

North Coast Region
New England & Cunnawarra (part)
National Parks, Jobs Mountain & Pee Dee Nature Reserves
Fire Management Strategy (Type 2)
2014 (external version) Sheet 1 of 4

This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans.

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

Index & Locality

Datum: GDA94
 Projection: UTM
 Grid: MGA Zone 56
 Noted scales are true when this map is printed on A0 size paper

Operational Guidelines
 Refer to Refer to NPWS Fire Management Manual
 Brief all personnel involved in suppression operations on the following issues:

Resource
 Guidelines:
 • AH2 - As far as possible protect site from fire. Avoid all ground disturbance including the use of earthmoving machinery, handline construction and driving over sites. Avoid water bombing which may cause ground disturbance.
 • AH3 - Avoid all ground disturbance. Avoid water bombing. Site may be burnt by bushfire, back-burn or prescribed burn without damage.

Historic Heritage Management
 NPWS FMM 4.10
 • Protect Site from fire and maintain an asset protection buffer. Avoid all ground disturbance, including water bombing.

Threatened Fauna Management
 NPWS FMM 4.12 & 5.2
 • Where practicable protect habitat areas and trees from the fire if the effects of the resulting fire frequency, season & intensity will have a significant or unknown impact.
 • Specific Fauna Prescriptions relevant to Dorrigo and Bellinger River NPs:
 FA3 Treatment: Mosaic burns to diversify understory. Protect casuarina stands.
 FA7 Treatment: As far as possible, protect large and hollow-bearing trees in locations where these type of species are known to occur.
 FA8 Treatment: Avoid frequent fire (< 10 yrs apart) and mosaic burn pattern.
 FA9 Treatment: Protect habitat from disturbance with heavy machinery or chemicals.
 FA13 Treatment: Protect ground habitat (logs), drainage lines and hollow-bearing trees.
 • For other Threatened Fauna sitings, consult with a senior NPWS officer and the 'Threatened Species' 'Lookout' Tables' folder in P. Regional Other Fire RFSMS.

Threatened Flora Management
 NPWS FMM 4.12
 • FL1 - Avoid inter-fire intervals of <10 years in locations where these species are known to occur. Avoid the use of earth moving machinery and retardant in locations where these species are known to occur.
 • FL2 - As far as possible, exclude fire and avoid the use of earth moving machinery or retardant from where these species are known to occur.

Threatened Property
 Guidelines:
 • Where possible, keep property owners with assets at risk from a wildfire informed on the fire progress and ask for an assessment of their current asset protection preparedness.

General
 Guidelines:
 • The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spotovers.
 • The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances assessed in an Incident Action Plan.
 • Where practicable foam should be used to increase the effectiveness of the water. Ground crews must be alerted to water bombing operations.
 • Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the prior consent of a senior NPWS officer.
 • Utilise incendiaries to rapidly progress back-burns down slope where required.

Aerial Ignition
 NPWS FMM 4.2.20, 4.4, NPWS Fire Response Manual 02/01/14, NPWS Guidelines Effective Aircraft Mgt

Backburning
 NPWS FMM 4.3
 • Temperature and humidity trends must be monitored carefully to determine the safest times to implement back-burns. Generally, when the FHM is Very High or greater, backburning should commence when the humidity begins to rise in the late afternoon or early evening. With a lower FHM backburning may be safely undertaken during the day.
 • Where practicable, clear a radius around dead and threatened trees adjacent to containment lines prior to backburning, or wet down these trees.
 • Avoid ignition of backburns at the bottom of slopes where a long and intense up slope burn is likely.

Command & Control
 NPWS FMM 4.2
 • The first combat agency on site may assume control of the fire, but then must ensure the relevant land management agency is notified promptly.
 • On the arrival of other combatant agencies, the initial incident controller will consult with regard to the ongoing command, control and incident management team requirements as per the relevant BFMIC Plan of Operations.

Containment Lines
 NPWS FMM 2.2.3.9
 • Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact. New containment lines require the prior consent of a senior NPWS officer.
 • Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.
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 • All containment lines not required for other purposes should be closed at the cessation of the incident.
 • All personnel involved in containment line construction should be briefed on both natural and cultural heritage sites in the location.

