

Lower North Coast Bush Fire Management Committee

BUSH FIRE RISK MANAGEMENT PLAN

Glossary

Assets: anything valued by the community which includes houses, crops, heritage buildings and places, infrastructure, the environment, businesses, and forests, that may be at risk from bush fire.

Bush Fire: a general term used to describe fire in vegetation, includes grass fire.

Bush Fire Hazard: the potential severity of a bush fire, which is determined by fuel load, fuel arrangement and topography under a given climatic condition.

Bush Fire Risk: the chance of a bush fire igniting, spreading and causing damage to the community or the assets they value.

Bush Fire Risk Management: a systematic process that provides a range of treatments which contribute to the well being of communities and the environment, which suffer the adverse effects of wildfire/bush fire.

Bush Fire Threat: potential bush fire exposure of an asset due to the proximity and type of a hazard and the slope on which the hazard is situated.

Consequence: outcome or impact of a bush fire event.

Fire Fighting Authorities: the NSW Rural Fire Service, Fire and Rescue NSW, the National Parks and Wildlife Service and Forestry Corp.

Likelihood: the chance of a bush fire igniting and spreading.

Major Bush Fire: A bush fire which requires the attendance of multiple brigades, or causes damage to property or injury to one or more persons.

Display area: geographic area determined by the Bush Fire Management Committee which is used to provide a suitable area and scale for community participation and mapping display purposes.

Recovery costs: the capacity of an asset to recover from the impacts of a bush fire.

Risk Acceptance: an informed decision to accept the consequences and the likelihood of a particular risk.

Risk Analysis: a systematic process to understand the nature of and to deduce the level of risk.

Risk Assessment: the overall process of risk identification, risk analysis and risk evaluation.

Risk Identification: the process of determining what, where, when, why, and how something could happen.

Risk Treatment: the process of selection and implementation of measures to modify risk.

Vulnerability: the susceptibility of an asset to the impacts of bush fire.

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Authorisation

In accordance with Part 3 Division 4 of the Rural Fires Act 1997, this Plan has been prepared by the Lower North Coast Bush Fire Management Committee and has been endorsed at the BFMC meeting on 9th May 2018 for submission to the Bush Fire Coordinating Committee.

Recommended



B. Morris
Chairperson

Lower North Coast Bush Fire Management Committee

Approved



On behalf of the 10-9-18
NSW Bush Fire Co-ordinating Committee

Amendment List

Amendment		Entered	
Number	Date	Signature	Date

Chapter 1. Introduction

1.1 Background

Under the *Rural Fires Act 1997* the Bush Fire Coordinating Committee (BFCC) must constitute a Bush Fire Management Committee (BFMC) for each area in the State, which is subject to the risk of bush fires. Each BFMC is required to prepare and submit to the BFCC a draft Bush Fire Risk Management Plan (BFRMP).

A BFRMP is a strategic document that identifies community assets at risk and sets out a five-year program of coordinated multi-agency treatments to reduce the risk of bush fire to the assets. Treatments may include such things as hazard reduction burning, grazing, community education, fire trail maintenance and establishing community fireguard groups.

Annual programs to implement the treatments identified in this plan will be undertaken by the relevant land managers and fire fighting authorities.

In exercising its functions under the *Rural Fires Act 1997*, including the preparation of a draft bush fire risk management plan, the Lower North Coast BFMC is required to have regard to the principles of ecologically sustainable development (ESD).

This document and the accompanying maps together form the BFRMP for the Lower North Coast BFMC area.

This BFRMP has been prepared by the Lower North Coast BFMC and covers both public and private lands. This BFRMP must be reviewed and updated within each successive five-year period from the constitution of the BFMC.

The BFCC recognises that climate change has the potential to increase bush fire risk. The risk assessment process applied in this BFRMP is based on current climatic conditions. The BFCC will monitor information on climate change and will modify the process when necessary.

1.2 Aim and Objectives

The **aim** of this BFRMP is to minimise the risk of adverse impact of bush fires on life, property and the environment.

The **objectives** of this BFRMP are to:

- reduce the number of human-induced bush fire ignitions that cause damage to life, property and the environment;
- manage fuel to reduce the rate of spread and intensity of bush fires, while minimising environmental/ecological impacts;
- reduce the community's vulnerability to bush fires by improving its preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

1.3 Description of the Lower North Coast BFMC area

1.3.1 Location and land tenure

The Lower North Coast BFMC area is located in the Mid North Coast area of New South Wales, adjoining Hastings LGA to the south, Bellingen LGA to the north, and Armidale/Dumaresq LGAs to the west. It includes the Local Government Areas of Kempsey and Nambucca.

The area covered by the Lower North Coast BFMC is 486,848 hectares and includes the land tenures outlined in Table 1.1.

Land Manager	% of BFMC area
National Parks & Wildlife Service	26
Forests NSW	11.64
Department of Lands	4.85
Local Government & Private	57.51

Table 1.1 Land tenure for Lower North Coast BFMC

1.3.2 Climate and bush fire season

The typical / average climate in the Lower North Coast BFMC area is predominantly temperate maritime with a late summer, early autumn peak rainfall. (January to March). The bush fire season generally runs from September to February, but often commences mid to late July.

Prevailing weather conditions associated with the bush fire season are generally dry west to north westerly winds which occur in spring through to early summer producing short periods of severe to extreme fire conditions. These winds are generally associated with deep cyclonic depressions off the NSW north coast and can produce winds in excess of 100 kph along the coastal strip. There are also frequently dry lightning storms occurring during the bush fire season.

1.3.3 Population and demographic information

The population of the Lower North Coast BFMC area is approximately 49,284 people. The major population centres in Kempsey LGA are Kempsey, Crescent Head, South West Rocks and Stuarts Point and in Nambucca LGA the major centres are Macksville, Nambucca Heads, Bowraville, Scotts Head and Valla Beach. High tourism levels are experienced in all coastal towns and villages during the September/October school holidays and the Christmas/ New Year holiday period this has been identified within the Lower North Coast BFMC area as potentially impacting on the ability of certain sections of the community to prepare for bush fire.

1.3.4 History of bush fire frequency and ignition cause

The Lower North Coast BFMC area has on average 304 bush fires per year, of which one (1) percent on average can be classified as significant fires. During the period from 2011/12 – 2015/16 there have been three (3) emergency declarations under Section 44 of the Rural Fires Act 1997, all within the Kempsey LGA.

Main ignition sources in the Lower North Coast BFMC area:

Fire records for the period 2011/12 – 2015/16 indicate that the majority of wildfires (19%) have resulted from escaped hazard reduction or agricultural burning carried out on private property. On average 60% of bush and grass fires occur outside of the Bush Fire Danger Period and have generally resulted from poorly managed burns, leaving fires unattended, lighting when 'High' or above fire danger is forecast, insufficient preparation of control lines or insufficient resources used to manage the burn.

Chapter 2. Identifying and assessing the bush fire risk

2.1 Process

The Australia/New Zealand Standard AS/NZS 4360: 2004 *Risk Management* was used as the basis for the risk assessment process. See Figure 2.1 for the steps involved. For a detailed description of the process undertaken see the Bush Fire Risk Management Planning Guidelines for Bush Fire Management Committees on the RFS website: www.rfs.nsw.gov.au.

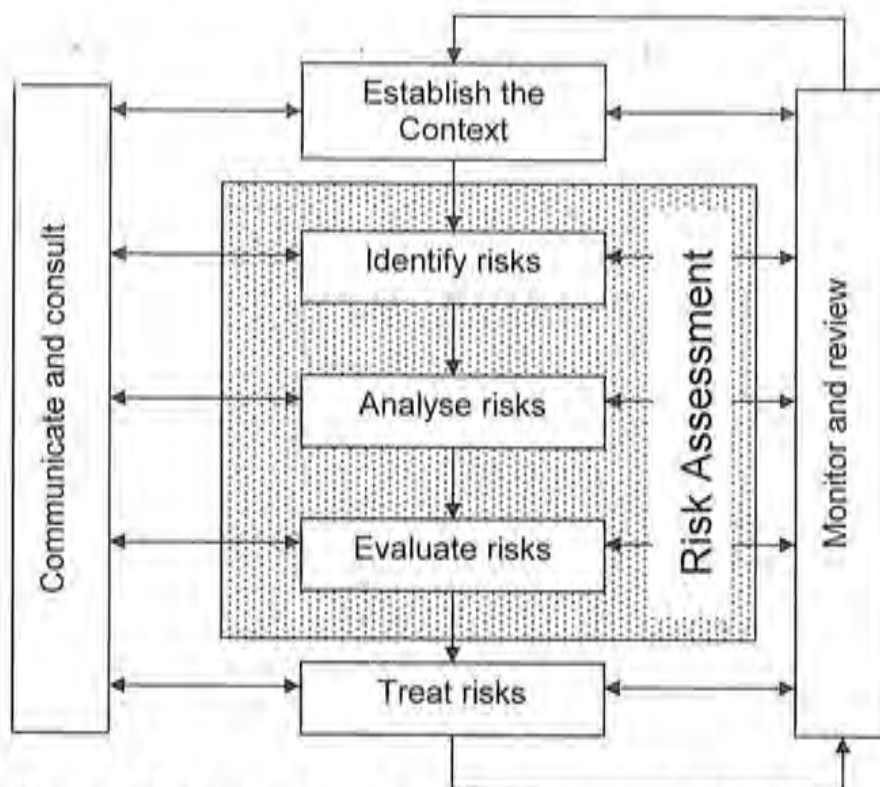


Figure 2.1 Overview of the risk assessment process

2.2 Communication and consultation

Community participation is an integral part of risk management. The Community Participation Strategy involved developing and implementing a process to address the needs, issues and concerns of stakeholders within the Lower North Coast BFMC area in regards to the BFRMP. See Appendix 1 for the Community Participation Strategy used by the Lower North Coast BFMC in preparing this BFRMP.

2.3 Identifying the bush fire risk

Identifying the level of bush fire risk firstly involved identifying important community assets considered to be at risk from bush fire in the Lower North Coast BFMC area, and then assessing the likelihood and consequence ratings.

2.3.1 Assets

BFMC members and the community, including RFS volunteers, identified assets within the Lower North Coast BFMC that they believed were at risk of bush fire.

The assets were divided into four asset types:

Human settlement

- Residential areas including urban bushland interface areas and rural properties;
- Special Fire Protection areas including schools, hospitals, nursing homes, and tourist facilities; and
- Other human settlement areas including commercial and industrial areas where distinct from major towns.

Economic

- Agricultural; e.g. major silos, regional saleyards, cropping/grazing land;
- Commercial/industrial e.g. major industries, waste treatment plants, sawmills;
- Infrastructure e.g. large power lines, oil pipelines, railway lines, electricity substations, communication facilities;
- Tourist and recreational e.g. tourist sites and facilities, resorts, retreats;
- Mines;
- Commercial forests e.g. pine plantations, eucalypt plantations and commercial native forests; and
- Drinking water catchments.

Environmental

- Threatened species, populations and ecological communities and Ramsar wetlands being wetlands of international importance, of which there are none identified in the Lower North Coast BFMC area.
- Locally important species and ecological communities, such as species and ecological communities especially sensitive to fire.

Cultural

- Aboriginal significance – Aboriginal places and items of significance;
- Non-indigenous heritage – places and items arising from the early occupation of NSW by European or other non-indigenous settlers; and
- Other cultural assets – community halls, clubs and recreational facilities.

See Appendix 2 for the full list of assets identified in the Kempsey BFMC area. See maps 1-15 for the location of assets to be treated under this BFRMP.

2.3.2 Assessing the bush fire risk - consequence

Once the assets were identified, the consequence of a bush fire impacting on these assets was assessed.

See Appendix 2 for the consequence ratings assigned to each asset identified in the Lower North Coast BFMC area.

The different asset types had different assessment processes used to determine the consequence. These processes are identified below.

Human settlement

A potential fire behaviour model using vegetation type, slope and separation distance was used to produce a threat rating for human settlement assets. The vulnerability of the asset to a bush fire was also assessed and a rating assigned. These ratings were then used to assess the consequence of a bush fire impacting upon a human settlement asset.

Special Fire Protection (SFP) assets were considered inherently more vulnerable to bush fire due to mobility capacity, knowledge or other issues relating to their inhabitants, (e.g. the elderly, infirm, children or tourists) and therefore stricter requirements for vulnerability assessment and rating were applied.

Economic

The level of economic impact e.g. local, regional or state, as well as the economic recovery costs (how long and complicated a financial recovery will be) of the asset were identified. These ratings were used to assess the consequence of a bush fire impacting upon an economic asset.

Environmental

Those environmental assets which were within or above the fire threshold were not assessed in the BFRMP, as the negative impact of a fire within the 5 year period was determined as being low and may even be of benefit to the asset and surrounding habitat.

The vulnerability of an environmental asset was determined by its conservation status and its geographic extent (distribution across the landscape). Vulnerability and potential impact of bush fire were used to assess the consequence of a bush fire impacting upon an environmental asset.

Cultural

For non-indigenous historical, Aboriginal and other cultural assets a potential fire behaviour model using fuel load, slope and proximity was used to produce a threat rating. The physical vulnerability of the asset to a bush fire was also assessed. These ratings were then used to assess the consequence of a bush fire impacting upon a cultural asset.

2.3.3 Assessing the bush fire risk - Likelihood

For all asset types the likelihood of a bush fire occurring was assessed. This involves considering fire history, including ignition cause and patterns, known fire paths, access, containment potential and potential fire run (size of the vegetated area). See Appendix 2 for the likelihood ratings assigned to each asset identified in the Lower North Coast BFMC area.

2.3.4 Identifying the level of risk

The consequence and likelihood ratings were then used to identify the level of risk. See Appendix 2 for the risk ratings assigned to each asset identified in the Lower North Coast BFMC area.

2.3.5 Evaluating the bush fire risk

Once the risk ratings for each asset were identified, they were evaluated to:

- a) confirm that risk levels identified in the risk analysis process are appropriate and reflect the relative seriousness of the bush fire risk;
- b) identify which assets require treatments; and
- c) identify treatment priorities.

2.3.6 Prioritising treatments

The bush fire risk ratings determined were used to prioritise the risk treatments, i.e. areas of extreme risk were considered first for treatment, then very high, then high then medium then low.

2.3.7 Risk acceptability

Within the Lower North Coast BFMC area all areas of identified risk have been treated, either by routine procedures or by specific application of resources.

Chapter 3. Treating the risk

3.1 Bush Fire Management Zones

Bush Fire Management Zones were identified within the Lower North Coast BFMC area and mapped (see maps 1-15). These zones identify the fire management intent for a specific area. See Table (3.1) for descriptions of the zones and their purposes. The four categories of Bush Fire Management Zones are:

- Asset Protection Zone (APZ);
- Strategic Fire Advantage Zone (SFAZ);
- Land Management Zone (LMZ); and
- Fire Exclusion Zone (FEZ).

Some of these zones (usually Land Management Zones) may be further classified within this category by the land manager, e.g. LMZ -Heritage Management Zone (NPWS).

LMZs that have been identified as a polygon on the map will have defined management objectives. Below is a list of each identified LMZ and its associated management objectives.

Zone	Purpose	Suppression Objective(s)	Zone characteristics
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document <i>Standards for Asset Protection Zones</i> .
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of: Parallel Attack suppression strategies within the zone and/or Indirect Attack (back burning) in high to very high fire weather conditions within the zone. To reduce the likelihood of Crown fire development within the zone and/or Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependant upon: <ul style="list-style-type: none">• Topography• Aspect• Spotting propensity• Location of adjacent firebreaks• Mosaic pattern of treatment Assess overall fuel hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ

			has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in areas where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency To reduce the likelihood of spread of fires. To undertake mosaic burning	As appropriate to achieve land management e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

Table 3.1 Bush Fire Management Zones: Purpose, objectives and characteristics

NB. OFH refers to the Overall Fuel Hazard Guide as described in the document published by (Dept of Sustainability and Environment 3rd ed. 1999 & NPWS version): State-wide procedures for assessment of fuel hazard will be developed in conjunction with the BFCC

Note: All areas that are not mapped or described as APZs or SFAZs are considered as LMZs.

*For the purpose of the Bush Fire Environmental Assessment Code:

1. Plantations that are approved under the *Plantations & Reafforestation Act 1999* after closure of the public exhibition period for this BFRMP are considered to be identified in this BFRMP; and
2. Retained vegetation within the aforementioned plantations is considered to be a Strategic Fire Advantage Zone identified in the text of this BFRMP as long as it meets the suppression objectives for SFAZs included in the BFRMP, and is not mapped or otherwise described as a Fire Exclusion Zone in the BFRMP.

3.2 BFMC wide treatments

BFMC wide treatments are activities which reduce the overall bush fire risk within the BFMC area and are undertaken on an ongoing basis as part of normal business. These treatments are not linked to specific assets in the BFRMP, rather they are applied across all or part of the BFMC area as designated by legislation or agency policy. BFMC wide treatments include the following:

- **Reviewing the bush fire prone land map**

These maps identify bush fire prone land and are used to trigger whether a development application is assessed using *Planning for Bush Fire Protection*¹.

- **Ensuring developments in bush fire prone land comply with *Planning for Bush Fire Protection***

This assessment process requires new applications for development to include bush fire protection measures.

- **Using the Local Environment Plan/s (LEPs) to control developments in areas with a bush fire risk**

LEPs can be used to exclude development in extreme bush fire risk areas or where bush fire protection measures cannot be incorporated.

- **Varying the standard bush fire danger period as required**

In years where the weather is particularly adverse the bush fire danger period may be brought in early or extended. This is assessed every year by the BFMC.

- **Requiring permits during the bush fire danger period**

In the bush fire danger period a fire safety permit is required to light a fire in the open. Permits specify conditions such as fire fighting equipment that must be on site, or restrict burns based on weather conditions.

- **Prosecution of offenders in relation to deliberate ignitions.**

Under the *Rural Fires Act 1997* persons may be prosecuted for breaching the conditions on a fire permit, lighting a fire during a Total Fire Ban, allowing fire to escape their property, or other breaches of the Act. In addition the member agencies of the BFMC will co-operate with the NSW Police in relation to the prosecution of arsonists under the *Crimes Act 1900*.

- **Investigation of bush fire cause**

All bush fires which do not have a known cause are investigated to identify how they started.

- **Normal fire suppression activities**

Responding to bush fire is a normal business activity for the fire fighting authorities.

- **Assessing and managing compliance with strategic fire fighting resource allocation provisions**

¹ NSW Rural Fire Service 2006 *Planning for Bush Fire Protection: A guide for councils, planners, fire authorities and developers*.

Strategic fire fighting resource allocation provisions is the process used to identify the number of stations, brigades and appliances required in an area, and considers members, training, assets and hazards.

- **Preparation of a S52 Operations Coordination Plan**

The Operations Coordination Plan is prepared biannually and sets out how coordinated fire fighting will occur. It includes specific operational restrictions on fire fighting techniques in certain areas, where fires will be managed from, and how agencies involved can communicate during operations.

- **Fire Management Plans or Plans of Management**

Some land management agencies have developed fire management plans or plans of management with specific fire or fuel management strategies, for example a Forests NSW Regional Fuel Management Risk Plan, a NPWS Fire Management Strategy. These publicly exhibited plans form the basis for operational fire planning on public parks, reserves and forests.

- **Bush Fire Hazard Complaints**

If someone is concerned about possible bush fire hazards on a neighbouring property or any other land, then this can be reported to the RFS Commissioner or their local RFS Fire Control Centre. The complaint will be investigated and may result in a notice being issued to the landowner or manager to reduce the hazard.

3.3 Asset specific treatments

There are five broad strategy groups available to treat the bush fire risk to assets identified in the BFRMP.

The types of asset specific treatments in each strategy group used in the Lower North Coast BFMC area are listed below. A full list of the treatment strategies in the Lower North Coast BFMC area are in Appendix 3.

Strategy	Targeted treatments used in the Lower North Coast BFMC area
Ignition Management	Ensure a timely response by appropriate Rural Fire Service resources. Fire Tower Surveillance/ Ground Patrol
Hazard Reduction	Maintain APZ in line with BFEAC

	HR slashing in mapped APZ HR burning in SFAZ
Community Education	Awareness program for campfire safety and responsibility. Bushfire Survival Planning with residents & NSP Maintain existing fire awareness sign
Property Planning	Develop an emergency fire relocation plan Develop and implement Community Protection Plan Maintain as per Reserve Fire Management Strategy
Preparedness	Maintain existing strategic fire trail network Maintain existing 20m break

Table 3.2 Asset specific treatments used in the Lower North Coast BFMC area

3.4 Annual works programs

The land management agencies and fire fighting authorities responsible for implementing the treatments identified in this plan will include those treatments in their annual works programs detailing how, when, and where the required activities will be undertaken.

3.5 Implementation

When the treatments identified in this BFRMP are implemented there are a number of issues that need to be considered by the responsible agency including environmental assessments and approvals, smoke management and prescribed burn plans.

Chapter 4. Performance monitoring and reviewing

4.1 Review

This BFRMP must be reviewed and updated within each successive five-year period from the constitution of the BFMC. The Lower North Coast BFMC will also review this plan as necessary to account for any changes in context or risk. This may be triggered by a range of circumstances, including but not limited to:

- changes to the BFMC area, organisational responsibilities or legislation;
- changes to the bush fire risk in the area; or
- following a major fire event.

4.2 Monitoring

The BFMC is required to monitor progress towards the completion of treatment works listed in the BFRMP, and the timeliness of the works.

4.3 Reporting

The BFMC is required to report annually to the BFCC on its progress in implementing the bush fire risk management activities identified in this plan.

4.4 Performance Measurements

State wide performance measurements which are linked to the BFRMP objectives have been identified within Appendix G of BFCC Policy 03/2007. All BFMCs must use these to monitor and report on their success in reducing the bush fire risk in the BFMC area.

Appendices

Appendix 1 Community Participation Strategy

Date	Target Audience	Method of communication	Method of notification	Key messages/ purpose	Resources required	Responsibility
Complete	Kempsey Shire RFS brigades	RFS Captains meeting	Letter of invite to Captains meeting	Classification of assets and associated treatments across the Shire.	A0 sized paper maps of each MDA	RFS
Complete	RFS Senior Management	SMT meeting	Attendance at planned quarterly meeting	Classification of assets and associated treatments across the Shire.	A0 sized paper maps of each MDA	RFS
Complete	Nambucca Shire RFS brigades	Invite to brigade members to view maps at Fire Control. Presentation to SMT	Letter of invite to Captains meeting	Classification of assets and associated treatments across the Shire.	A0 sized paper maps of each MDA	RFS
Completed	Whole of community	Advertisement in local newspaper	Contact Argus	Invitation to members of the community to make arrangements on one day of the week to visit Kempsey Fire Control Centre and look at the current maps. Issues page will be supplied so that comments can be documented.	A1 map of each MDA	RFS
Completed	Whole of community	Advertisement in local newspaper	Contact Observer/Guardian	Invitation to members of the community to make arrangements on one day of the week to visit Nambucca Fire Control Centre and look at the current maps. Issues page will be supplied so that comments can be documented.	A1 map of each MDA	RFS
Completed	Whole of Community	Social Media	Lower North Coast Facebook Site	Advertising open day for consultation at each Fire Control Centre	Managers approval	RFS

Appendix 2 Asset Register

Map reference number	Asset type	Asset sub type	Asset name	Asset Location	LGA	Display area	Likelihood	Consequence	Risk	Priority	Notes	Treatment number
1	Human Settlement	Residential	Salamanda Parade Residential	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		13;39
2	Human Settlement	Residential	Pacific Hwy Nambucca Heads Residential	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		15;63
3	Human Settlement	Special Fire Protection	Greenhills School	Armidale Rd, Greenhills	Kempsey	Kempsey	Almost certain	Catastrophic	Extreme	1A		26
4	Human Settlement	Residential	Marshall Way residential	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		16;17
5	Human Settlement	Residential	Valla Beach	Valla Beach	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		18;19;20;21;59
6	Human Settlement	Special Fire Protection	Way Way Forest Lodge	Scotts Head Rd	Nambucca	Scotts Head	Almost certain	Catastrophic	Extreme	1A		27
7	Human Settlement	Residential	Ocean View Drive	Valla Beach	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		8
8	Human Settlement	Special Fire Protection	Valla Community Pre-School	49 Valla Beach Rd, Valla Beach	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		9;26
9	Human Settlement	Residential	Nambucca Heads/Hyland Park	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		10;3;38
10	Human Settlement	Special Fire Protection	Rutland Street homes for the elderly	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		41;37
11	Human Settlement	Special Fire Protection	Boultons Crossing (Gumma Reserve)	Boultons Crossing Rd Gumma	Nambucca	Gumma	Almost certain	Catastrophic	Extreme	1A		22;23;24
12	Human Settlement	Special Fire Protection	Arakoon Camp Ground and Trial Bay Gaol	Arakoon	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		4;5;12
13	Human Settlement	Special Fire Protection	Osprey & Farrington Villages	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A	Elderly population, Low mobility	11;41;37
14	Human Settlement	Residential	Smoky Ridge	South West Rocks	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		6;58;59;64
15	Human Settlement	Special Fire Protection	Bellbrook Public School	Bellbrook	Kempsey	Willawarrin	Almost certain	Catastrophic	Extreme	1A		26
16	Human Settlement	Residential	Everingham Lane	Frederickton/C olombatti	Kempsey	Kempsey	Almost certain	Catastrophic	Extreme	1A		28
17	Human Settlement	Residential	South West Rocks	South West Rocks	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		7;57;59
18	Human Settlement	Residential	Dwelling at Clybucca	Pacific Highway Clybucca	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		25
19	Human Settlement	Residential	Isolated Rural Development Valla MDA	Valla MDA	Nambucca	Valla	Almost certain	Catastrophic	Extreme	1A		29;30;36;43
20	Human Settlement	Residential	Isolated Rural Development Missabotti MDA	Missabotti MDA	Nambucca	Missabotti	Almost certain	Catastrophic	Extreme	1A		29;31;36;43
21	Human Settlement	Residential	Isolated Rural Development Thumb Creek MDA	Thumb Creek MDA	Nambucca	Thumb Creek	Almost certain	Catastrophic	Extreme	1A		29;36;43
22	Human Settlement	Residential	Isolated Rural Development Willawarrin MDA	Willawarrin MDA	Kempsey	Willawarrin	Almost certain	Catastrophic	Extreme	1A		29;32;36;43;66

23	Human Settlement	Residential	Isolated Rural Development Taylors Arm MDA	Taylors Arm MDA	Nambucca	Taylors Arm	Almost certain	Catastrophic	Extreme	1A		29;36;43
24	Human Settlement	Residential	Isolated Rural Development Eungai MDA	Eungai MDA	Nambucca	Eungai	Almost certain	Catastrophic	Extreme	1A		29;36;43
25	Human Settlement	Residential	Isolated Rural Development Collombatti MDA	Collombatti MDA	Kempsey	Collombatti	Almost certain	Catastrophic	Extreme	1A		29;33;36;43
26	Human Settlement	Residential	Isolated Rural Development Dondingalong MDA	Dondingalong MDA	Kempsey	Dondingalong	Almost certain	Catastrophic	Extreme	1A		29;35;36;43
27	Human Settlement	Residential	Isolated Rural Development Kundabung MDA	Kundabung MDA	Kempsey	Crescent Head	Almost certain	Catastrophic	Extreme	1A		29;36;43
28	Human Settlement	Residential	Isolated Rural Development Kempsey MDA	Kempsey MDA	Kempsey	Kempsey	Almost certain	Catastrophic	Extreme	1A		29;36;43
29	Human Settlement	Residential	Isolated Rural Development Clybucca MDA	Clybucca MDA	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		29;36;55;43
30	Human Settlement	Residential	Isolated Rural Development Scotts Head MDA	Scotts Head MDA	Nambucca	Scotts Head	Almost certain	Catastrophic	Extreme	1A		29;36;43
31	Human Settlement	Residential	Isolated Rural Development Gumma MDA	Gumma MDA	Nambucca	Gumma	Almost certain	Catastrophic	Extreme	1A		29;34;36;43
32	Human Settlement	Special Fire Protection	Swimming Creek Caravan Park	Swimming Creek Rd	Nambucca	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		13;41;37
33	Human Settlement	Special Fire Protection	Grassy Head Caravan Park	Reserve Road Grassy Head	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		51;52;53;54
34	Human Settlement	Special Fire Protection	Yarrhapinni Ecology Centre	Grassy Head Road	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		48;49;50;53
35	Human Settlement	Special Fire Protection	Seven Day Adventist Convention Centre	Grassy Head Rd	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		48;53
36	Human Settlement	Residential	Stuarts Point Village	Stuarts Point	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		40;44;45;46;59
37	Human Settlement	Special Fire Protection	Stuarts Point Caravan Park	Stuarts Point	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		47
38	Human Settlement	Residential	Isolated development Fishermans Reach	Fishermans Reach	Kempsey	Clybucca	Almost certain	Catastrophic	Extreme	1A		7;56
39	Human Settlement	Special Fire Protection	Frank Partridge VC Primary School	Centenary Parade Nambucca Heads	Kempsey	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		61;62
40	Human Settlement	Special Fire Protection	Kempsey Adventist School	Kempsey	Kempsey	Crescent Head	Almost certain	Catastrophic	Extreme	1A		48
41	Human Settlement	Special Fire Protection	Gilguy Gumambi Pre-School	Gilguy Gumambi Pre-School	Kempsey	Nambucca Heads	Almost certain	Catastrophic	Extreme	1A		14;60
42	Human Settlement	Special Fire Protection	Macleay Vocational College	Kempsey	Kempsey	Kempsey	Almost certain	Catastrophic	Extreme	1A		42
43	Human Settlement	Residential	Isolated dwellings Crescent Head Rd	Crescent Head Road & roads adjoining	Nambucca	Crescent Head	Almost certain	Catastrophic	Extreme	1A	Including Maria River Road, Beranghi Road and various new estates along Crescent Head Road	6;65

44	Human Settlement	Residential	Scotts Head South	Sandpiper Drive Scotts Head	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		28,79
45	Human Settlement	Special Fire Protection	Scotts Head Public School	Glouster Street	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		67
46	Human Settlement	Special Fire Protection	Eungai Pre-School and Community Centre	Tamban Rd	Nambucca	Eungai	Likely	Catastrophic	Extreme	1B		78,27
47	Human Settlement	Special Fire Protection	Valla Beach Resort	Valla Beach	Nambucca	Nambucca Heads	Likely	Catastrophic	Extreme	1B		68,27,80
48	Human Settlement	Residential	Eungai Creek Village	Eungai Creek	Nambucca	Eungai	Likely	Catastrophic	Extreme	1B		79,28
49	Human Settlement	Special Fire Protection	Eungai Primary School	Eungai Creek	Nambucca	Eungai	Likely	Catastrophic	Extreme	1B		67,78
50	Human Settlement	Special Fire Protection	Hat Head Caravan Park	Hat Head	Kempsey	Gladstone	Likely	Catastrophic	Extreme	1B		71
51	Human Settlement	Special Fire Protection	Big Hill Private Cabins	Plomer Rd	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		82,102
52	Human Settlement	Special Fire Protection	South West Rocks School	South West Rocks	Kempsey	Clybucca	Likely	Catastrophic	Extreme	1B		67
53	Human Settlement	Residential	Crescent Head South	Crescent Head	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		74,75,93,97
54	Human Settlement	Residential	Crescent Head North	Crescent Head	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		76,77,97
55	Human Settlement	Residential	The Entrance and Arakoon	South West Rocks	Kempsey	Clybucca	Likely	Catastrophic	Extreme	1B		70
56	Human Settlement	Special Fire Protection	Rancho Relaxo tourist cabins	Racecourse	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		82,102
57	Human Settlement	Special Fire Protection	Delicate Nobby Private camping ground	Delicate Nobby	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		82,102
58	Human Settlement	Special Fire Protection	Tourist Facility	Scotts Head	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		27,84
59	Environment	Endangered	SEPP 26 Shire wide	all IMDA's	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		73
60	Human Settlement	Special Fire Protection	Scotts Head Caravan Park	Scotts Head	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		27
61	Human Settlement	Residential	Scotts Head Village	Scotts Head	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		28,79,84
62	Human Settlement	Special Fire Protection	Aldavilla Jail	Aldavilla Rd	Kempsey	Kempsey	Likely	Catastrophic	Extreme	1B		69
63	Cultural	Non Indigenous	Old Forestry Hut	Clayholes Rd	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		72
64	Economic	Infrastructure	Yarrahapinni Mountain Communication Towers	Yarrahapinni	Nambucca	Scotts Head	Likely	Catastrophic	Extreme	1B		81,91
65	Human Settlement	Special Fire Protection	Crescent Head Primary School	Crescent Head	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		42,92,94
66	Human Settlement	Residential	Millington Avenue	Millington Avenue Grassy Head	Kempsey	Clybucca	Likely	Catastrophic	Extreme	1B		85,86,87,88
67	Human Settlement	Residential	Eungai Rail	Station Street	Nambucca	Clybucca	Likely	Catastrophic	Extreme	1B		28
68	Human Settlement	Residential	Grassy Head Road	Grassy Head Rd	Kempsey	Clybucca	Likely	Catastrophic	Extreme	1B		44,40
69	Human Settlement	Residential	Millards Asset	Hat Head Rd	Kempsey	Gladstone	Likely	Catastrophic	Extreme	1B		89,90
70	Human Settlement	Special Fire Protection	Surfaris Surf Camp Lodge	Loftus Rd	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		95,96
71	Human Settlement	Residential	Loftus Aboriginal Community	Loftus Rd	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		79,28
72	Human Settlement	Other	Hat Head Bowling and Recreational Club NSP	Crescent Head Hat Head	Kempsey	Gladstone	Likely	Catastrophic	Extreme	1B		83

73	Human Settlement	Special Fire Protection	Teddy Bears Kindy	69 Marshall Way Nambucca Heads	Kempsey	Nambucca Heads	Likely	Catastrophic	Extreme	1B		14;60;98
74	Cultural	Aboriginal Significance	Site 3	various	Kempsey	Clybucca	Likely	Catastrophic	Extreme	1B		99
75	Human Settlement	Residential	Loftus Road Community	Loftus Road Crescent Head	Nambucca	Crescent Head	Likely	Catastrophic	Extreme	1B		100;101
76	Human Settlement	Special Fire Protection	Nambucca Valley Christian Community School	Nambucca Heads	Kempsey	Nambucca Heads	Likely	Catastrophic	Extreme	1B		67
77	Human Settlement	Special Fire Protection	Headlands Holiday Park	Nambucca Heads	Kempsey	Nambucca Heads	Likely	Catastrophic	Extreme	1B		27
78	Human Settlement	Special Fire Protection	South West Rocks Early Learning Centre	South West Rocks	Kempsey	Clybucca	Likely	Catastrophic	Extreme	1B		14;60
79	Human Settlement	Special Fire Protection	Crescent Head Community Pre-School	Crescent Head	Kempsey	Crescent Head	Likely	Catastrophic	Extreme	1B		27
80	Human Settlement	Special Fire Protection	White Albatros Caravan Park	Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Major	Extreme	1C		103
81	Human Settlement	Special Fire Protection	Booroongen Home	Greenhills	Kempsey	Kempsey	Almost certain	Major	Extreme	1C		27
82	Human Settlement	Residential	Hat Head South	Hat Head	Kempsey	Gladstone	Almost certain	Major	Extreme	1C		104;105;114;59;64
83	Human Settlement	Residential	Hat Head Village North	Hat Head	Kempsey	Gladstone	Almost certain	Major	Extreme	1C		106;107;59
84	Human Settlement	Special Fire Protection	Millbank Public School	Hickeys Creek Road Millbank	Kempsey	Willawarrin	Almost certain	Major	Extreme	1C		26
85	Human Settlement	Residential	Bellbrook	Bellbrook	Kempsey	Willawarrin	Almost certain	Major	Extreme	1C		108;36
86	Human Settlement	Other	Millbank Hall	Hickeys Creek Rd	Kempsey	Willawarrin	Almost certain	Major	Extreme	1C		109;71
87	Cultural	Non Indigenous	Cultural Heritage	Smoky Cape	Kempsey	Clybucca	Almost certain	Major	Extreme	1C	Smoky Cape Lighthouse Station	110
88	Economic	Infrastructure	Telstra Repeater	South of Toose Road Bellbrook	Kempsey	Willawarrin	Almost certain	Major	Extreme	1C		111
89	Economic	Agricultural	Agricultural land Fishermans Reach	Fishermans Reach	Kempsey	Clybucca	Almost certain	Major	Extreme	1C		112
90	Human Settlement	Other	Nambucca Industrial	Old Coast Road Nambucca Heads	Nambucca	Nambucca Heads	Almost certain	Major	Extreme	1C		113
91	Environment	Vulnerable	Karst Limestone	As mapped	Kempsey	Willawarrin	Almost certain	Major	Extreme	1C		115
92	Environment	Endangered	SEPP 14 Shire Wide	All areas	Kempsey	Valla	Almost certain	Major	Extreme	1C		73;116
93	Economic	Commercial Forest	Viewmont State Forest	Valla	Nambucca	Missabotti	Almost certain	Major	Extreme	1C		117;118;119
94	Economic	Commercial Forest	Nambucca State Forest	Nambucca Heads	Nambucca	Valla	Almost certain	Major	Extreme	1C		120;119;118;117
95	Economic	Commercial Forest	Ingalba State Forest	Allgomeria	Nambucca	Collombatti	Almost certain	Major	Extreme	1C		119;118;117
96	Economic	Commercial Forest	Tamban State Forest	Eungai	Nambucca	Clybucca	Almost certain	Major	Extreme	1C		119;118;117;120
97	Economic	Commercial Forest	Maria River State Forest	South Kempsey	Kempsey	Crescent Head	Almost certain	Major	Extreme	1C		120;119;118;117
98	Economic	Commercial Forest	Kalateenee State Forest	South Kempsey	Kempsey	Crescent Head	Almost certain	Major	Extreme	1C		120;119;118;117
99	Human Settlement	Special Fire Protection	Frederickton Public School	Frederickton	Kempsey	Kempsey	Likely	Major	Very High	2A		67

