Gwydir Bush Fire Management Committee

Bush Fire Risk Management Plan
Prepared by the Gwydir Bush Fire Management Committee; pursuant to section 52 of the Rural Fires Act, 1997. In accordance with the Regulations to the Rural Fires Act 1997, the draft bush fire risk management plan will be exhibited for a period of not less than 42 days during which time submissions are invited from the public.

As such, members of the public, whether as private individuals or as members of community interest groups are invited to comment on the plan. Submissions should be in writing, and as detailed and specific as possible; however any comments, no matter how brief or general are welcome. All comments received will be referred to the Bush Fire Coordinating Committee with the plan for their final deliberation and approval.

Prior to finalising the plan, the Bush Fire Management Committee is required to consider the submissions to plan and prepare a review for consideration by the Bush Fire Coordinating Committee. Under the Act, the Bush Fire Coordinating Committee may approve the plan, amend the plan or reject the plan in the light of public submissions.

If significant changes are made to the plan after public exhibition, the draft plan will be placed on further exhibition prior to its final adoption.

The closing date for comments on this plan is: 9th February 2010

Comments should be forwarded to:

Executive Officer

Gwydir Bush Fire Management Committee
C/- PO Box 140
Bingara NSW 2404

Additional information or enquires on any aspect of the plan can be obtained from Brett Loughlin, or by telephoning 6724 1911.
**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, NSW Fire Brigades, the National Parks and Wildlife Service and Forests NSW.

**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.
# Table of Contents

**Glossary**

**Chapter 1. Introduction**

1.1 Background

1.2 Aim and Objectives

1.3 Description of the Gwydir BFMC area
   1.3.1 Location and land tenure
   1.3.2 Climate and bush fire season
   1.3.3 Population and demographic information
   1.3.4 History of bush fire frequency and ignition cause

**Chapter 2. Identifying and assessing the bush fire risk**

2.1 Process

2.2 Communication and consultation

2.3 Identifying the bush fire risk
   2.3.1 Assets
   2.3.2 Assessing the bush fire risk - consequence
   2.3.3 Assessing the bush fire risk - likelihood
   2.3.4 Identifying the level of risk
   2.3.5 Evaluating the bush fire risk
   2.3.6 Prioritising treatments
   2.3.7 Risk acceptability

**Chapter 3. Treating the risk**

3.1 Bush Fire Management Zones

3.2 BFMC wide treatments

3.3 Asset specific treatments

3.4 Fire thresholds

3.5 Annual works programs

3.6 Implementation

**Chapter 4. Performance monitoring and reviewing**

4.1 Review

4.2 Monitoring

4.3 Reporting

4.4 Performance Measurements

**Appendix 1 Community Participation Strategy**

**Appendix 2 Asset Register**

**Appendix 3 Treatment Register**

**Appendix 4-4 Maps**
List of Tables
Table 1.1 Land tenure ........................................10
Table 3.1 Bush Fire Management Zones: Purpose, objectives and characteristics .......18
Table 3.2 Asset specific treatments used in the Gwydir BFMC area ...............................21
Table 3.3 Fire Thresholds for Vegetation Categories ....................................................22

List of Figures
Figure 2.1 Overview of the risk assessment process .......................................................12
Authorisation

In accordance with Part 3 Division 4 of the Rural Fires Act 1997, this Draft Plan has been prepared by the Gwydir Bush Fire Management Committee and has been endorsed at the BFMC meeting on 30th September 2009 for submission to the Bush Fire Coordinating Committee.

Recommended

[Signature]

Chairperson
Gwydir Bush Fire Management Committee

Approved

[Signature]

Shane Fitzsimmons, AFSM
Chairman
NSW Bush Fire Coordinating Committee

On behalf of the
NSW Bush Fire Co-ordinating Committee
## Amendment List

<table>
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<th>Amendment Number</th>
<th>Entered Date</th>
<th>Signature Date</th>
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</tbody>
</table>
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 Gwydir 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 Gwydir BFMC area.

This BFRMP has been prepared by the Gwydir 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 Gwydir BFMC area

1.3.1 Location and land tenure
The Gwydir BFMC area is located in the North West of New South Wales and includes the Local Government Areas of Narrabri and the Moree Plains.

The total area covered by the Gwydir BFMC is 9,122 square kilometres and includes the land tenures outlined in Table 1.1.

