Trails	<ul style="list-style-type: none"> Use permitted where considered appropriate. As far as possible, minimise use in rainforest communities.
Remove Area Fire Fighting	<ul style="list-style-type: none"> Brett NR and surrounds contain a large number of potential natural fire control advantages including cleared land, wet sclerophyll forest, rainforest and cliffs. Forests has shown that wildfires may effectively be contained by linking these natural fire control advantages with well lines, hand tool lines etc. Potential natural fire control advantages should be checked prior to being relied upon to contain a wildfire because their strength varies according to prevailing environmental conditions.
Natural Fire Control Advantages	<ul style="list-style-type: none"> Brett NR and surrounds contain a large number of potential natural fire control advantages including cleared land, wet sclerophyll forest, rainforest and cliffs. Forests has shown that wildfires may effectively be contained by linking these natural fire control advantages with well lines, hand tool lines etc. Potential natural fire control advantages should be checked prior to being relied upon to contain a wildfire because their strength varies according to prevailing environmental conditions.

Fire Control Advantages

This map illustrates fire control advantages that may be used during bushfire suppression operations.

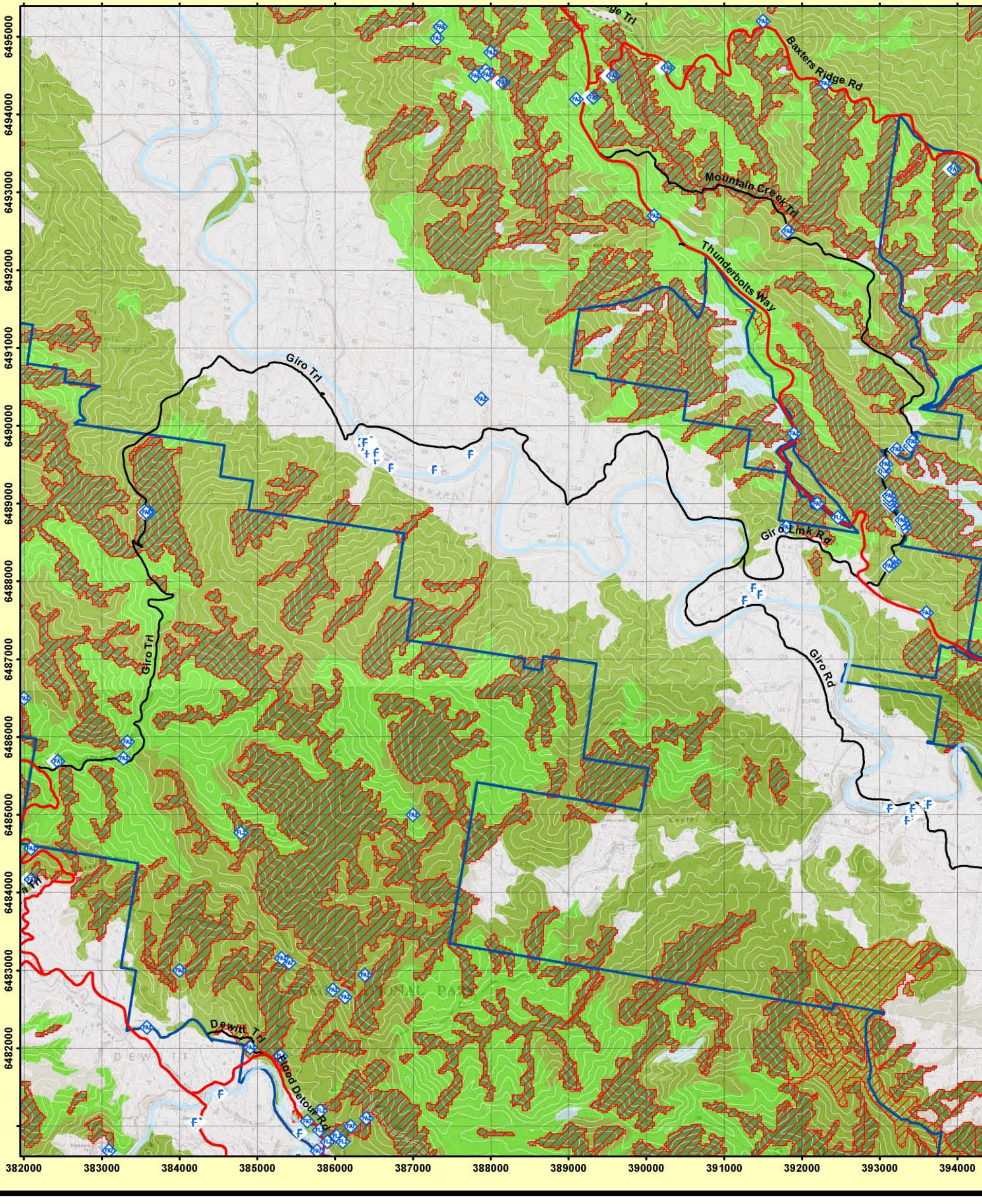


FUELS AND FIRE BEHAVIOUR CHARACTERISTICS

Fuel Type	Fire Behaviour Characteristics
Dry Sclerophyll Forest	<ul style="list-style-type: none"> Flammable under a wide range of conditions. High fire intensity and flame heights under hot, dry, windy conditions. Heavy short distance spotting (<500m), occasional long distance spotting (>500m). Forests and woodlands with a healthy understorey typically exhibit higher levels of fire behaviour than those with a more open understorey. Use McArthur Mark 5 Forest Fire Behaviour Model to estimate ROS. Generally only flammable when BKDI < 80. May function as control line when BKDI < 50.
Wet Sclerophyll Forest	<ul style="list-style-type: none"> Ground (peat) fires common when BKDI > 125. When flammable, often burns at extreme intensities (higher than any other fuel type). When flammable, often results in long distance spotting (>500m). Generally only flammable when BKDI > 100. May function as control line when BKDI > 60. Ground (peat) fires common when BKDI > 125. When flammable, fires are usually slow and of low intensity although vines may allow flames to climb trees. Due to palms dropping large numbers of dead fronds, palms may be flammable when other rainforest species are not. Only flammable when grass >50-70% cured. May function as control line when grass >50% cured. When grass >70% cured, burns with the highest ROS of any fuel type but comparatively low flame height and intensity. When grass >70% cured, ROS highly sensitive to wind speed. When grass >70% cured, flame height and intensity, but not ROS, strongly influenced by grass height and continuity. Spotting >100m uncommon. Use CSIRO Grassland Fire Behaviour Model to estimate ROS.