100	Human Settlement	Special Fire Protection	Kinchela School	Kinchela	Kempsey	Gladstone	Likely	Major	Very High	2A	67
101	Human Settlement	Special Fire Protection	Willawarrin Public School	Willawarrin	Kempsey	Willawarrin	Likely	Major	Very High	2A	121
102	Human Settlement	Residential	Frederickton	Frederickton	Kempsey	Kempsey	Likely	Major	Very High	2A	78
103	Human Settlement	Residential	Willawarrin	Willawarrin	Kempsey	Willawarrin	Likely	Major	Very High	2A	28;36
104	Economic	Agricultural	Sherwood Estate Wines Pty	Gowings Hill Rd	Kempsey	Dondingalong	Likely	Major	Very High	2A	122
105	Human Settlement	Special Fire Protection	Tallowood School	220 Bowraville Rd	Nambucca	Missabotti	Likely	Major	Very High	2A	41
106	Human Settlement	Special Fire Protection	Aldavilla School	Aldavilla	Kempsey	Kempsey	Likely	Major	Very High	2A	67
107	Human Settlement	Special Fire Protection	Kookaburra Hut and School building	Coachwood Road	Kempsey	Willawarrin	Likely	Major	Very High	2A	123
108	Economic	Infrastructure	Bowra Sugarloaf Communications Tower	Kosekal	Nambucca	Thumb Creek	Likely	Major	Very High	2A	110
109	Cultural	Non Indigenous	Cultural Heritage	Bonnie Corner Rd	Kempsey	Crescent Head	Likely	Major	Very High	2A	110
110	Cultural	Non Indigenous	Cultural Heritage	Mill Trail	Kempsey	Crescent Head	Likely	Major	Very High	2A	110
111	Cultural	Non Indigenous	Cultural Heritage	Mines Rd	Kempsey	Willawarrin	Likely	Major	Very High	2A	110
112	Economic	Infrastructure	Telstra Switch	Armidale Road	Kempsey	Collombatti	Likely	Major	Very High	2A	111
113	Human Settlement	Residential	Valla Rural	Valla various	Kempsey	Valla	Likely	Major	Very High	2A	28
114	Human Settlement	Other	Crescent Head Country Club NSP	Rankine Street Crescent Head	Kempsey	Crescent Head	Likely	Major	Very High	2A	83
115	Human Settlement	Other	Gladstone Oval NSP	Barnard Street Gladstone	Kempsey	Kempsey	Likely	Major	Very High	2A	83
116	Human Settlement	Other	Utungun Community Hall NSP	1029 Taylors Arm Road, Utungun	Kempsey	Taylors Arm	Likely	Major	Very High	2A	83
117	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Valla	Likely	Major	Very High	2A	99
118	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Valla	Likely	Major	Very High	2A	99
119	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Gladstone	Likely	Major	Very High	2A	99
120	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Clybucca	Likely	Major	Very High	2A	99
121	Cultural	Aboriginal Significance	Site 3	various	Kempsey	Nambucca Heads	Likely	Major	Very High	2A	99
122	Cultural	Aboriginal Significance	Site 3	various	Kempsey	Valla	Likely	Major	Very High	2A	99
123	Cultural	Aboriginal Significance	Site 3	various	Kempsey	Valla	Likely	Major	Very High	2A	99
124	Human Settlement	Residential	Crescent Head	Crescent Head	Nambucca	Crescent Head	Likely	Major	Very High	2A	97
125	Human Settlement	Residential	Macksville urban interface	Macksville	Nambucca	Gumma	Likely	Major	Very High	2A	63

126	Environment	Endangered	EEC			Various	Kempsey	Gumma	Likely		Major	Very High	EEC including Coastal saltmarsh, Littoral Rainforest & lowland rainforest	124
127	Human Settlement	Residential	Kingsworth Estate			Nambucca Heads	Kempsey	Nambucca Heads	Likely		Major	Very High		63
128	Economic	Commercial Forest	Way Way State Forest			Way Way	Nambucca	Clybucca	Likely		Major	Very High		119;118;117
129	Economic	Commercial Forest	Gladstone State Forest			Missabotti	Kempsey	Missabotti	Likely		Major	Very High		118;119
130	Human Settlement	Special Fire Protection	The Entrance permanent caravan park			South West Rocks	Kempsey	Clybucca	Possible		Catastrophic	Very High	A lot of elderly residents in transportable homes. No level of construction/low mobility.	125
131	Human Settlement	Residential	Burnt Bridge KLALC			Burnt Bridge Road South	Kempsey	Kempsey	Possible		Catastrophic	Very High		126
132	Human Settlement	Special Fire Protection	Nambucca Valley Family Day Care			Nambucca	Kempsey	Nambucca Heads	Possible		Catastrophic	Very High		14;60
133	Human Settlement	Special Fire Protection	Cedar Place Aged Care Facility			Kempsey	Kempsey	Kempsey	Possible		Catastrophic	Very High		127;42
134	Human Settlement	Special Fire Protection	Melville High School			Kempsey	Kempsey	Kempsey	Possible		Catastrophic	Very High		42
135	Human Settlement	Special Fire Protection	South Kempsey Pre-School			Kempsey	Kempsey	Kempsey	Possible		Catastrophic	Very High		42
136	Economic	Commercial	Frederickton Abbatoir			Frederickton	Kempsey	Kempsey	Almost certain		Moderate	Very High		130
137	Economic	Commercial Forest	Joint Venture Plantation			Kundabung	Kempsey	Crescent Head	Almost certain		Moderate	Very High		129
138	Economic	Commercial	South Kempsey Industrial			Pacific Highway South Kempsey	Kempsey	Kempsey	Almost certain		Moderate	Very High	Communication tower for emergency services within Kempsey Shire	113
139	Economic	Infrastructure	Boonanghi Trig/Radio Site			Boonanghi National Park	Kempsey	Dondingalong	Almost certain		Moderate	Very High		128
140	Human Settlement	Other	Uniting Church			Kesbys Rd Toorooka	Kempsey	Willawarrin	Almost certain		Moderate	Very High		122
141	Human Settlement	Other	Birthplace of Slim Dusty			Nulla Nulla Creek Rd	Kempsey	Willawarrin	Almost certain		Moderate	Very High		122
142	Cultural	Non Indigenous	Cultural Heritage			Hat Head	Kempsey	Gladstone	Almost certain		Moderate	Very High	Farming Relics	110
143	Human Settlement	Other	Joe Donovan Sporting Complex NSP			Banksia Street Stuarts Point	Kempsey	Clybucca	Almost certain		Moderate	Very High		83
144	Environment	Endangered	Endangered Species			Various	Nambucca	Willawarrin	Almost certain		Moderate	Very High	Restrict Bushfire	131
145	Environment	Vulnerable	Vulnerable Species			Various	Nambucca	Clybucca;Collombatti;Crescent Head;Dondingalong;Eungai;Gladstone;Missabotti;Scotts Head;Willawarrin	Almost certain		Moderate	Very High	Exclude Bush Fire	132

146	Economic	Commercial Forest	Yessabah State Forest	Yessabah	Kempsey	Dondingalong	Almost certain	Moderate	Very High	2C		118;119
147	Economic	Commercial Forest	Boonanghi State Forest	Temagog	Kempsey	Dondingalong	Almost certain	Moderate	Very High	2C		118;119
148	Economic	Commercial Forest	Carrai State Forest	Carrai	Kempsey	Willawarrin	Almost certain	Moderate	Very High	2C		118;119
149	Economic	Commercial Forest	Oakes State Forest	Girralong	Nambucca	Thumb Creek	Almost certain	Moderate	Very High	2C		118;119
150	Economic	Commercial Forest	Buckra Bendinni State Forest	Buckra Bendinni	Nambucca	Thumb Creek	Almost certain	Moderate	Very High	2C		118;119
151	Economic	Commercial Forest	Nulla Five Day State Forest	Nulla Nulla	Nambucca	Thumb Creek	Almost certain	Moderate	Very High	2C		118;119
152	Economic	Commercial Forest	Thumb Creek State Forest	Thumb Creek	Nambucca	Thumb Creek	Almost certain	Moderate	Very High	2C		119;118
153	Economic	Commercial Forest	Irishman State Forest	North Arm	Nambucca	Missabotti	Almost certain	Moderate	Very High	2C		119;118
154	Economic	Commercial Forest	Collobattli State Forest	Collobattli	Kempsey	Collobattli	Almost certain	Moderate	Very High	2C		119;118;117
155	Economic	Commercial Forest	Joint Venture Plantation Balls Road	Carrai Balls Road	Kempsey	Willawarrin	Likely	Moderate	High	3A	Wildfire 200102	129
156	Economic	Commercial Forest	Joint Venture Plantation Fife Fire Trail	Carrai Fife Fire trail	Kempsey	Willawarrin	Likely	Moderate	High	3A		129
157	Economic	Commercial Forest	Joint Venture Plantation Rainbow End	Rainbow End Dondingalong	Kempsey	Crescent Head	Likely	Moderate	High	3A		129
158	Economic	Commercial Forest	Joint Venture Dungay Creek	Dungay Creek	Kempsey	Dondingalong	Likely	Moderate	High	3A		129
159	Economic	Commercial Forest	Nambucca Joint Venture Plantations	Nambucca Shire	Nambucca	Missabotti	Likely	Moderate	High	3A		129
160	Economic	Infrastructure	Grassy Head Nursery	Grassy Head	Kempsey	Clybucca	Likely	Moderate	High	3A	Managed by Grassy Head Nursery Reserve Trust	136
161	Economic	Drinking Water Catchment	Water Pumping Station/Bore	Fishermans Reach	Kempsey	Clybucca	Likely	Moderate	High	3A	Drinking water bore for Stuarts Point. Above ground with 20m mineral earth break.	135
162	Economic	Commercial	Fisheries Industry	Deep Creek	Nambucca	Nambucca Heads	Likely	Moderate	High	3A	Direct link to disturbance by fire to PASS	133;134
163	Economic	Tourist and Recreational	Delicate Camp ground	Goolawah Regional Park	Kempsey	Crescent Head	Likely	Moderate	High	3A		137;138;125;139
164	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Nambucca Heads	Likely	Moderate	High	3A		99
165	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Nambucca Heads	Likely	Moderate	High	3A		99
166	Cultural	Aboriginal Significance	Site 1	Various	Kempsey	Nambucca Heads	Likely	Moderate	High	3A		99
167	Cultural	Aboriginal Significance	Site 2	various	Kempsey	Clybucca	Likely	Moderate	High	3A		99
168	Cultural	Aboriginal Significance	Site 3	various	Kempsey	Nambucca Heads	Likely	Moderate	High	3A		99
169	Cultural	Aboriginal Significance	Site 3	various	Kempsey	Gumma	Likely	Moderate	High	3A		99
170	Cultural	Aboriginal Significance	Site 4	various	Kempsey	Crescent Head	Likely	Moderate	High	3A		99

171	Cultural	Aboriginal Significance	Site 4		various	Kempsey	Crescent Head	Likely	Moderate	High	3A		99
172	Cultural	Aboriginal Significance	Site 4		various	Kempsey	Dondingalong	Likely	Moderate	High	3A		99
173	Cultural	Aboriginal Significance	Site 4		various	Kempsey	Crescent Head	Likely	Moderate	High	3A		99
174	Cultural	Aboriginal Significance	Site 5		various	Kempsey	Nambucca Heads	Likely	Moderate	High	3A		99
175	Cultural	Aboriginal Significance	Site 5		various	Kempsey	Nambucca Heads	Likely	Moderate	High	3A		99
176	Cultural	Aboriginal Significance	Site 5		various	Kempsey	Willawarrin	Likely	Moderate	High	3A		99
177	Cultural	Aboriginal Significance	Site 5		various	Kempsey	Willawarrin	Likely	Moderate	High	3A		99
178	Environment	Endangered	Endangered Species		Various	Nambucca	Kempsey;Missabotti;Valla	Likely	Moderate	High	3A	Restrict Bushfire	140
179	Economic	Commercial Forest	Mistake State Forest		Taylor's Arm	Nambucca	Thumb Creek	Likely	Moderate	High	3A		118;119
180	Human Settlement	Other	Willawarrin Sports Ground NSP		Armidale Road, Willawarrin	Kempsey	Willawarrin	Possible	Major	High	3B		83
181	Human Settlement	Special Fire Protection	Dalaigur Pre School		Nancy Ellis Street West Kempsey	Kempsey	Kempsey	Possible	Major	High	3B		126
182	Economic	Tourist and Recreational	Smokey Rest Camp Ground		Smokey Cape	Kempsey	Clybucca	Almost certain	Minor	High	3D		141;139
183	Economic	Infrastructure	Clybucca Rural Fire Station		Pacific Highway Clybucca	Kempsey	Clybucca	Almost certain	Minor	High	3D		122
184	Economic	Tourist and Recreational	Mt Killiecranke Lookout		New England	Nambucca	Thumb Creek	Almost certain	Minor	High	3D	Viewing platform	110
185	Economic	Tourist and Recreational	Hungry Camp Ground		Hungry Road	Kempsey	Gladstone	Almost certain	Minor	High	3D		141;90
186	Economic	Commercial	Charters Refrigerated Storage		Stuarts Point Rd	Kempsey	Clybucca	Almost certain	Minor	High	3D		142
187	Environment	Endangered	Endangered Species		Various	Nambucca	Missabotti;Thumb Creek;Valla;Willawarrin	Almost certain	Minor	High	3D		132
188	Environment	Vulnerable	Vulnerable Species		Various	Nambucca	Clybucca;Dondingalong;Eungai;Missabotti;Taylors Arm;Willawarrin	Almost certain	Minor	High	3D	Restrict bush fire	132
189	Environment	Vulnerable	Vulnerable Species		Various	Nambucca	Crescent Head;Gladstone;Missabotti;Scotts Head;Willawarrin	Almost certain	Minor	High	3D	No Bush Fire Conditions	132
190	Economic	Commercial Forest	Mount Boss State Forest		Parrabel Creek	Kempsey	Willawarrin	Almost certain	Minor	High	3D		
191	Economic	Commercial Forest	Old Station State Forest		Collombatti	Nambucca	Kempsey	Almost certain	Minor	High	3D		119;118;117
192	Economic	Commercial Forest	Skillion Flat State Forest		Skillion Flat	Kempsey	Kempsey	Almost certain	Minor	High	3D		118;119
193	Economic	Tourist and Recreational	NPWS Day Use Areas		Various across Kempsey Shire	Kempsey	Crescent Head	Almost certain	Minor	High	3D		110;141
194	Economic	Drinking Water Catchment	Stuart Macintyre Dam		Link Rd, Aldavilla	Kempsey	Kempsey	Possible	Moderate	Medium	4		143
195	Economic	Tourist and Recreational	Racecourse/Goolawah Camp Grounds		Point Plomber Rd	Kempsey	Crescent Head	Likely	Minor	Medium	4		137;123;138;139

196	Economic	Tourist and Recreational	Big Hill NPWS camp ground	Big Hill Airport Rd Kempsey	Kempsey	Crescent Head	Likely	Minor	Medium	4		123;137;138;139
197	Economic	Infrastructure	Kempsey Aerodrome	Kempsey	Kempsey	Kempsey	Likely	Minor	Medium	4		67
198	Economic	Tourist and Recreational	Blackbird Flat Public Recreation Reserve	Armidale Road	Kempsey	Willawarrin	Likely	Minor	Medium	4		144;145;147
199	Economic	Infrastructure	Dongingalong Rural Fire Station	Pipers Creek Road Dondingalong	Kempsey	Dondingalong	Likely	Minor	Medium	4		145
200	Economic	Infrastructure	Kundabung Rural Fire Station	Kundabung Rd	Kempsey	Crescent Head	Likely	Minor	Medium	4		145
201	Economic	Infrastructure	Dondingalong/Wittirin Rural Fire Station	Davis Road Wittirin	Kempsey	Dondingalong	Likely	Minor	Medium	4		145
202	Economic	Tourist and Recreational	Pines Picnic Area	Way Way	Nambucca	Scotts Head	Likely	Minor	Medium	4		110;141
203	Economic	Tourist and Recreational	Cedar Park Picnic Area	Cedar Park	Nambucca	Eungai	Likely	Minor	Medium	4		110;141
204	Economic	Tourist and Recreational	Yarriabinni Lookout	Yarriabinni	Nambucca	Scotts Head	Likely	Minor	Medium	4		110;141
205	Economic	Tourist and Recreational	Gorge Lookout - Viewing platform	Gravelly Creek	Nambucca	Thumb Creek	Likely	Minor	Medium	4		110
206	Economic	Tourist and Recreational	New England NP Lookout - Viewing Platform	Robinsons Knob Trail	Nambucca	Thumb Creek	Likely	Minor	Medium	4		110
207	Economic	Tourist and Recreational	Eagles Nest Lookout Viewing Platform	New England National Park	Nambucca	Thumb Creek	Likely	Minor	Medium	4		110
208	Human Settlement	Other	Missabotti Hall and Fire Station	Missabotti	Nambucca	Missabotti	Unlikely	Major	Medium	4		80
209	Economic	Commercial Forest	Marnie Moran Private plantation	728 Missabotti Rd	Nambucca	Missabotti	Likely	Minor	Medium	4		146
210	Economic	Infrastructure	Telstra substation	Ocean Avenue Stuarts Point	Kempsey	Clybucca	Likely	Minor	Medium	4		148
211	Economic	Infrastructure	Mt England Communications Tower	Mt England Valla	Nambucca	Valla	Likely	Minor	Medium	4		149
212	Human Settlement	Other	South West Rocks Country Club NSP	2 Sportsmans Way South West Rocks	Kempsey	Clybucca	Possible	Moderate	Medium	4		83
213	Economic	Commercial	Yarrahapinni Nursery	Stuarts Point Rd	Kempsey	Clybucca	Likely	Minor	Medium	4		150
214	Economic	Infrastructure	Telstra boxes	Skyline Crescent	Kempsey	Crescent Head	Likely	Minor	Medium	4		92
215	Human Settlement	Other	Nambucca Plaza NSP	Crn Pacific Highway and Bellwood Road Nambucca Heads	Kempsey	Nambucca Heads	Possible	Moderate	Medium	4		83
216	Human Settlement	Other	Scotts Head Bowling Club NSP	West Street Scotts Head	Kempsey	Scotts Head	Possible	Moderate	Medium	4		83
217	Human Settlement	Other	Valla Community Hall NSP	451 Valla Road Valla	Kempsey	Valla	Unlikely	Major	Medium	4		83
218	Human Settlement	Other	Taylors Arm Oval NSP	Crn North Bank Rd and Taylors Arm Rd Taylors Arm	Kempsey	Taylors Arm	Unlikely	Major	Medium	4		83
219	Human Settlement	Other	Donnelly Welsh Playing Fields NSP	Dudley Street Macksville	Kempsey	Gumma	Unlikely	Major	Medium	4		83
220	Human Settlement	Other	Kempsey Showground NSP	Sea Street, West Kempsey	Kempsey	Kempsey	Unlikely	Major	Medium	4		83

221	Human Settlement	Residential	Thungutti LALC	West Street Bellbrook	Kempsey	Willawarrin	Unlikely	Major	Medium	4		126;151
222	Cultural	Aboriginal Significance	Site 4	various	Kempsey	Crescent Head	Likely	Minor	Medium	4		99
223	Cultural	Aboriginal Significance	Site 4	various	Kempsey	Nambucca Heads	Likely	Minor	Medium	4		99
224	Cultural	Aboriginal Significance	Site 5	various	Kempsey	Nambucca Heads	Likely	Minor	Medium	4		99;152
225	Cultural	Aboriginal Significance	Site 5	various	Kempsey	Scotts Head	Likely	Minor	Medium	4		99;152
226	Cultural	Aboriginal Significance	Site 5	various	Kempsey	Willawarrin	Likely	Minor	Medium	4		99;152
227	Human Settlement	Special Fire Protection	Nambucca Heads Public School	Nambucca Heads	Kempsey	Nambucca Heads	Unlikely	Major	Medium	4		14;60
228	Economic	Commercial	Fisheries Industry	Gumma MDA	Nambucca	Gumma	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	134;133
229	Economic	Commercial	Fisheries Industry	Scotts Head MDA	Nambucca	Scotts Head	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	133;134
230	Economic	Commercial	Fisheries Industry	Clybucca MDA	Kempsey	Clybucca	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	133;134
231	Economic	Commercial	Fisheries Industry	Collombatti MDA	Kempsey	Collombatti	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	133;134
232	Economic	Commercial	Fisheries Industry	Kempsey MDA	Kempsey	Kempsey	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	133;134
233	Economic	Commercial	Fisheries Industry	Gladstone MDA	Kempsey	Gladstone	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	133;134
234	Economic	Commercial Drinking Water Catchment	Fisheries Industry	Crescent Head MDA	Kempsey	Crescent Head	Unlikely	Moderate	Low	NA	Link to the effects of fire in PASS	133;134
235	Economic		Nambucca Shire Dam	Valla Rd	Kempsey	Missabotti	Unlikely	Moderate	Low	NA		143

Appendix 3 Treatment Register

Treat ment Ref No	Strategy	Priority	Action	Comment	Responsible Agency	Other Responsible Agency	Support Agency	Other Support Agency	Scheduled Action Date	Asset Ref Nos
1	Preparedness		Maintain existing strategic fire trail network	Fire trail network managed on a needs basis. Community protection priority.	DPI				1617;1819;1920;2122	
2	Preparedness		Maintain existing strategic fire trail network	Maintain internal and perimeter fire trails annually as per strategic fire trail register.	DPI				1617;1718;1819;1920;2021;2122	
3	Community Education	1A	Conduct a Street Walk in the Sanctuary	Bushfire Survival Planning with residents & NSP. Ensure all residents have a bushfire survival plan and know the location of their NSP.	FRNSW				1617;1718;1819;1920;2021	9
4	Community Education	1A	Signage erected for fire restrictions & safety	Awareness program for campfire safety and responsibility	OEH				1516;1617;1718;1819;1920	12
5	Property Planning	1A	Develop a Bush Fire Evacuation Plan	A bush Fire evacuation plan to be created and implemented.	OEH				1516;1617;1718;1819;1920	12
6	Community Education	1A	Street walk to promote bushfire survival plans	Encourage property preparedness by undertaking community education program	RFS		OEH		1920;2021;2122	14,43
7	Hazard Reduction	1A	Conduct HR slashing in mapped APZ		TI				1516;1617;1718;1819;1920	17;38
8	Hazard Reduction	1A	Maintain APZ by slashing	Slashing in APZ identified on Council Reserve and NPWS reserve south of Dolphin Place to a width of 6 metres or as required for asset protection defined in the BFEAC.	LGA;OEH				1617;1718;1819;1920;2021;2122	7
9	Hazard Reduction	1A	Conduct slashing behind preschool to maintain APZ	Slashing behind (south) pre-school in mapped APZ in line with BFEAC	Private				1516;1617;1718;1819;1920;2021;2122	8
10	Community Education	1A	Inform residents of property preparedness/ protect	Conduct bi-annual engagement program informing residents within urban interface areas of prepare, act survive and NSP.	FRNSW				1819;2021	9
11	Community Education	1A	Conduct Fire safety and awareness campaign	Prepare, Act Survive and NSP	FRNSW				1516;1617;1718;1819;1920	13
12	Hazard Reduction	1A	Hand clearing around asset 3m	Hand clearing for distance 3m annually or as required.	OEH				1617;1718;1819;1920;2021;2122	12
13	Community Education	1A	Conduct Street Walks in urban interface areas	Conduct street walks to inform residents about APZ, bushfire survival plans as well as NSP	FRNSW				1617;1718;1819;1920;2021;2122	1,32
14	Community Education	1A	Conduct annual meeting to discuss evacuation plan	Talk to residents regarding the evacuation plan and NSP	FRNSW				1516;1617;1718;1819;1920;2021;2122	73;132;22778;41
15	Community Education	1A	Annual street walk for Bushfire Survival Plan	Prepare, Act, Survive & NSP	FRNSW				1617;1718;1819;1920;2021;2122	2
16	Hazard Reduction	1A	Conduct slashing within mapped APZ as per BFEAC	Community engagement program on Prepare, Act, Survive, bushfire survival plans and NSP.	LGA;Private				1617;1718;1819;1920;2021;2122	4
17	Community Education	1A	Conduct street walk in urban interface areas	Northern APZ of Valla Nature Reserve. Distances as per Fire Management Strategy.	FRNSW				1617;1718;1819;1920;2021;2122	4
18	Hazard Reduction	1A	Slashing in Valla Nature Reserve as per RFSMS	Slashing in mapped APZ on southern end of Jagun	OEH				1617;1718;1819;1920;2021;2122	5
19	Hazard Reduction	1A	Slashing in Jagun Nature Reserve as per RFSMS	Slashing in mapped APZ on southern end of Jagun	OEH				1617;1718;1819;1920;2021;2122	5
20	Hazard Reduction	1A	Hand clearing in APZ rear of Cockburn & Jones St	Create and maintain APZ behind residents as per mapping	LGA				1617;1718;1819;1920;2021;2122	5
21	Hazard Reduction	1A	Slashing in APZ Henderson Street	Maintain APZ at Henderson Street by slashing	LGA				1617;1718;1819;1920;2021;2122	5
22	Property Planning	1A	Create a bushfire evacuation plan	Evacuation procedures to be developed and distributed or advertised to users of the Reserve including NSP.	LGA				1718	11
23	Community Education	1A	Maintain existing fire awareness sign	Annual check to ensure sign is clearly visible and clean.	RFS				1617;1718;1819;1920;2021;2122	11
24	Hazard Reduction	1A	Maintain mapped APZ by slashing		LGA				1718;1819;1920;2021;2122	11

25	Hazard Reduction Property Planning	1A	Ensure APZ is maintained	Ongoing HC with extreme risk.	Private		RFS	1617;1718;1819;1920;2021;2122	18
26	Property Planning	1A	Bushfire Evacuation Plan to be prepared	Bushfire Evacuation Plan to be prepared. Practiced and Reviewed.	Other	Dept of Education		1617;1819	3;15;8;84
27	Property Planning	1A	Bushfire Evacuation Plan to be prepared	Bushfire Evacuation Plan prepared and reviewed annually	Private			1617;1718	6;45;47;50;81;58;77;79
28	Community Education	1A	Introduce new programs prepare,act,survive	Awareness program focussing on bushfire survival planning & NSP	RFS			1617;1819;2021	103;16;61;44;48;113;71;67
29	Hazard Reduction	1A	SFAZ burning for Isolated Rural Development	Areas within 500m of dwellings may be classified as SFAZ for the purposes of conducting hazard reduction burning in line with the BFEAC.	Private		RFS	1617;1718;1819;1920;2021;2122	19;20;21;22;23;24;27;26;25;28;29;31;30
30	Community Education	1A	Conduct a street walk in Valla Rural	Introduce residents to the Bushfire Survival Plan	RFS			1920	19
31	Community Education	1A	Conduct a letterbox drop in Missabotti Rural	Letterbox drop new Bushfire Survival Plans	RFS			1718	20
32	Community Education	1A	Promote Bushfire Survival Planning	Discuss planning with a local group and provide them with booklets, brochures and local contacts	RFS			1718	22
33	Community Education	1A	Letterbox drop bushfire survival information pack	All isolated rural dwellings in Collobatti area to receive bushfire survival plan, brochures and local contacts.	RFS			1920	25
34	Community Education	1A	Conduct street walk targeting new residents	Community engagement volunteers living locally to target new residents to assist them with their bushfire survival plan	RFS			1819	31
35	Community Education	1A	Take part in open day	Promote open day and use it as a tool to inform residents on bushfire survival planning.	RFS			1617	26
36	Community Education	1A	Media campaign on prepare, act, survive	Conduct a media campaign to inform residents on preparedness and the bushfire survival planning process	RFS			1617;2021	27;28;29;23;24;30;31;19;20;21;22;25;26;103;85
37	Hazard Reduction	1A	Maintain existing APZ	Maintained mapped APZ	Private			1516;1617;1718;1819	10;13;32
38	Hazard Reduction	1A	Maintain mapped APZ's	Maintain fuel within mapped APZ's	TI	Nambucca Heads LALC		1617;1718;1819;1920;2021;2122	9
39	Hazard Reduction	1A	Maintain APZ	Maintain APZ in mapped area	Private			1617;1718;1819;1920;2021;2122	1
40	Hazard Reduction	1A	HR burning in SFAZ	Hazard reduction to be undertaken as per BFEAC for SFAZ burning	RFS		TI CL	1516;1617;1718;1819;1920	36;68
41	Property Planning	1A	Create and maintain a bushfire evacuation plan	Create and maintain a bushfire evacuation plan	Private		FRNSW	1516;1617;1718;1819;1920	10;13;32;105
42	Property Planning	1A	Develop a Bush Fire Evacuation plan	A Bushfire Evacuation Plan should be created, implemented and reviewed annually.	Private			1718;1819	65;134;42;133;135
43	Preparedness	1A	Maintain Strategic Fire Trail network	Maintain fire trails in line with the BFMC Strategic Fire Trail Register	TI	CL;LGA;DEH; Private;DPI		1516;1617;1718;1819;1920;2021;2122	19;20;21;22;23;24;25;26;27;28;29;30;31
44	Hazard Reduction	1A	Maintain APZ's	Maintain APZ's annually as per mapping in BFRMP	TI	CL;LGA;Private		1516;1617;1718;1819;1920	36;68
45	Community Education	1A	Static Display at local markets	RFS attend local markets. Static display on Prepare, Act Survive	RFS			1819	36
46	Community Education	1A	Conduct Street Walk in Urban Interface	RFS conduct street walk in urban interface areas focusing on property preparation and bush fire survival planning	RFS			1617;1819	36
47	Community Education	1A	Discuss alerts and planning with Park Managers	Meet with Stuarts Point Park Managers to discuss Alerts and sources of information	RFS		LGA	1617;1819;2021	37
48	Property Planning	1A	Maintain Bushfire Evacuation Plan	Ensure bushfire survival plan is current and practiced	Private			1516;1617;1819;1920	34;35;40
49	Hazard Reduction	1A	Maintain APZ	Ensure fuel is managed in the IPA of cabins	Private			1516;1617;1718;1819;1920;2021	34
50	Preparedness	1A	Maintain signage on walking trail network	Ensure signage on walking trail network is clearly visible	Private			1617;1718;1819;1920;2021;2122	34
51	Hazard Reduction	1A	Maintain mapped APZ	Ensure mapped APZ to the north of the Park is maintained	LGA			1516;1617;1718;1819;1920;2021	33
52	Property Planning	1A	Develop a Bush Fire Evacuation Plan	Ensure the Park has a bush fire evacuation plan	LGA			1516;1617;1718;1819;1920;2021	33

53	Community Education Hazard Reduction	1A	Inform Park Managers on Prepare, Act Survive	Work with Park Managers to understand where to find information, alerts and bushfire danger ratings.	RFS			1718;1819	33;34;35
54	Hazard Reduction	1A	HR burning in mapped SFAZ	HR burning in mapped SFAZ to the east of the Grassy Head Park	LGA		RFS	1617;1819	33
55	Hazard Reduction	1A	Maintain mapped APZ's	Maintain APZ's in line with BFEAC	OEH			1516;1617;1718;1819;1920;2021	29
56	Hazard Reduction	1A	HR burning in SFAZ	HR burning on private property as required	OEH		RFS	1920;2021	38
57	Hazard Reduction	1A	Hazard Reduction Burning in mapped SFAZ	SFAZ burning in mapped area south of Keith Andrews Avenue	Private		FRNSW;RFS	1718	17
58	Hazard Reduction	1A	Slashing in mapped APZs	Slashing in mapped APZ's in the Arakoon area	TI CL;LGA			1617;1718;1819;1920;2021;2122	14
59	Property Planning	1A	Develop and Implement Community Protection Plan	CPP to be developed	RFS			1617	14;17;5;36;83;82
60	Community Education	1A	Conduct Childrens Education Program	Conduct annual Childrens education program	FRNSW			1617;1718;1819;1920;2021;2122	73;132;227;78;41
61	Property Planning	1A	Develop and Implement a Bush Fire Evacuation Plan	Work with the School to Develop and Implement a Bush Fire Evacuation Plan	FRNSW;Private			1617;1718;1819	39
62	Hazard Reduction	1A	Maintain APZ and SFAZ	Maintain mapped APZ and SFAZ in line with the APZ guidelines and the BFEAC	Private;Other	Dept of Education	FRNSW	1617;1718;1819;1920;2021;2122	39
63	Hazard Reduction	1A	Maintain APZ	Maintain APZ by slashing at least biannually	LGA			1718;1819;1920;2021;2122	125;2;127
64	Preparedness	1A	Maintain fire trails in Hat Head National Park	Maintain fire trails as per strategic fire trail register to facilitate fire vehicle access and fire fighter safety in the containment and control of wildfires	OEH			1718;1819;1920;2021;2122	82;14
65	Preparedness	1A	Maintain Fire Trails in Maria River National Park	Maintain fire trails as per strategic fire trail register to facilitate fire vehicle access and fire fighter safety in the containment and control of wildfires	OEH			1718;1819;1920;2021;2122	43
66	Ignition Management	1A	Maintain and operate remote fire detection camera	Maintain and operate remote fire detection camera on Point Lookout to facilitate efficient fire detection and response in the upper Macleay Valley (Five Day Bushfire Evacuation Plan to be prepared. Practiced and Reviewed in line with NSP.	OEH			1718;1819;1920;2021;2122	22
67	Property Planning	1B	Bushfire Evacuation Plan to be prepared	Bushfire Evacuation Plan to be prepared. Practiced and Reviewed in line with NSP.	Other	Dept of Education		1516;1617	99;106;52;197;45;49;100;76
68	Hazard Reduction	1B	Maintain APZ by slashing	Adjoining landholder needs to maintain existing slashed break in line with BFEAC. In line with APZ mapping on plan	Private			1617;1718;1819;1920;2021	47
69	Hazard Reduction	1B	HR burning	HR burning in line with BFEAC	Other	Dept of Corrective Services	RFS		62
70	Community Education	1B	Conduct Street Walk in urban interface areas	Implement program/s to inform residents on preparing their property and prepare, act survive. In line with NSP					
71	Property Planning	1B	Create a bushfire evacuation plan	Bushfire Evacuation plan created in line with NSP	FRNSW;RFS			1718;1819	55
72	Hazard Reduction	1B	Handclearing distance 10m annually	Handclearing distance 10m. APZ to be inspected annually and works completed as required.	LGA		RFS	1718;1819;1920;2021	50;86
73	Ignition Management	1B	Facilitate early detection and response	Ensure a timely response by appropriate RFS resources in line with s52 plan of operations.	OEH			1617;1718;1819;1920;2021;2122	63
74	Hazard Reduction	1B	Conduct HR burn in SFAZ when OFH reaches high	Mosaic burning in various mapped SFAZ areas	RFS		OEH;DPI	1617;1718;1819;1920;2021;2122	59;92
75	Community Education	1B	Street walk in Skyline and Dulcoughi Streets	Bi-annual community education for residents to be prepared for fire.	RFS			1718;1819;1920;2021;2122	53
76	Hazard Reduction	1B	HR Burning in SFAZ north of Allman Place	HR burning in line with interval for SFAZ in the BFEAC	RFS		TI CL	1718;1819;1920;2021;2122	54
77	Hazard Reduction	1B	Maintain existing APZ in Allman Place	Slashing twice a year.	TI CL			1718;1819;1920;2021;2122	54
78	Hazard Reduction	1B	Conduct HR burning in SFAZ when OFH reaches high	HR burning in mapped SFAZ in line with BFEAC	Other	Dept of Education	RFS	1718	102;49;46