<table>
<thead>
<tr>
<th>Land Manager</th>
<th>% of BFMC area</th>
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<tr>
<td>National Parks &amp; Wildlife Service</td>
<td>2.1</td>
</tr>
<tr>
<td>Forests NSW</td>
<td>0.52</td>
</tr>
<tr>
<td>Department of Lands</td>
<td>2.38</td>
</tr>
<tr>
<td>Local Government</td>
<td>0.61</td>
</tr>
<tr>
<td>Private</td>
<td>94.39</td>
</tr>
</tbody>
</table>

Table 0.1 Land tenure

1.3.2 Climate and bush fire season
Gwydir BFMC has a Sub Monsoonal climate which is characterised by hot summers and cold winters. The area receives an average rainfall of 718mm with a majority of the rain occurring in summer. It is important to note that the Gwydir BFMC has been drought declared for the past 5 years resulting in significantly dryer weather patterns.

The fire season in the BFMC area generally runs from October through to March, however, ongoing drought conditions mean that the fire danger period has the potential to extend outside the normal timeframe. Prevailing weather associated with the bush fire season in the Gwydir BFMC area are high daytime temperatures and low relative humidity with winds from the north-west. Dry lightning storms are also common during this period. November is typically the worst month for larger fires.

1.3.3 Population and demographic information
The population of the Gwydir BFMC area is approximately 5,311 people (2006 Census). The major population centres are Warialda, Bingara, Croppa Creek, Upper Horton, Coolatai, North Star, Warialda Rail, Cobbadah, and Gravesend.

The following issues have been identified within the Gwydir BFMC area as potentially impacting on the ability of certain sections of the community to prepare for bush fire:
As with most Australian rural communities the average age of the population is increasing more rapidly than the Australian population as a whole, due to economic decline and the propensity of the young to leave for greener pastures in the cities. In the simplest terms, this issue is most likely to have a marked bearing on the availability of fire fighters and the viability of the Rural Fire Service, in its current form in coming years.
1.3.4 History of bush fire frequency and ignition cause

The Gwydir BFMC area has on average 70 bush fires per year, of which 5 on average can be considered to be major fires.

The main sources of ignition in the Gwydir BFMC area are:

- Lightning Strikes
- Arson, suspected arson and escapes from illegal hazard reduction burns
- Escapes from legal burning off and unextinguished camp fires
- Farm Machinery (i.e. during harvest)
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](image)

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 BFMC area in regards to the BFRMP. See Appendix 1 for the Community Participation Strategy used by the Gwydir 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 Gwydir 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 Gwydir 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, gas and 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;
- 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 Gwydir BFMC area. See maps 1 – 4 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 Gwydir 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

Environmental assets with known minimum fire threshold were assessed to determine if they were at risk of a bush fire within the 5 year life of the BFRMP using fire history data. 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 Gwydir 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 Gwydir 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

No organisation has limitless resources to deal with adverse risk. It is therefore necessary to define priorities. 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

Risks below a certain level were assessed as not requiring treatment within the life of this plan. This is due to the capacity of the BFMC to realistically undertake the works.

Within the Gwydir BFMC area the level of risk acceptability is very high. Areas of high, medium or low risk are likely to be managed by routine procedures and so do not require a specific application of resources. However, this does not mean treatments will not be assigned, where practical, to assets in these risk categories.
Chapter 3. Treating the risk

3.1 Bush Fire Management Zones

Bush Fire Management Zones were identified within the Gwydir BFMC area and mapped (see maps 4-7). 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).
<table>
<thead>
<tr>
<th>Zone</th>
<th>Purpose</th>
<th>Suppression Objective(s)</th>
<th>Zone characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Protection Zone</td>
<td>To protect human life, property and highly valued public assets and values.</td>
<td>To enable the safe use of <strong>Direct Attack</strong> suppression strategies within the zone. To minimise bush fire impacts on undefended assets.</td>
<td>As per RFS document <em>Standards for Asset Protection Zones</em>.</td>
</tr>
<tr>
<td>Strategic Fire Advantage Zone</td>
<td>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.</td>
<td>To improve the likelihood and safe use of:** Parallel Attack** suppression strategies within the zone. and/or <strong>Indirect Attack</strong> (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.</td>
<td>Zone width related to suppression objectives and dependant upon: • 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.</td>
</tr>
<tr>
<td>Land Management Zone</td>
<td>To meet relevant land management objectives in areas where APZs or SFAZs are not appropriate.</td>
<td>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</td>
<td>As appropriate to achieve land management e.g. heritage and/or fire protection e.g. broad scale mosaic burning objectives.</td>
</tr>
<tr>
<td>Fire Exclusion Zone</td>
<td>To exclude bush fires.</td>
<td>N/A</td>
<td>Variable dependant on size of fire sensitive area requiring protection.</td>
</tr>
</tbody>
</table>

**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.
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*.

- **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 arsonists/offenders**
  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.