Rainforest	<ul style="list-style-type: none"> Generally only flammable when BKDI > 100. May function as control line when BKDI > 60. Ground (peat) fires common when BKDI > 125. When flammable, fires are usually slow and of low intensity although vines may allow flames to climb trees. Due to palms dropping large numbers of dead fronds, palms may be flammable when other rainforest species are not. Only flammable when grass >50-70% cured. May function as control line when grass >50% cured. When grass >70% cured, burns with the highest ROS of any fuel type but comparatively low flame height and intensity. When grass >70% cured, ROS highly sensitive to wind speed. When grass >70% cured, flame height and intensity, but not ROS, strongly influenced by grass height and continuity. Spotting >100m uncommon. Use CSIRO Grassland Fire Behaviour Model to estimate ROS.
Cleared	<ul style="list-style-type: none"> Generally only flammable when BKDI > 100. May function as control line when BKDI > 60. Ground (peat) fires common when BKDI > 125. When flammable, fires are usually slow and of low intensity although vines may allow flames to climb trees. Due to palms dropping large numbers of dead fronds, palms may be flammable when other rainforest species are not. Only flammable when grass >50-70% cured. May function as control line when grass >50% cured. When grass >70% cured, burns with the highest ROS of any fuel type but comparatively low flame height and intensity. When grass >70% cured, ROS highly sensitive to wind speed. When grass >70% cured, flame height and intensity, but not ROS, strongly influenced by grass height and continuity. Spotting >100m uncommon. Use CSIRO Grassland Fire Behaviour Model to estimate ROS.

Assets & Fire Fuels

This map illustrates fire fuels and the location of assets for use in bushfire suppression operations.



MAP LEGEND

	Brett Nature Reserve
	Fuel Types (see Fuels and Fire Behaviour Characteristics table)
	Dry Sclerophyll Forest
	Wet Sclerophyll Forest
	Rainforest
	Cleared
	Biodiversity Threatened (see Interpretation of Biodiversity Threatened Categories table)
	Overburnt/Vulnerable
	50m Contour
	Roads and Trails
	Primary (Cat 1)
	Secondary (Cat 9)
	Closed
	Site Management (see accompanying Management Strategy tables)
	Threatened Property
	Threatened Flora
	Threatened Fauna