79	Hazard Reduction Community Education	1B	APZ and SFAZ maintained in line with BFEAC	Mapped and identified APZ's and SFAZ's maintained in line with BFEAC	Private	RFS	1617;1718;1819;1920;2021;2122	61;44;48;71
80	Hazard Reduction	1B	Introduce Prepare, Act, Survive & NSP	Introduce Prepare, Act, Survive & NSP	RFS		2021	47;208
81	Hazard Reduction	1B	Maintain Asset Protection Zones	Maintain APZ in line with BFEAC/REMS	OEH		1617;1718;1819;1920;2021;2122	64
82	Property Planning	1B	Prepare a Bushfire Evacuation Plan	Prepare and practice a Bushfire evacuation plan	Private		1718	56;57;51
83	Hazard Reduction	1B	Maintain Fuels in accordance with Guidelines	Maintain bush fire fuels at or below the level that meets the Essential Selection Criteria specified in the Neighbourhood Safer Places Guidelines prepared by the RFS	LGA;Private;RFS		1516;1617;1718;1819;1920;2021;2122	143;212;215;216;217;219;218;72;114;116;115;180;220
84	Hazard Reduction	1B	HR Burning in mapped SFAZ	HR burning in mapped SFAZ north of Scotts Head	OEH		1718;1819;1920;2021;2122	58;61
85	Hazard Reduction	1B	Maintain APZ east of Millington Avenue	Annual slashing in APZ	LGA		1516;1617;1718;1819;1920	66
86	Hazard Reduction	1B	Maintain APZ	Maintain mapped APZ to west of Dwellings on Millington Avenue	TI CL		1516;1718;1819;1920	66
87	Hazard Reduction	1B	HR burning in SFAZ	HR burning in SFAZ as per BFEAC	TI CL	LGA	2122	66
88	Community Education	1B	Street Walk on Bush Fire Survival Planning	Conduct street walk to assist people with preparing and/or maintaining their Bush Fire Survival Plan	RFS		1718;1819;1920;2021	66
89	Community Education	1B	Prepare a bush fire survival plan	Engage landholders to prepare a bush fire survival plan	RFS		1617;1718;1819;1920;2021;2122	69
90	Hazard Reduction	1B	Maintain mapped APZ	Maintain mapped APZ	RFS		1718;1819	185;69
91	Hazard Reduction	1B	HR Burning in SFAZ	Maintain SFAZ by burning to protect Communications Tower	OEH		1718;1819	64
92	Hazard Reduction	1B	Maintain APZ	Maintain APZ in line with the BFEAC	LGA		1516;1617;1718;1819;1920;2021;2122	214;65
93	Hazard Reduction	1B	Maintain APZ	Maintain APZ on the southern side of Skyline Crescent in line with the BFEAC distances.	LGA		1516;1617;1718;1819;1920;2021;2122	53
94	Hazard Reduction	1B	HR burning in SFAZ	Conduct hazard reduction burning in mapped SFAZ to the south of Crescent Head Public School	LGA		1718;1819	65
95	Property Planning	1B	Create a Bush Fire Evacuation Plan	RFS to work with owners to prepare a Bush Fire Evacuation Plan	Private	RFS	1718;1819	70
96	Hazard Reduction	1B	Maintain APZ distances in line with BFEAC	Maintain area around assets as an APZ in line with BFEAC or future requirements for special fire protection developments	Private		1516;1617;1718;1819;1920;2021;2122	70
97	Preparedness	1B	Apply treatments as per Community Protection Plan	Apply treatments as per Crescent Head Community Protection Plan	TI CL;LGA;OEH;RFS;DPI		1617;1718;1819;1920;2021;2122	53;54;124
98	Hazard Reduction	1B	Maintain APZ	Maintain APZ to the rear of Teddy Bears Kindy	LGA		73	74;117;118;119;120;121;122;123;164;165;166;167;168;169;170;171;172;173;174;175;176;177;222;223;224;225;226
99	Other	1B	Adhere to AHIMS and BFEAC	Ensure AHIMS advice and BFEAC conditions are applied to hazard reduction burning and consideration is given during wildfire events where possible.	OEH	Other	1617;1718;1819;1920;2021;2122	75
100	Hazard Reduction	1B	Maintain APZ around dwellings	LAC to monitor SFAZ adjoining APZ. When overall fuel load reaches 10t/ha liaise with RFS for treatment.	Private		1718;1819;1920;2021;2122	75
101	Hazard Reduction	1B	Maintain SFAZ	Maintain fire trails as per strategic fire trail register to facilitate fire vehicle access and fire fighter safety in the containment and control of wildfires	Private	RFS	1718;1819;1920;2021;2122	51;57;56
102	Preparedness	1B	Maintain fire trails in Limeburners National Park		OEH		1617;1718	80
103	Property Planning	1C	Ensure current evacuation plan is prepared		LGA	TI CL;FRNS W		

104	Hazard Reduction	1C	HR Burning in Connors SFAZ when OFH reaches high	HR burning at BFEAC intervals for SFAZ.	OEH	RFS	1617	82
105	Hazard Reduction	1C	HR Burning in Private land south of Connors SFAZ	Joint burn with DECC and RFS at interval described in BFEAC	RFS	OEH	1617	82
106	Community Education	1C	Community Education Hutchinson & Bay Streets	Concentrating on preparing your property	RFS		1718;1920	83
107	Preparedness	1C	Maintain fire access trail	Maintain beach access trail between northern corner of hutchinson street and the beach to fire trail standard. Mapped as APZ.	LGA		1516;1617;1718;1819;1920;2021;2122	83
108	Hazard Reduction	1C	APZ maintained on KSC Reserve	APZ mapped	LGA	TI CL	1516;1617;1718;1819;1920;2021;2122	85
109	Hazard Reduction	1C	Maintain APZ	APZ maintained around asset in line with BFEAC and RFS guidelines for APZ's	LGA		1516;1617;1718;1819;1920;2021;2122	86
110	Property Planning	1C	Maintain as per Reserve Fire Management Strategy	Maintain as per Reserve Fire Management Strategy.	OEH		1617;1718;1819;1920;2021;2122	109;87;110;111;142;193;205;206;207
111	Hazard Reduction	1C	Maintain APZ	APZ work completed annually	Other	Telstra Corporation	1617;1718;1819;1920;2021;2122	88;112
112	Hazard Reduction	1C	Maintain mapped APZ's and SFAZ's	Maintain mapped APZ's and SFAZ's in line with BFEAC or when overall fuel reaches high.	OEH/Private	TI CL;RFS	1617;1718;1819;1920;2021;2122	89
113	Community Education	1C	Undertake community engagement program	Program initiated by NSWFB to inform businesses and residents on property preparedness.	FRNSW		1617;1718;1819;1920;2021;2122	138;90
114	Hazard Reduction	1C	Maintain mapped APZs		TI CL	OEH/Private;DPI	1617;1718;1819;1920;2021;2122	82
115	Other	1C	Awareness of Incident Management Teams	Awareness of IMT's in suppression operations and for burn planners	OEH	TI CL;LGA;Private;FCN SW	1718;1819;1920;2021;2122	91
116	Ignition Management	1C	Restrict vehicle access and machinery	Apply the BFEAC for all hazard reduction burning. Machinery to only create new breaks during wildfire events in SEPP14 when life and property is at threat.	RFS	OEH;FCN SW	1718;1819;1920;2021;2122	92
117	Hazard Reduction	1C	Inspect SFAZ and maintain as required	Management practices should aim to achieve mosaic fuel reduction patterns to reduce the rate of spread and intensity of a bush fire, whilst minimising the environment & ecological impacts of the fire.	FCNSW		1718;1819;1920;2021;2122	93;94;128;95;96;154;97;98;191
118	Preparedness	1C	Inspect Fire Trail(s) and maintain as required	Develop & implement maintenance program for Fire Trails & Fire Access Trails	FCNSW		1718;1819;1920;2021;2122	93;94;149;129;128;146;147;148;150;151;152;153;179;95;96;154;97;98;192;191
119	Hazard Reduction	1C	Hazard Reduction Burning	Undertake hazard reduction burn in accordance with Land Owner Fire Management plans.	FCNSW		1718;1819;1920;2021;2122	93;94;149;128;129;146;147;148;150;151;152;153;179;95;96;154;97;98;192;191
120	Community Education	1C	Conduct Community Engagement Activity	Develop and implement Community Engagement Strategy and annual Community Engagement Action Plan.	FCNSW		1718;1819;1920;2021;2122	93;94;149;128;129;146;147;148;150;151;152;153;179;95;96;154;97;98;192;191
121	Property Planning	2A	Bushfire Evacuation Plan to be prepared	Bushfire Evacuation Plan to be prepared. Practiced and Reviewed	FCNSW	RFS	1718;1819;1920;2021;2122	94;96;97;98
122	Hazard Reduction	2A	Maintain APZ	APZ maintained along fences and or adjoining assets as per RFS guidelines for APZ's	Other	Dept of Education	1516;1617	101
123	Property Planning	2A	Create a bushfire evacuation plan	Bushfire Evacuation plan created	Private		1617;1718;1819;1920;2021;2122	104;140;141;183
124	Preparedness	2A	Undertake routine maintenance of fire trails	Maintain fire trails as per BFMFC Fire Trail Register	OEH		1617	195;196;107;163
125	Property Planning	2B	Develop a bush fire evacuation plan	This premises should have in place and be practicing a bushfire and/or emergency evacuation plan. The residents have low mobility and the dwellings are flammable.	TI CL;LGA;OEH;DPI;FCNSW		1718;1819;1920;2021;2122	126
126	Hazard Reduction	2B	Maintain APZ	Maintain APZ in line with BFEAC	Private	FRNSW	1718;1819;2122	130
					Private	RFS	1617;1718;1819;1920;2021;2122	221;131;181

127	Hazard Reduction	2B	Maintain mapped APZ	Maintain APZ slashing in adjoining reserve	LGA			1718;1819;1920;2021;2122	133
128	Hazard Reduction	2C	Maintain mineral earth break 40m from asset.	40m Mineral earth break around trig site	OEH			1617;1718;1819;1920;2021;2122	139
129	Ignition Management	2C	Fire Tower Surveillance/Ground Patrol	As per Central Region Preparedness Guide	DPI			1516;1617;1718;1819;1920;2122	137;157;158;155;156;159
130	Hazard Reduction	2C	Maintain APZ in line with BFEAC	APZ maintained to level stated in RFS guidelines for APZ's	Private			1617;1718;1819;1920;2021;2122	136
131	Ignition Management	2C	Restrict Bush Fire	Restrict Bush Fire and conduct hazard reduction burning in line with the BFEAC threatened species hazard reduction list	OEH;RFS			1718;1920;2021;2122	144
132	Ignition Management	2C	Hazard reduction burning in line with the BFEAC	All hazard reduction burning to be conducted in line with the BFEAC and the threatened species hazard reduction list.	Other	All as relevant		1718;1819;1920;2021;2122	187;145;188;189
133	Other	3A	Restrict hazard reduction burning in areas of PASS	Restrict HR burning to low intensity burns only	TI CL;LGA;OEH; Private;RFS			1516;1617;1718;1819;1920;2021;2122	162;234;233;233;231;230;229;228
134	Other	3A	Restrict construction of new fire trails in PASS	No new fire trails to be constructed in areas mapped as PASS	TI CL;LGA;OEH; Private;DPI			1617;1718;1819;1920;2021;2122	162;234;233;233;231;230;229;228
135	Preparedness	3A	Maintain existing 20m break	20m APZ mineral earth break to be maintained annually or as required.	LGA;OEH			1819;1920;2021;2122	161
136	Hazard Reduction	3A	Maintain mapped APZ in line with BFEAC	Maintain mapped APZ in line with BFEAC	TI CL			1415;1516;1617;1718;1819;1920;2021;2122	160
137	Hazard Reduction	3A	Slashing within mapped APZ	Slashing within identified APZ	OEH			1415;1516;1617;1718;1819;1920;2021	195;163;196
138	Ignition Management	3A	Prohibit campfires as prescribed	Prohibit campfires on TOBAN days and on Park Fire Ban days	OEH			1617;1718;1819;1920;2021	195;163;196
139	Community Education	3A	Maintain signage	Maintain fire awareness signage	OEH			1516;1617;1718;1819	195;182;163;196
140	Ignition Management	3A	Restrict Bush Fire	Restrict Bush Fire and conduct hazard reduction burning in line with the BFEAC and the threatened species hazard reduction list	Private;RFS			1718;1819;1920;2021	178
141	Property Planning	3D	Prepare a Bushfire Evacuation Plan	Prepare a Bushfire Evacuation Plan	OEH			1617;1718;1819;1920;2021;2122	182;193;185;202;203;204
142	Hazard Reduction	3D	Reduce fuel by burning	Conduct hazard reduction burning in mapped SFAZ	RFS			1819;1920	186
143	Property Planning	4	Actions described in the Management Plan	Management plan developed by Council describes management actions and strategies for bushfire.	LGA			1718;1819;1920;2021;2122	194;235
144	Community Education	4	Erect signage for general fire safety/relocation	Bushfire awareness and emergency relocation signage.	LGA			1718	198
145	Hazard Reduction	4	Maintain APZ	APZ maintained in line with BFEAC and RFS guidelines for APZ's	LGA	RFS		1617;1718;1819;1920;2021;2122	199;200;201;198
146	Hazard Reduction	4	Create and maintain APZ	Maintain adequate APZ around plantation within environmental constraints	Private			1718;1819;1920;2021;2122	209
147	Property Planning	4	Create a Bushfire Evacuation Plan	Create a Bushfire Evacuation Plan in line with NSP	LGA			1617;1718	198
148	Hazard Reduction	4	Maintain existing 20m APZ	Ensure 20m APZ is maintained around Telstra substation by mechanical treatment	Private	RFS		1516;1617;1718;1819;1920	210
149	Hazard Reduction	4	Maintain APZ	VERTEL to maintain APZ in line with BFEAC	Private			1516;1617;1718;1819;1920	211
150	Property Planning	4	Develop a Bush Fire Evacuation Plan	Develop a Bush Fire Evacuation Plan	Private			1718	213
151	Hazard Reduction	4	Monitor SFAZ	Thungutti LAIC to monitor SFAZ adjoining APZ on neighbouring land. When overall fuel load reaches 10t/ha liaise with RFS for treatment.	Private	RFS		1617;1718;1819;1920;2021;2122	221

152	Other	4	Restrict all activities within 100m	Restrict all activities within a 100m buffer of all mapped sites	OEH	CA;TI CL;LGA;O EH;FRNS W;Private ;RES;DPI; FCNSW	1718;1819;1920;2 021;2122	225;224;226
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Appendix 4-19 Maps

Map Display Area	Map Number
Crescent Head	1
Gladstone	2
Kempsey	3
Dondingalong	4
Clybucca	5
Collombatti	6
Willawarrin	7
Eungai	8
Missabotti	9
Scotts Head	10
Valla	11
Nambucca Heads	12
Gumma	13
Taylors Arm	14
Thumb Creek	15



Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T6	Community Education	Street walk to promote bushfire survival plans	RFS (OEH)
T27	Property Planning	Bushfire Evacuation Plan to be prepared	Private
T28	Community Education	Introduce new programs prepare, act, survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T36	Community Education	Media campaign on prepare, act, survive	RFS
T42	Property Planning	Develop a Bush Fire Evacuation plan	Private
T43	Preparedness	Maintain Strategic Fire Trail network	TI, CL, LGA, OE, Private, DPI
T46	Property Planning	Maintain Bushfire Evacuation Plan	Private
T65	Preparedness	Maintain Fire Trails in Maria River National Park	OE
T73	Ignition Management	Facilitate early detection and response	RFS (OE, DPI)
T74	Hazard Reduction	Conduct HR burn in SFAZ when OFH reaches	RFS
T75	Community Education	Street walk in Skyline and Dulcough Streets	RFS
T77	Hazard Reduction	HR Burning in SFAZ north of Allman Place	RFS (TI, CL)
T77	Hazard Reduction	Maintain existing APZ in Allman Place	TI, CL
T79	Hazard Reduction	APZ and SFAZ maintained in line with BFEAC	Private (RFS)
T82	Property Planning	Prepare a Bushfire Evacuation Plan	Private
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T92	Hazard Reduction	Maintain APZ	LGA
T93	Hazard Reduction	Maintain APZ	LGA
T94	Hazard Reduction	HR burning in SFAZ	LGA (RFS)
T95	Property Planning	Create a Bush Fire Evacuation Plan	Private (RFS)
T96	Hazard Reduction	Maintain APZ distances in line with BFEAC	Private
T97	Preparedness	Apply treatments as per Community Protection	TI, CL, LGA, OE, RFS, DPI
T99	Other	Adhere to AHMS and BFEAC	OE (All other land management)
T100	Hazard Reduction	Maintain APZ around dwellings	Private
T101	Hazard Reduction	Maintain SFAZ	Private (RFS)

Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T102	Preparedness	Maintain fire trails in Limeburners National Park	OEH
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T117	Hazard Reduction	Inspect SFAZ and maintain as required	FCNSW
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T120	Community Education	Conduct Community Engagement Activity	FCNSW (RFS)
T123	Property Planning	Create a bushfire evacuation plan	OEH
T129	Ignition Management	Fire Tower Surveillance/Ground Patrol	DPI
T132	Ignition Management	Hazard reduction burning in line with the BFAC	All as relevant
T133	Other	Restrict hazard reduction burning in areas of	TI, CL, LGA, OEH, Private, RFS
T134	Other	Restrict construction of new fire trails in PASS	TI, CL, LGA, OEH, Private, DPI
T137	Hazard Reduction	Slashing within mapped APZ	OEH
T138	Ignition Management	Prohibit campfires as prescribed	OEH
T139	Community Education	Maintain signage	OEH
T141	Property Planning	Prepare a Bushfire Evacuation Plan	OEH
T145	Hazard Reduction	Maintain APZ	LGA (RFS)

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
27	Isolated Rural Development Kundabung	Human	Residential	Extreme	1A	T29;36;43
40	Kempsey Adventist School	Human	Special Fire	Extreme	1A	T48
43	Isolated dwellings Crescent Head Rd	Human	Residential	Extreme	1A	T6;65
51	Big Hill Private Cabins	Human	Special Fire	Extreme	1B	T82;102
53	Crescent Head South	Human	Residential	Extreme	1B	(1)
54	Crescent Head North	Human	Residential	Extreme	1B	T76;77;97
56	Rancho Relaxo tourist cabins	Human	Special Fire	Extreme	1B	T82;102
57	Delicate Nobby Private camping ground	Human	Special Fire	Extreme	1B	T82;102
59	SEPP 26 Shire wide	Environment	Endangered	Extreme	1B	T73
65	Crescent Head Primary School	Human	Special Fire	Extreme	1B	T42;92;94
70	Surfaris Surf Camp Lodge	Human	Special Fire	Extreme	1B	T95;96
71	Lotfus Aboriginal Community	Human	Residential	Extreme	1B	T79;28
75	Lotfus Road Community	Human	Residential	Extreme	1B	T100;101
79	Crescent Head Community Pre-School	Human	Special Fire	Extreme	1B	T27
97	Maria River State Forest	Economic	Commercial	Extreme	1C	(2)
98	Kalaterenee State Forest	Economic	Commercial	Extreme	1C	(3)
109	Cultural Heritage	Cultural	Non	Very High	2A	T110
110	Cultural Heritage	Cultural	Non	Very High	2A	T110
114	Crescent Head Country Club NSP	Human	Other	Very High	2A	T83
124	Crescent Head	Human	Residential	Very High	2A	T19
137	Joint Venture Plantation	Economic	Commercial	Very High	2C	T92
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
157	Joint Venture Plantation Rainbow End	Economic	Commercial	High	3A	T129
163	Delicate Camp ground	Economic	Tourist and	High	3A	(4)
170	Site 4	Cultural	Aboriginal	High	3A	T99
171	Site 4	Cultural	Aboriginal	High	3A	T99
173	Site 4	Cultural	Aboriginal	High	3A	T99
189	Vulnerable Species	Environment	Vulnerable	High	3D	T132
193	NPWS Day Use Areas	Economic	Tourist and	High	3D	T110;141
195	Racecourse/Soolawah Camp Grounds	Economic	Tourist and	Medium	4	(5)
196	Big Hill NPWS camp ground	Economic	Tourist and	Medium	4	(6)
200	Kundabung Rural Fire Station	Economic	Infrastructure	Medium	4	T145
214	Telstra boxes	Economic	Infrastructure	Medium	4	T92
222	Site 4	Cultural	Aboriginal	Medium	4	T99
234	Fisheries Industry	Economic	Commercial	Low	NA	T133;134

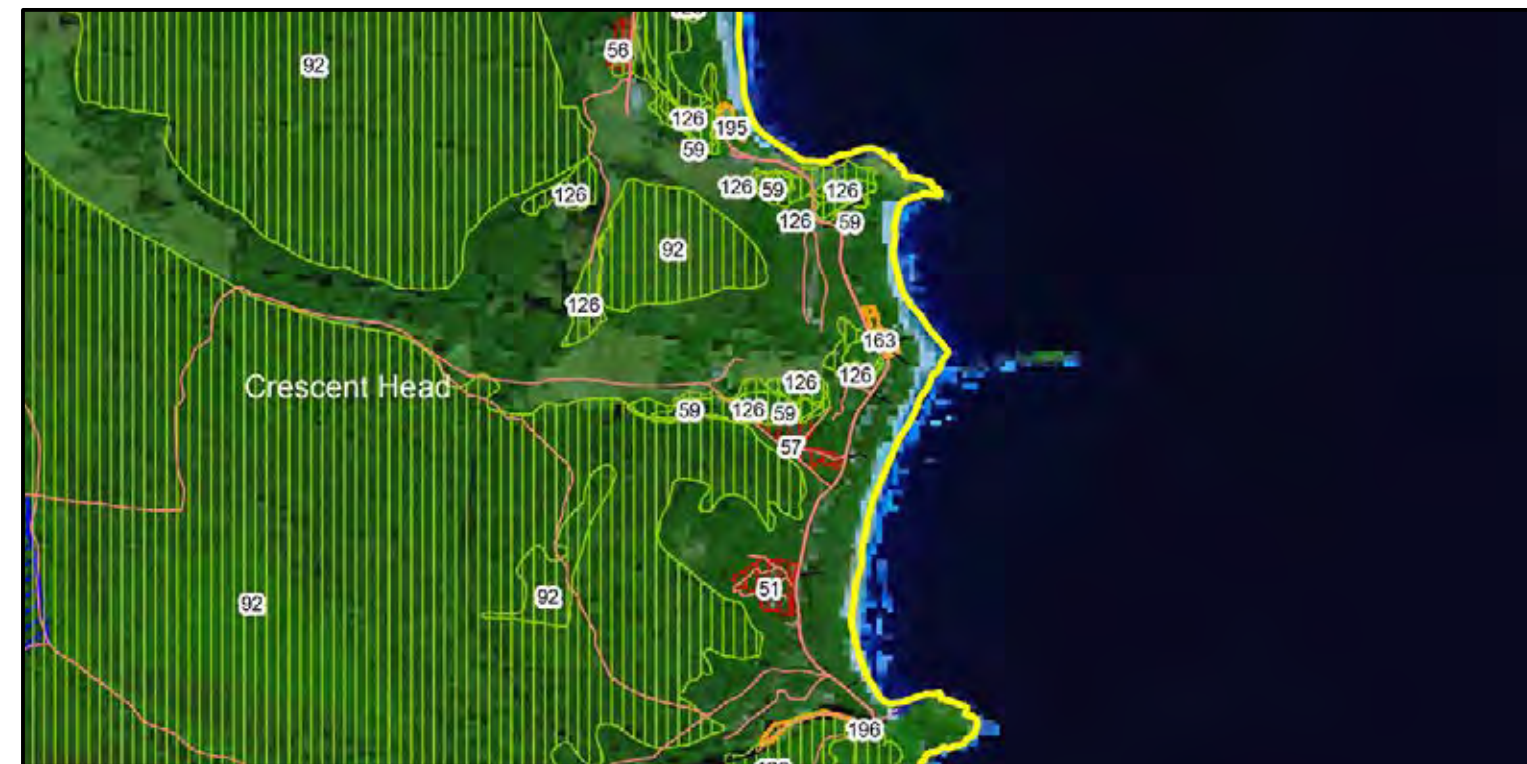
(1):T74;75;93;97
(2):T120;119;118;117
(3):T120;119;118;117
(4):T137;138;123;139
(5):T137;123;138;139
(6):T123;137;138;139



Inset map 1. Crescent Head



Inset map 2. Loftus Road Community



Inset map 3. Tourist Facilities

Crescent Head - Map Display Area

Map 1 of 15

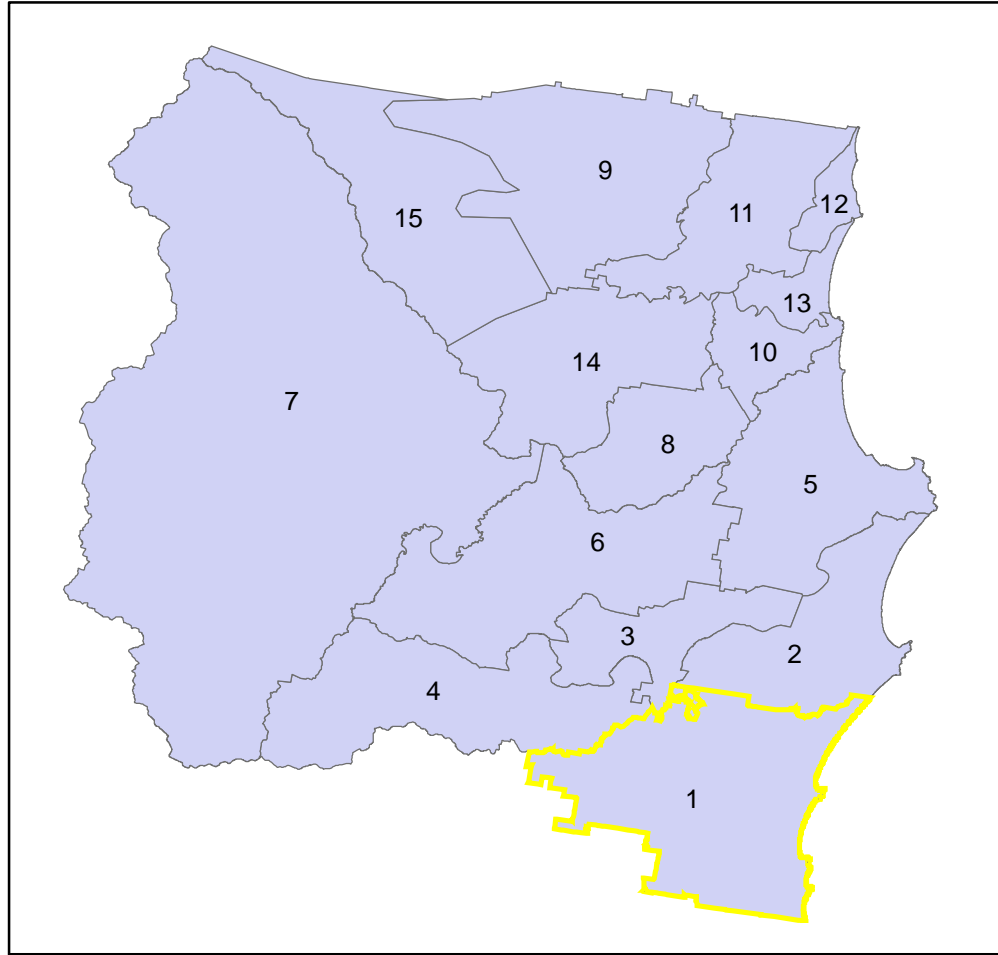
This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Kempsey_Nambucca Bush Fire Management Committee (BFMC) pursuant to section 52 of the *Rural Fires Act 1997*.

The **aim** of this BFRMP is to reduce the adverse impact of bush fires on life, property and the environment.

The **objectives** of this BFRMP are to:

- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
- manage fuel to reduce the spread and intensity of bush fires while minimising environmental/ecological impacts;
- reduce the community's vulnerability to bush fires by improving its preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

This map forms part of the BFRMP for the Kempsey_Nambucca BFMC, covering the local government area(s) of Kempsey and Nambucca. It should be viewed in conjunction with the accompanying BFRMP document which provides further details on the BFMC area, the assets assessed and the risk assessment process used.



Review

Under the *Rural Fires Act 1997* this plan must be reviewed and updated within each successive five year period following the constitution of the BFMC. The Kempsey Nambucca BFMC will also review this plan as necessary. This may be triggered by a range of circumstances, including but not limited to:

- changes to the BFMC area, organisational responsibilities or legislation;
- changes to the bush fire risk in the area; or
- following a major fire event.

Assets

This BFRMP identifies the assets that are considered by the Kempsey Nambucca BFRMP and community to be at risk from bush fires, assesses the bush fire risk to each asset and assigns treatments designed to mitigate the risk. Assets in the BFRMP are identified as requiring treatments are listed in the assets table. Other assets within the BFRMP area that were assessed as not requiring treatments within the life of this plan are listed in the appendix to the BFRMP document. The Map Ref number 'NA' denotes non-spatial assets.

Treatments

Specific treatments assigned to assets in the Kempsey_Nambucca area are listed in the treatments table and linked to the assets which they are designed to protect. Standard BFMC wide treatments (i.e. not linked to a specific asset) which occur on an ongoing basis within the BFMC area are:

- reviewing the bush fire prone land map;
- ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
- using the Local Environment Plan/s (LEP/s) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S52 Operations Coordination Plan;

Note on LMZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LMZ for this risk management plan. For areas identified by an LMZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

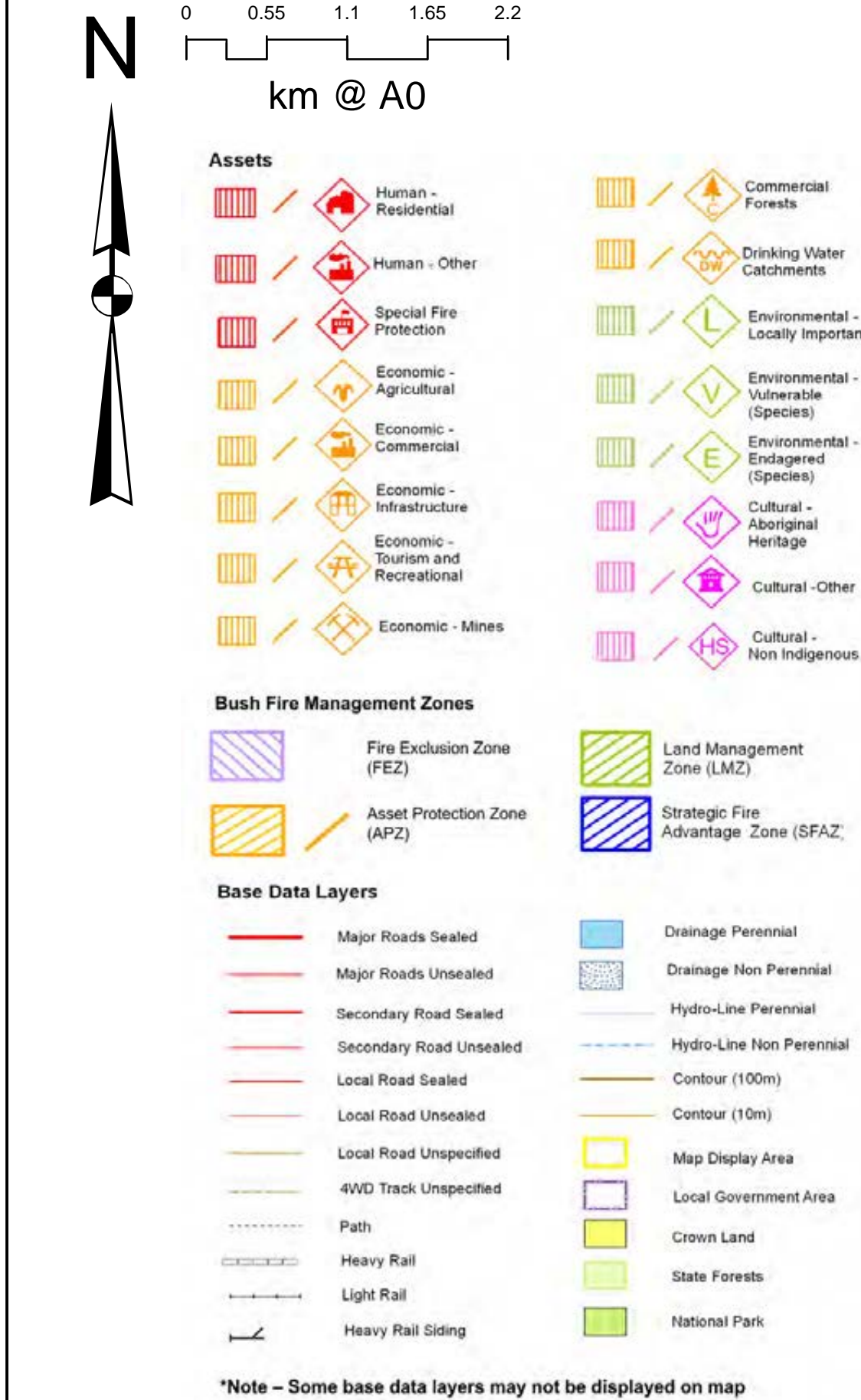
Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undened assets.	As per RFS documented Asset Protection Standards Zones.
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity for spot fire development, and to aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone. and/or Indirect Attack (back burning) in high very high fire weather conditions within the zone. To reduce the likelihood of: Crown fire development within the zone. and/or Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependent upon: - Topography - Aspect - Spotting propensity - Location of adjacent breaks - Mosaic pattern of treatment Associated Overall Fuel Hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFZA has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in areas where APZs or SFZAs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management e.g. heritage and/or fire protection e.g. broad scale fuel reduction objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependent on size of the sensitive area requiring protection.

Disclaimer
The Kampsey Nambucca BFMC makes every effort to ensure the quality of the information available on this map. Before relying on the information on this map, users should carefully evaluate its accuracy, completeness and relevance for their purposes and should obtain any appropriate professional advice relevant to their particular circumstances.

The Kempsey_Nambucca BFMC can not guarantee and assumes no legal liability or responsibility for the accuracy, currency or completeness of the information. Copyright Kempsey_Nambucca BFMC 2018.