- **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**

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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**
  
  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 Gwydir BFMC area are listed below. A full list of the treatment strategies in the Gwydir BFMC area are in Appendix 3.
Strategy | Targeted treatments used in the Gwydir BFMC area
--- | ---
Ignition Management | To manage and control ignition sources through the use of Fire Safety Permits and Total Fire Ban days.
Hazard Reduction | To reduce the amount of available fuels either by mechanical means or prescribed burning.
Community Education | To inform and arm the community with the information that they need to prevent, mitigate and survive bush fires.
Property Planning | Use of Bush Fire Prone Land Map to determine developments that shall be referred to the RFS for assessment under Planning for Bush Fire Protection.
Preparedness | Preparation biannually of Operations & Coordination Plan. Individual agency management plans or operations plans.

Table 3.2 Asset specific treatments used in the Gwydir BFMC area

### 3.4 Fire thresholds
The vegetation in the Gwydir BFMC area was classified into fire threshold categories (Table 3.3*).
<table>
<thead>
<tr>
<th>Vegetation formation</th>
<th>Minimum SFAZ Threshold</th>
<th>Minimum LMZ Threshold</th>
<th>Maximum Threshold</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainforest</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Fire should be avoided.</td>
</tr>
<tr>
<td>Alpine complex</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Fire should be avoided.</td>
</tr>
<tr>
<td>Wet Sclerophyll forest (shrubby subformation)</td>
<td>25</td>
<td>30</td>
<td>60</td>
<td>Crown fires should be avoided in the lower end of the interval range.</td>
</tr>
<tr>
<td>Wet Sclerophyll forest (grassy subformation)</td>
<td>10</td>
<td>15</td>
<td>50</td>
<td>Crown fires should be avoided in the lower end of the interval range.</td>
</tr>
<tr>
<td>Grassy woodland</td>
<td>5</td>
<td>8</td>
<td>40</td>
<td>Minimum interval of 10 years should apply in the southern Tablelands area. Occasional intervals greater than 15 years may be desirable.</td>
</tr>
<tr>
<td>Grassland</td>
<td>2</td>
<td>3</td>
<td>10</td>
<td>Occasional intervals greater than 7 years should be included in coastal areas. There was insufficient data to give a maximum interval; available evidence indicates maximum intervals should be approximately 10 years.</td>
</tr>
<tr>
<td>Dry sclerophyll forest (shrub/grass subformation)</td>
<td>5</td>
<td>8</td>
<td>50</td>
<td>Occasional intervals greater than 25 years may be desirable.</td>
</tr>
<tr>
<td>Dry sclerophyll forest (shrub subformation)</td>
<td>7</td>
<td>10</td>
<td>30</td>
<td>Occasional intervals greater than 25 years may be desirable.</td>
</tr>
<tr>
<td>Heathlands</td>
<td>7</td>
<td>10</td>
<td>30</td>
<td>Occasional intervals greater than 20 years may be desirable.</td>
</tr>
<tr>
<td>Freshwater wetlands</td>
<td>6</td>
<td>10</td>
<td>35</td>
<td>Occasional intervals greater than 30 years may be desirable.</td>
</tr>
<tr>
<td>Forested wetlands</td>
<td>7</td>
<td>10</td>
<td>35</td>
<td>Some intervals greater than 20 years may be desirable.</td>
</tr>
<tr>
<td>Saline wetlands</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Fire should be avoided.</td>
</tr>
<tr>
<td>Semi-arid woodlands (grassy subformation)</td>
<td>6</td>
<td>9</td>
<td>No max</td>
<td>Not enough data for a maximum fire interval.</td>
</tr>
<tr>
<td>Semi-arid woodlands (shrubby subformation)</td>
<td>10</td>
<td>15</td>
<td>No Max</td>
<td>Not enough data for a maximum fire interval.</td>
</tr>
<tr>
<td>Arid shrublands (chenopod subformation)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Fire should be avoided.</td>
</tr>
<tr>
<td>Arid shrublands (acacia subformation)</td>
<td>10</td>
<td>15</td>
<td>No Max</td>
<td>Not enough data for a maximum fire interval.</td>
</tr>
</tbody>
</table>

Table 3.3 Fire Thresholds for Vegetation Categories

### 3.5 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.
3.6 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.