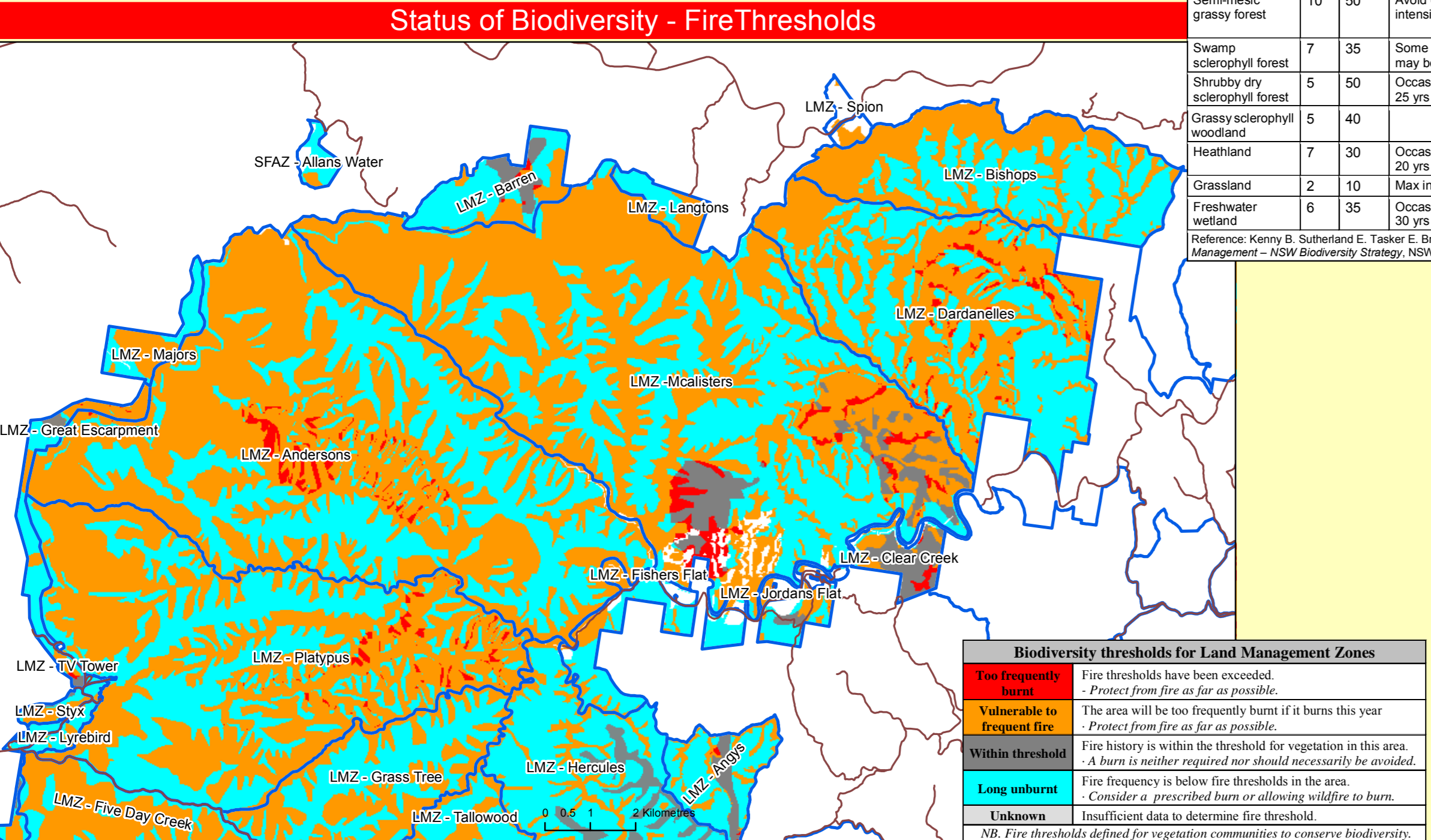
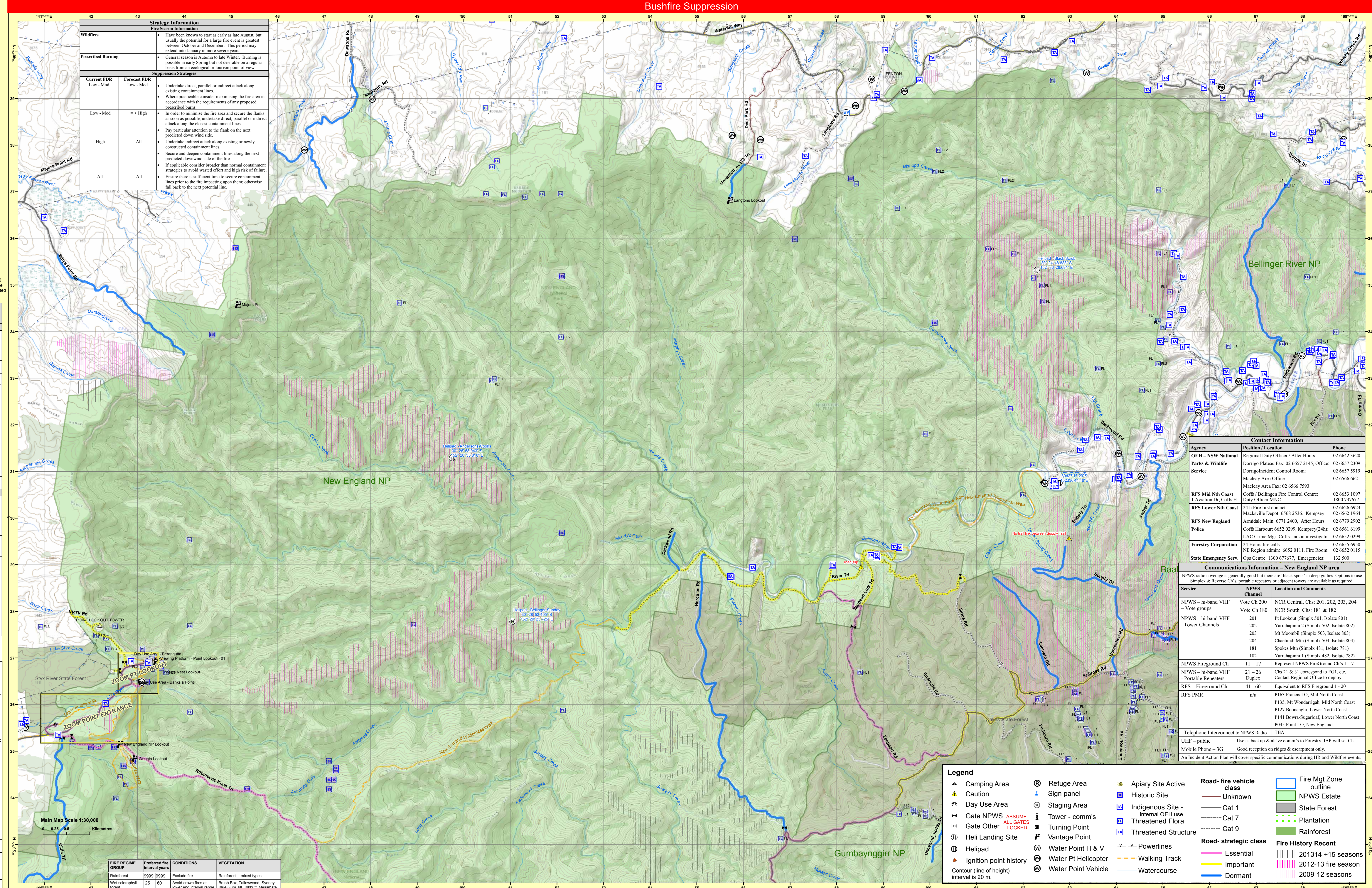
Earthmoving Equipment
 NPWS FMM 4.2.20, 4.3
 • Earthmoving equipment may only be used with the prior consent of a senior NPWS officer, and then only if the probability of its success is high.
 • Earthmoving equipment must be always guided and supervised by an experienced officer, and accompanied by a support vehicle. When engaged in direct or parallel attack this vehicle must be a firefighting vehicle.
 • Containment lines constructed by earthmoving equipment should consider the protection of drainage features, observe the Threatened Species and Cultural Heritage Op's Guidelines, & be surveyed, where possible, to identify unknown heritage sites.
 • Earthmoving equipment should be washed down, where practicable, prior to entering NPWS estate.