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Date created: Tuesday, 8 May 2018

BFRR version 2.1.26.0



ID	Treatment strategy	Action	Agencies (Support)
T59	Property Planning	Develop and implement Community Protection	RFS
T64	Preparedness	Maintain fire trails in Hat Head National Park	OEH
T67	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T71	Property Planning	Create a bushfire evacuation plan	LGA (RFS)
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T89	Community Education	Prepare a bush fire survival plan	RFS
T90	Hazard Reduction	Maintain mapped APZ	OEH
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management)
T104	Hazard Reduction	HR Burning in Connors SFAZ when OFH	OEH (RFS)
T105	Hazard Reduction	HR Burning in Private land south of Connors	RFS (OEH)
T106	Community Education	Community Education Hutchison & Bay Streets	RFS
T107	Preparedness	Maintain fire access trail	LGA
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T114	Hazard Reduction	Maintain mapped APZs	Ti CL (OEH, Private, DPI)
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T133	Other	Restrict hazard reduction burning in areas of	Ti CL, LGA, OEH, Private, RFS
T134	Other	Restrict construction of new fire trails in PASS	Ti CL, LGA, OEH, Private, DPI
T141	Property Planning	Prepare a Bushfire Evacuation Plan	OEH

Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
50	Hat Head Caravan Park	Human	Special Fire	Extreme	1B	T71
69	Millards Asset	Human	Residential	Extreme	1B	T89,90
72	Hat Head Bowling and Recreational	Human	Other	Extreme	1B	T83
82	Hat Head South	Human	Residential	Extreme	1C	(1)
83	Hat Head Village North	Human	Residential	Extreme	1C	T106,107,59
100	Kinchels School	Human	Special Fire	Very High	2A	T67
119	Site 1	Cultural	Aboriginal	Very High	2A	T99
142	Cultural Heritage	Cultural	Non	Very High	2C	T110
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
185	Hungry Camp Ground	Economic	Tourist and	High	3D	T141,90
189	Vulnerable Species	Environment	Vulnerable	High	3D	T132
233	Fisheries Industry	Economic	Commercial	Low	NA	T133,134

(1):T104,105,114,59,64



Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Gladstone - Map Display Area

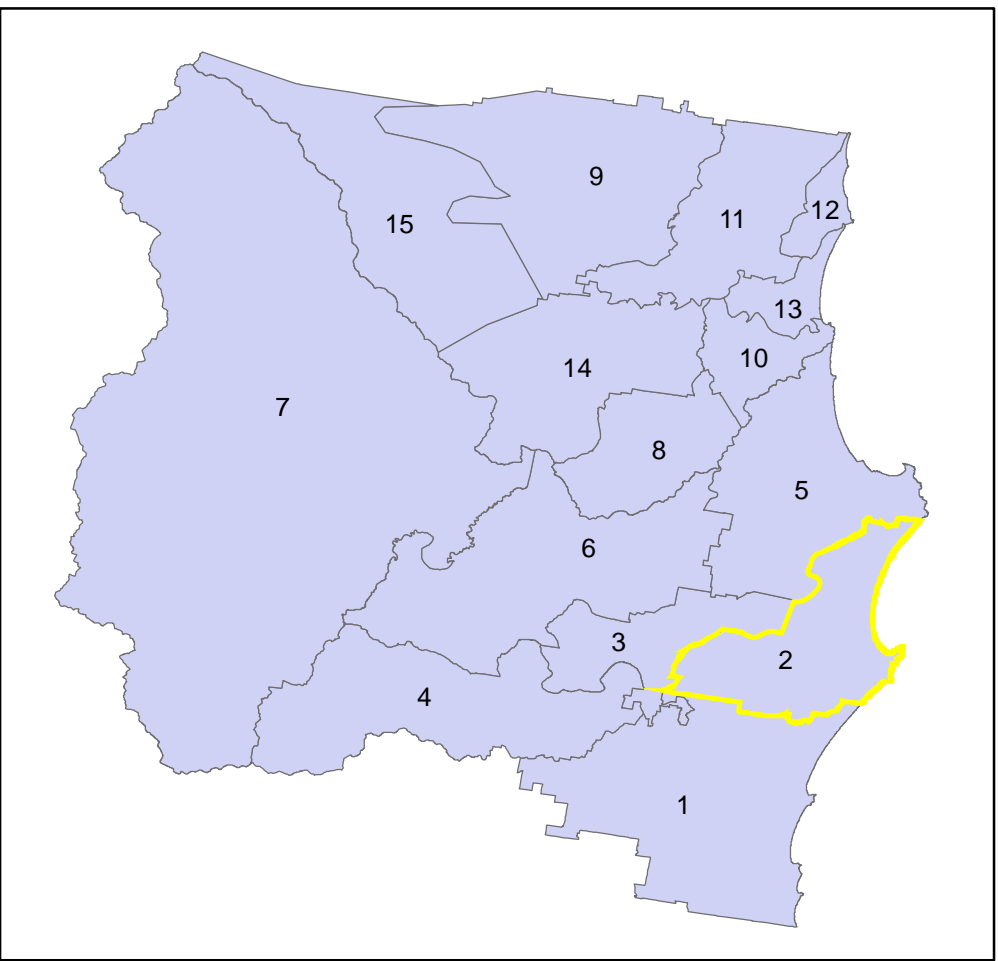
Map 2 of 15

This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Kempsey Nambucca Bush Fire Management Committee (BFMC) pursuant to section 52 of the Rural Fires Act 1997.

The aim of this BFRMP is to reduce the adverse impact of bush fires on life, property and the environment.

- The objectives of this BFRMP are to:
- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
 - manage fuel to reduce the spread and intensity of bush fires while minimising environmental/ecological impacts;
 - reduce the community's vulnerability to bush fires by improving its preparedness; and
 - effectively contain fires with a potential to cause damage to life, property and the environment.

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Review
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- reviewing the bush fire prone land map;
- ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
- using the Local Environment Plan's (LEPs) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S&S Operations Coordination Plan;

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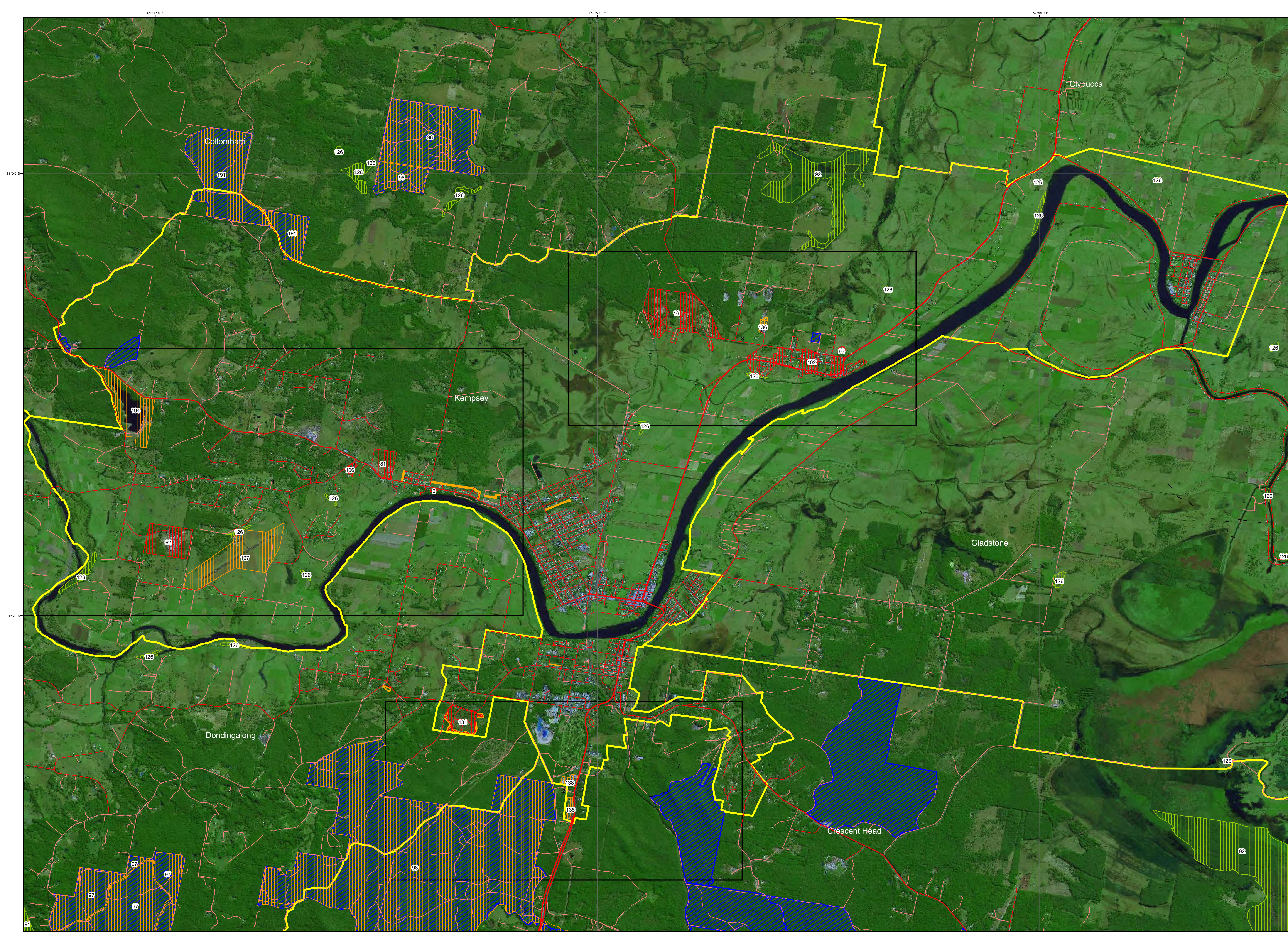
Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document Standards for Asset Protection Zones.
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires by existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone. Indirect Attack (back burning) in high to very high fire weather conditions within the zone. To reduce the likelihood of: Crown fire development within the zone, and/or Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependant upon: <ul style="list-style-type: none">- Topography- Aspect- Spotting propensity for adjacent fire breaks- Location of treatment- Mosaic pattern of vegetation- Assess Overall Fuel Hazard (OFH) once communities reach minimum fire thresholds within this plan.- Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in area where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

Disclaimer
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Date created: Tuesday, 6 May 2018

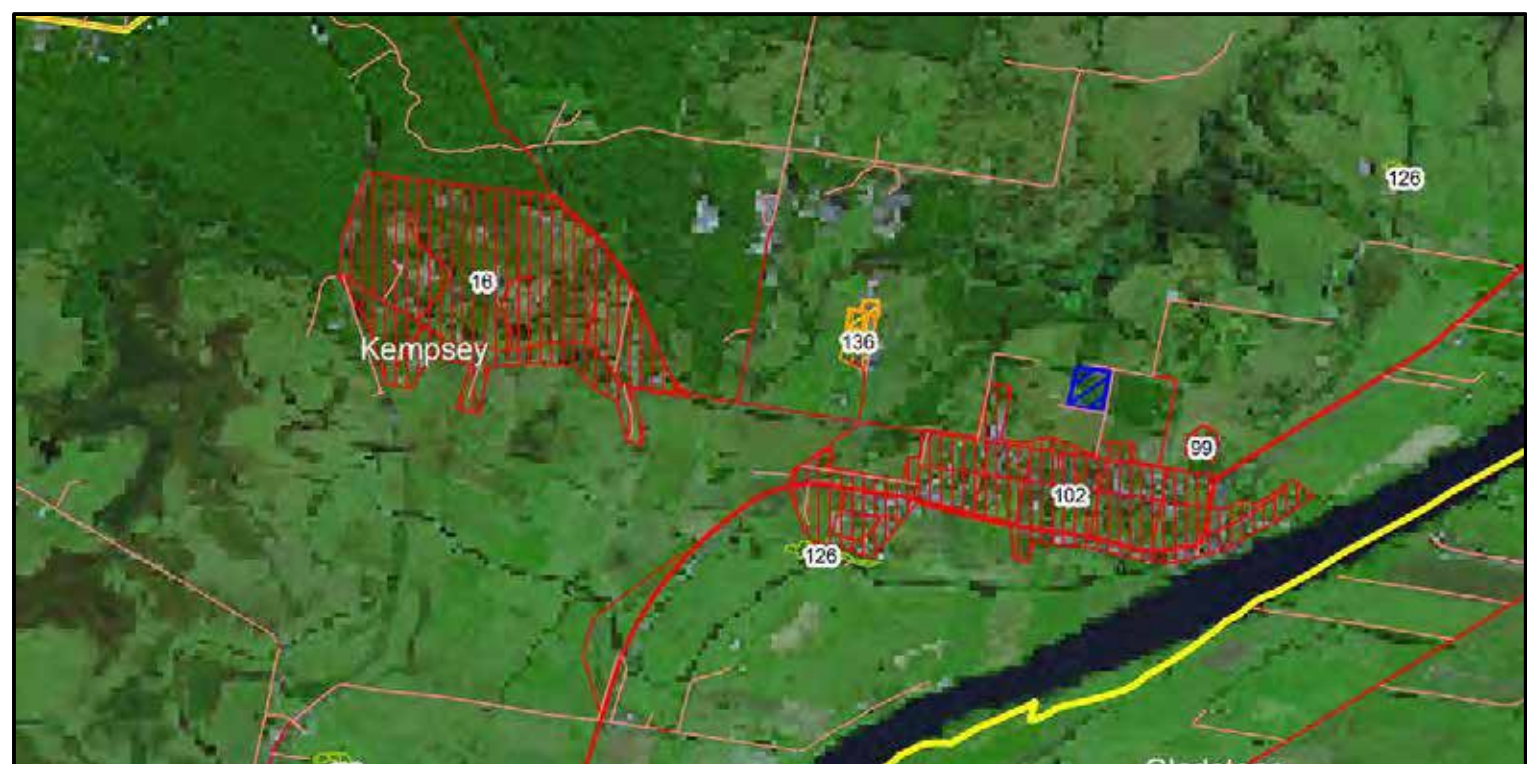
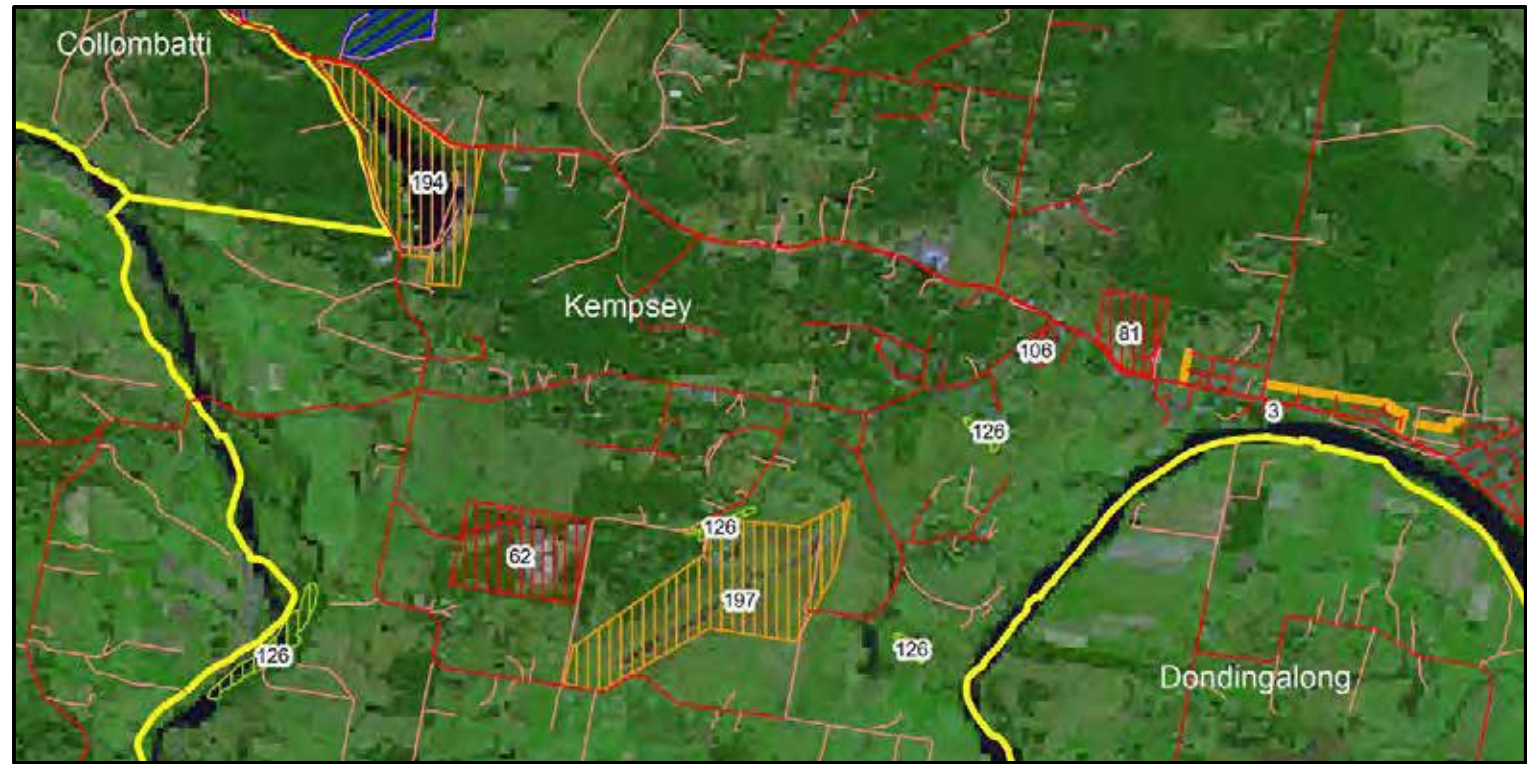
BFRMP version 2.1.26.0



Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T26	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T27	Property Planning	Bushfire Evacuation Plan to be prepared	Private
T28	Community Education	Introduce new programs prepare, act, survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T36	Community Education	Media campaign on prepare, act, survive	RFS
T42	Property Planning	Develop a Bush Fire Evacuation plan	Private
T43	Preparedness	Maintain Strategic Fire Trail network	Ti CL, LGA, OEH, Private, DPI
T67	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T69	Hazard Reduction	HR burning	Dept of Corrective Services (RFS)
T78	Hazard Reduction	Conduct HR burning in SFAZ when OFH	Dept of Education (RFS)
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T113	Community Education	Undertake community engagement program	FRNSW
T117	Hazard Reduction	Inspect SFAZ and maintain as required	FCNSW
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T126	Hazard Reduction	Maintain APZ	Private (RFS)
T127	Hazard Reduction	Maintain mapped APZ	LGA
T130	Hazard Reduction	Maintain APZ in line with BFEAC	Private
T133	Other	Restrict hazard reduction burning in areas of	Ti CL, LGA, OEH, Private, RFS
T134	Other	Restrict construction of new fire trails in PASS	Ti CL, LGA, OEH, Private, DPI
T140	Ignition Management	Restrict Bush Fire	Private, RFS
T143	Property Planning	Actions described in the Management Plan	LGA

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
3	Greenhills School	Human	Special Fire	Extreme	1A	T26
16	Everingham Lane	Human	Residential	Extreme	1A	T28
28	Isolated Rural Development Kempsey	Human	Residential	Extreme	1A	T29;36;43
42	Macleay Vocational College	Human	Special Fire	Extreme	1A	T42
62	Aldavilla Jail	Human	Special Fire	Extreme	1B	T69
81	Boooroogen Home	Human	Special Fire	Extreme	1C	T27
99	Frederickton Public School	Human	Special Fire	Very High	2A	T67
102	Frederickton	Human	Residential	Very High	2A	T78
106	Aldavilla School	Human	Special Fire	Very High	2A	T67
115	Gladstone Oval NSP	Human	Other	Very High	2A	T83
131	Burnt Bridge KLALC	Human	Residential	Very High	2B	T126
133	Cedar Place Aged Care Facility	Human	Special Fire	Very High	2B	T127;42
134	Melville High School	Human	Special Fire	Very High	2B	T42
135	South Kempsey Pre-School	Human	Special Fire	Very High	2B	T42
136	Frederickton Abbatior	Economic	Commercial	Very High	2C	T130
138	South Kempsey Industrial	Economic	Commercial	Very High	2C	T113
178	Endangered Species	Environment	Endangered	High	3A	T140
181	Dalaigur Pre School	Human	Special Fire	High	3B	T126
191	Old Station State Forest	Economic	Commercial	High	3D	(1)
192	Skillon Flat State Forest	Economic	Commercial	High	3D	T118;119
194	Stuart Macintyre Dam	Economic	Drinking	Medium	4	T143
197	Kempsey Aerodrome	Economic	Infrastructure	Medium	4	T67
220	Kempsey Showground NSP	Human	Other	Medium	4	T83
232	Fisheries Industry	Economic	Commercial	Low	NA	T133;134

(1):T119;118;117



Inset map 3. Frederickton

Kempsey Nambucca BFMC Bush Fire Risk Management Plan 2018

Kempsey - Map Display Area

Map 3 of 15

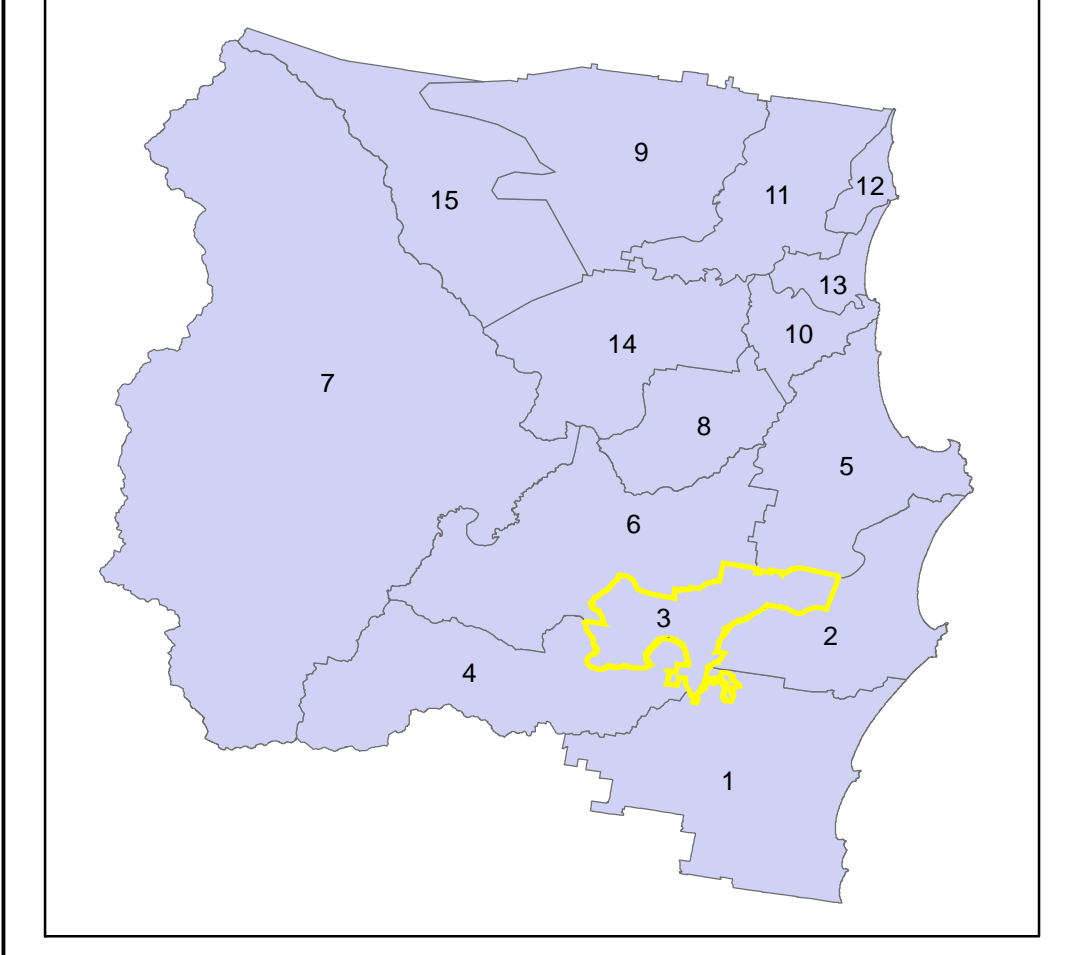
This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Kempsey Nambucca Bush Fire Management Committee (BFMC) pursuant to section 55 of the Rural Fires Act 1997.

The aim of this BFRMP is to reduce the adverse impact of bush fires on life, property and the environment.

The objectives of this BFRMP are to:

- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
- manage fuel to reduce the spread and intensity of bush fires while minimising environmental/ecological impacts;
- reduce the community's vulnerability to bush fires by improving its preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

This map forms part of the BFRMP for the Kempsey Nambucca BFM, covering the local government area(s) of Kempsey and Nambucca. It should be viewed in conjunction with the accompanying BFRMP document which provides further details on the BFM area, the assets assessed and the risk assessment process used.



Review
Under the Rural Fires Act 1997 this plan must be reviewed and updated within each successive five year period following the constitution of the BFM. The Kempsey Nambucca BFM will also review this plan as necessary. This may be triggered by a range of circumstances, including but not limited to:

- changes to the BFM area, organisational responsibilities or legislation;
- changes to the bush fire risk in the area; or
- following a major fire event.

Assets
This BFRMP identifies the assets that are considered by the Kempsey Nambucca BFM and community to be at risk from bush fires, assesses the bush fire risk to each asset and assigns treatments designed to mitigate the risk. Assets in the BFM area identified as requiring treatments are listed in the assets table. Other assets within the BFM area that were assessed as not requiring treatments within the life of this plan are listed in the appendix to the BFRMP document. The Map Ref number "NA" denotes non-spatial assets.

Treatments
Specific treatments assigned to assets in the Kempsey Nambucca area are listed in the treatments table and linked to the assets which they are designed to protect. Standard BFM wide treatments (i.e. not linked to a specific asset) which occur on an ongoing basis within the BFM area are:

- reviewing the bush fire prone land map;
- ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
- using the Local Environment Plan's (LEPs) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S&S Operations Coordination Plan;

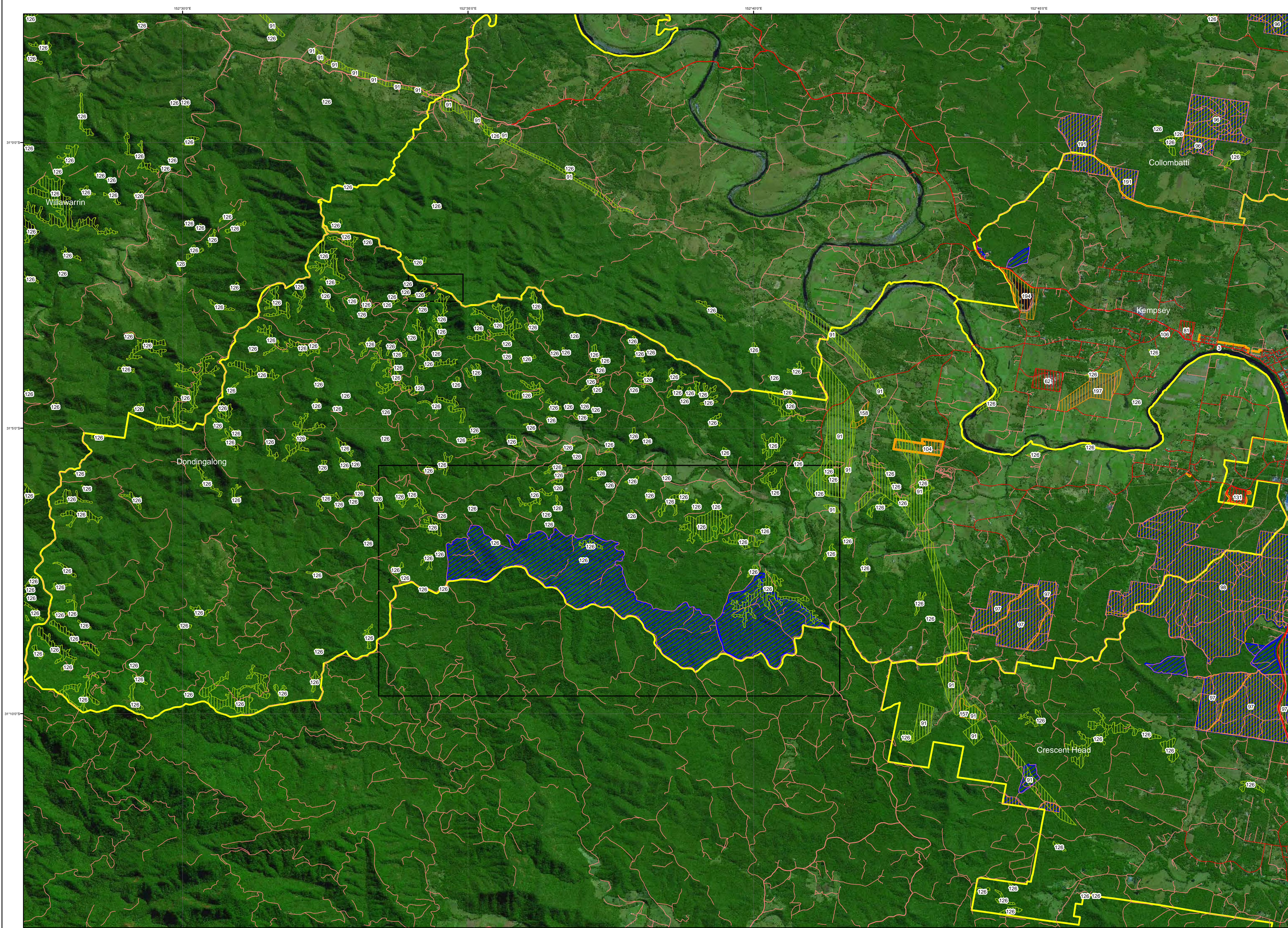
Note on LMZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LMZ for this risk management plan. For areas identified by an LMZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document Standards for Asset Protection Zones.
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Land Management Zone	To meet relevant land management objectives in area where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

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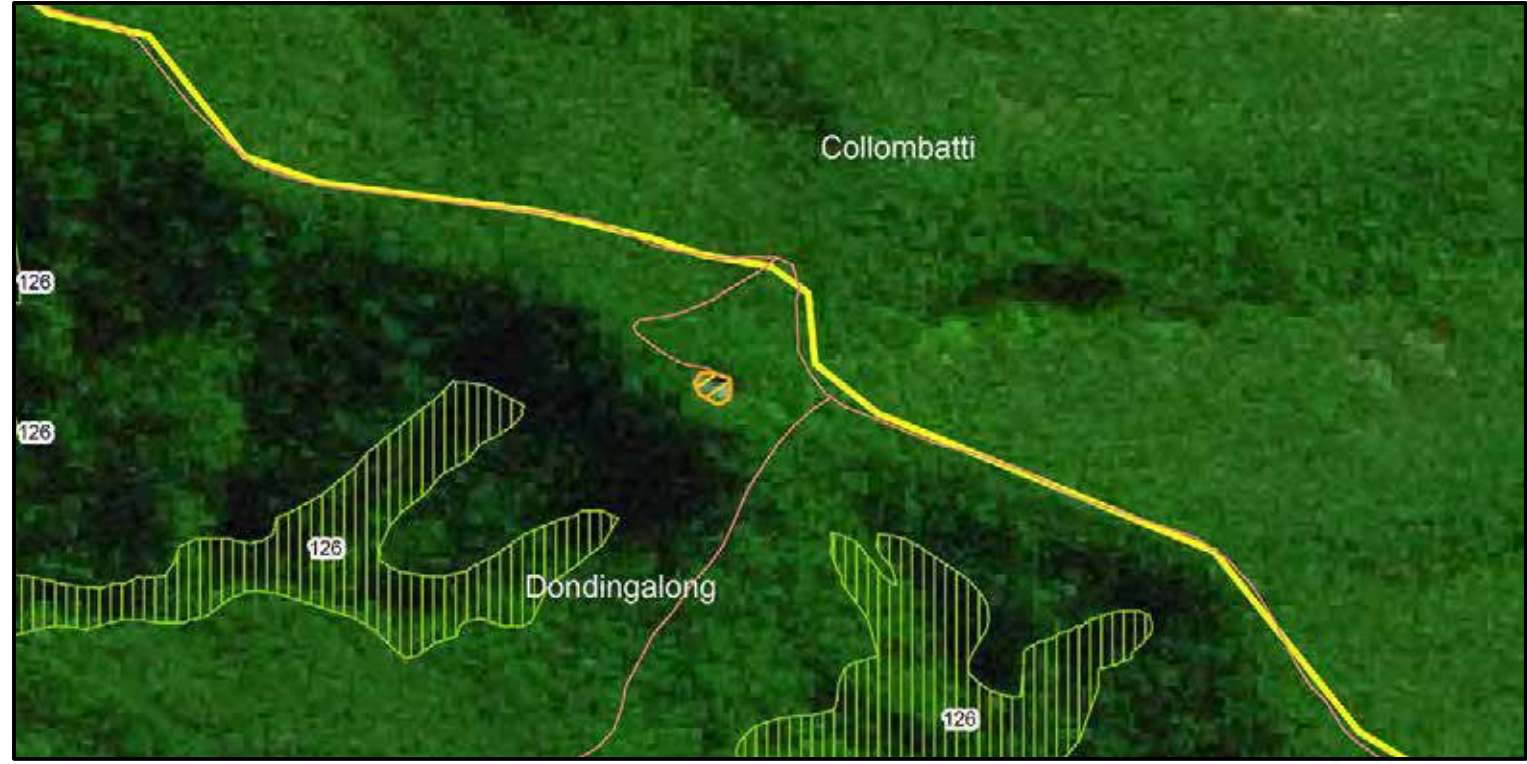
Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T35	Community Education	Take part in open day	RFS
T36	Community Education	Media campaign on prepare, act, survive	RFS
T43	Preparedness	Maintain Strategic Fire Trail network	Ti CL, LGA, OEH, Private, DPI
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management)
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T122	Hazard Reduction	Maintain APZ	Private
T128	Hazard Reduction	Maintain mineral earth break 40m from asset.	OEH
T129	Ignition Management	FireTower Surveillance/Ground Patrol	DPI
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T145	Hazard Reduction	Maintain APZ	LGA (RFS)

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
26	Isolated Rural Development	Human	Residential	Extreme	1A	(1)
104	Sherwood Estate Wines Pty	Economic	Agricultural	Very High	2A	T122
139	Boonanghi Trig/Radio Site	Economic	Infrastructure	Very High	2C	T128
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
146	Yessabah State Forest	Economic	Commercial	Very High	2C	T118;119
147	Boonanghi State Forest	Economic	Commercial	Very High	2C	T118;119
158	Joint Venture Dungey Creek	Economic	Commercial	High	3A	T129
172	Site 4	Cultural	Aboriginal	High	3A	T99
188	Vulnerable Species	Environment	Vulnerable	High	3D	T132
199	Dondingalong Rural Fire Station	Economic	Infrastructure	Medium	4	T145
201	Dondingalong/Witiriri Rural Fire Station	Economic	Infrastructure	Medium	4	T145

(1):T29;35;36;43



Inset map 3. SFAZ burning



Inset map 2. Boonanghi Trig Communication Tower

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Dondingalong - Map Display Area

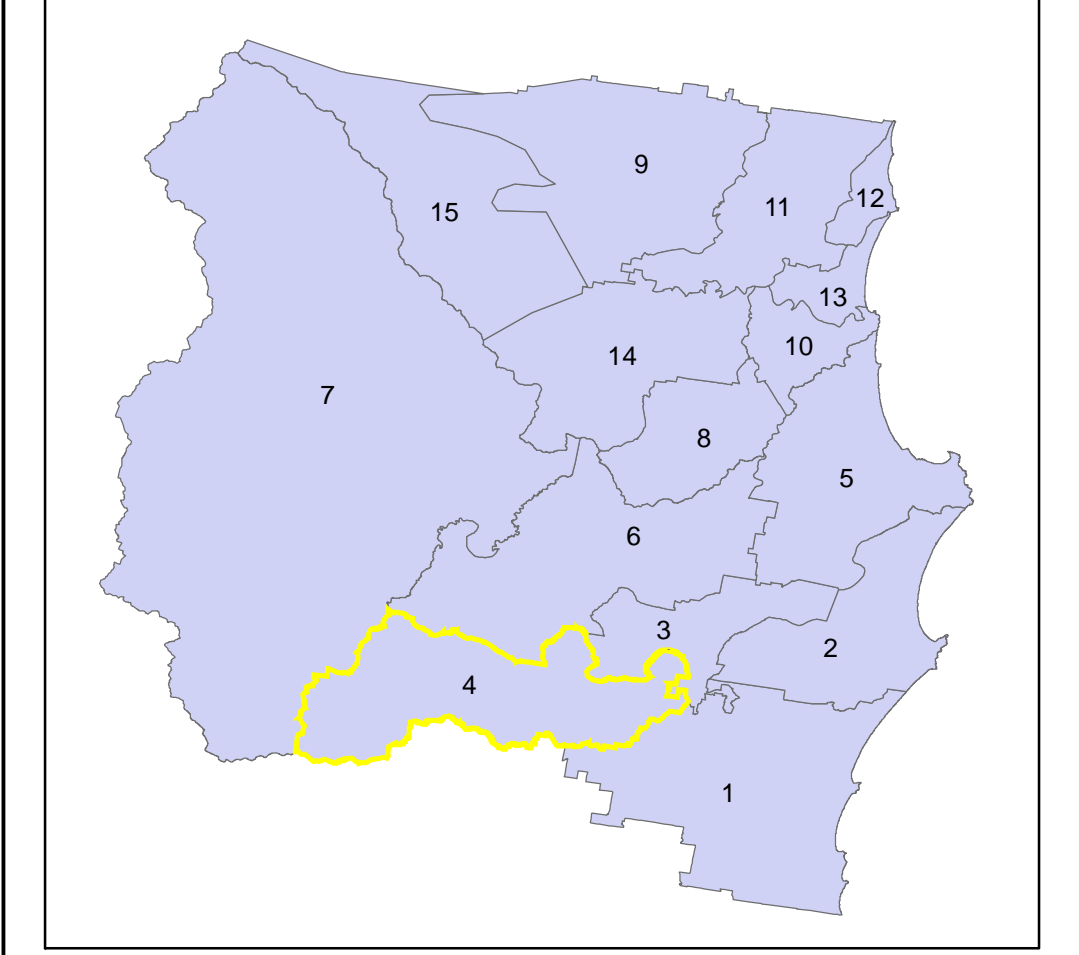
Map 4 of 15

This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Kempsey Nambucca Bush Fire Management Committee (BFMC) pursuant to section 52 of the Rural Fires Act 1997.

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- The objectives of this BFRMP are to:
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 - effectively contain fires with a potential to cause damage to life, property and the environment.

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Review
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- changes to the bush fire risk in the area; or
- following a major fire event.