*Local permit issuing/hazard reduction burning exclusion periods

In the Gwydir BFMC area the issuing of permits is not permitted from the 22/12 to the 02/01.

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 Gwydir 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 have been identified by the BFCC. All BFMCs must use these to monitor and report on their success in reducing the bush fire risk in their BFMC area.
Appendices

Appendix 1 Community Participation Strategy

Appendix 2 Asset Register

Appendix 3 Treatment Register

Appendix 4-7 Maps
## Appendix 2. Asset Register

<table>
<thead>
<tr>
<th>Asset type</th>
<th>Asset name</th>
<th>Location</th>
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<th>Display area</th>
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## Appendix 3. Treatment Register

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**Grand Total**
This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Gwydir Bush Fire Management Committee (BFMC) pursuant to section 52 of the

**Objectives**
- reduce the number of human-induced bush fire ignitions that cause damage to life, property or the environment;
- manage bush fires to achieve environmental goals;
- ensure bush fires are contained within their preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

This Bush Fire Risk Management Plan (BFRMP) identifies the assets that are considered by the Gwydir BFMC and community to be at risk from bush fires, including: Residential, Isolated Rural Properties, Vulnerable Environmental Sites, and Special Fire Zones. The map accompanying the BFRMP document provides further details on the BFMC area, the assets assessed, and the risk assessment process used.

**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.

To enable the safe use of suppression strategies within the zone and/or to reduce the potential for significant bush fire impacts on undefended assets, the following bush fire management treatments are recommended:
- Indirect Attack
- Direct Attack
- Parallel Attack
- Strategic Indirect Attack
- Parallel Attack (back burn)

**Treatments**
- Assess Overall Fuel Hazard (OFH) once vegetation treatments are applied.
- Monitoring of fuel treatments to ensure effectiveness.
- Ensuring developments in the bush fire prone land comply with Planning for Bush Fire Protection.
- Using the Local Government Area (LGA) Bush Fire Management Plan (BFRMP) to coordinate management across the district.
- Planning for Bush Fire Protection.
- Bush Fire Management Plans (BFRMPs) and other planning documents to coordinate management with adjacent fire management authorities in the region.
- Coordinating treatments with the strategic fire-fighting resource allocation systems to provide bush fire management within existing management boundaries.
- Vegetation treatments such as prescribed burning to prepare for the potential for high fire weather conditions within the zone.
- Bush Fire Management Plans (BFRMPs) to plan vegetation treatments without impacting the protection of assets or their environmental values.
- Bush Fire Management Plans (BFRMPs) to ensure vegetation treatments are properly executed and meet the objectives of the plan.
- Vegetation treatments to improve the likelihood and safe use of bush fire suppression strategies.
- Vegetation treatments to reduce the risk of bush fires extending beyond the boundary of the zone.

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This Bush Fire Risk Management Plan (BFRMP) has been prepared by the Gwydir Bush Fire Management Committee (BFMC) pursuant to section 52 of the Rural Fire Act 1997. The Gwydir BFMC makes every effort to ensure the quality of the information available on this map. Before relying on the information for their purposes, and should obtain any appropriate professional advice relevant to their particular circumstances.

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This Bush Fire Risk Management Plan (BFRMP) has been prepared by the local government authority, **Gwydir Local Government Authority**, within the boundaries of the **Gwydir Local Government Area**. The purpose of this BFRMP is to reduce the adverse impact of bushfires on life, property, and the environment.

**Objectives**: The Gwydir BFMC aims to:
- Reduce the number of human-induced bushfire ignitions that cause damage to life, property, or the environment;
- Manage the risk of severe bushfire events that could cause significant damage;
- Effectively contain fires with a potential to cause damage to life, property, and the environment.

**Key Elements**:
- **Preparedness**: Agencies (Support) and Preparedness programs to ensure the area is well-prepared for bushfire events.
- **Suppression**: Efforts to contain bushfires, including strategic fire-fighting resource allocation and planning.
- **Protection Zone**: Indirect attack strategies within the zone to reduce the risk of fire spread.
- **Fire Advantage Zone**: Parallel attack to aid containment of wildfires to existing management boundaries.
- **Fire Exclusion Zone**: To prevent the start of bushfires in the Zone.

**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.

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