Fire Advantage Recording
 NPWS FMM 4.2.20, 4.9
 • All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.
 • Writing and foaming agents (surfactants) are permitted for use in wildfire suppression. The use of fire retardant is only permitted with the prior consent of the senior NPWS officer, and should be avoided where reasonable alternatives are available.
 • Exclude the use of surfactants and retardants within 50m of rainforest, watercourses, dams and swamps.
 • Areas where fire suppression chemical is used must be mapped & chem. used recorded.
 • The Threatened Species Operational Guidelines are to be observed.

Rehabilitation
 NPWS FMM 5.3
 • Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.

Smoke Management
 NPWS FMM 3.4
 • The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations.
 • If smoke becomes a hazard on public roads, notify the police and relevant media.
 • Smoke management must be in accordance with relevant RTA traffic mgmt guidelines.

Visitor Management
 NPWS FMM 3.4, 4.1
 • The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.



Fire Vegetation Class

FIRE REGIME	Preferred fire interval years	CONDITIONS	VEGETATION
Rainforest	9999 9999	Exclude fire	Rainforest - mixed types
Wet sclerophyll forest	25 50	Avoid crown fires at lower and interval range	Brush Box, Tallwood, Sydney Blue Gum, NE Blackbutt, Massaroba
Semi-mesic grassy forest	10 50	Avoid consecutive low intensity fires	Grey Gum, Ironbark, Mahogany, Cold Tableland Gums
Swamp	7 35	Some intervals > 20 yrs may be desirable	Other forest river oak
Shrubby dry sclerophyll forest	5 50	Occasional intervals > 25 yrs may be desirable	Blackbutt, Peppermint
Woodland	5 40	Occasional intervals > 20 yrs may be desirable	Grey Gum, Ironbark, Mahogany, Cold Tableland Gums
Heathland	7 30	Occasional intervals > 20 yrs may be desirable	Alpine, Riparian, Pinewood, Leptospermum spp, scrub
Grassland	2 10	Interval intervals in estimate	Pinus subserotena
Free-water wetland	6 35	Occasional intervals > 30 yrs may be desirable	Leptospermum spp, Tetraria spp

Reference: Kenny & Sutherland E. Towse E. Blackwell R. 2004 Guidelines for Ecologically Sustainable Fire Management - NSW Biodiversity Strategy, NSW NPWS