Assets
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Treatments
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- ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
- using the Local Environment Plan's (LEPs) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S22 Operations Coordination Plan;

Note on LMZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LMZ for this risk management plan. For areas identified by an LMZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document Standards for Asset Protection Zones .
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone. Indirect Attack (back burning) in high to very high fire weather conditions within this zone. To reduce the likelihood of: Crown fire development within the zone, and/or Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependant upon: - Topography - Aspect - Spotting propensity for spot fire development. - Location of adjacent fire breaks - Mosaic pattern of treatment Assess Overall Fuel Hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan. Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in area where APZs or fire SFAZs are not appropriate. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

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Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T4	Community Education	Signage erected for fire restrictions & safety	OEH
T5	Property Planning	Develop a Bush Fire Evacuation Plan	OEH
T6	Community Education	Street walk to promote bushfire survival plans	RFS (OEH)
T7	Hazard Reduction	Conduct HR slashing in mapped APZ	Ti CL, LGA, OEH
T12	Hazard Reduction	Hand clearing around asset 3m	OEH
T14	Community Education	Conduct annual meeting to discuss evacuation	FRNSW
T25	Hazard Reduction	Ensure APZ is maintained	Private (RFS)
T28	Community Education	Introduce new programs prepare,act,survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T36	Community Education	Media campaign on prepare, act, survive	RFS
T40	Hazard Reduction	HR burning in SFAZ	RFS (Ti CL)
T43	Preparedness	Maintain Strategic Fire Trail network	Ti CL, LGA, OEH, Private, DPI
T44	Hazard Reduction	Maintain APZ's	Ti CL, LGA, Private
T45	Community Education	Static Display at local markets	RFS
T46	Community Education	Conduct Street Walk in Urban Interface	RFS
T47	Community Education	Discuss alerts and planning with Park Managers	RFS (LGA)
T48	Property Planning	Maintain Bushfire Evacuation Plan	Private
T49	Hazard Reduction	Maintain APZ	Private
T50	Preparedness	Maintain signage on walking trail network	Private
T51	Hazard Reduction	Maintain mapped APZ	LGA
T52	Property Planning	Develop a Bush Fire Evacuation Plan	LGA
T53	Community Education	Inform Park Managers on Prepare, Act, Survive	RFS
T54	Hazard Reduction	HR burning in mapped SFAZ	LGA (RFS)
T55	Hazard Reduction	Maintain mapped APZ's	OEH
T56	Hazard Reduction	HR burning in SFAZ	OEH (RFS)
T57	Hazard Reduction	Hazard Reduction Burning in mapped SFAZ	Private (FRNSW, RFS)

Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T58	Hazard Reduction	Slashing in mapped APZs	Ti CL, LGA
T59	Property Planning	Develop and implement Community Protection	RFS
T60	Community Education	Conduct Childrens Education Program	FRNSW
T64	Preparedness	Maintain fire trails in Hat Head National Park	OEH
T67	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T70	Community Education	Conduct Street Walk in urban interface areas	FRNSW, RFS
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T85	Hazard Reduction	Maintain APZ east of Millington Avenue	LGA
T86	Hazard Reduction	Maintain APZ	Ti CL
T87	Hazard Reduction	HR burning in SFAZ	Ti CL (LGA)
T88	Community Education	Street Walk on Bush Fire Survival Planning	RFS
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management)
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T112	Hazard Reduction	Maintain mapped APZ's and SFAZ's	OEH, Private (Ti CL, RFS)
T117	Hazard Reduction	Inspect SFAZ and maintain as required	FCNSW
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T120	Community Education	Conduct Community Engagement Activity	FCNSW (RFS)
T122	Hazard Reduction	Maintain APZ	Private
T125	Property Planning	Develop a bush fire evacuation plan	Private (FRNSW)
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T133	Other	Restrict hazard reduction burning in areas of	Ti CL, LGA, OEH, Private, RFS
T134	Other	Restrict construction of new fire trails in PASS	Ti CL, LGA, OEH, Private, DPI
T135	Preparedness	Maintain existing 20m break	LGA, OEH
T136	Hazard Reduction	Maintain mapped APZ in line with BFEAC	Ti CL
T139	Community Education	Maintain signage	OEH

Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T141	Property Planning	Prepare a Bushfire Evacuation Plan	OEH
T142	Hazard Reduction	Reduce fuel by burning	RFS
T148	Hazard Reduction	Maintain existing 20m APZ	Private (RFS)
T150	Property Planning	Develop a Bush Fire Evacuation Plan	Private

Assets							
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment	
12	Arakoon Camp Ground and Trial Bay	Human	Special Fire	Extreme	1A	T4,5,12	
14	Smoky Ridge	Human	Residential	Extreme	1A	T6,58,59,64	
17	South West Rocks	Human	Residential	Extreme	1A	T7,57,59	
18	Dwelling at Clybucca	Human	Residential	Extreme	1A	T25	
29	Isolated Rural Development Clybucca	Human	Residential	Extreme	1A	(1)	
33	Grassy Head Caravan Park	Human	Special Fire	Extreme	1A	(2)	
34	Yarrahapinni Ecology Centre	Human	Special Fire	Extreme	1A	(3)	
35	Seven Day Adventist Convention Centre	Human	Special Fire	Extreme	1A	T48,53	
36	Stuarts Point Village	Human	Residential	Extreme	1A	(4)	
37	Stuarts Point Caravan Park	Human	Special Fire	Extreme	1A	T47	
38	Isolated development Fishermans	Human	Residential	Extreme	1A	T7,56	
52	South West Rocks School	Human	Special Fire	Extreme	1B	T67	
55	The Entrance and Arakoon	Human	Residential	Extreme	1B	T70	
66	Millington Avenue	Human	Residential	Extreme	1B	(5)	
67	Eungai Rail	Human	Residential	Extreme	1B	T28	
68	Grassy Head Road	Human	Residential	Extreme	1B	T44,40	
74	Site 3	Cultural	Aboriginal	Extreme	1B	T99	
78	South West Rocks Early Learning	Human	Special Fire	Extreme	1B	T14,60	
87	Cultural Heritage	Cultural	Non	Extreme	1C	T110	
89	Agricultural land Fishermans Reach	Economic	Agricultural	Extreme	1C	T112	
96	Tamban State Forest	Economic	Commercial	Extreme	1C	(6)	
120	Site 1	Cultural	Aboriginal	Very High	2A	T99	
128	Way Way State Forest	Economic	Commercial	Very High	2A	(7)	
130	The Entrance permanent caravan park	Human	Special Fire	Very High	2B	T125	
143	Joe Donovan Sporting Complex NSP	Human	Other	Very High	2C	T83	
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132	
160	Grassy Head Nursery	Economic	Infrastructure	High	3A	T136	
161	Water Pumping Station/Bore	Economic	Drinking	High	3A	T135	
167	Site 2	Cultural	Aboriginal	High	3A	T99	
182	Smokey Rest Camp Ground	Economic	Tourist and	High	3D	T141,139	
183	Clybucca Rural Fire Station	Economic	Infrastructure	High	3D	T122	
186	Charters Refrigerated Storage	Economic	Commercial	High	3D	T142	
188	Vulnerable Species	Environment	Vulnerable	High	3D	T132	
210	Telstra substation	Economic	Infrastructure	Medium	4	T148	
212	South West Rocks Country Club NSP	Human	Other	Medium	4	T83	
213	Yarrahapinni Nursery	Economic	Commercial	Medium	4	T150	
230	Fisheries Industry	Economic	Commercial	Low	NA	T133,134	

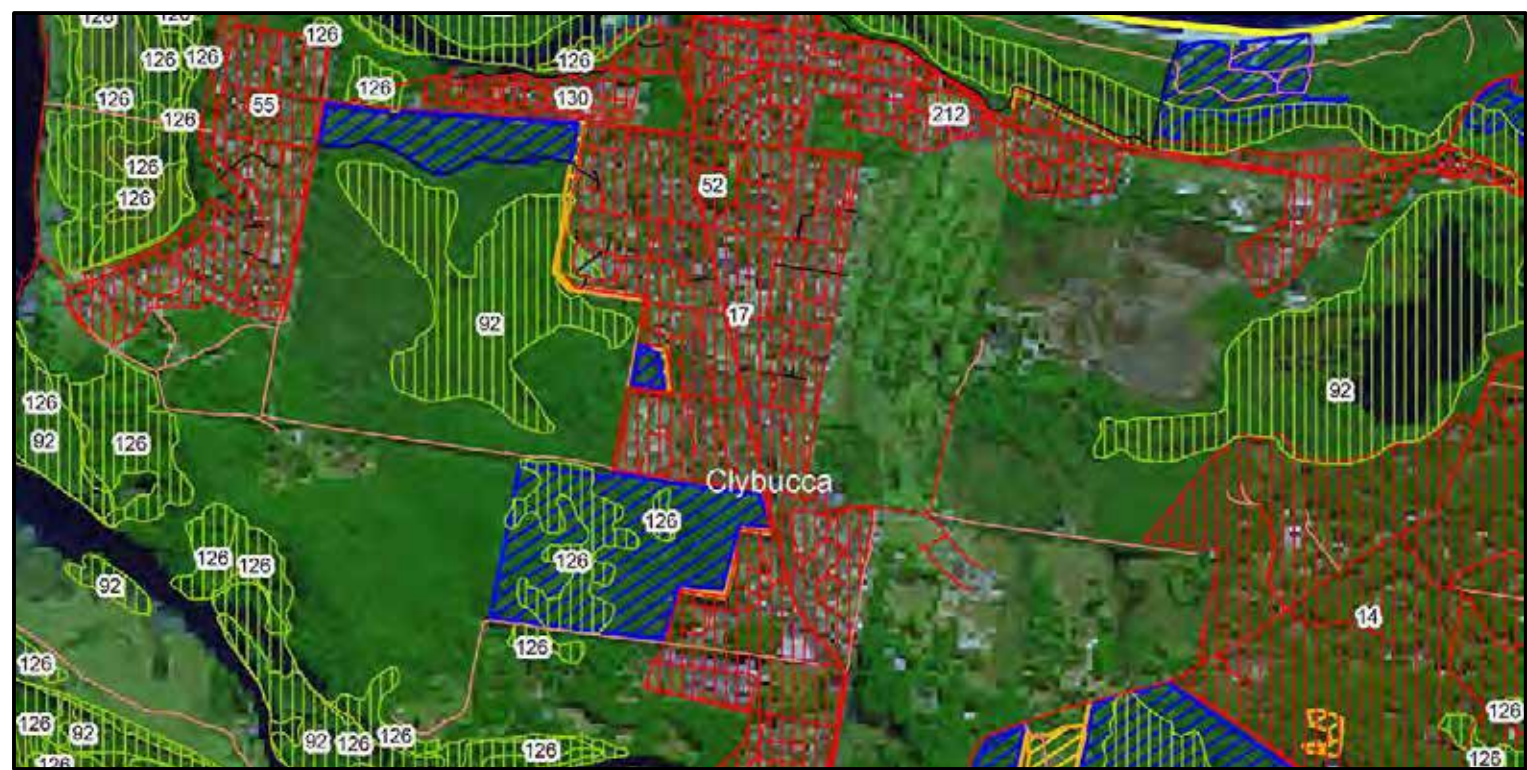
(1):T29,36,55,43
(2):T51,52,53,54
(3):T48,49,50,53
(4):T40,44,45,46,59
(5):T85,86,87,88
(6):T119,118,117,120
(7):T119,118,117



Inset map 2. Stuarts Point



Inset map 3. Grassy Heads



Inset map 4. South West Rocks

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Clybucca - Map Display Area

Map 5 of 15

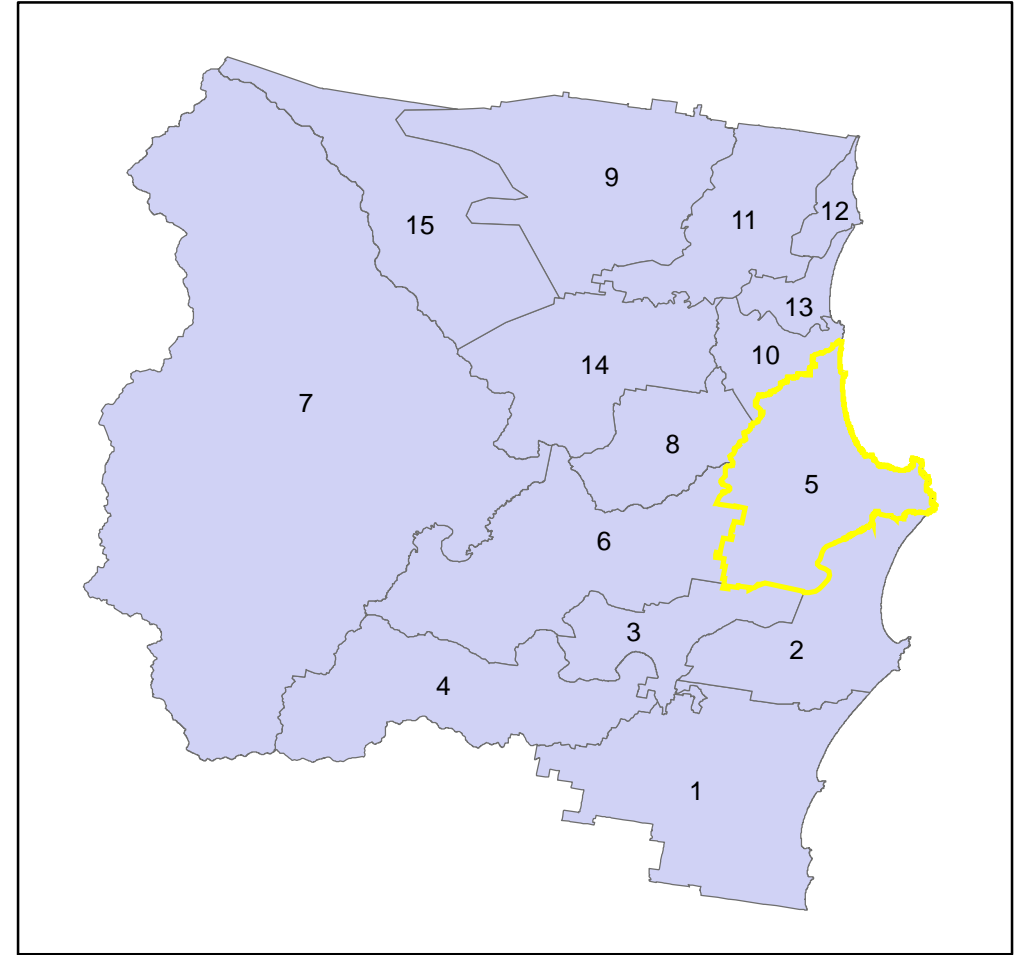
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- reduce the community's vulnerability to bush fires by improving its preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

This map forms part of the BFRMP for the Kempsey Nambucca BFMC, covering the local government area(s) of Kempsey and Nambucca. It should be viewed in conjunction with the accompanying BFRMP document which provides further details on the BFMC area, the assets assessed and the risk assessment process used.



Review
Under the Rural Fires Act 1997 this plan must be reviewed and updated within each successive five year period following the constitution of the BFMC. The Kempsey Nambucca BFMC will also review this plan as necessary. This may be triggered by a range of circumstances, including but not limited to:

- changes to the BFMC area, organisational responsibilities or legislation;
- changes to the bush fire risk in the area; or
- following a major fire event.

Assets
This BFRMP identifies the assets that are considered by the Kempsey Nambucca BFMC and community to be at risk from bush fires, assesses the bush fire risk to each asset and assigns treatments designed to mitigate the risk. Assets in the BFMC area identified as requiring treatments are listed in the assets table. Other assets within the BFMC area that were assessed as not requiring treatments within the life of this plan are listed in the appendix to the BFRMP document. The Map Ref number "NA" denotes non-spatial assets.

Treatments
Specific treatments assigned to assets in the Kempsey Nambucca area are listed in the treatments table and linked to the assets which they are designed to protect. Standard BFMC wide treatments (i.e. not linked to a specific asset) which occur on an ongoing basis within the BFMC area are:

- reviewing the bush fire prone land map;
- ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
- using the Local Environment Plan's (LEPs) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S2 Operations Coordination Plan;

Note on LNZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LNZ for this risk management plan. For areas identified by an LNZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

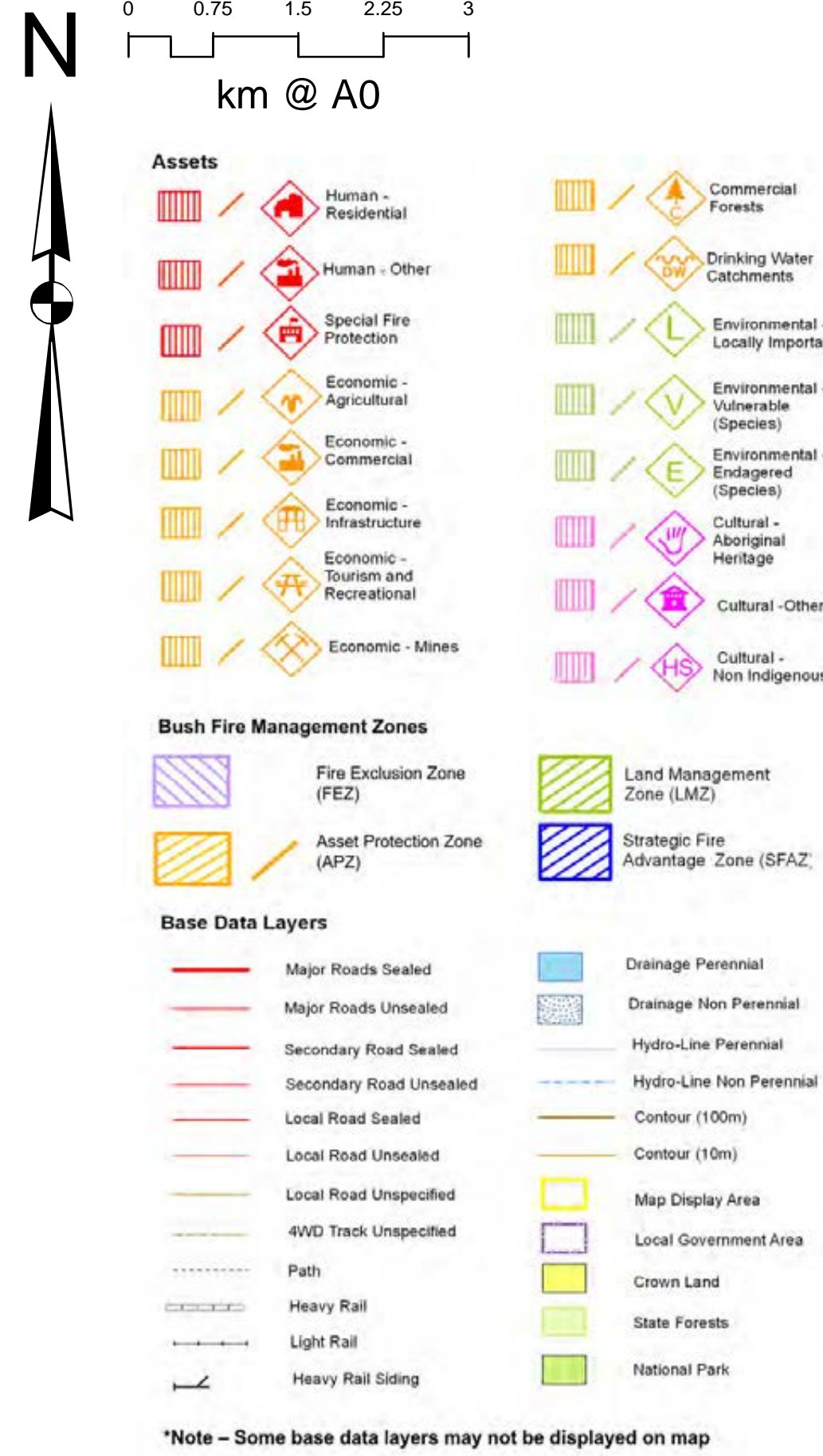
Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document Standards for Asset Protection Zones.
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone, and/or Indirect Attack (back burning) in high to very high fire weather conditions within the zone. To reduce the likelihood of: Crown fire development within the zone, and/or Spot fire ignition potential from the zone. Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFI of less than high.	Zone width related to suppression objectives and dependant upon: <ul style="list-style-type: none">- Topography- Aspect- Spotting propensity- Location of adjacent fire breaks- Mosaic pattern of treatment Assess Overall Fuel Hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan. Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFI of less than high.
Land Management Zone	To meet relevant land management objectives in area where APZ's or SFAZ's are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

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Date created: Tuesday, 6 May 2018

BFRMP version 2.1.26.0



Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
25	Isolated Rural Development Collobattini	Human	Residential	Extreme	1A	(1)
95	Ingabla State Forest	Economic	Commercial	Extreme	1C	(2)
112	Telstra Switch	Economic	Infrastructure	Very High	2A	T111
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
154	Collobattini State Forest	Economic	Commercial	Very High	2C	(3)
231	Fisheries Industry	Economic	Commercial	Low	NA	T133;134

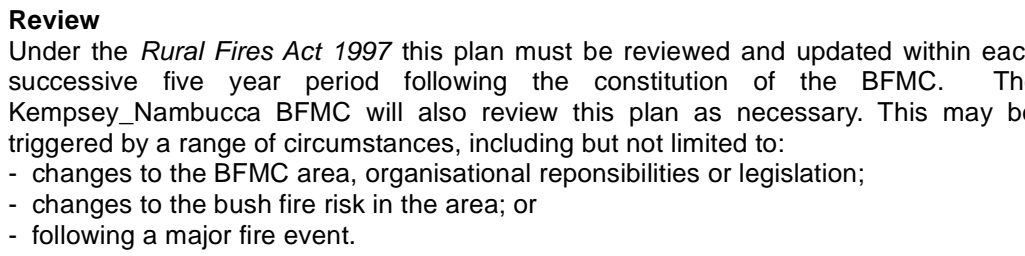
(3):T119;118;117

Map 6 of 15

The **objectives** of this BPRM are to:

- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
- manage fuel to reduce the spread and intensity of bush fires while minimising environmental/ecological impacts;
- reduce the community's vulnerability to bush fires by improving its preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

This map forms part of the BFRMP for the Kempsey_Nambucca BFMC, covering the local government area(s) of Kempsey and Nambucca. It should be viewed in conjunction with the accompanying BFRMP document which provides further details of the BFMC area, the assets assessed and the risk assessment process used.



This BFRMP identifies the assets that are considered by the Kempsey, Nambuccoo, BFMC and community to be at risk from bush fires, assesses the bush fire risk to each asset and assigns treatments designed to mitigate the risk. Assets in the BFMC are identified as requiring treatments are listed in the assets table. Other assets within the BFMC area that were assessed as not requiring treatments within the life of this plan are listed in the appendix to the BFRMP document. The Map Ref number 'NA' denotes non-spatial assets.

- Specific treatments assigned to assets in the Kempsey, Nambucca area are listed in the treatments table and linked to the assets which they are designed to protect
- Assets are not linked to the treatments (i.e. not linked to a specific asset) which occur on an ongoing basis within the BFMCA area are:
 - reviewing the bush fire prone land map;
 - ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
 - using the Local Environment Plan's (LEPs) to control development in areas with bush fire risk;
 - varying the standard bush fire danger period as required;
 - requiring permits during bush fire danger periods
 - prosecution of arsonists/offenders;
 - investigation of bush fire cause;
 - normal fire suppression activities;
 - assessing and managing compliance with strategic fire-fighting resource allocation management systems;
 - preparation of a SES Operations Coordination Plan;

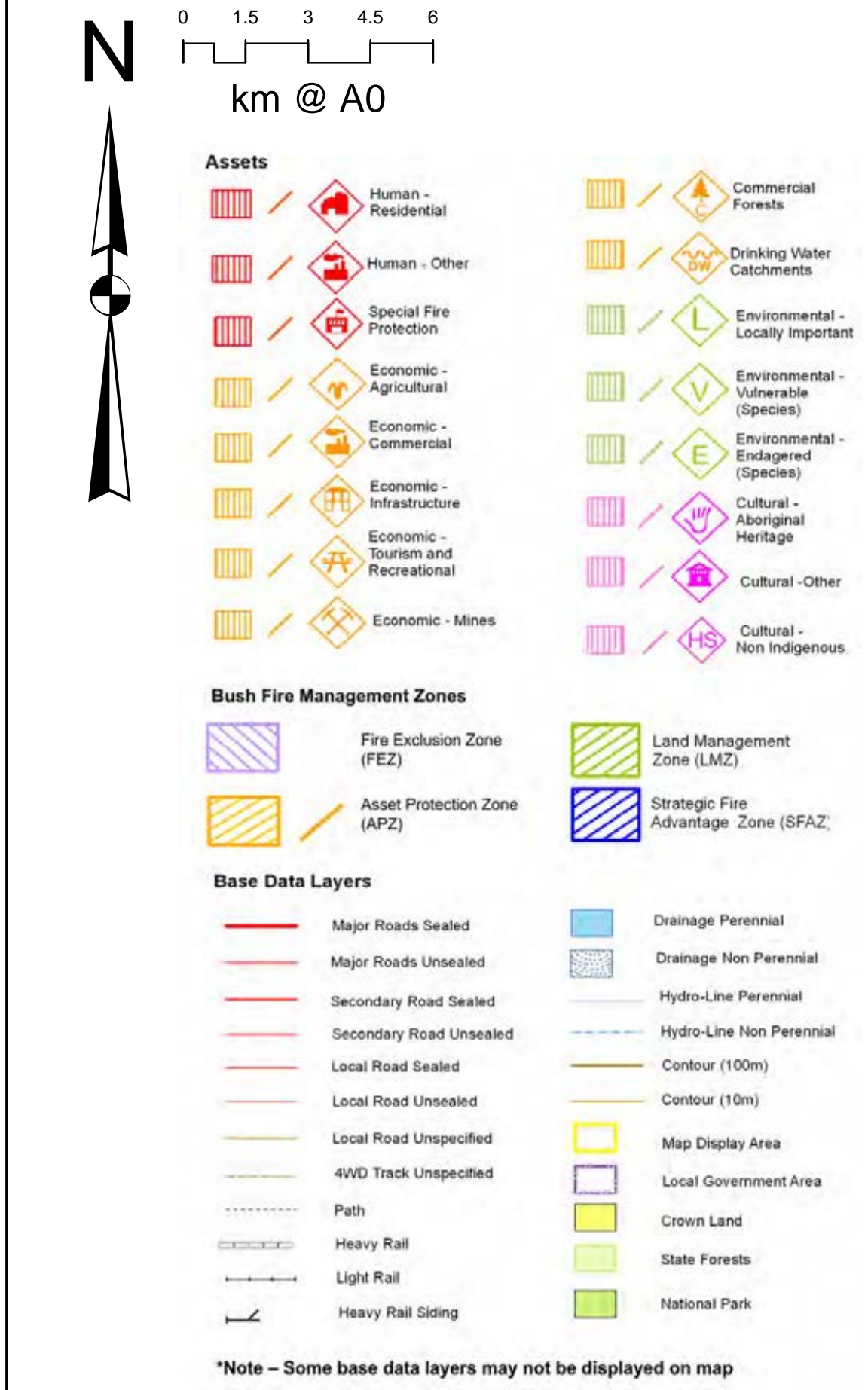
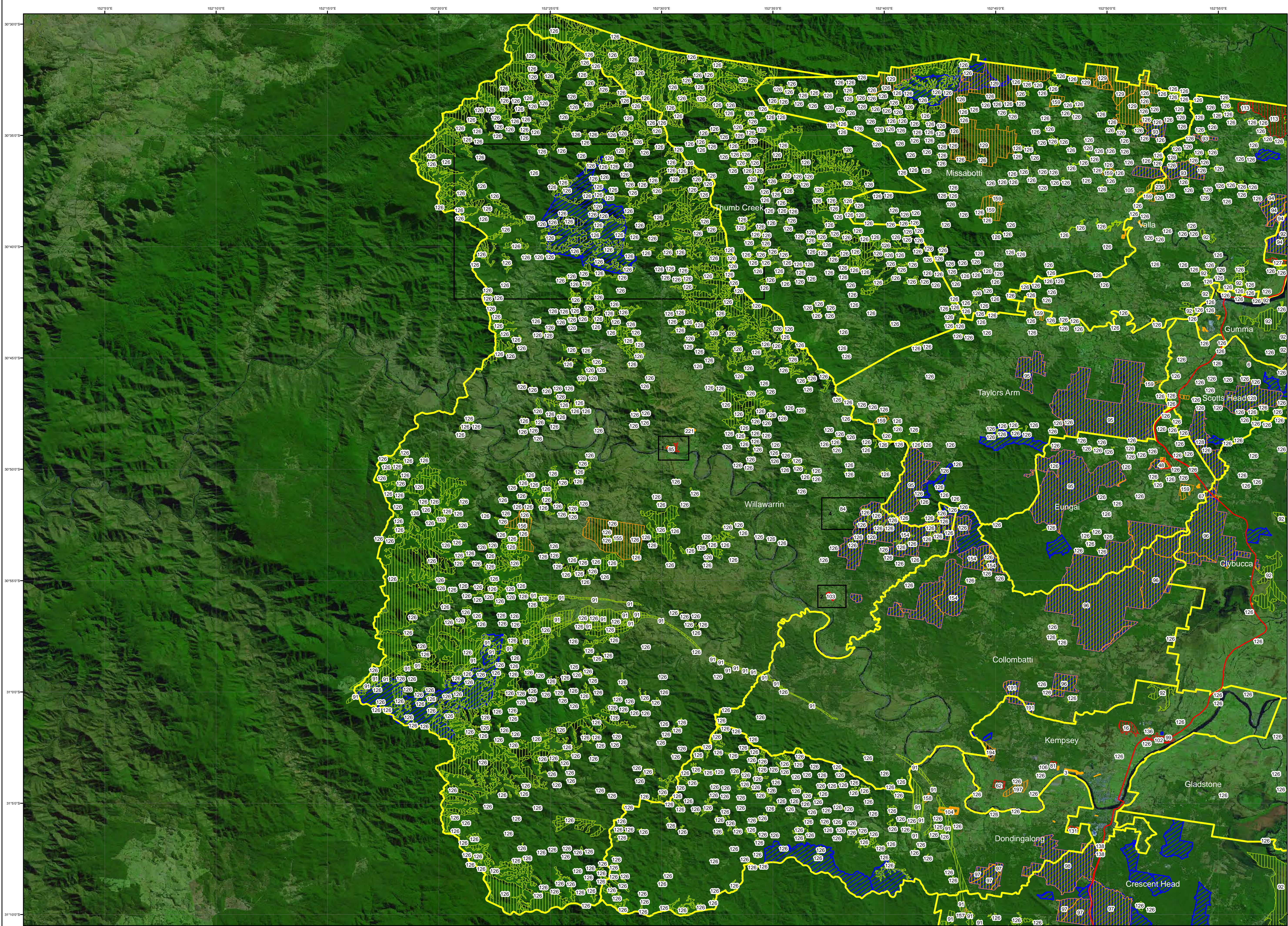
Note on LMZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LMZ for this risk management plan. For areas identified by an LMZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

Disclaimer
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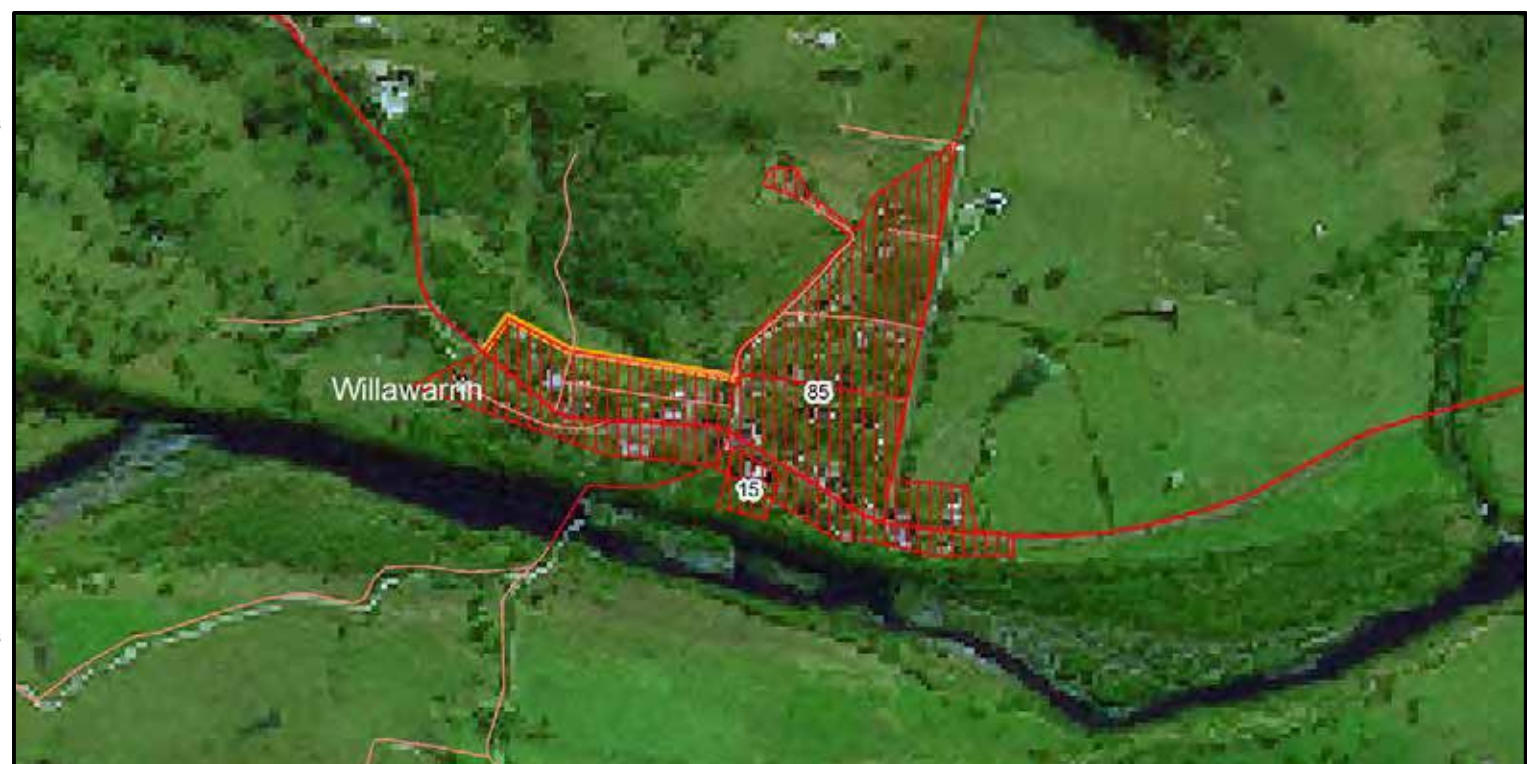


ID	Treatment strategy	Action	Agencies (Support)
T26	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T28	Community Education	Introduce new programs prepare,act,survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T32	Community Education	Promote Bushfire Survival Planning	RFS
T36	Community Education	Media campaign on prepare, act, survive	RFS
T43	Preparedness	Maintain Strategic Fire Trail network	TI CL, LGA, OEH, Private, DPI
T66	Ignition Management	Maintain and operate remote fire detection	OEH
T71	Property Planning	Create a bushfire evacuation plan	LGA (RFS)
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management
T108	Hazard Reduction	APZ maintained on KSC Reserve	LGA (TI CL)
T109	Hazard Reduction	Maintain APZ	LGA
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T111	Hazard Reduction	Maintain APZ	Telstra Corporation
T115	Other	Awareness of Incident Management Teams	OEH (TI CL, LGA, Private, FCNSW)
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T121	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T122	Hazard Reduction	Maintain APZ	Private
T123	Property Planning	Create a bushfire evacuation plan	OEH
T126	Hazard Reduction	Maintain APZ	Private (RFS)
T129	Ignition Management	FireTower Surveillance/Ground Patrol	DPI
T131	Ignition Management	Restrict Bush Fire	OEH, RFS
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T144	Community Education	Erect signage for general fire safety/relocation	LGA
T145	Hazard Reduction	Maintain APZ	LGA (RFS)

ID	Treatment strategy	Action	Agencies (Support)
T147	Property Planning	Create a Bushfire Evacuation Plan	LGA
T151	Hazard Reduction	Monitor SFAZ	Private (RFS)
T152	Other	Restrict all activities within 100m	OEH (CA, TI,CL, LGA, OEH,

Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
15	Bellbrook Public School	Human	Special Fire	Extreme	1A	T26
22	Isolated Rural Development Willawarrin	Human	Residential	Extreme	1A	(1)
84	Milbank Public School	Human	Special Fire	Extreme	1C	T26
85	Bellbrook	Human	Residential	Extreme	1C	T108,36
86	Milbank Hall	Human	Other	Extreme	1C	T109,71
88	Telstra Repeater	Economic	Infrastructure	Extreme	1C	T111
91	Karst Limestone	Environment	Vulnerable	Extreme	1C	T115
101	Willawarrin Public School	Human	Special Fire	Very High	2A	T121
103	Willawarrin	Human	Residential	Very High	2A	T28,36
107	Kookaburra Hut and School building	Human	Special Fire	Very High	2A	T123
111	Cultural Heritage	Cultural	Non	Very High	2A	T110
140	Uniting Church	Human	Other	Very High	2C	T122
141	Birthplace of Slim Dusty	Human	Other	Very High	2C	T122
144	Endangered Species	Environment	Endangered	Very High	2C	T131
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
148	Carral State Forest	Economic	Commercial	Very High	2C	T116,119
155	Joint Venture Plantation Balls Road	Economic	Commercial	High	3A	T129
156	Joint Venture Plantation Fife Fire Trail	Economic	Commercial	High	3A	T129
176	Site 5	Cultural	Aboriginal	High	3A	T99
177	Site 5	Cultural	Aboriginal	High	3A	T99
180	Willawarrin Sports Ground NSP	Human	Other	High	3B	T83
187	Endangered Species	Environment	Endangered	High	3D	T132
188	Vulnerable Species	Environment	Vulnerable	High	3D	T132
189	Vulnerable Species	Environment	Vulnerable	High	3D	T132
198	Blackbird Flat Public Recreation	Economic	Tourist and	Medium	4	(2)
221	Thungutti LALC	Human	Residential	Medium	4	T126,151
226	Site 5	Cultural	Aboriginal	Medium	4	T99,152

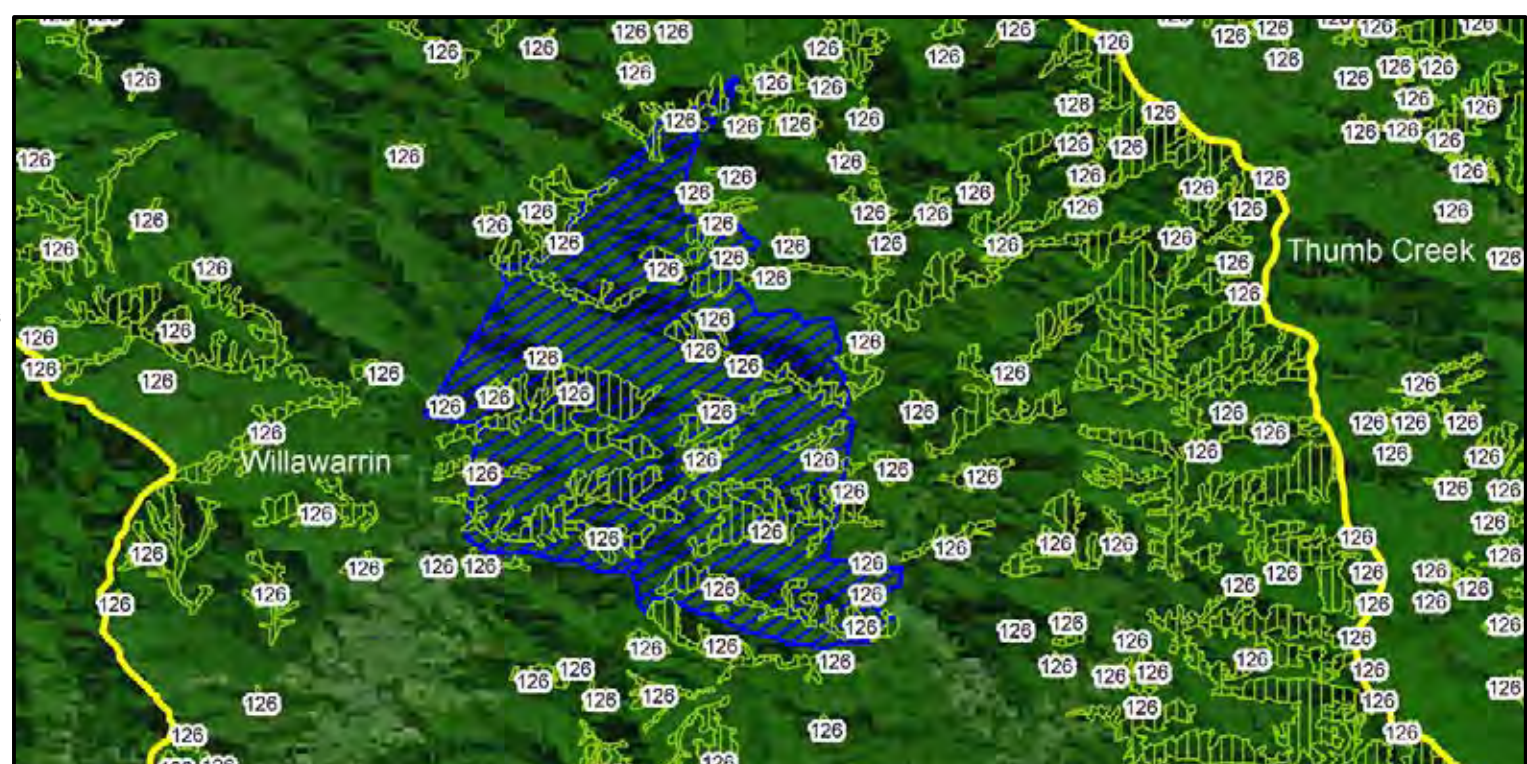
(1):T29,32,36,43,66
(2):T144,145,147



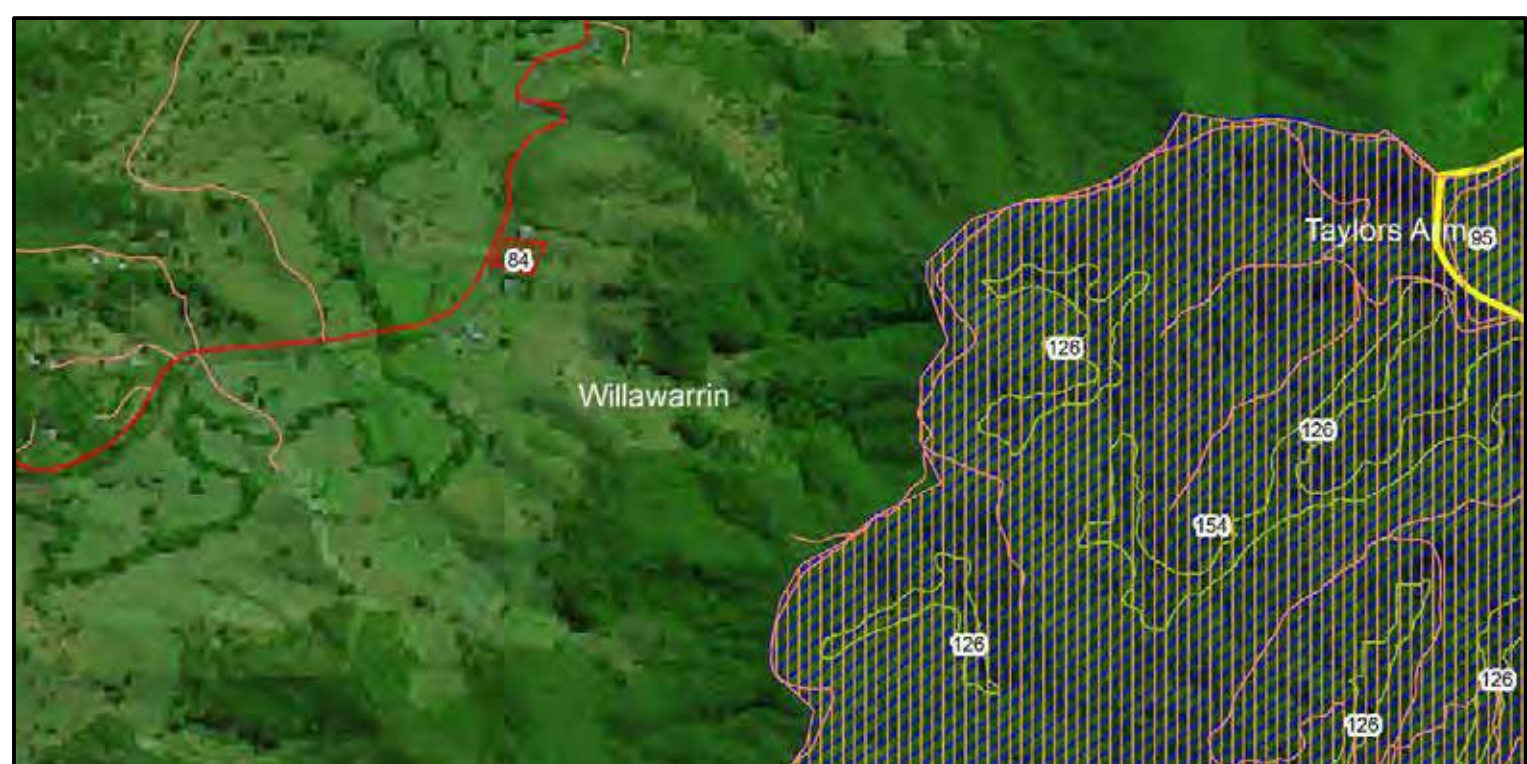
Inset map 1. Bellbrook



Inset map 2. Willawarrin



Inset map 3. SFAZ burning



Inset map 4. Milbank School

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Willawarrin - Map Display Area

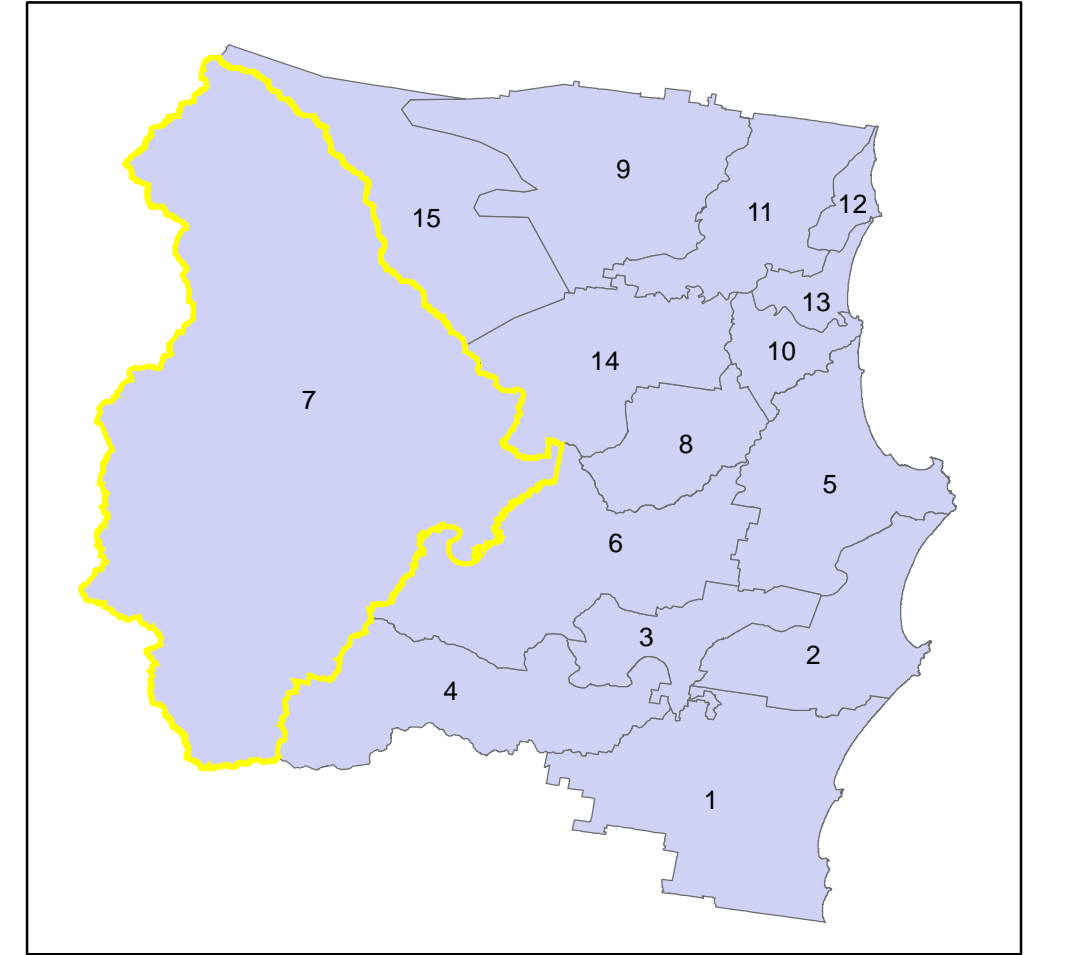
Map 7 of 15

This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Kempsey Nambucca Bush Fire Management Committee (BFMC) pursuant to section 52 of the Rural Fires Act 1997.

The aim of this BFRMP is to reduce the adverse impact of bush fires on life, property and the environment.

- The objectives of this BFRMP are to:
- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
 - manage fuel to reduce the spread and intensity of bush fires while minimising environmental/ecological impacts;
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Review
Under the Rural Fires Act 1997 this plan must be reviewed and updated within each successive five year period following the constitution of the BFMC. The Kempsey Nambucca BFM will also review this plan as necessary. This may be triggered by a range of circumstances, including but not limited to:

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- reviewing the bush fire risk in the area; or
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Assets
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- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S2 Operations Coordination Plan;

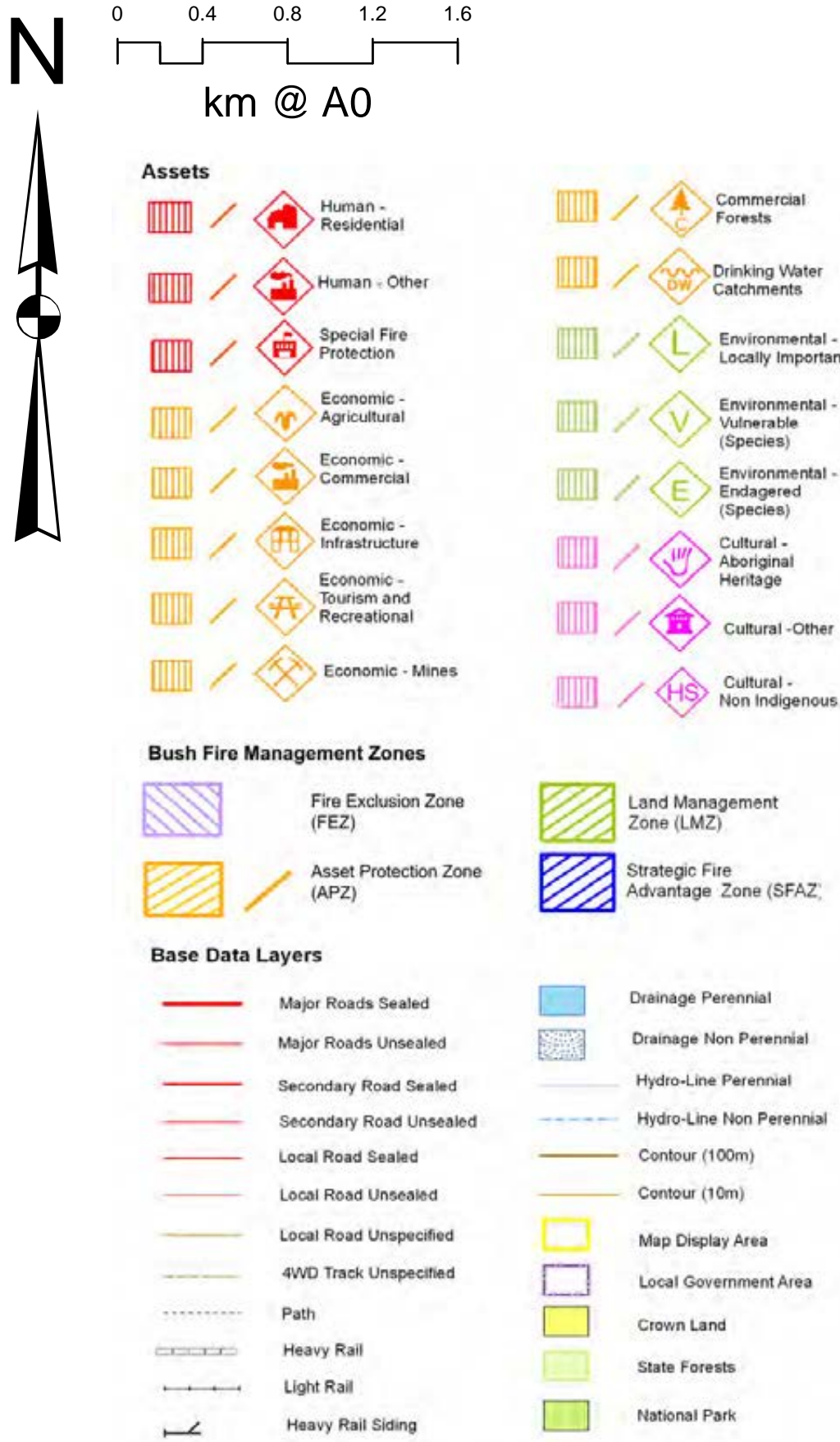
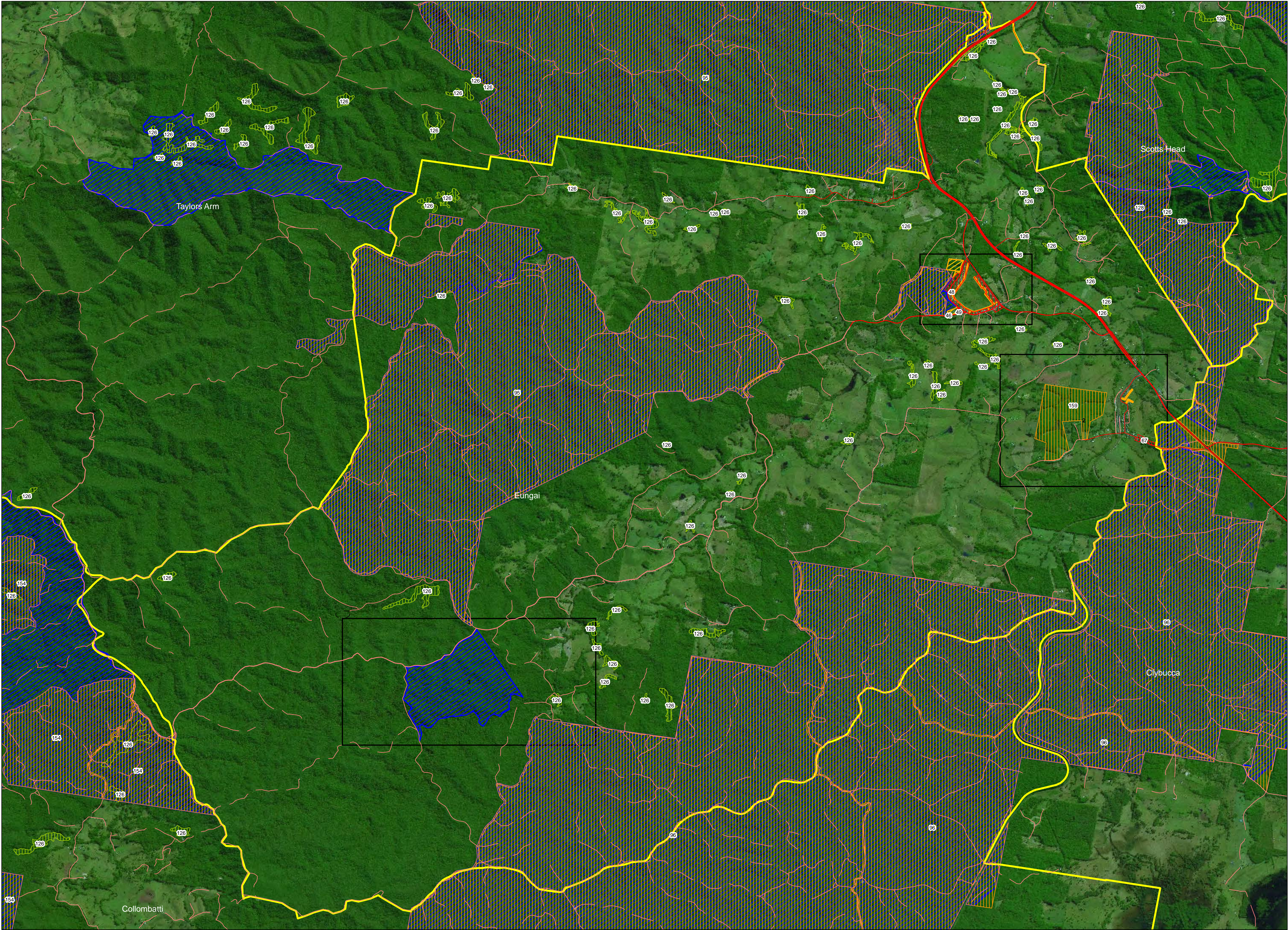
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Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document Standards for Asset Protection Zones.
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone. Indirect Attack (back burning) in high to very high fire weather conditions within the zone. To reduce the likelihood of: Crown fire development within the zone. Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependant upon: - Topography - Aspect - Spotting propensity - Location of adjacent fire breaks - Mosaic pattern of treatment Assess Overall Fuel Hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan. Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in area where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

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Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T27	Property Planning	Bushfire Evacuation Plan to be prepared	Private
T28	Community Education	Introduce new programs prepare,act,survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T36	Community Education	Media campaign on prepare, act, survive	RFS
T43	Preparedness	Maintain Strategic Fire Trail network	Ti CL, LGA, OEH, Private, DPI
T67	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T78	Hazard Reduction	Conduct HR burning in SFAZ when OFH	Dept of Education (RFS)
T79	Hazard Reduction	APZ and SFAZ maintained in line with BFEAC	Private (RFS)
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T141	Property Planning	Prepare a Bushfire Evacuation Plan	OEH

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
24	Isolated Rural Development Eungai	Human	Residential	Extreme	1A	T29;36;43
46	Eungai Pre-School and Community	Human	Special Fire	Extreme	1B	T78;27
48	Eungai Creek Village	Human	Residential	Extreme	1B	T79;28
49	Eungai Primary School	Human	Special Fire	Extreme	1B	T67;78
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
188	Vulnerable Species	Environment	Vulnerable	High	3D	T132
203	Cedar Park Picnic Area	Economic	Tourist and	Medium	4	T110;141



Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Eungai - Map Display Area
Map 8 of 15

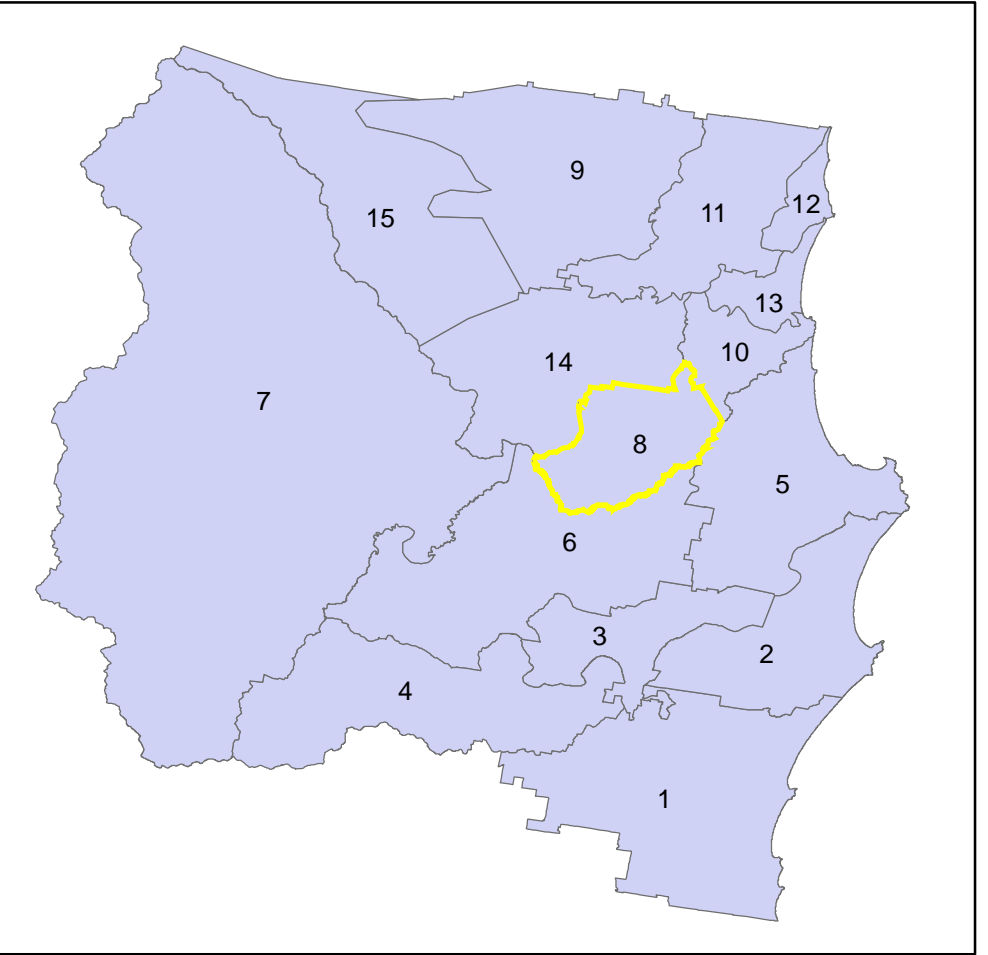
This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Kempsey Nambucca Bush Fire Management Committee (BFMC) pursuant to section 55 of the Rural Fires Act 1997.

The aim of this BFRMP is to reduce the adverse impact of bush fires on life, property and the environment.

The objectives of this BFRMP are to:

- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
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Review

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- ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection;
- using the Local Environment Plan's (LEPs) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S22 Operations Coordination Plan;

Note on LMZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LMZ for this risk management plan. For areas identified by an LMZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document <i>Standards for Asset Protection Zones</i> .
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone. Indirect Attack (back burning) in high to very high fire weather conditions within the zone. To reduce the likelihood of: Crown fire development within the zone, and/or Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependant upon: <ul style="list-style-type: none">- Topography- Aspect- Spotting propensity- Location of adjacent fire breaks- Mosaic pattern of treatment Assess Overall Fuel Hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan. Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in area where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

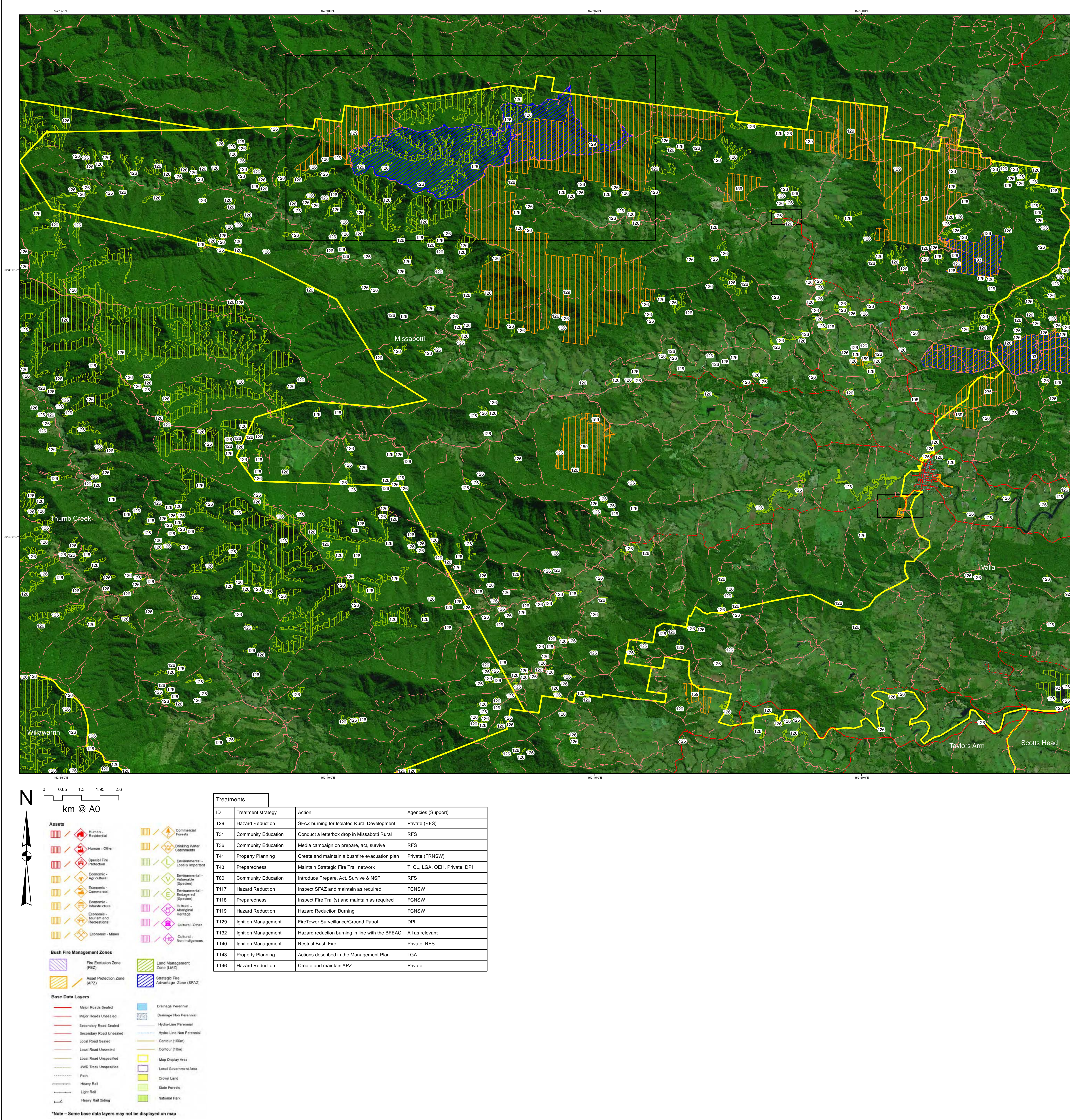
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Date created: Tuesday, 8 May 2018

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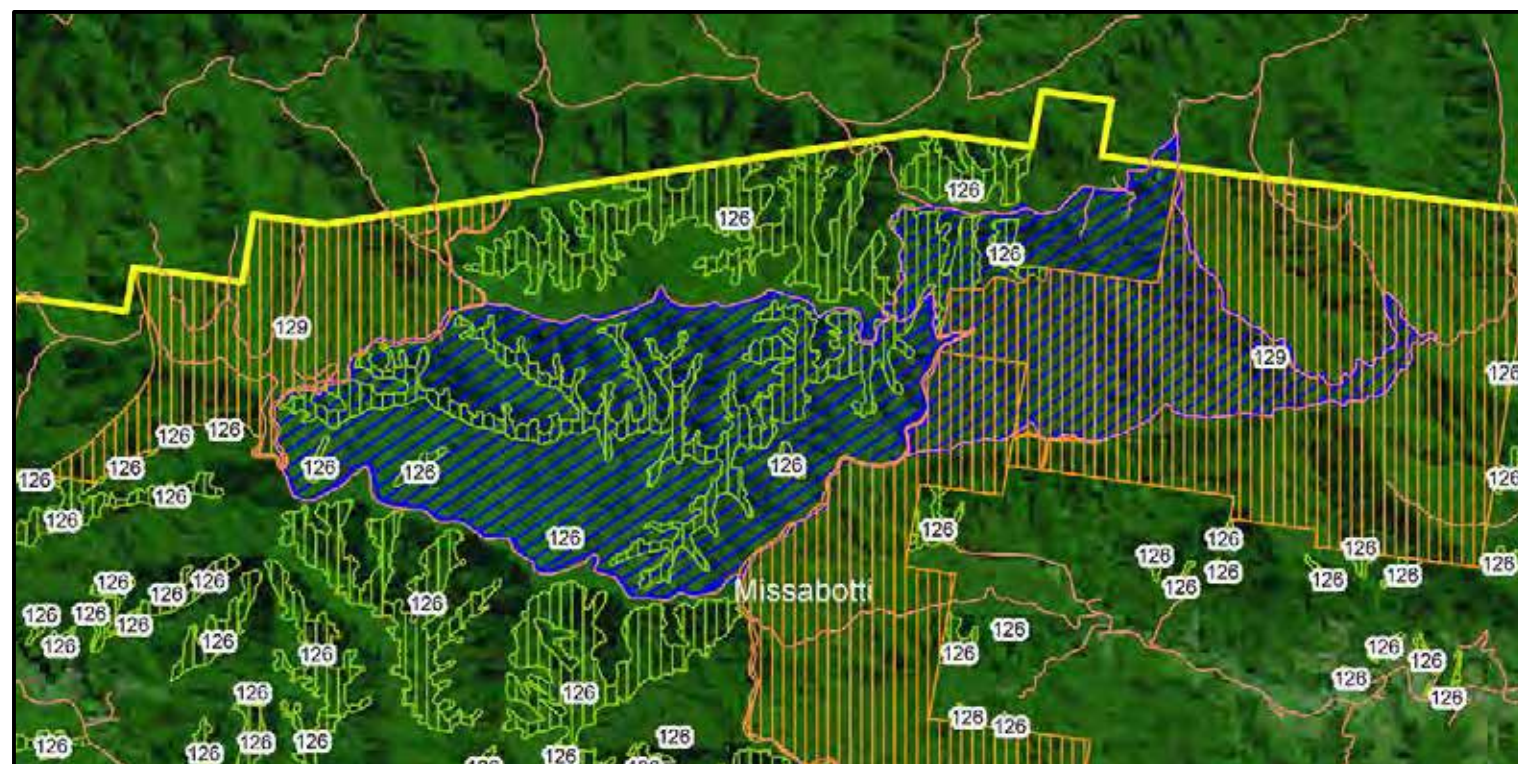
Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
20	Isolated Rural Development Misabotti	Human	Residential	Extreme	1A	(1)
93	Viewmont State Forest	Economic	Commercial	Extreme	1C	(2)
105	Tallowood School	Human	Special Fire	Very High	2A	T41
129	Gladstone State Forest	Economic	Commercial	Very High	2A	T118,119
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
153	Irishman State Forest	Economic	Commercial	Very High	2C	T119,118
159	Nambucca Joint Venture Plantations	Economic	Commercial	High	3A	T129
178	Endangered Species	Environment	Endangered	High	3A	T140
187	Endangered Species	Environment	Endangered	High	3D	T132
188	Vulnerable Species	Environment	Vulnerable	High	3D	T132
189	Vulnerable Species	Environment	Vulnerable	High	3D	T132
208	Missabotti Hall and Fire Station	Human	Other	Medium	4	T80
209	Marnie Moran Private plantation	Economic	Commercial	Medium	4	T146
235	Nambucca Shire Dam	Economic	Drinking	Low	NA	T143

(1):T29,31,36,43

(2):T117,118,119



Inset map 1. Missabotti RFS and Hall



Inset map 2. SFAZ burning



Inset map 3. Gumbayngirr Road APZs

Kempsey Nambucca BFMC Bush Fire Risk Management Plan 2018

Missabotti - Map Display Area

Map 9 of 15

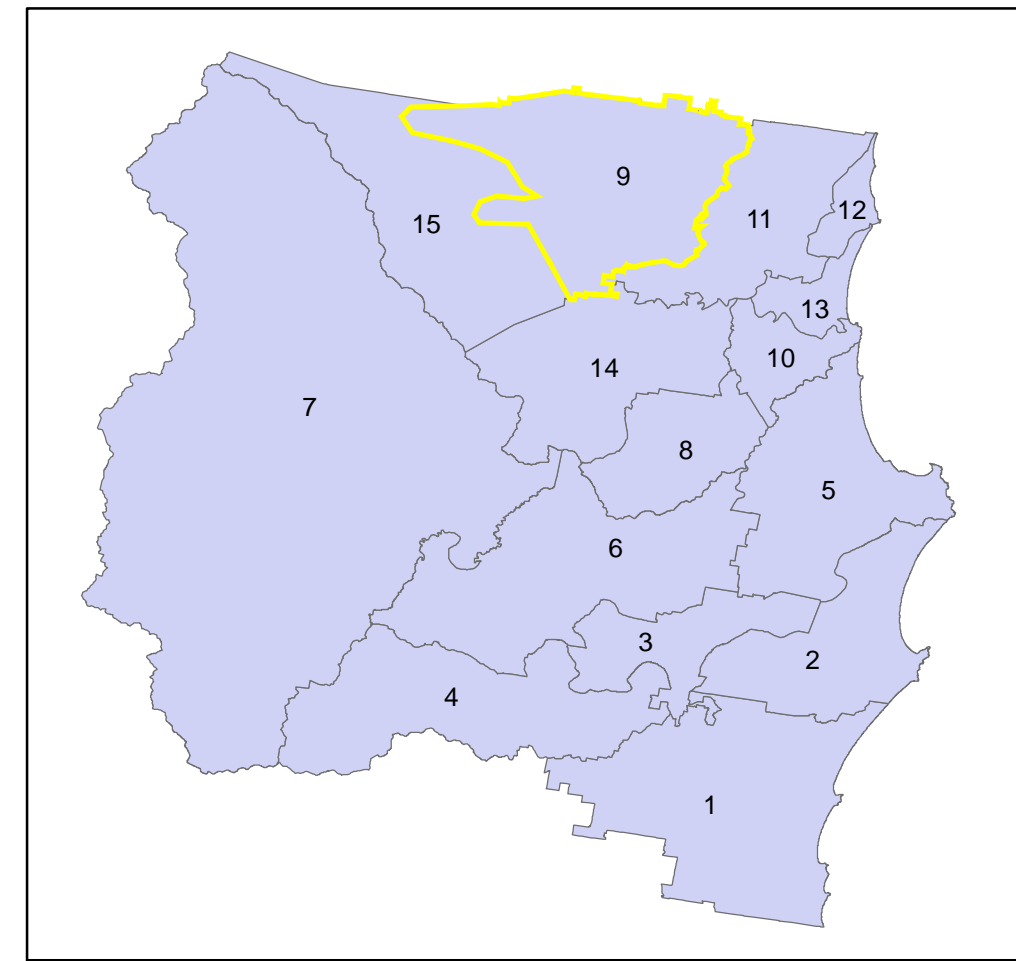
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The objectives of this BFRMP are to:

- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
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- effectively contain fires with a potential to cause damage to life, property and the environment.

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- using the Local Environment Plan's (LEPs) to control development in areas with a bush fire risk;
- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S&S Operations Coordination Plan;

Note on LMZ: All areas not specifically mapped as an APZ, SFAZ or FEZ are considered as LMZ for this risk management plan. For areas identified by an LMZ polygon on the map, please refer to the BFRMP document for the specific land management objectives.

Zone	Purpose	Suppression	Zone
Asset Protection Zone	To protect human life, property and highly valued public assets and values.	To enable the safe use of Direct Attack suppression strategies within the zone. To minimise bush fire impacts on undefended assets.	As per RFS document Standards for Asset Protection Zones .
Strategic Fire Advantage Zone	To provide strategic areas of fire protection advantage which will reduce the speed and intensity of bush fires, and reduce the potential for spot fire development. To aid containment of wildfires to existing management boundaries.	To improve the likelihood and safe use of Parallel Attack suppression strategies within the zone. Indirect Attack (back burning) in high to very high fire weather conditions within the zone. To reduce the likelihood of: Crown fire development within the zone, and/or Spot fire ignition potential from the zone.	Zone width related to suppression objectives and dependant upon: <ul style="list-style-type: none">- Topography- Aspect- Spotting propensity for adjacent fire breaks- Location of treatment- Mosaic pattern of vegetation Assess Overall Fuel Hazard (OFH) once vegetation communities reach minimum fire thresholds within this plan. Management practices should aim to achieve mosaic fuel reduction patterns so that the majority of the SFAZ has an OFH of less than high.
Land Management Zone	To meet relevant land management objectives in area where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires. To undertake mosaic burning.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
Fire Exclusion Zone	To exclude bush fires.	N/A	Variable dependant on size of fire sensitive area requiring protection.

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Date created: Tuesday, 6 May 2018

BFRMP version 2.1.26.0



Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T27	Property Planning	Bushfire Evacuation Plan to be prepared	Private
T28	Community Education	Introduce new programs prepare, act, survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T36	Community Education	Media campaign on prepare, act, survive	RFS
T43	Preparedness	Maintain Strategic Fire Trail network	TI CL, LGA, OEH, Private, DPI
T67	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T72	Hazard Reduction	Handclearing distance 10m annually	OEH
T79	Hazard Reduction	APZ and SFAZ maintained in line with BFEAC	Private (RFS)
T81	Hazard Reduction	Maintain Asset Protection Zones	OEH
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T84	Hazard Reduction	HR Burning in mapped SFAZ	OEH
T91	Hazard Reduction	HR Burning in SFAZ	OEH
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management)
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T133	Other	Restrict hazard reduction burning in areas of	TI CL, LGA, OEH, Private, RFS
T134	Other	Restrict construction of new fire trails in PASS	TI CL, LGA, OEH, Private, DPI
T141	Property Planning	Prepare a Bushfire Evacuation Plan	OEH
T152	Other	Restrict all activities within 100m	OEH (CA, TI CL, LGA, OEH,

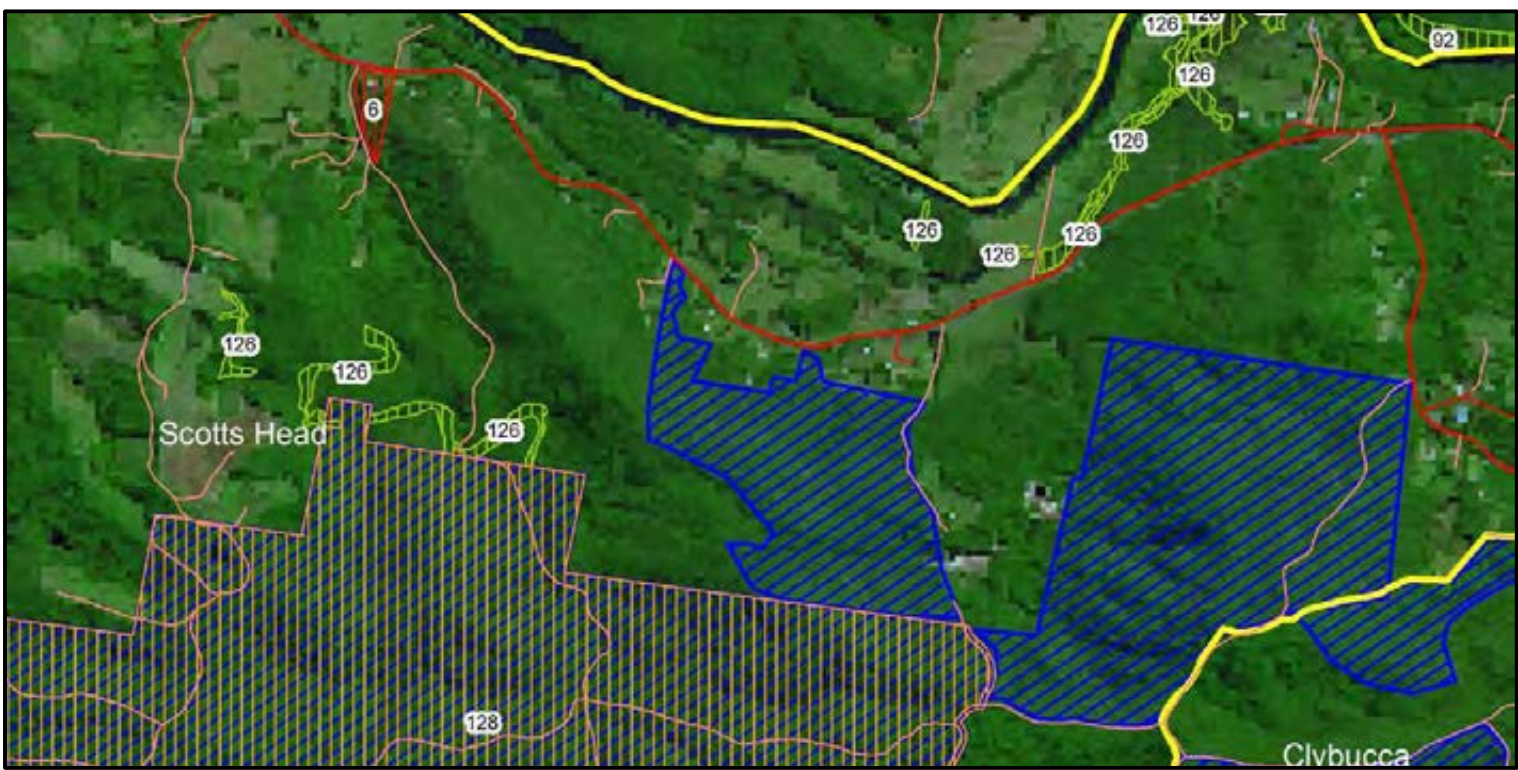
Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
6	Way Way Forest Lodge	Human	Special Fire	Extreme	1A	T27
30	Isolated Rural Development Scotts Head	Human	Residential	Extreme	1A	T29,36,43
44	Scotts Head South	Human	Residential	Extreme	1B	T28,79
45	Scotts Head Public School	Human	Special Fire	Extreme	1B	T67
58	Tourist Facility	Human	Special Fire	Extreme	1B	T27,84
60	Scotts Head Caravan Park	Human	Special Fire	Extreme	1B	T27
61	Scotts Head Village	Human	Residential	Extreme	1B	T28,79,84
63	Old Forestry Hut	Cultural	Non	Extreme	1B	T72
64	Yarrahapinni Mountain Communication	Economic	Infrastructure	Extreme	1B	T81,91
145	Vulnerable Species	Environment	Vulnerable	Very High	2C	T132
189	Vulnerable Species	Environment	Vulnerable	High	3D	T132
202	Pines Picnic Area	Economic	Tourist and	Medium	4	T110,141
204	Yarrahapinni Lookout	Economic	Tourist and	Medium	4	T110,141
216	Scotts Head Bowling Club NSP	Human	Other	Medium	4	T83
225	Site 5	Cultural	Aboriginal	Medium	4	T99,152
229	Fisheries Industry	Economic	Commercial	Low	NA	T133,134



Inset map 1. Scotts Head North



Inset map 2. Scotts Head South



Inset map 3. SFAZ burning

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Scotts Head - Map Display Area

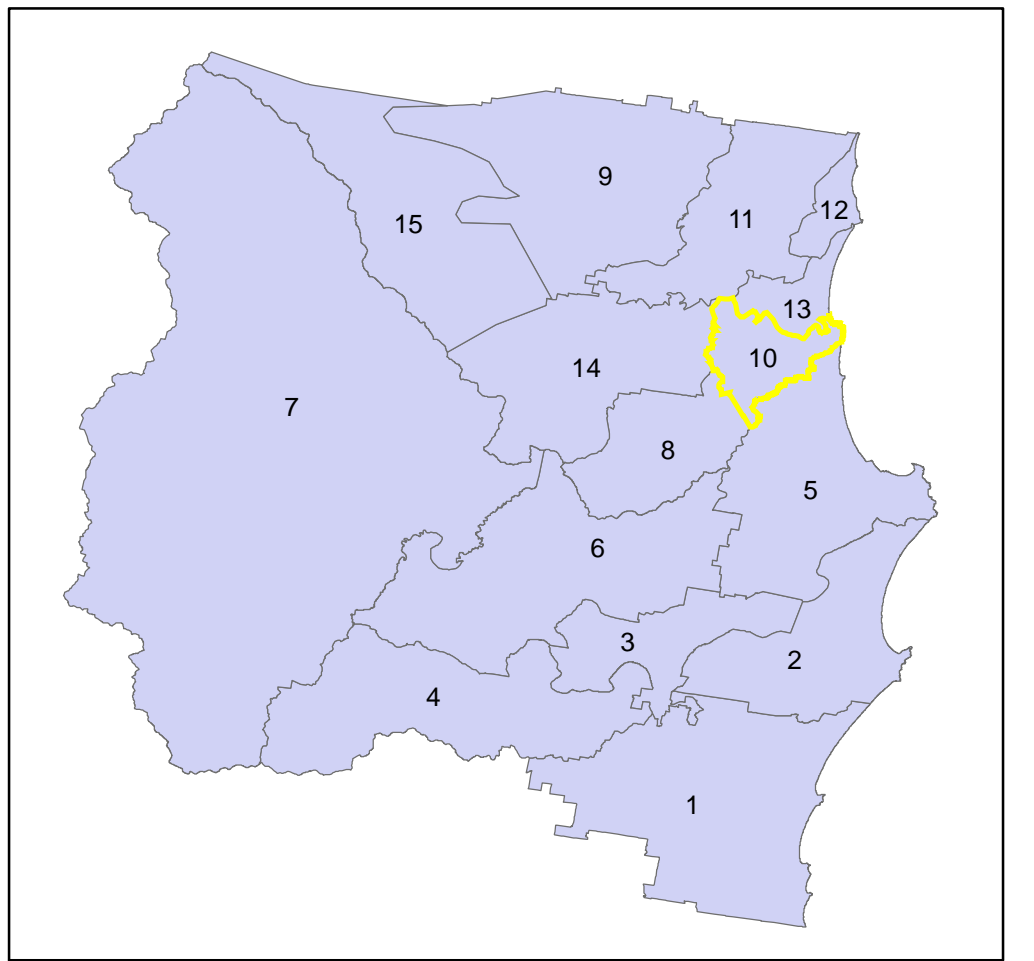
Map 10 of 15

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- varying the standard bush fire danger period as required;
- requiring permits during bush fire danger periods
- prosecution of arsonists/offenders
- investigation of bush fire cause;
- normal fire suppression activities;
- assessing and managing compliance with strategic fire-fighting resource allocation management systems;
- preparation of a S2 Operations Coordination Plan;

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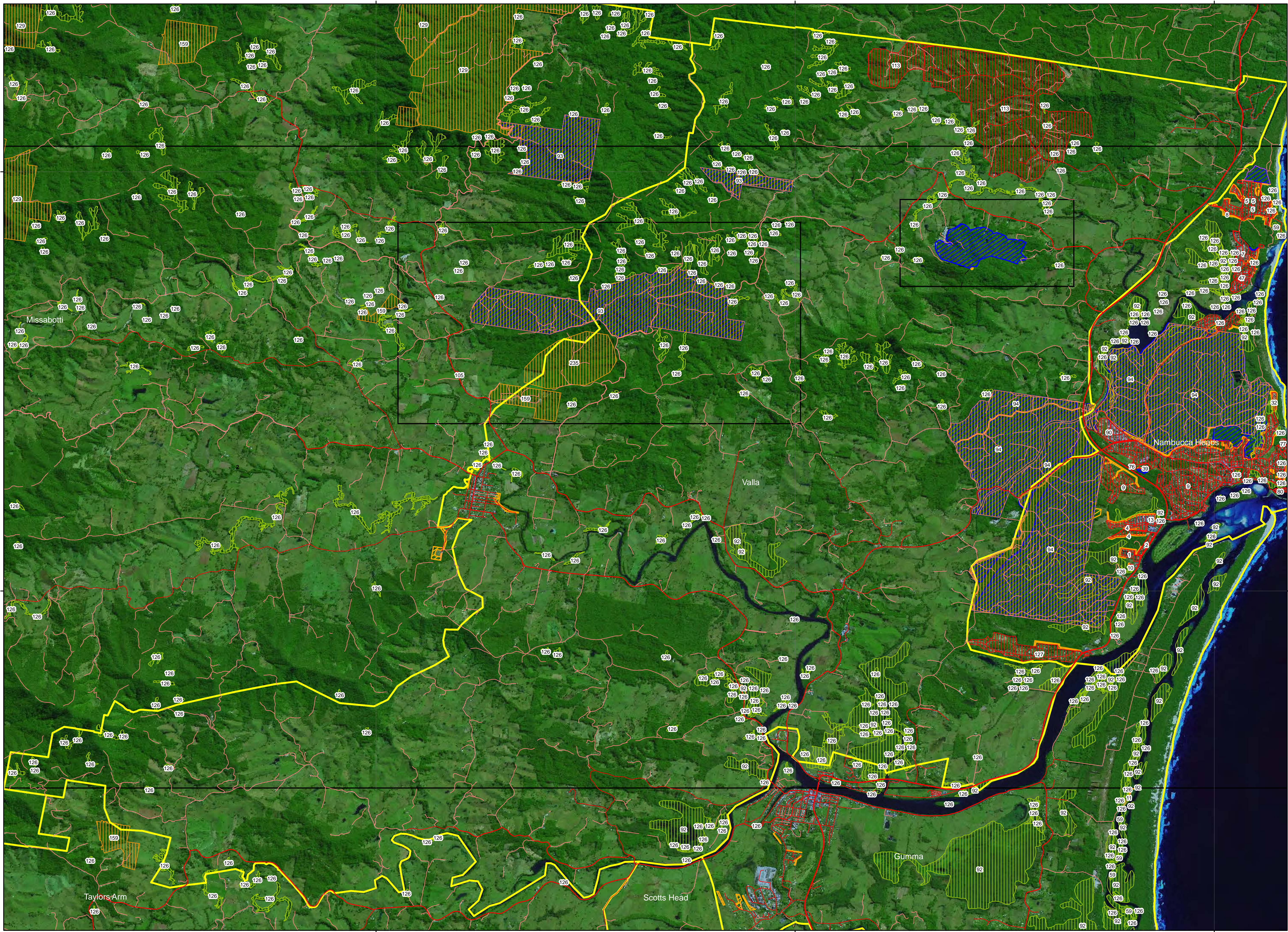
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BFRMP version 2.1.26.0



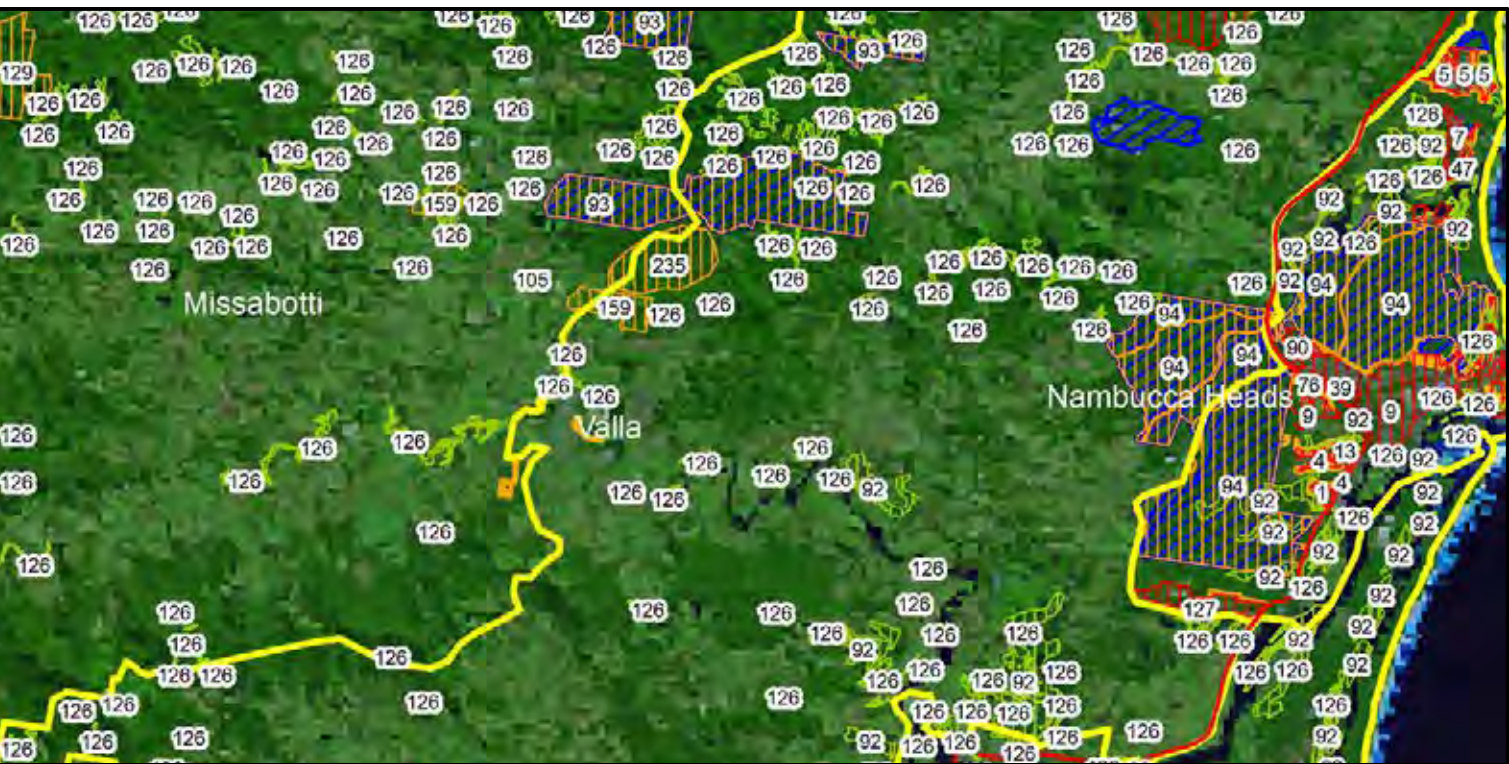
Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T28	Community Education	Introduce new programs prepare, act, survive	RFS
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T30	Community Education	Conduct a street walk in Valla Rural	RFS
T36	Community Education	Media campaign on prepare, act, survive	RFS
T43	Preparedness	Maintain Strategic Fire Trail network	TiCL, LGA, OEH, Private, DPI
T73	Ignition Management	Facilitate early detection and response	RFS (OEH, DPI)
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management)
T116	Ignition Management	Restrict vehicle access and machinery	RFS (OEH, FCNSW)
T117	Hazard Reduction	Inspect SFAZ and maintain as required	FCNSW
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T120	Community Education	Conduct Community Engagement Activity	FCNSW (RFS)
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant
T140	Ignition Management	Restrict Bush Fire	Private, RFS
T149	Hazard Reduction	Maintain APZ	Private

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
19	Isolated Rural Development Valla MDA	Human	Residential	Extreme	1A	(1)
92	SEPP 14 Shire Wide	Environment	Endangered	Extreme	1C	T73;116
94	Nambucca State Forest	Economic	Commercial	Extreme	1C	(2)
113	Valla Rural	Human	Residential	Very High	2A	T28
117	Site 1	Cultural	Aboriginal	Very High	2A	T99
118	Site 1	Cultural	Aboriginal	Very High	2A	T99
122	Site 3	Cultural	Aboriginal	Very High	2A	T99
123	Site 3	Cultural	Aboriginal	Very High	2A	T99
178	Endangered Species	Environment	Endangered	High	3A	T140
187	Endangered Species	Environment	Endangered	High	3D	T132
211	Mt England Communications Tower	Economic	Infrastructure	Medium	4	T149
217	Valla Community Hall NSP	Human	Other	Medium	4	T83

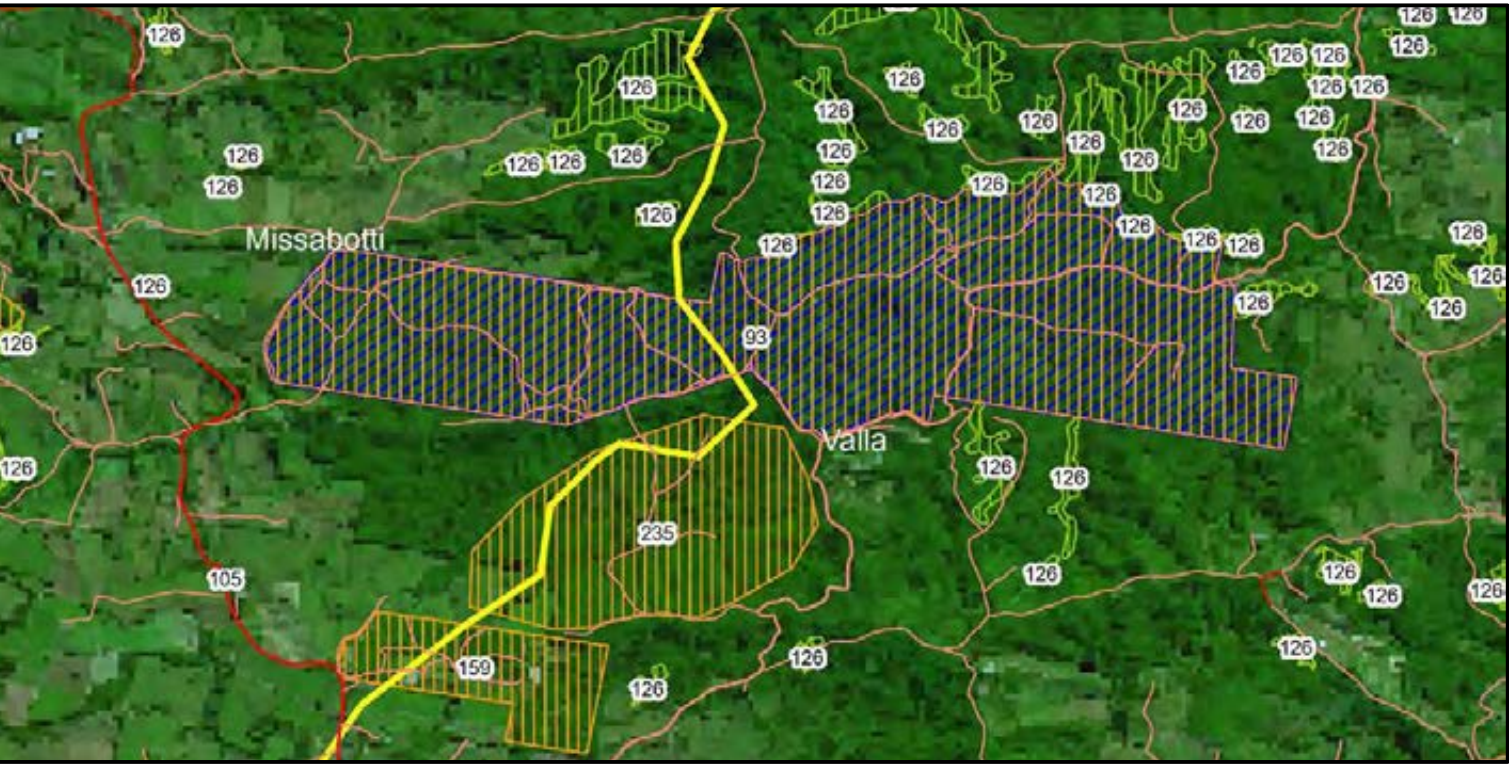
(1):T29;30;36;43
(2):T120;119;118;117



Inset map 1. Mt England Communications Tower



Inset map 2. Valla Rural



Inset map 3. SFAZ Burning

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Valla - Map Display Area

Map 11 of 15

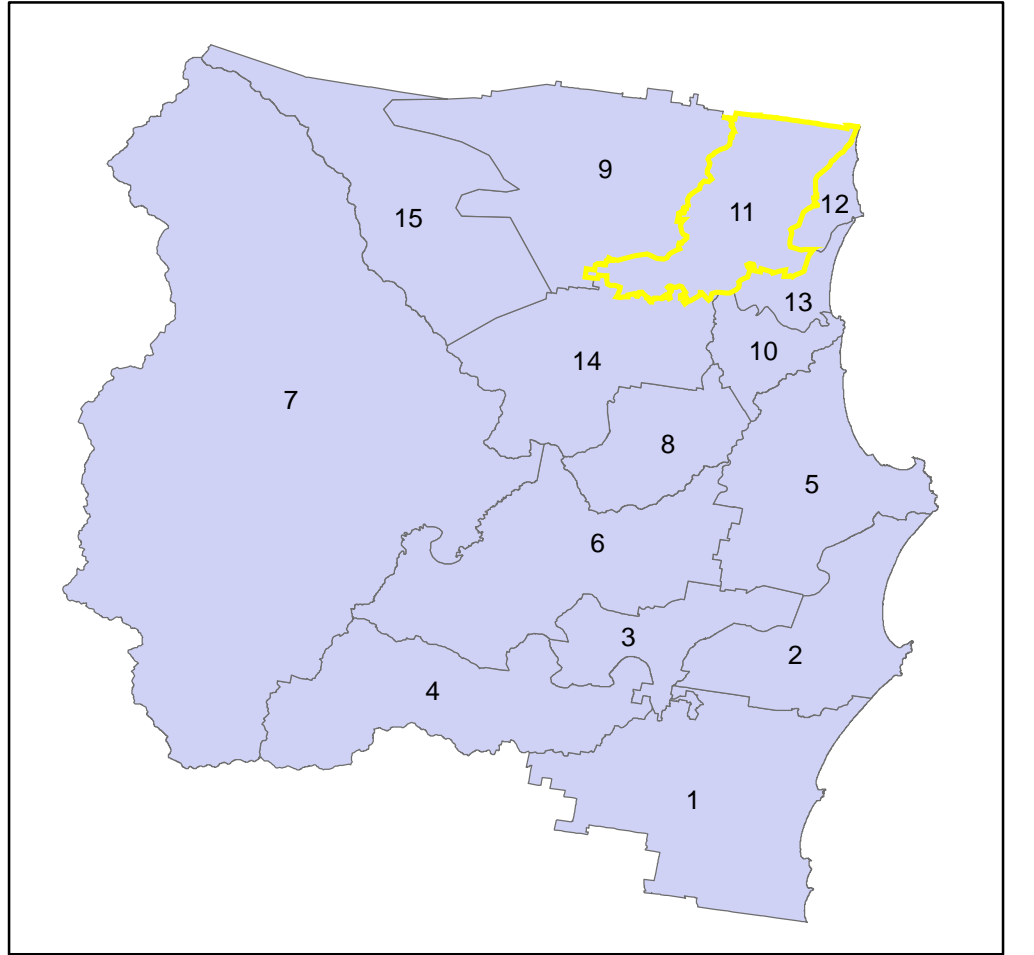
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- requiring permits during bush fire danger periods
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- normal fire suppression activities;
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- preparation of a S&S Operations Coordination Plan;

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Land Management Zone	To meet relevant land management objectives in area where APZs or SFAZs are not appropriate.	As per the land management and fire protection objectives of the responsible land management agency. To reduce the likelihood of spread of fires.	As appropriate to achieve land management, e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.
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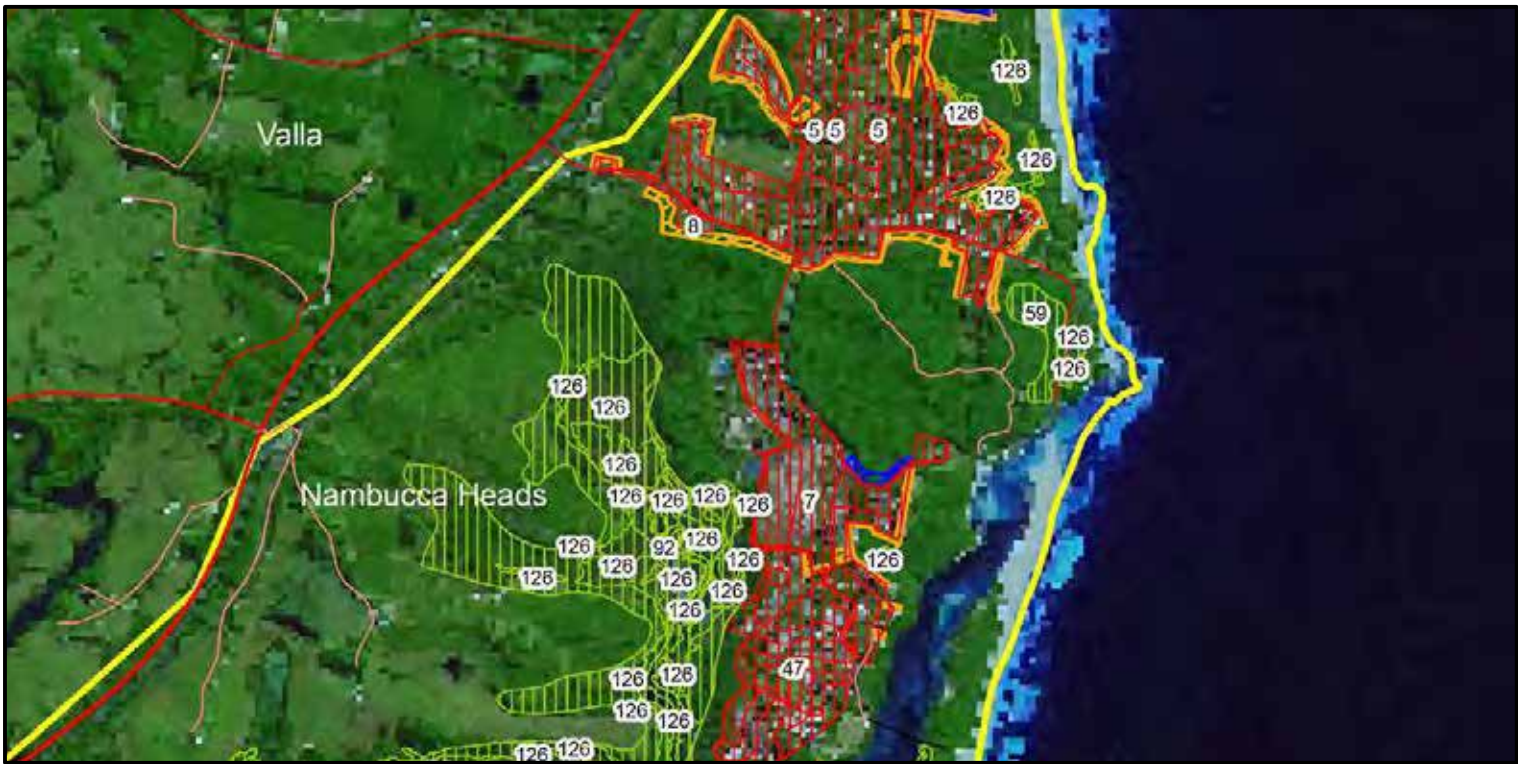


ID	Treatment strategy	Action	Agencies (Support)
T3	Community Education	Conduct a Street Walk in the Sanctuary	FRNSW
T8	Hazard Reduction	Maintain APZ by slashing	LGA, OEH
T9	Hazard Reduction	Conduct slashing behind preschool to maintain	Private
T10	Community Education	Inform residents of property preparedness	FRNSW
T11	Community Education	Conduct Fire safety and awareness campaign	FRNSW
T13	Community Education	Conduct Street Walks in urban interface areas	FRNSW
T14	Community Education	Conduct annual meeting to discuss evacuation	FRNSW
T15	Community Education	Annual street walk for Bushfire Survival Plan	FRNSW
T16	Hazard Reduction	Conduct slashing within mapped APZ as per	LGA, Private
T17	Community Education	Conduct street walk in urban interface areas	FRNSW
T18	Hazard Reduction	Slashing in Valla Nature Reserve as per RFMS	OEH
T19	Hazard Reduction	Slashing in Jagun Nature Reserve as per RFMS	OEH
T20	Hazard Reduction	Hand clearing in APZ rear of Cockburn & Jones	LGA
T21	Hazard Reduction	Slashing in APZ Henderson Street	LGA
T26	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education
T27	Property Planning	Bushfire Evacuation Plan to be prepared	Private
T37	Hazard Reduction	Maintain existing APZ	Private
T38	Hazard Reduction	Maintain mapped APZ's	Ti CL, LGA, Private, Nambucca
T39	Hazard Reduction	Maintain APZ	Private
T41	Property Planning	Create and maintain a bushfire evacuation plan	Private (FRNSW)
T59	Property Planning	Develop and implement Community Protection	RFS
T60	Community Education	Conduct Childrens Education Program	FRNSW
T61	Property Planning	Develop and implement a Bush Fire Evacuation	FRNSW, Private
T62	Hazard Reduction	Maintain APZ and SFAZ	Private, Dept of Education
T63	Hazard Reduction	Maintain APZ	LGA
T67	Property Planning	Bushfire Evacuation Plan to be prepared	Dept of Education

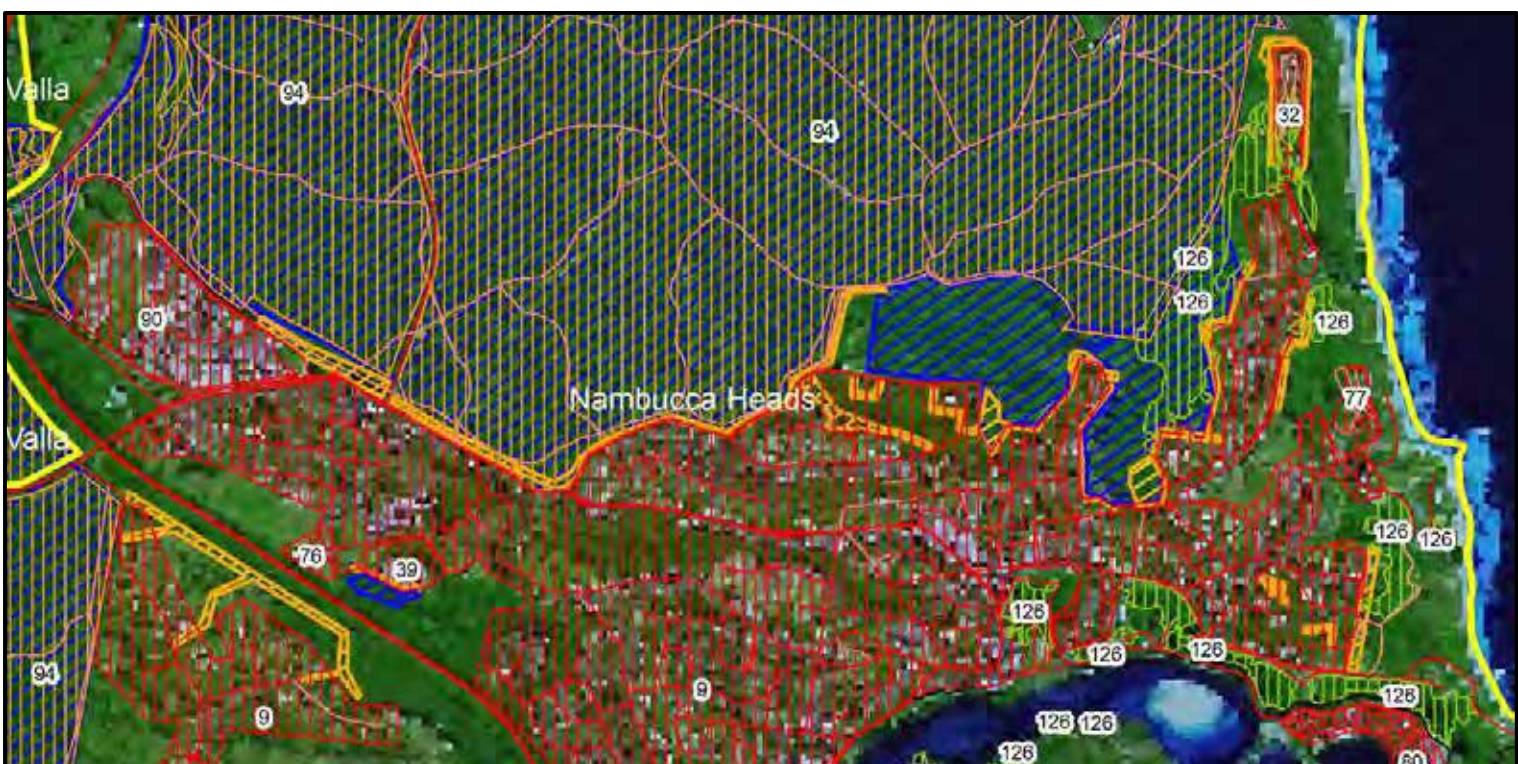
ID	Treatment strategy	Action	Agencies (Support)
T68	Hazard Reduction	Maintain APZ by slashing	Private
T80	Community Education	Introduce Prepare, Act, Survive & NSP	RFS
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T98	Hazard Reduction	Maintain APZ	LGA
T99	Other	Adhere to AHIMS and BFEAC	OEH (All other land management)
T103	Property Planning	Ensure current evacuation plan is prepared	LGA (Ti CL, FRNSW)
T113	Community Education	Undertake community engagement program	FRNSW
T133	Other	Restrict hazard reduction burning in areas of	Ti CL, LGA, OEH, Private, RFS
T134	Other	Restrict construction of new fire trails in PASS	Ti CL, LGA, OEH, Private, DPI
T152	Other	Restrict all activities within 100m	OEH (CA, Ti CL, LGA, OEH,

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
1	Salamanda Parade Residential	Human	Residential	Extreme	1A	T13,39
2	Pacific Hwy Nambucca Heads	Human	Residential	Extreme	1A	T15,63
4	Marshall Way residential	Human	Residential	Extreme	1A	T16,17
5	Valla Beach	Human	Residential	Extreme	1A	(1)
7	Ocean View Drive	Human	Residential	Extreme	1A	T8
8	Valla Community Pre-School	Human	Special Fire	Extreme	1A	T9,26
9	Nambucca Heads/Hyland Park	Human	Residential	Extreme	1A	T10,3,38
10	Rutland Street homes for the elderly	Human	Special Fire	Extreme	1A	T41,37
13	Osprey & Farrington Villages	Human	Special Fire	Extreme	1A	T11,41,37
32	Swimming Creek Caravan Park	Human	Special Fire	Extreme	1A	T13,41,37
39	Frank Partridge VC Primary School	Human	Special Fire	Extreme	1A	T61,62
41	Gigay Gumambi Pre-School	Human	Special Fire	Extreme	1A	T14,60
47	Valla Beach Resort	Human	Special Fire	Extreme	1B	T68,27,80
73	Teddy Bears Kindy	Human	Special Fire	Extreme	1B	T14,60,98
76	Nambucca Valley Christian Community	Human	Special Fire	Extreme	1B	T67
77	Headlands Holiday Park	Human	Special Fire	Extreme	1B	T27
80	White Albatros Caravan Park	Human	Special Fire	Extreme	1C	T103
90	Nambucca Industrial	Human	Other	Extreme	1C	T113
121	Site 3	Cultural	Aboriginal	Very High	2A	T99
127	Kingsworth Estate	Human	Residential	Very High	2A	T63
132	Nambucca Valley Family Day Care	Human	Special Fire	Very High	2B	T14,60
162	Fisheries Industry	Economic	Commercial	High	3A	T133,134
164	Site 1	Cultural	Aboriginal	High	3A	T99
165	Site 1	Cultural	Aboriginal	High	3A	T99
166	Site 1	Cultural	Aboriginal	High	3A	T99
168	Site 3	Cultural	Aboriginal	High	3A	T99
174	Site 5	Cultural	Aboriginal	High	3A	T99
175	Site 5	Cultural	Aboriginal	High	3A	T99
215	Nambucca Plaza NSP	Human	Other	Medium	4	T83
223	Site 4	Cultural	Aboriginal	Medium	4	T99
224	Site 5	Cultural	Aboriginal	Medium	4	T99,152
227	Nambucca Heads Public School	Human	Special Fire	Medium	4	T14,60

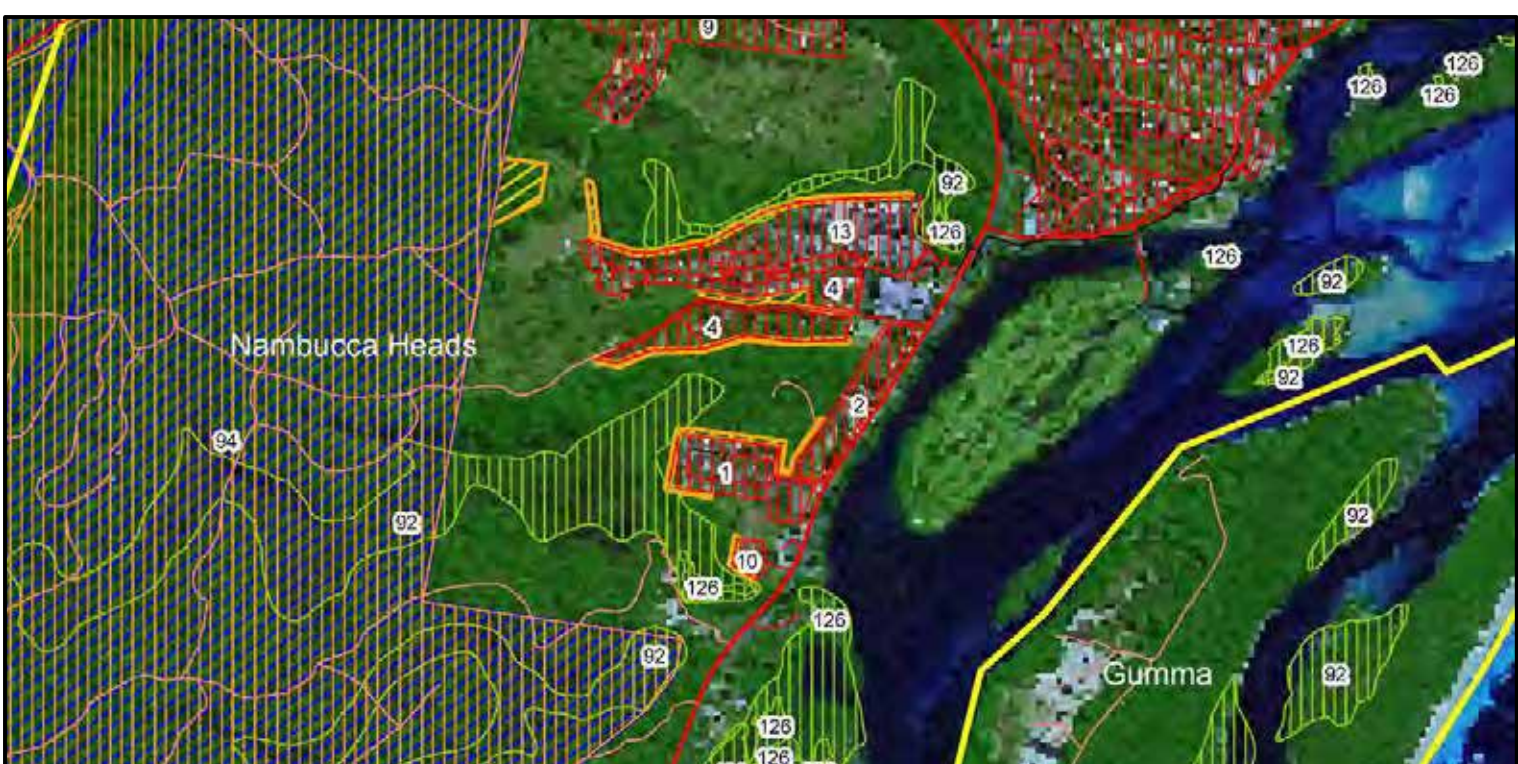
(1):T18;19;20;21;59



Inset map 1. Valla Beach



Inset map 2. North Nambucca



Inset map 3. South Nambucca

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Nambucca Heads - Map Display Area

Map 12 of 15

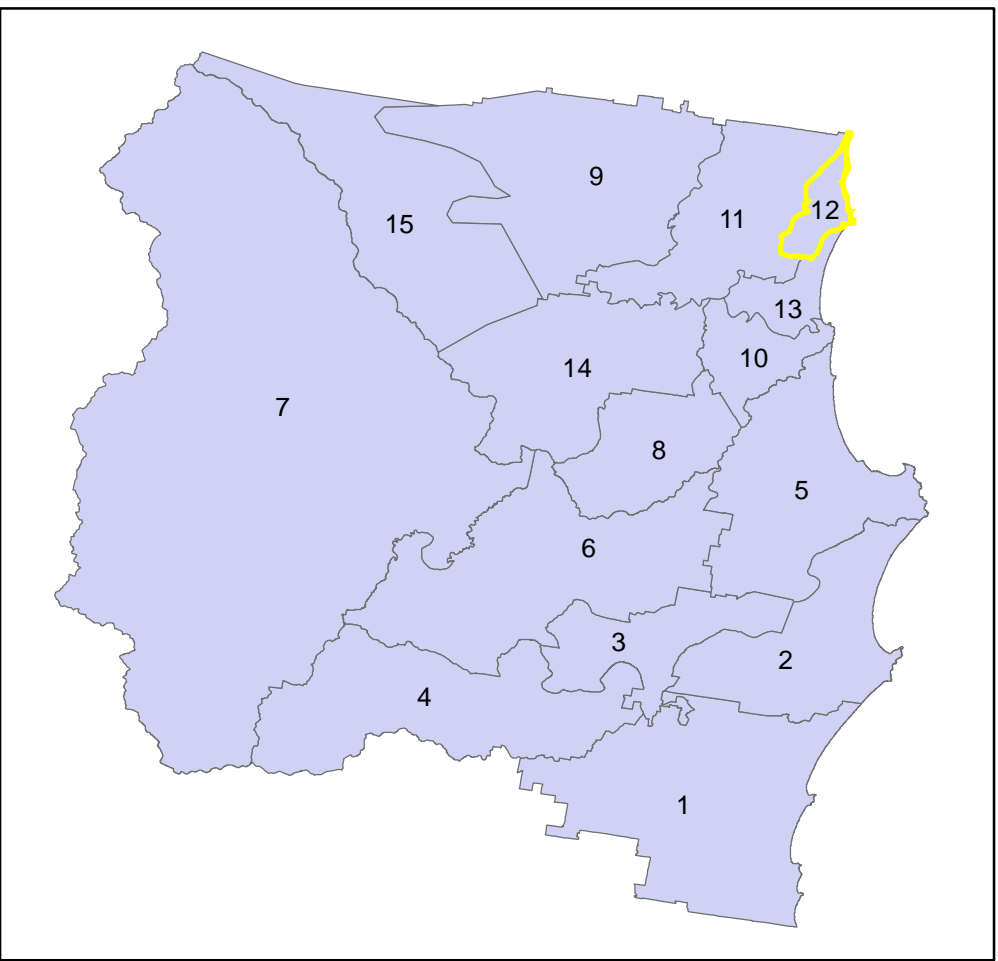
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Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
T11	Boultons Crossing (Gumma Reserve)	Human	Special Fire	Extreme	1A	T22;T3;24
31	Isolated Rural Development Gumma	Human	Residential	Extreme	1A	(1)
125	Macksville urban interface	Human	Residential	Very High	2A	T63
126	EEC	Environment	Endangered	Very High	2A	T124
169	Site 3	Cultural	Aboriginal	High	3A	T99
219	Donnelly Welsh Playing Fields NSP	Human	Other	Medium	4	T83
228	Fisheries Industry	Economic	Commercial	Low	NA	T134;133

(1) T29;34;36;43



Inset map 1. Boultons Crossing



Inset map 2. Inset interface



Inset map 3. Macksville APZ's

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Gumma - Map Display Area

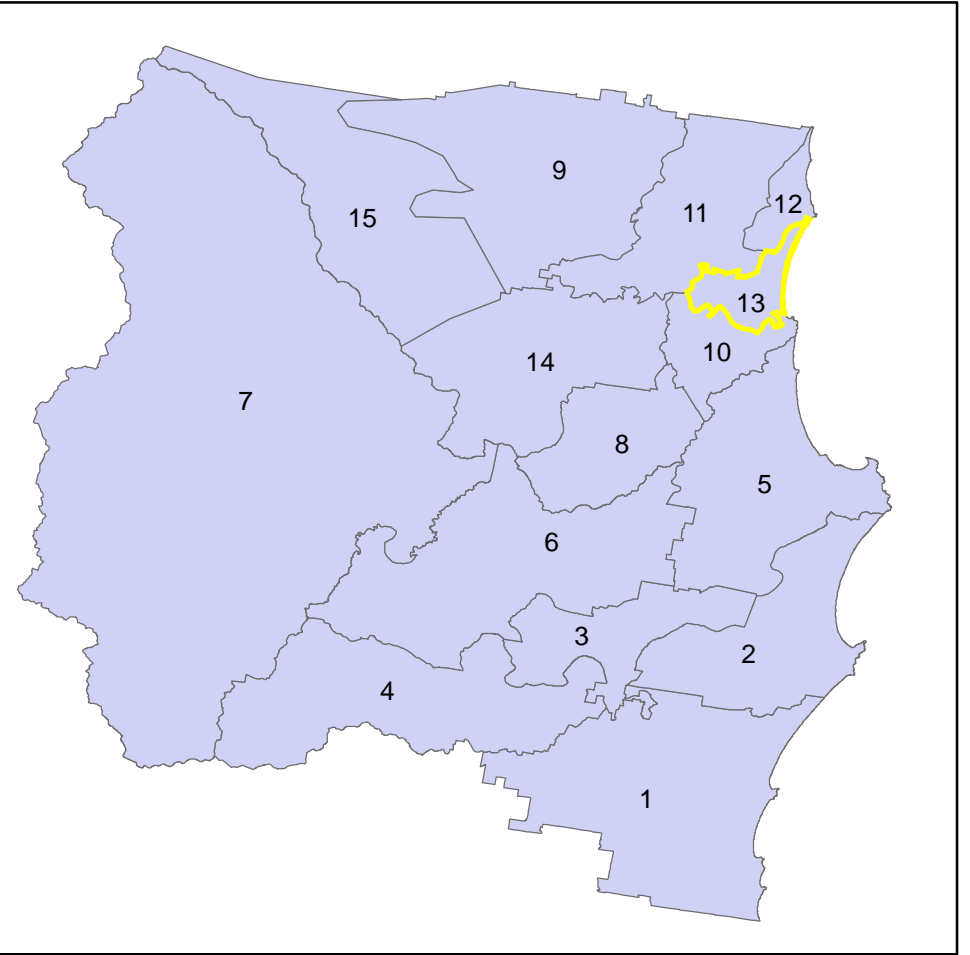
Map 13 of 15

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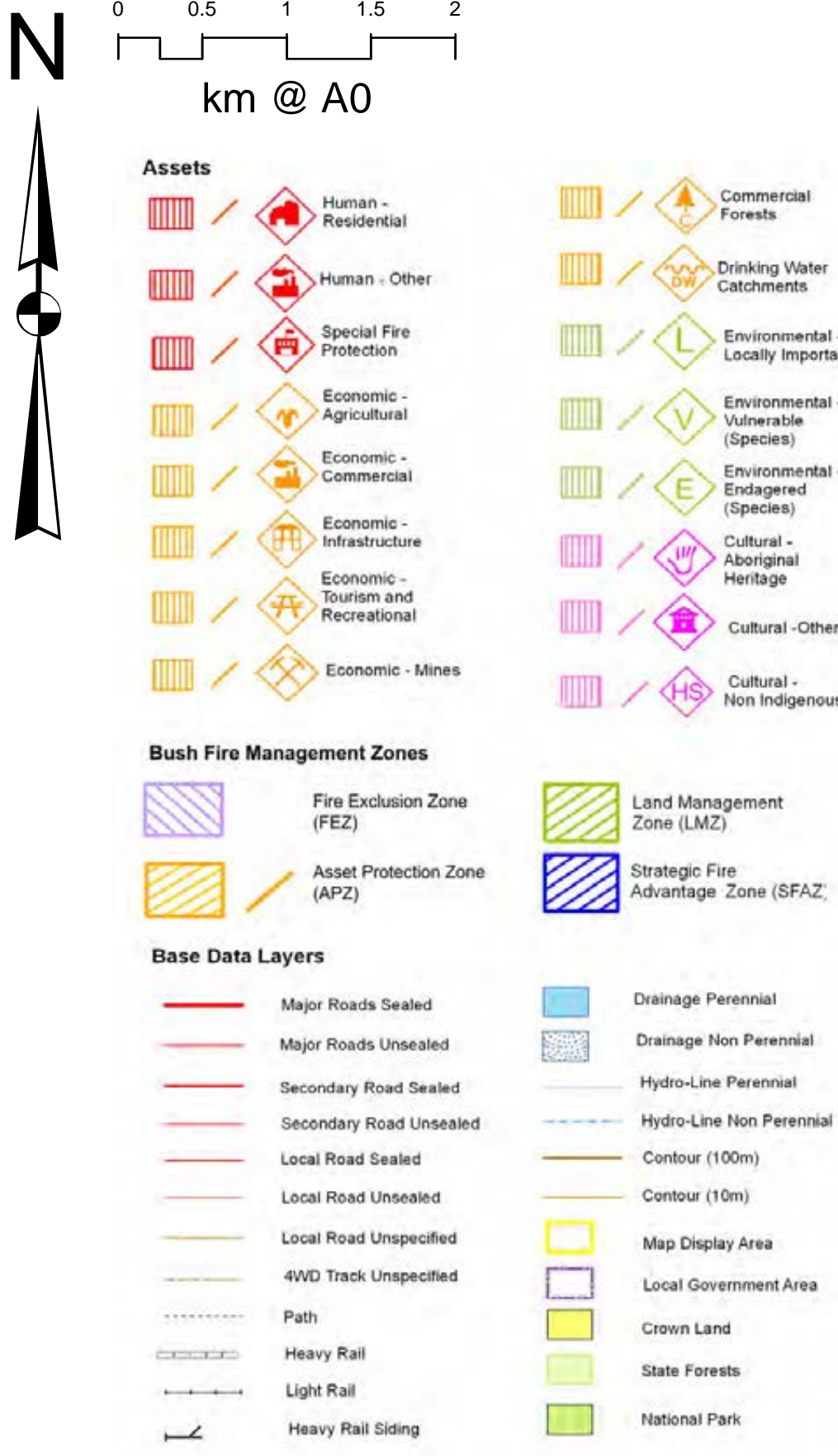
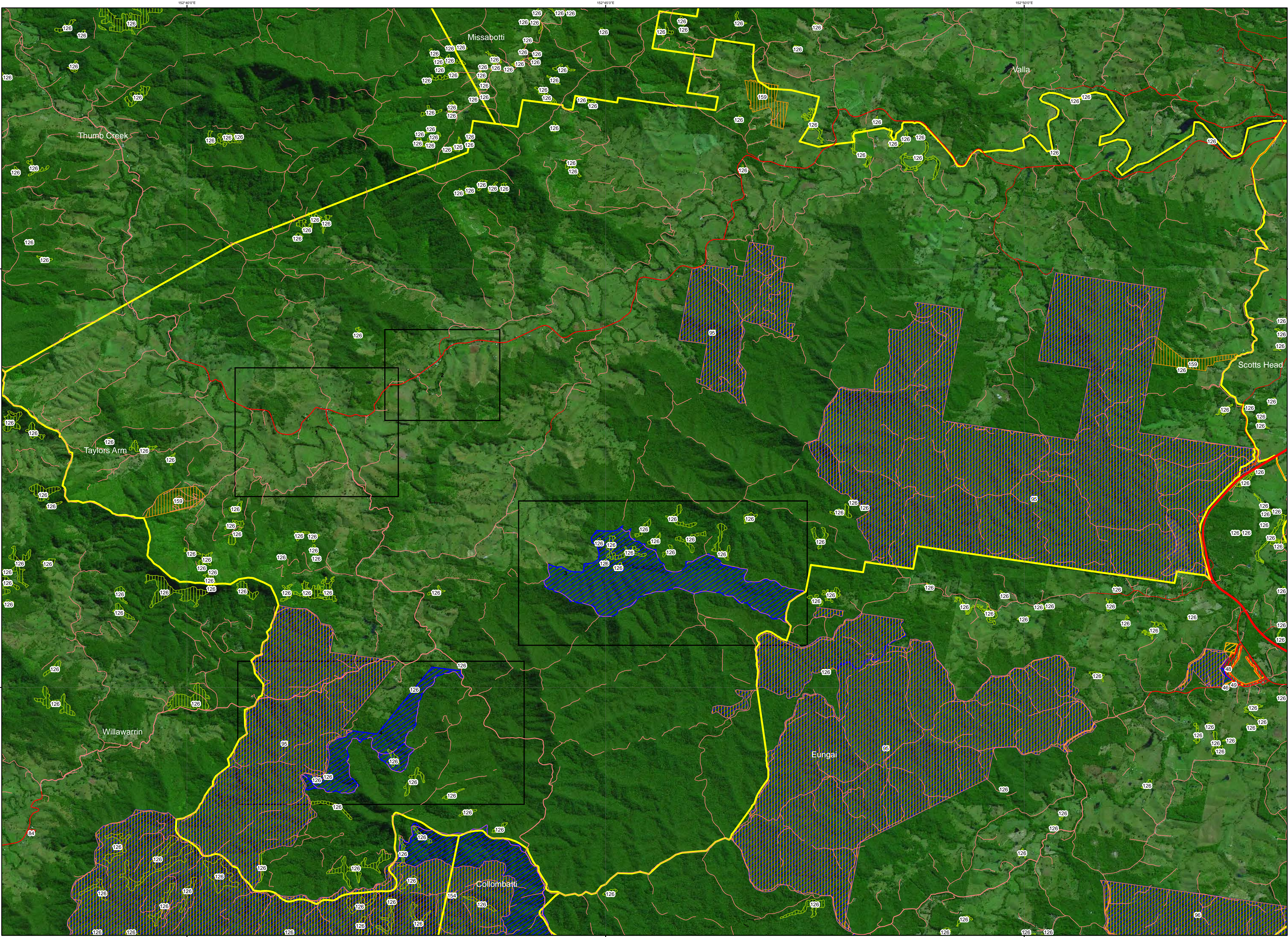
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Treatments			
ID	Treatment strategy	Action	Agencies (Support)
T29	Hazard Reduction	SFAZ burning for Isolated Rural Development	Private (RFS)
T36	Community Education	Media campaign on prepare, act, survive	RFS
T43	Preparedness	Maintain Strategic Fire Trail network	Ti CL, LGA, OEH, Private, DPI
T83	Hazard Reduction	Maintain Fuels in accordance with Guidelines	LGA, Private, RFS
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant

Assets						
Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
23	Isolated Rural Development Taylors Arm	Human	Residential	Extreme	1A	T29,36,43
116	Utungun Community Hall NSP	Human	Other	Very High	2A	T83
188	Vulnerable Species	Environment	Vulnerable	High	3D	T132
218	Taylors Arm Oval NSP	Human	Other	Medium	4	T83



Inset map 1. Upper Taylors Arm



Inset map 2. Lower Taylors Arm



Inset map 3. SFAZ burning



Inset map 4. SFAZ burning

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Taylors Arm - Map Display Area

Map 14 of 15

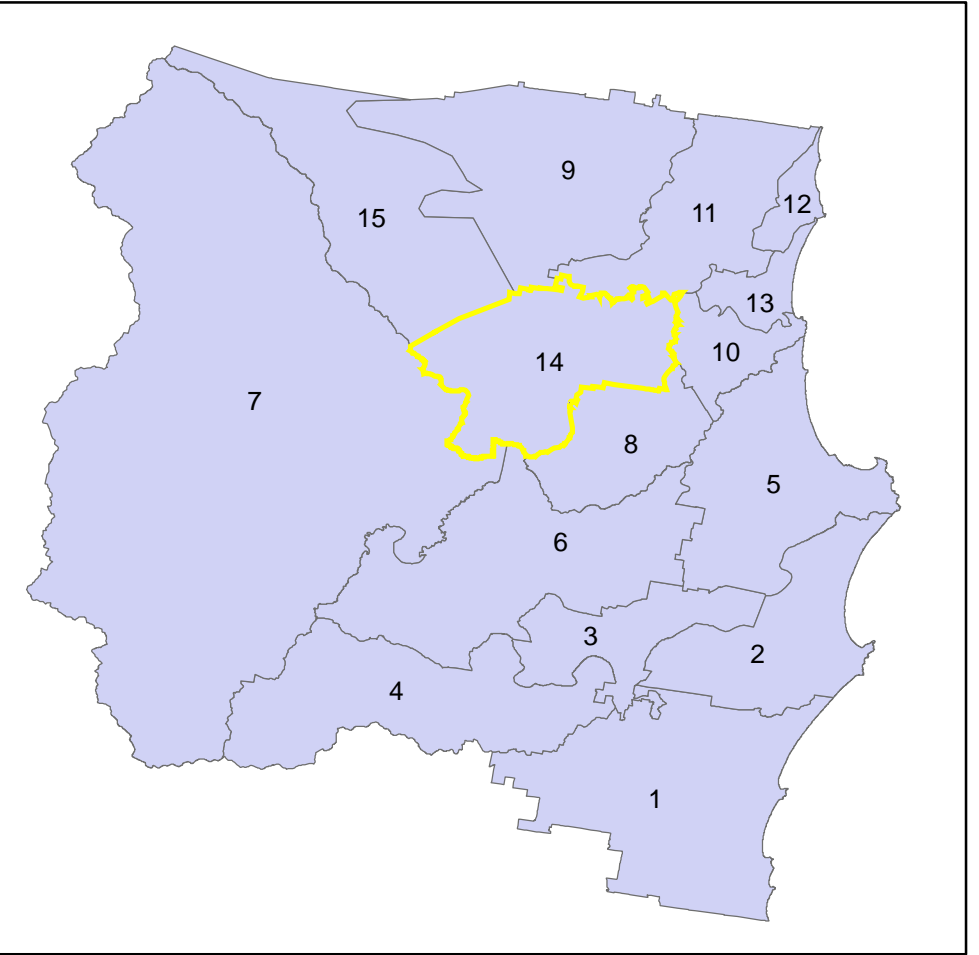
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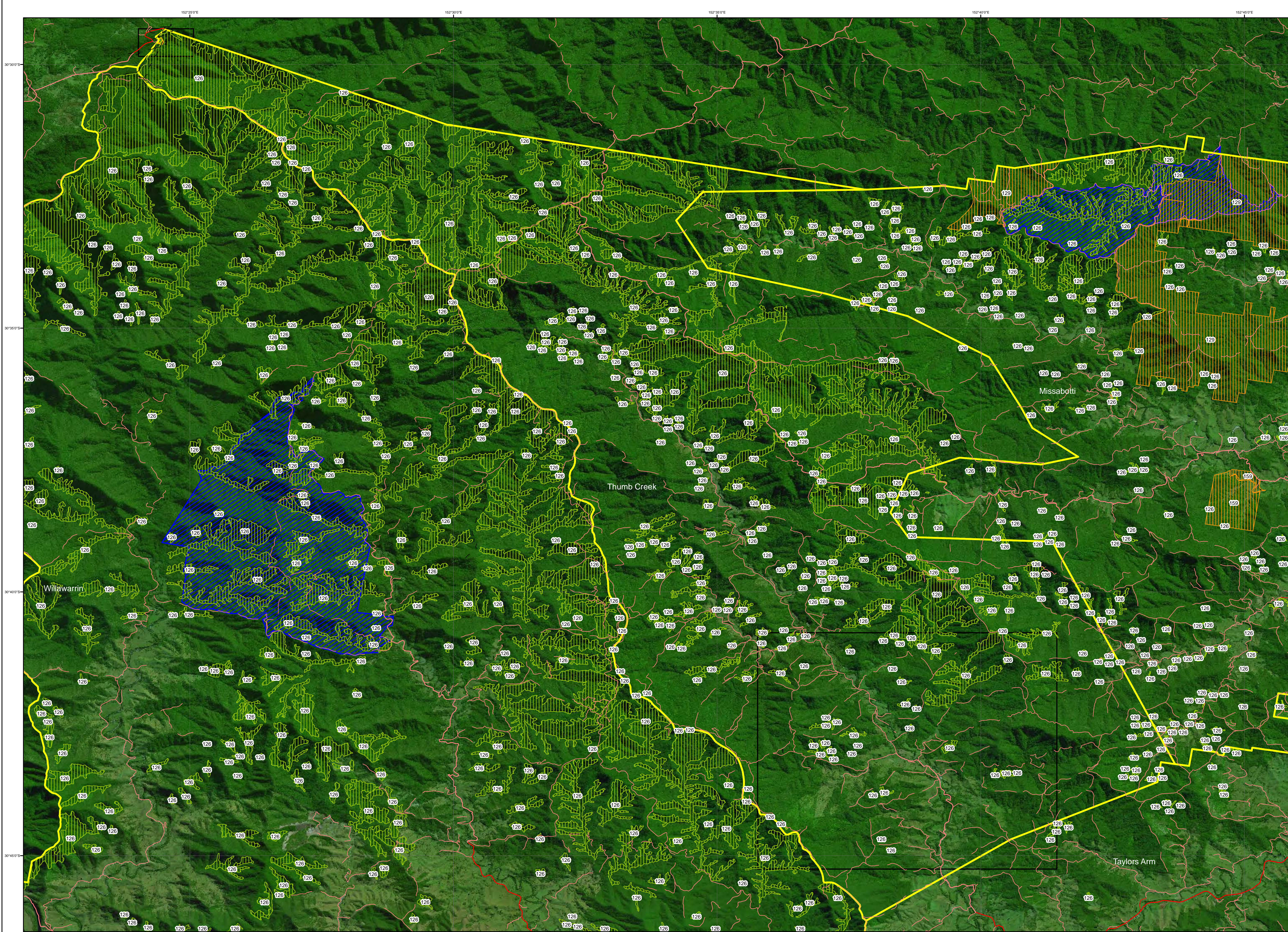
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T43	Preparedness	Maintain Strategic Fire Trail network	Ti CL, LGA, OEH, Private, DPI
T110	Property Planning	Maintain as per Reserve Fire Management	OEH
T118	Preparedness	Inspect Fire Trail(s) and maintain as required	FCNSW
T119	Hazard Reduction	Hazard Reduction Burning	FCNSW
T132	Ignition Management	Hazard reduction burning in line with the BFEAC	All as relevant

Map Ref	Asset name	Asset type	Subtype	Risk level	Priority	Treatment
21	Isolated Rural Development Thumb	Human	Residential	Extreme	1A	T29,36,43
108	Bowra Sugarloaf Communications Tower	Economic	Infrastructure	Very High	2A	T110
149	Oakes State Forest	Economic	Commercial	Very High	2C	T118,119
150	Buckra Bendinni State Forest	Economic	Commercial	Very High	2C	T118,119
151	Nulla Five Day State Forest	Economic	Commercial	Very High	2C	T118,119
152	Thumb Creek State Forest	Economic	Commercial	Very High	2C	T119,118
179	Mistake State Forest	Economic	Commercial	High	3A	T118,119
184	Mt Killecrankie Lookout	Economic	Tourist and	High	3D	T110
187	Endangered Species	Environment	Endangered	High	3D	T132
205	Gorge Lookout - Viewing platform	Economic	Tourist and	Medium	4	T110
206	New England NP Lookout - Viewing	Economic	Tourist and	Medium	4	T110
207	Eagles Nest Lookout Viewing Platform	Economic	Tourist and	Medium	4	T110



Inset map 1. Burrupine



Inset map 2. Point Lookout

Kempsey Nambucca BFM Bush Fire Risk Management Plan 2018

Thumb Creek - Map Display Area

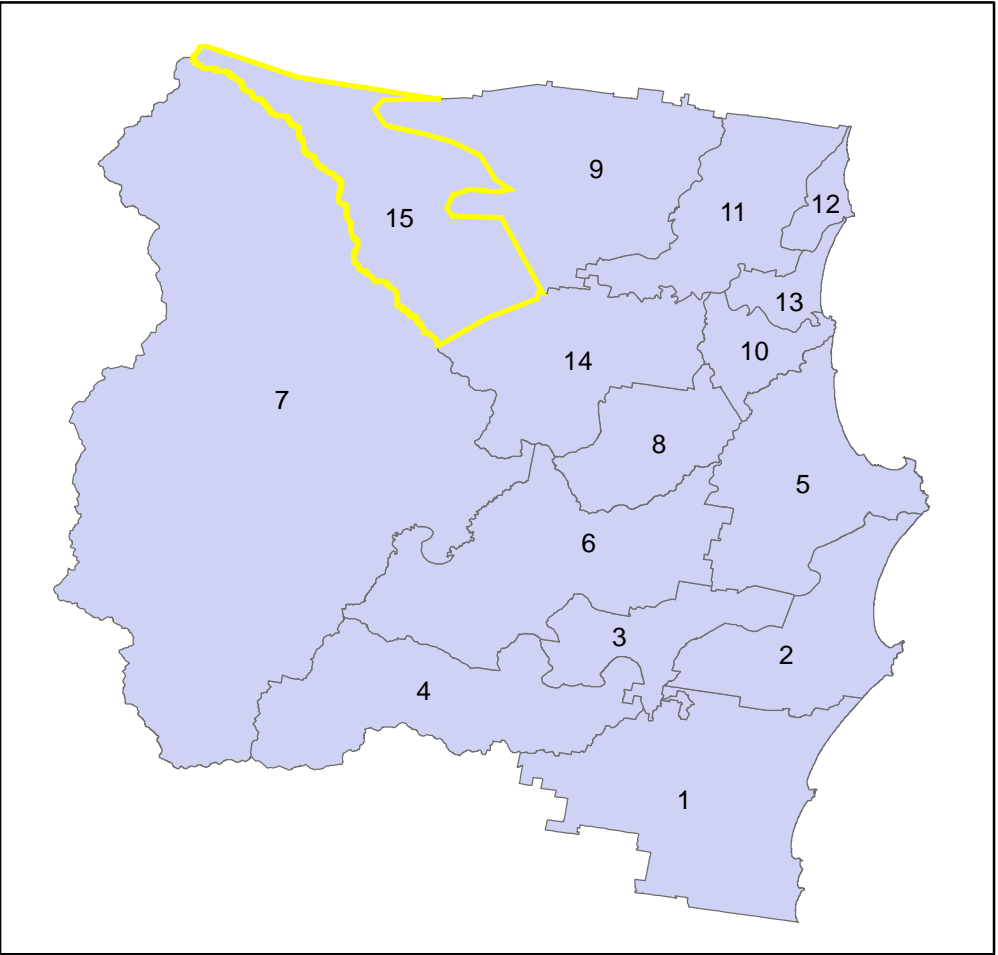
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